



HYDRAULIC ADAPTERS & COUPLINGS



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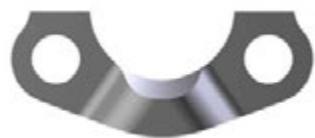
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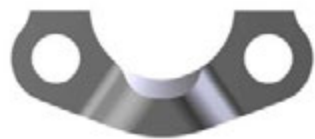
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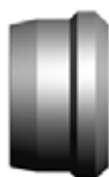
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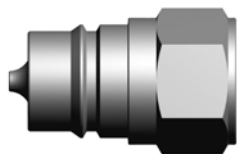
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GEM Industry is committed to the on-going improvement of Products, Processes, our Company and the Environment.

As part of this approach, GEM Industry is associated with various references.

Quality Management



GEM Industry has been ISO9001 certified since 1995.

It applies this approach to ensure the level of quality of its products and applies it to direct its action towards improving customer satisfaction.



To go further in its Product Quality approach, GEM Industry carries full traceability on all of its references. GEM Industry has been EN9100 certified for the Aerospace market since 2007.



GEM Industry has taken all necessary steps to implement the EU Regulation REACH (Registration, Evaluation, Authorisation and Restriction of Chemical substances).

Updated information is available online on our website:

www.gem-industry.com, section REACH.

For more information on our approach concerning this regulation or for any information on the substances used, please contact:

quality@gem-industry.com

Sustainable Development



GEM Industry has participated in the United Nations "Global Compact" since July 2008. Member companies are committed to aligning their operations and strategies with ten universally accepted principles in the areas of human rights, labour, environment and anti-corruption.

Joining the Global Compact is to share the conviction that business practices based on these ethical principles contribute to the emergence of a more stable, open and fairer global market, in other words, the emergence of more prosperous and dynamic societies.

1. Application of the general conditions of sale – Enforceability

These General Conditions of Sale (GTC) are the basis of commercial negotiations and are systematically sent or handed over to each buyer to enable him to place an order. Any order from the buyer implies the acceptance without restriction or reservation of these terms and conditions as soon as they have been communicated to him in accordance with the practices of the profession.

In case of Internet purchase, these Terms and Conditions will be subject to acceptance by the buyer who must, before taking into account the order, tick a box to this effect after having read the document.

Possibly, the terms and conditions may be supplemented by the stipulations of the general conditions of purchase established by the buyer on the elements of the relationship other than the price schedule, the conditions of settlement, in particular the penalties of delay, discounts and rebates as well as special conditions of sale. The General Terms and Conditions of Purchase are only enforceable against GEM Industry if GEM Industry has expressly agreed to them.

These terms and conditions apply to the sale of the following products: Fittings, Hoses, Fittings, Skirts and Adapters.

2. Controls

2.1. To be valid, the order must specify in particular the quantity, the type, the references of the products sold as well as the agreed price, the conditions of payment, the place and the date of delivery or collection.

2.2. All orders must be for a minimum amount of:

- €100 excl. tax for deliveries in mainland France;
- €300 excl. tax for deliveries outside metropolitan France;

Any order with a net amount before tax lower than the above amounts, will see its delivery deferred pending a supplement allowing to reach this threshold.

Notwithstanding the above:

- orders below the minimum amount required, can be delivered if the customer wishes. In this case, an administrative fee of €20 excluding tax will be added to the order price;
- Orders placed on the GEM Industry website are not subject to a minimum amount.

2.3. After the final validation of the order, the buyer has the possibility to request its cancellation provided that the products of the order are not yet delivered to the carrier. In the latter case, the order can no longer be cancelled and GEM Industry cannot be held responsible.

2.4. In any case, is the holder of a right of withdrawal (the «Holder of the Right of Withdrawal»): the professional buyer where the contract is concluded outside the establishment where the subject of the contract does not fall within the scope of the principal activity of the professional buyer sought and the number of employees employed by the latter is less than or equal to five.

The Holder of the Right of Withdrawal has a period of fourteen (14) days (hereinafter the "Period of Withdrawal") to exercise his right of withdrawal without having to give reasons for his decision or to bear other costs than those referred to in this article.

The Withdrawal Period runs from the receipt of the product by the Holder of the Right of Withdrawal or a third party, other than the carrier, designated by him.

In order to exercise its right of withdrawal, the Holder of the Right of Withdrawal informs GEM Industry of its decision to withdraw by sending, before the expiry of the Withdrawal Period, a declaration expressing its unambiguous desire to withdraw, email commercial@gem-industry.com. The burden of proof of the exercise of the right of withdrawal falls on the Holder of the Right of Withdrawal.

The Holder of the Right of Withdrawal shall return the Product to GEM Indus-

try or a person designated by GEM Industry without undue delay and no later than fourteen (14) days following the communication of its decision to withdraw, unless GEM Industry proposes to recover the product itself. The Holder of the Right of Withdrawal only bears the direct costs of returning the product.

When the right of withdrawal is exercised, GEM Industry shall reimburse the Holder of the Right of Withdrawal for all sums paid, including delivery costs, without undue delay and no later than fourteen (14) days from the date on which he is informed of the Right Holder's decision to withdraw.

3. Price

The products are supplied at the prices in force at the time of placing the order expressed in euros and excluding taxes. The price schedule containing the discounts applicable to the relations between the parties, unless specifically agreed in the special conditions, is available on the GEM Industry website.

4. Shipping and packing costs

4.1. Our prices are postage and packing paid (express shipping in addition) for orders greater than or equal to:

- 1.000 € net before tax for metropolitan France, reduced 650 € net before tax for orders exclusively of adapters, bits or couplers.
- €3,000 net before tax for deliveries in the European Union,
- €5,000 net before tax for deliveries outside the European Union.

4.2. For order amounts lower than those listed above, shipping costs (shipping and packaging) are charged in addition (unless previously agreed in writing by GEM Industry).

4.3. Our goods are shipped in cardboard packaging (possibility of special packaging at the request of the customer and after acceptance by GEM Industry).

4.4. Any request for direct shipment to a customer of the buyer will be subject to an additional charge of €15 excl.

4.5. Unless otherwise instructed in writing by the purchaser, GEM Industry shall remain free to choose the carrier.

5. Delivery

5.1. Delivery times are as accurate as possible but are dependent on GEM Industry supply and transportation opportunities. Delivery delays may not give rise to damages, retention or cancellation of orders in progress.

5.2. GEM Industry reserves the right to suspend all outstanding orders, in the event of non-payment of the due date invoice.

5.3. In compliance with the standards, GEM Industry may modify the parts in its catalogue without notice.

5.4. Any dimensions or figures not existing in the GEM Industry catalogue can be supplied upon request. In the case of a non-catalogue order, the quantity delivered will be equal to the quantity ordered + or - 10%.

6. Opening a customer account

6.1. Opening a customer account is subject to sending a signed RIB and GEM Industry Account Application Form.

6.2. The delivery of an order before opening an account requires either a cash on delivery or payment on order.

7. Payment conditions

7.1. All invoices issued by GEM Industry are payable 30 days from the date of issue of the invoice in accordance with the provisions of article L 441-6, paragraph 5 of the French Commercial Code. This period may exceed 30 days without going beyond 60 days, in accordance with the LME law. Drafts are to be returned within 15 days.

7.2. No extension is accepted without prior agreement from GEM Industry. An unauthorized deferral may result in the closure of the account. GEM Industry billing is stopped on the last day of each month. No extension due to delay in receipt of invoice or merchandise beyond our control will be accepted. In accordance with article L 441-6, paragraph 8 of the French Commercial Code, any delay in payment will in any case give rise to a penalty set at three times the legal interest rate. Late penalties are due without a recall. A flat-rate compensation of EUR 40 is also payable for recovery costs.

7.3. Payment of orders is made:

- by card/bank transfer;
- bill of exchange.

Payment by cheque is not accepted.

7.4. A discount of 0.5% per month will be deductible in case of payment before the due date.

7.5. The transfer of ownership of our goods is conditional on the full payment of the price.

8. Complaint et retour

8.1. No person shall refuse or return goods unless the goods are in non-compliance.

8.2. Any claim for non-compliance or apparent defect must be made in writing within 8 days of the delivery date.

8.3. The costs incurred in returning goods to GEM Industry as a result of a customer error or a simple request from the customer shall be borne by the customer, furthermore a 30% deduction shall be applied. The returned goods are accompanied by a return slip to be affixed to the package and must be in the condition in which GEM Industry delivered them.

8.4. No return of parts that have been specially produced and considered as not defective will be accepted.

8.5. When the goods delivered have been paid for by the order, by Internet or under the conditions of article 6-2, any cancellation as defined in article 2 or return of goods provided for in this article will give rise to the immediate issue of a credit note.

9. Guarantees

The products sold are covered by the legal guarantee of hidden defects, within the meaning of article 1641 of the Civil Code.

10. Intellectual property

The studies, plans, drawings and generally any document provided by GEM Industry remain the property of the company and may not be communicated to third parties without prior agreement.

In general, unless expressly authorised in advance by GEM Industry, the Buyer shall not use its intellectual and/or industrial property rights in any way.

11. Personal data

The buyer is informed that GEM Industry, as Data Controller within the meaning of the European Data Protection Regulation (GDPR), implements processing of personal data collected from the buyer.

These processing operations have as legal basis the legitimate interest pursued by GEM Industry, the execution of pre-contractual or contractual measures, the respect of legal and regulatory obligations and the consent of the buyer, by the acceptance of these Terms.

This data may be shared with GEM Industry contractors and subcontractors. They are not transferred to non-EU countries. Should this be the case, the buyer will be informed of this and of the measures taken to protect data security.

They are kept by GEM Industry for the time necessary for the transac-

tions for which they were collected and in compliance with the regulations in force. In this respect, the data of GEM Industry are kept for the duration of the contractual relations plus the duration of the guarantees, without prejudice to the retention obligations (especially for accounting) or limitation periods.

The Data Controller is GEM Industry. The buyer has a right of access to the data concerning him, rectification, interrogation, opposition, portability, and erasure of said data. The purchaser may exercise these rights by writing to GEM Industry via email commercial@gem-industry.com or by mail: RN8 – BP 50 – 13883 GEMENOS CEDEX. The buyer is informed that the exercise of some of these rights may have the effect of preventing the buyer from performing his mission in whole or in part. The buyer is informed that he has the right to lodge a complaint with the CNIL.

12. Risks

The transfer of the risks from GEM Industry to the buyer is done in accordance with the Incoterm chosen by the parties.

In the absence of such a choice, the EXW (Ex Works – Incoterm 2020) incoterm applies. Incoterm EXW implies that the delivered goods travel at the buyer's own risk.

The relative risks are the responsibility of the buyer as soon as he has signed the transport order or the delivery order at the premises of the company GEM Industry. The buyer must check the condition of the goods upon arrival and must, in the event of damage or shortages, make any necessary observations, place reservations on the transport document and confirm reservations with the carrier within 3 days of receipt of the goods by registered letter with acknowledgement of receipt.

13. Force majeure

GEM Industry cannot be held liable if the non-performance or delay in the performance of any of its obligations, as described herein, results from a case of force majeure, within the meaning of Article 1218 of the Civil Code, and those usually recognized by French jurisprudence.

14. Language of the contract

Between French contracting parties, the language of the contract which can only be referred to remains the French language. On the other hand, in the case of international sales, the language of the contract is the English language, no other language except French if the external party has indicated its preference for it in its exchanges with the Company GEM Industry, cannot be opposed to the latter.

15. Jurisdiction - Challenge

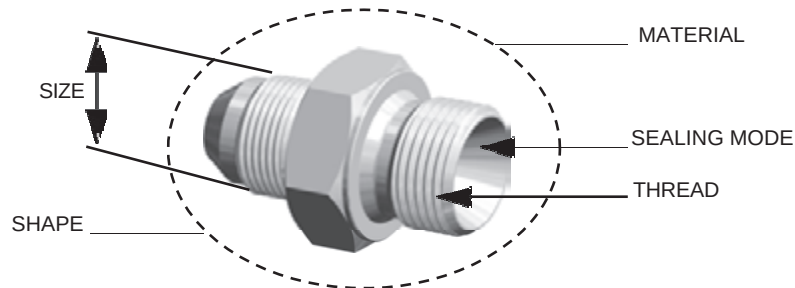
In the event of a dispute concerning the interpretation or execution of their agreements, the parties shall seek, before any legal action, an amicable agreement and shall communicate to each other all necessary information.

In the absence of an amicable settlement of the dispute within a maximum period of 1 month, only will be competent in the event of any dispute of any kind or dispute relating to the formation or execution of the order, THE COMMERCIAL COURT OF MARSEILLE unless GEM Industry prefers to bring the matter before any other competent court.

This clause shall apply even in the case of interim measures, incidental claims or multiple defendants or appeals under guarantee, and whatever the method and manner of payment, without the jurisdiction clauses that may exist on the buyer's documents being able to impede the application of this clause

1. DEFINITION OF A FITTING

The adapter is a junction component between a pipe or a hose and a hydraulic or pneumatic device. Five aspects are required to identify an adapter :



1.1 SHAPE

There are 5 general adapter shapes :



STRAIGHT (S)



45° - 135° ELBOW (E45)



90° ELBOW (E90)



TT (T)



CROSS (K)

They are complemented by features, the most common ones being :

(M x M)
Male x Male



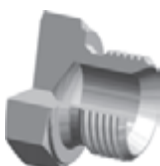
(F x M)
Female x Male



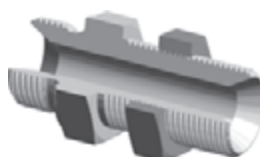
(FS x M)
Swivel Female x Male



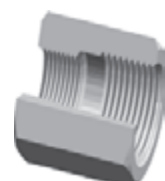
(PL)
Plug



(MBH)
Bulkhead Male



(F x F)
Female x Female (Coupling)



1.2 MATERIAL

The following elements must be taken into account to select the type of materials for adapters and their seals :

- the hydraulic device environment,
- the chemical corrosiveness and temperature of the fluid to be carried,
- the standards and the regulation.

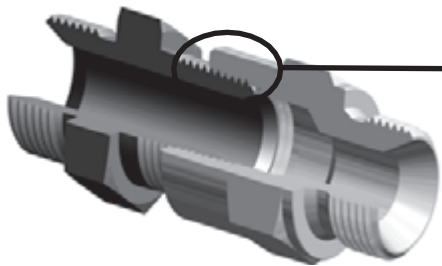
We propose adapters made of Steel + bichromated zinc, Stainless steel (on request) and Brass (on request).

1.3 SEALING MODE

There are four typical sealing modes :

a) Sealing in the threads

NPT FAMILY

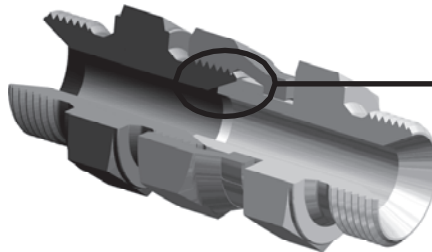


Addition of a sealing product

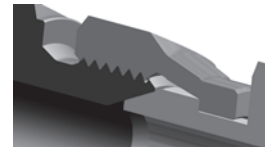


b) Sealing cone / cone

BSPFAMILY

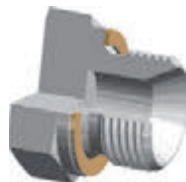


Sealing zone

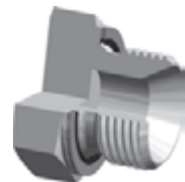


c) Sealing by interlaying a seal

(CR)
Copper ring

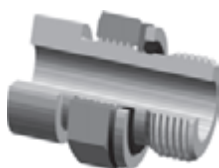


(BSR)
BS ring



(OR + RR)

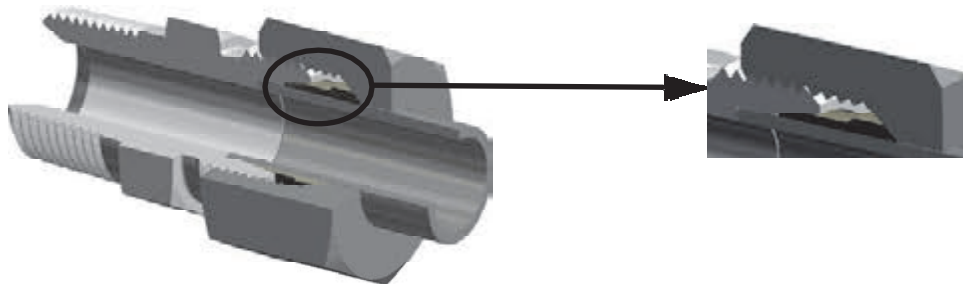
O ring + retaining ring



ORFS seal



d) Sealing with 24° ring



1.4 THREAD

There are four main thread families :

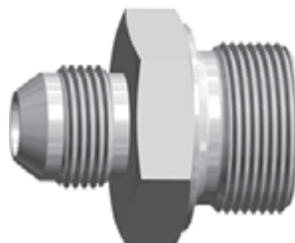
- BSP, GAS
- JIC, SAE (UN, UNF)
- NPT
- METRIC (ISO)

1.5 SIZE

The size may be indicated in inches or in millimetre depending on the thread.
For further information, refer to the technical pages giving details on standards.
However, it is advisable to pay attention to the fitting designation so as to avoid mistakes.

Example: S MJIC 3/4 x MBSPBS 3/4

The 3/4" notion on BSP and JIC does not mean that the threads have the same dimensions on both sides of the fitting.



2. TECHNICAL DEFINITIONS

2.1 WORKING PRESSURES(PN)



The indicated values correspond to maximum working pressures in bar (10 bar = 1 MPa) for a temperature ranging between -40° C and 100° C and for steel parts used with an oil-based hydraulic fluid.

In a normative way, the maximum working pressure corresponds to the bursting pressure divided by a safety factor of 4.

Unless otherwise specified in our catalogue, the maximum working pressure of an adapter corresponds to the lowest working pressure on either side in the considered operating conditions or in the most conservative case.

Example : "S MORFS 11/16 X MBSPBS 1/2"

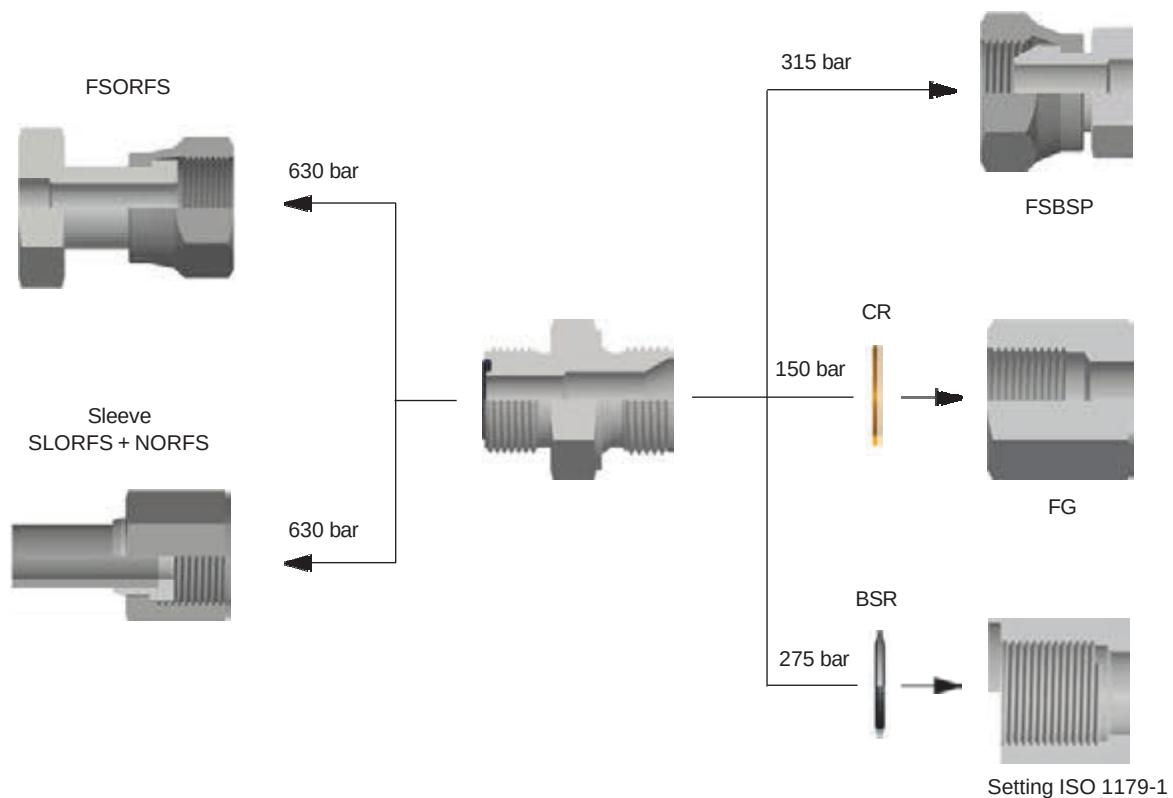
MORFS 11/16 side with FSORFS or nozzle (SL) and nut (N) ORFS: 630 bar

MBSPBS 1/2 side with FSBSP: 315 bar or

with FG and copper seal (CRG): 150 bar or

with FG and BS ring (BSR): 275 bar

In the most conservative case, the working pressure of the adapter is 150 bar. In the most favourable case, it is 315 bar.



2.2 TIGHTENING TORQUES



The indicated values correspond to maximum tightening torques in N.m for steel adapters.

2.3 MATERIALS

- STEEL

The most commonly used grades or their equivalents according to the production site are :

PRODUCT	EUROPE	ASIA	USA	ANTI-CORROSION TREATMENT
Adapters	11SMnPb37 (1.0737) NF EN 10277-3			Zn8C (CR3) NF ISO 150 2081 8µm thick bichromated zinc plating with trivalent chromium (1)
	11SMnPb30 (1.0718) NF EN 10277-3			
	C22 (1.0402) NF EN 10083-2	20 GB 699-88	1020 AISI	
	C35 (1.0501) NF EN 10083-2	35 GB 699-88	1035 AISI	
	C45 (1.0503) NF EN 10083-2	45 GB 699-88	1045 AISI	
Welding adapters	C22 (1.0402) NF EN 10083-2	20 GB 699-88	1020 AISI	Oil or black
	S235JR (1.0037) NF EN 10025			

Stainless steel and brass adapters on request.

(1) : Our manufacturing batches before 2008 may be bichromated with hexavalent chromium (Chromium VI).

- BS SEALS AND RINGS

COMPONENT		TEMPERATURE RANGE	APPLICATIONS
NBR (Nitrile)	Acrylonitrile Butadiene	-25°C to 100°C	Hydraulic oils, greases, hydrocarbons, water, air, etc.
VITON (®)	Elastomer Fluorocarbon	-20°C to 200°C	Hydraulic oils, chemicals, solvents, hydrocarbons, water, air, etc.

PTFE (TEFLON®) on request.

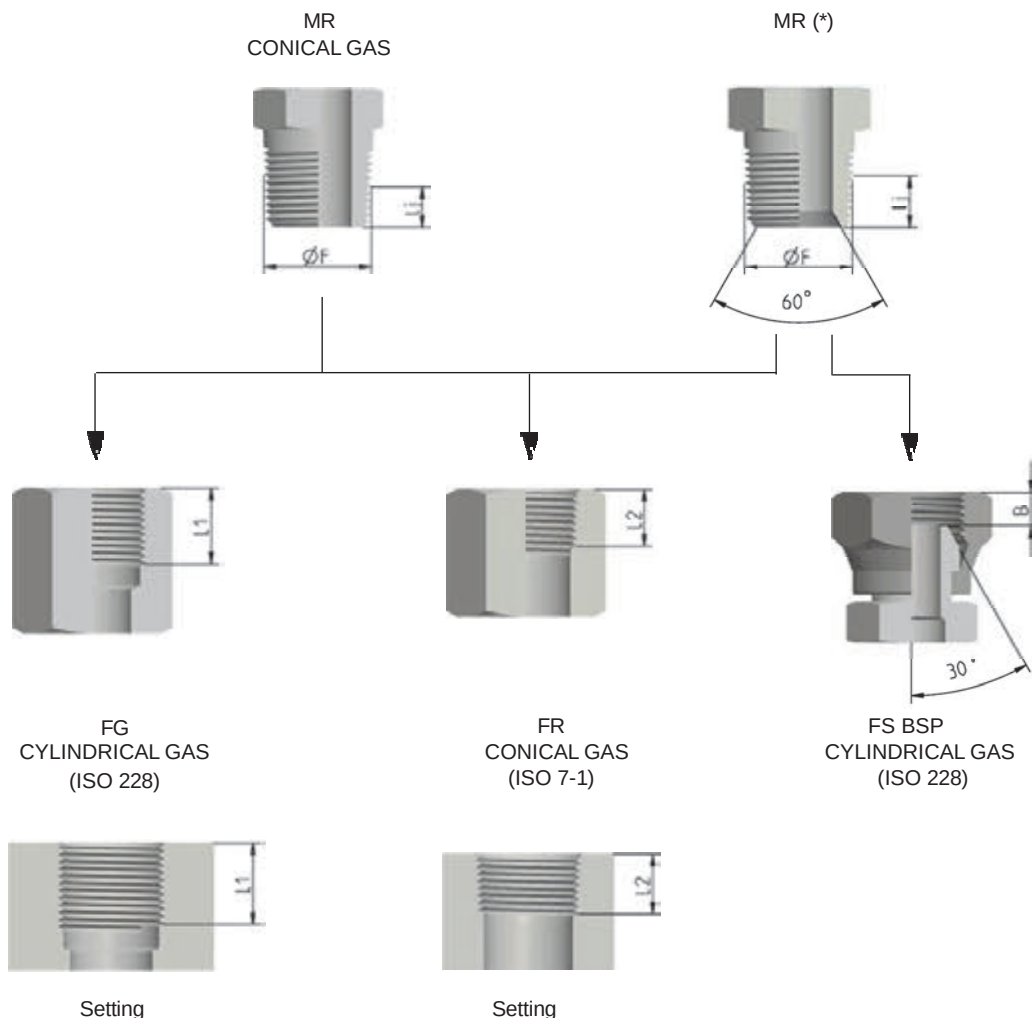


"English-type" thread : CONICAL GAS R (BSPT)



ISO 7-1
Standard
R

Lorem ipsum



(*) Conical gas males (MR) may include one cone. Please contact us.

ModulModule	Thread	Threads/in.	Pitch (mm)	(bar)		(N.m)		ØF (mm)	lj +/-1 (mm)	B (mm)	L1 mini. (mm)	L2 mini. (mm)
				R	BSP	R (round)	BSP					
2	R1/8	28	0,91	345	350	1/2	10	9,7	4	4,3	9	7,4
4	R1/4	19	1,34	345	350	1/2	20	13,1	6	5,2	12,5	11
6	R3/8	19	1,34	345	350	1/2	35	16,6	6,4	6	12,5	11,4
8	R1/2	14	1,81	345	315	1/2	60	20,9	8,2	6,5	15	15
10	R5/8	14	1,81	315	315	1/2	70	22,9	8,2	9,7	16	16
12	R3/4	14	1,81	275	250	1/3	115	26,4	9,5	8,7	17	16,3
16	R1"	11	2,31	205	200	1/3	140	33,2	10,4	10,5	22	19,1
20	R1"1/4	11	2,31	170	160	1/3	210	41,9	12,7	10,1	22	21,4
24	R1"1/2	11	2,31	105	125	1/3	290	47,8	12,7	12,5	25	21,4
32	R2"	11	2,31	105	80	1/3	400	59,6	15,9	16,1	26	25,7

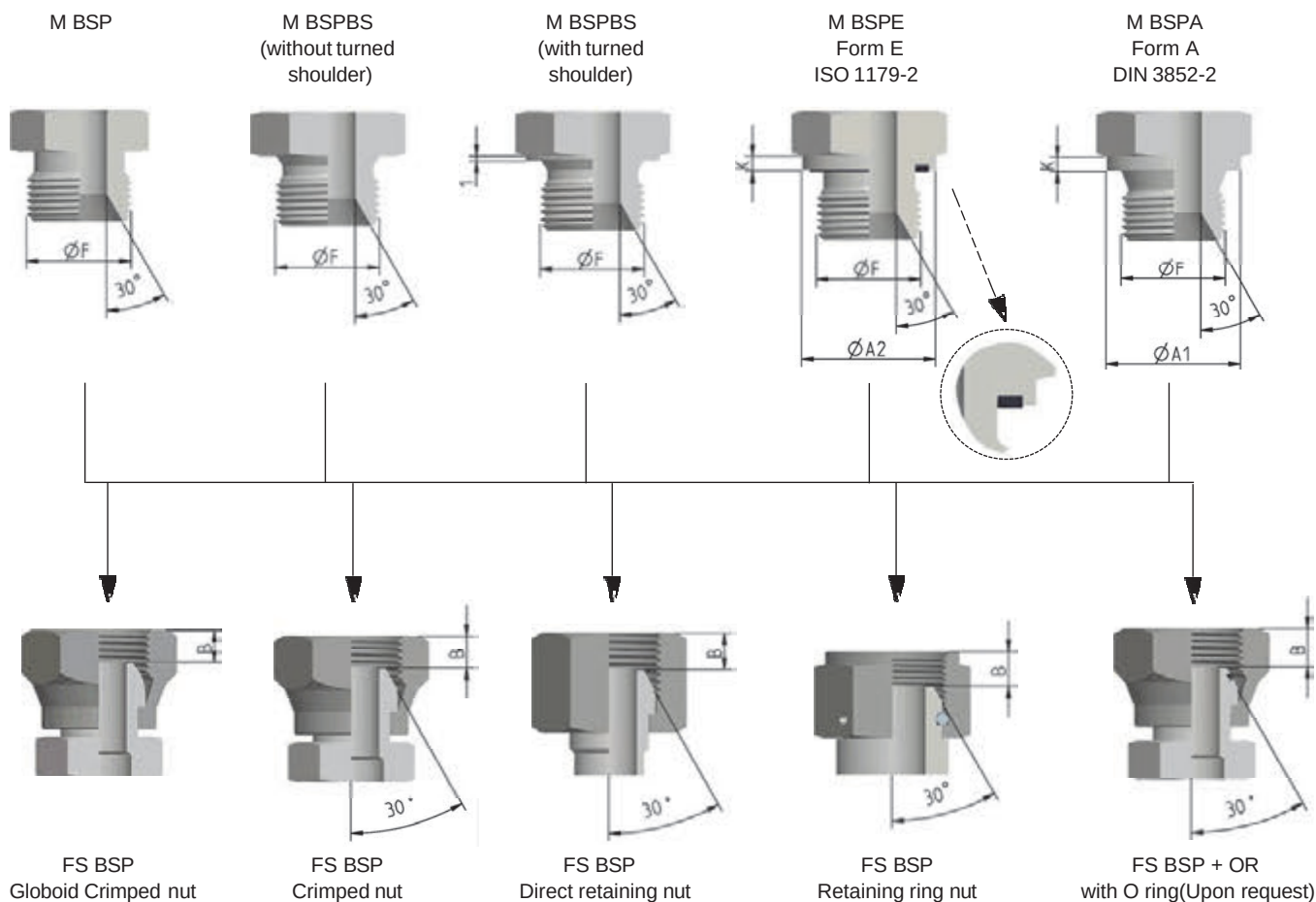


"English-type" thread : CYLINDRICAL GAS G (BSPP)

BSP : British Standard Pipe
(according to ISO 8434-6)



ISO 228
Standard
Class A
G



Our M BSPBS can be with or without turned shoulder.

Module	ThreadS	Threads/in.	Pitch (mm)	(bar)		(N.m)		ØF (mm)	ØA1 (mm)	ØA2 (mm)	K mini. (mm)	B (mm)
				FSBSP	FSBSP + OR	FSBSP	FSBSP + OR					
2	G1/8	28	0,91	350		10		9,7	14	14	1,5	4,3
4	G1/4	19	1,34	350	400	20	20	13,1	18	19	2	5,2
6	G3/8	19	1,34	350	400	35	35	16,6	22	22	2,5	6
8	G1/2	14	1,81	315	350	60	50	20,9	26	27	3	6,5
10	G5/8	14	1,81	315	350	70	60	22,9	30	30	3	9,7
12	G3/4	14	1,81	250	315	115	85	26,4	32	32	3	8,7
16	G1"	11	2,31	200	250	140	115	33,2	39	40	3	10,5
20	G1"1/4	11	2,31	160	200	210	190	41,9	49	50	3	10,1
24	G1"1/2	11	2,31	125	160	290	240	47,8	55	55	3	12,5
32	G2"	11	2,31	80	125	400	300	59,6	68	68	3	16,1



"English-type" thread : CYLINDRICAL GAS G (BSPP)

BSP : British Standard Pipe
(according to ISO 8434-6)



ISO 228
Standard
Class A
G

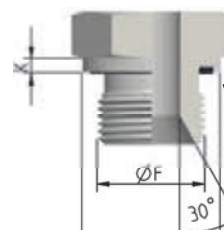
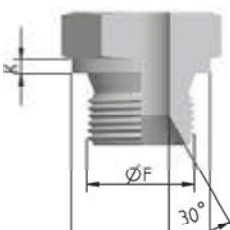
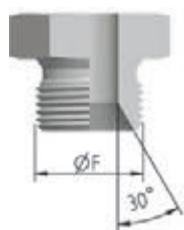
M BSPBS
(without turned
shoulder)

M BSPBS
(with turned
shoulder)

M BSPA
Form A
DIN 3852-2

M GBS

M BSPE
Form E
ISO 1179-2

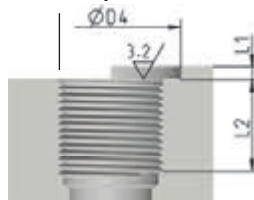


Copper ring (CR)

BS ring (BSR)



FG



Setting
ISO 1179-1

Our MBSPBS can be with or without turned shoulder.

Module	Thread	Threads/in.	(bar)				(N.m)		ØF (mm)	ØA1 (mm)	ØA2 (mm)	K mini. (mm)	ØD4 N mini. (mm)	ØD4 W mini. (mm)	L1 max. (mm)	L2 mini. (mm)
			MBSPBS, A +CR	MBSPBS, A +BSR	MBSPE serie L	MBSPE serie S	BS, A serie L	serie S								
2	G1/8	28	220	350	250		10		9,7	14	14	1,5	15	17,2	1	8,5
4	G1/4	19	180	350	250	630	25	40	13,1	18	19	2	20	20,7	1,5	12,5
6	G3/8	19	150	300	250	630	50	60	16,6	22	22	2,5	23	24,5	2	12,5
8	G1/2	14	150	275	250	400	80	100	20,9	26	27	3	28	29,6	2,5	15
10	G5/8	14		275			100		22,9	30	30	3				
12	G3/4	14	120	250	160	400	130	130	26,4	32	32	3	33	36,9	2,5	16,5
16	G1"	11	120	200	100	400	160	160	33,2	39	40	3	41	46,1	2,5	19
20	G1"1/4	11	110	160	100	250	200	200	41,9	49	50	3	51	54	2,5	21,5
24	G1"1/2	11	100	160	100	250	270	270	47,8	55	55	3	56	60,5	2,5	22,5
32	G2"	11	90	160			350	350	59,6	68	68	3	69	73,5	3	26

NB : Setting ØD4 N with MBSPA+CR and MBSPE, ØD4 W with MBSPBS+BSR.

The working pressures with copper ring (+CR) or bonded seal (+BSR) depend on the quality of the components used.



"English-type" thread : CYLINDRICAL GAS G (BSPP)



ISO 228
Standard
Class A
G

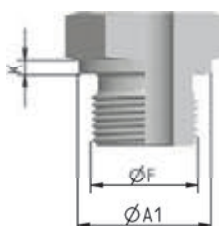
M G+OR+RR
ISO 1179-3



ADJ G+OR+RR
ISO 1179-3



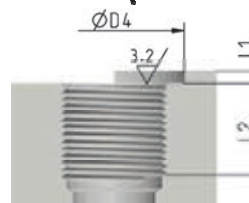
M GB
Form B
ISO 1179-4



M GE
Form E
ISO 1179-2



FG



Setting
ISO 1179-1

Modul Module	Thread	Threads/in.	(bar)								(N.m)		ØF	ØA1	ØA2	K	ØD4 N	ØD4 W	L1	L2
			MG +OR +RR	ADJG +OR +RR	GB serie L	GB serie	GE serie L	GE serie S	serie L	serie S			(mm)	(mm)	(mm)	mini. (mm)	mini. (mm)	mini. (mm)	max. (mm)	mini. (mm)
2	G1/8	28	315	200	250		250		10				9,7	14	14	1,5	15	17,2	1	8,5
4	G1/4	19	315	200	250	400	250	630	25	40			13,1	18	19	2	20	20,7	1,5	12,5
6	G3/8	19	315	200	250	400	250	630	50	60			16,6	22	22	2,5	23	24,5	2	12,5
8	G1/2	14	250	200	250	400	250	400	80	100			20,9	26	27	3	28	29,6	2,5	15
10	G5/8	14	250	200					100				22,9	30	30	3				16
12	G3/4	14	250	200	160	400	160	400	130	130			26,4	32	32	3	33	36,9	2,5	16,5
16	G1"	11	250	200	100	250	100	400	160	160			33,2	39	40	3	41	46,1	2,5	19
20	G1"1/4	11	160	160	100	160	100	250	200	200			41,9	49	50	3	51	54	2,5	21,5
24	G1"1/2	11	160	160	100	160	100	250	270	270			47,8	55	55	3	56	60,5	2,5	22,5
32	G2"	11	160	100					350	350			59,6	68	68	3	69	73,5	3	26

NB : Setting ØD4 N with MGB and MGE, ØD4 W with MG+OR+RR and ADJG+OR+RR.



"English-type" thread : GAZ CYLINDRIQUE G (BSPP)
JIS : Japan Industrial Standard (according to JIS B8363)



ISO 228
Standard
(JIS B0202)
Class A
G

M JIS

FS JIS



Module	Thread	Threads/in.	Pitch (mm)	 (bar)	 (N.m)	ØF (mm)	V (mm)
4	G1/4	19	1,34	345	25	13,1	9
6	G3/8	19	1,34	345	34	16,6	10
8	G1/2	14	1,81	275	64	20,9	12
12	G3/4	14	1,81	275	132	26,4	13
16	G1"	11	2,31	205	196	33,2	15
20	G1"1/4	11	2,31	170	225	41,9	15,5
24	G1"1/2	11	2,31	105	255	47,8	16,5
32	G2"	11	2,31	105	316	59,6	18

Barbed tail-pieces for hoses

HOSN
Form X
(SAE J962)



HOSN
Form W



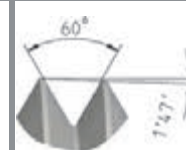
Form Z : different other profiles of barbed tail-pieces.

"American-type" thread NPT and NPSM

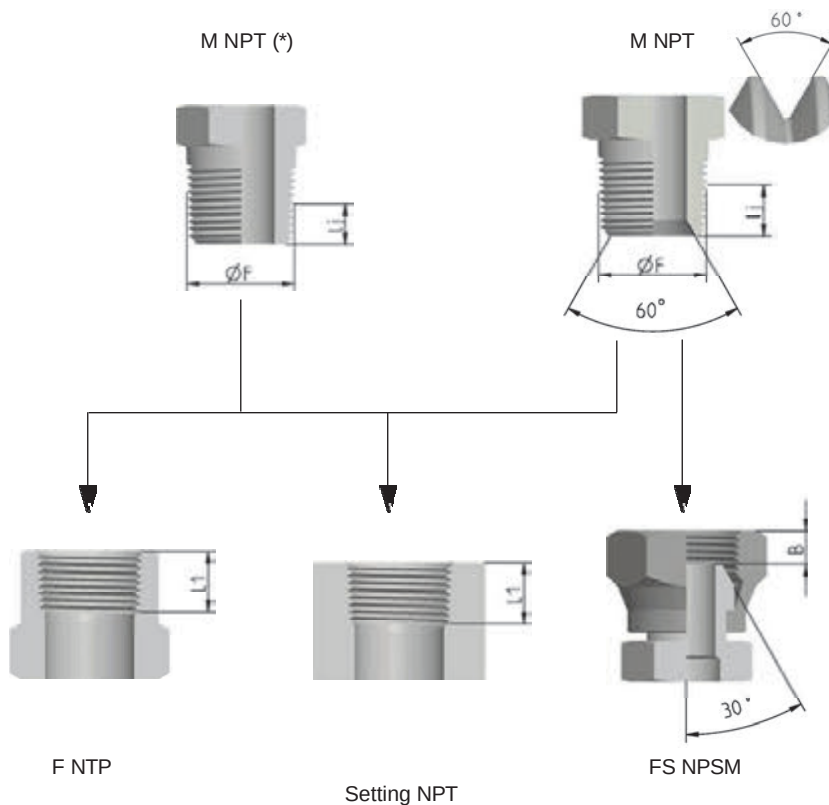


NPT : National Standard Taper Pipe Thread (replaces Briggs)

NPSM : National Pipe Straight Mechanical Joints (according to SAE J514)



Conical NPT
ANSI/ASME
Standard
B1.20.1



(*) Our NPT males (M NPT) may not have 60° cone. Please contact us.

NPTF (on request) : Special male and female sections for threads so as to ensure sealing without interlaying filling material (NF M82424 ANSI / ASME B2.2).

Module	Thread	Threads/in.	Pitch (mm)	(bar)		(N.m)		ØF (mm)	lj +/-1 (mm)	B (mm)	L1 mini. (mm)
				NPT	NPSM	R (round)	NPSM				
2	1/8	27	0,94	345	345	1/2	10	10,2	4,1	3,5	6,9
4	1/4	18	1,41	275	345	1/2	20	13,5	5,8	4,9	10
6	3/8	18	1,41	210	275	1/2	35	17	6,1	5,9	10,3
8	1/2	14	1,81	210	240	1/2	60	21,1	8,1	7,5	13,6
12	3/4	14	1,81	170	155	1/3	115	26,5	8,6	9	14,1
16	1"	11,5	2,21	140	135	1/3	140	33,2	10,2	10,5	16,8
20	1"1/4	11,5	2,21	80	110	1/3	210	42	10,7	11,2	17,3
24	1"1/2	11,5	2,21	70	85	1/3	290	48	10,7	11,5	17,3
32	2"	11,5	2,21	70	75	1/3	400	60,1	11,1	11,5	17,7



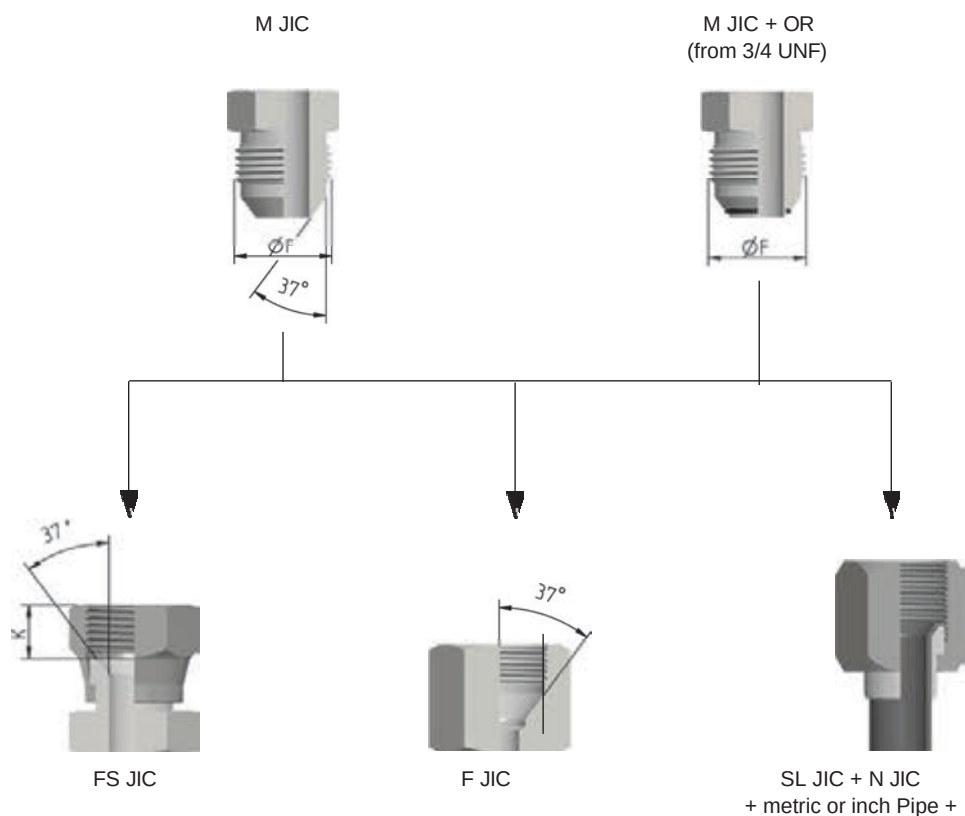
"American-type" thread UN UNF

JIC : Joint Industrial Concil

(according to SAE J514 and ISO 8434-2)



StandardNor-
mASME B1.1
Standard
UNF - UN
Class 2A-2B



M JIC + OR : Cone / Cone sealing + by means of nitrile seal (NBR) for increased reliability and performance.

Module	Thread	Thread/in.	Pitch (mm)	TubePitch (mm)	Tube (inch)	(bar)			(N.m)	ØF (mm)	K (mm)
						FSJIC	FJIC	MJIC+OR			
2	5/16	24	1,06		1/8	345	345		9	7,8	7,9
3	3/8	24	1,06		3/16	345	345		12	9,4	8,3
4	7/16	20	1,27	6	1/4	310	345		16	11	8,7
5	1/2	20	1,27	8	5/16	275	345		21	12,6	9,5
6	9/16	18	1,41	10	3/8	275	345		28	14,1	9,5
8	3/4	16	1,59	12	1/2	275	310	345	53	18,9	10,7
10	7/8	14	1,81	14, 15, 16	5/8	210	240	345	85	22	12,7
12	1"1/16	12	2,12	18, 20	3/4	210	240	310	119	26,8	14,3
14	1"3/16	12	2,12	22	7/8	170	210	275	140	30	14,7
16	1"5/16	12	2,12	25	1"	170	210	275	154	33,1	15,1
20	1"5/8	12	2,12	30, 32	1"1/4	140	170	210	181	41	15,9
24	1"7/8	12	2,12	38	1"1/2	105	140	170	226	47,4	18,6
32	2"1/2	12	2,12	50	2"	80	105	105	350	63,3	23,8

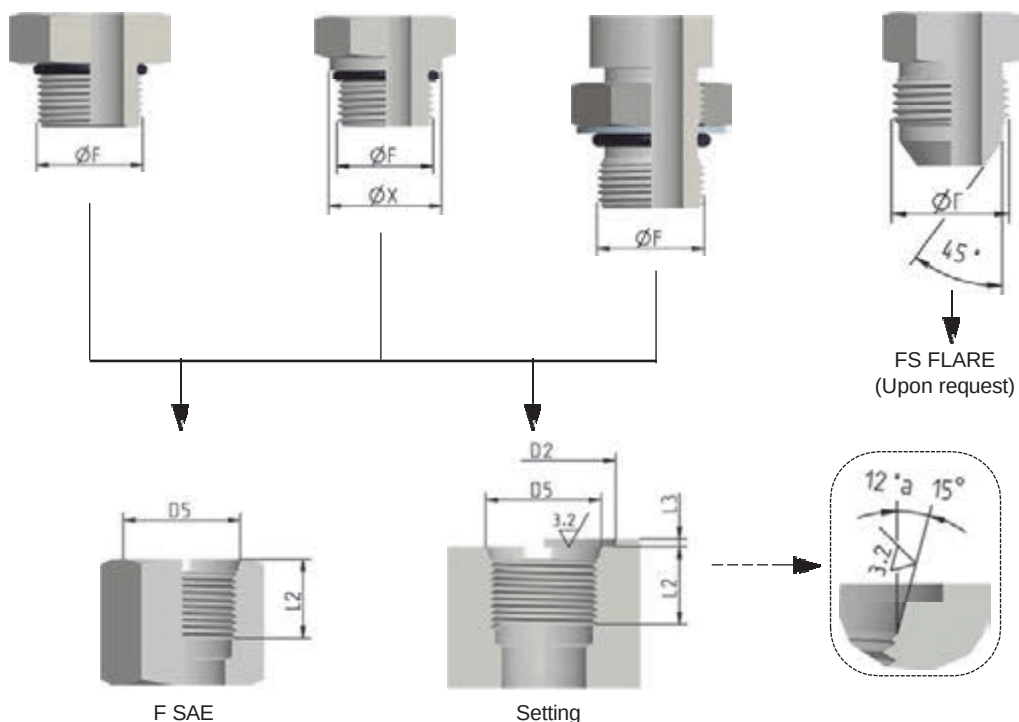
"American-type" thread UN UNF  SAE : Society Automotive Engineers (according to SAE J514 and ISO 11926)	 ASME B1.1 Standard UNF - UN Class 2A-2B

M SAE + OR
(without turned shoulder)

M SAE + OR
(with turned shoulder)

ADJ SAE + OR

M SAE + 90CO
(Flare according to SAE J513)



Module	Thread	Threads/in.	Pitch (mm)	(bar)				(N.m)		ØF (mm)	ØD2 mini. (mm)	ØD5 (mm)	L2 mini. (mm)	L3 maxi. (mm)	X (mm)
				SAE serie L	SAE serie S	ADJ SAE serie L	ADJ SAE serie S	SAE serie L	SAE serie S						
2	5/16	24	1,06	345		345		9		7,8	17	9,2	12	1,6	12,7
3	3/8	24	1,06	315	630	315	400	12	13	9,4	19	10,8	12	1,6	14,2
4	7/16	20	1,27	315	630	315	400	20	22	11	21	12,5	14	1,6	16
5	1/2	20	1,27	315	630	315	400	26	27	12,6	23	14,1	14	1,6	17,5
6	9/16	18	1,41	315	630	250	400	33	35	14,1	25	15,7	15,5	1,6	19
8	3/4	16	1,59	315	630	250	400	53	78	18,9	30	20,7	17,5	2,4	23,9
10	7/8	14	1,81	250	630	200	400	64	110	22	34	24	20	2,4	26,9
12	1"1/16	12	2,12	250	400	200	400	102	183	26,8	41	29,2	23	2,4	33,3
14	1"3/16	12	2,12	200	400	160	400	134	260	30	45	32,4	23	2,4	36,6
16	1"5/16	12	2,12	200	400	160	315	166	300	33,1	49	35,6	23	3,2	39,6
20	1"5/8	12	2,12	160	250	125	250	218	380	41	58	43,6	23	3,2	47,7
24	1"7/8	12	2,12	160	250	125	200	231	490	47,4	65	49,9	23	3,2	54,1
32	2"1/2	12	2,12	125		100		325		63,3	88	65,8	23	3,2	



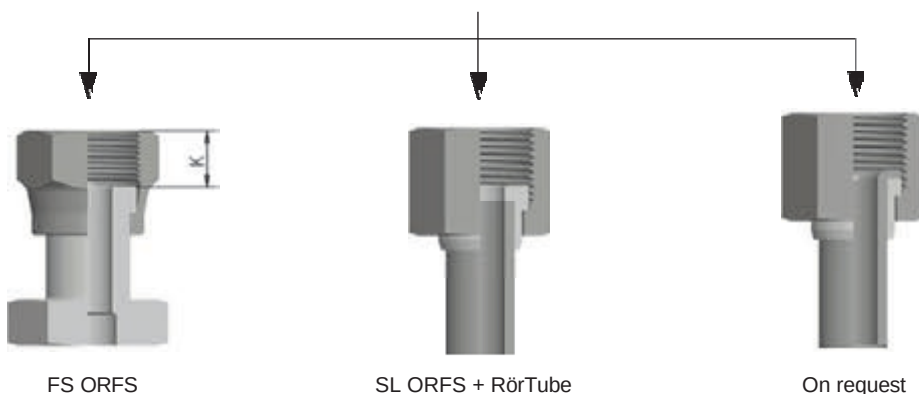
"American-type" thread UN UNF Class 2A 2B

ORFS : O Ring Face Seal
(according to SAE J1453 and ISO 8434-3 norm)



ASME B1.1
Standard
UNF-UN-UNS

M ORFS



Advantages of ORFS Fitting :

- High working pressure.
- No leak (including with gases).
- High tightening strength.
- Possible installation on metric or inch pipe.
- Easy installation without specific tooling.
- Possible repeated removals and installations, by only replacing the seal, as required.
- No back travel of the pipe when removing the components.
- Vibration resistant

ORFS 5/8 & 1"5/16 according to ISO8434-3 on request.

Module	Thread	Threads/in.	Pitch (mm)	RörTube (mm)	RörTube (inch)	(bar)	(N.m)	ØF (mm)	K (mm)
						ORFS	ORFS		
4	9/16	18	1,41	6	1/4	630	25	14,1	8,5
5	5/8	18	1,41	8		630	30	15,7	8,5
6	11/16	16	1,59	8,10	3/8	630	40	17,3	10
8	13/16	16	1,59	12	1/2	630	55	20,5	11
10	1"	14	1,81	14,15,16	5/8	400	60	25,2	13,5
12	1"3/16	12	2,12	18,20	3/4	400	90	30	14,5
14	1"5/16	12	2,12	22		400	115	33,1	14,5
16	1"7/16	12	2,12	22,25	1"	400	125	36,3	15
20	1"11/16	12	2,12	28,30,32	1"1/4	250	170	42,7	15
24	2"	12	2,12	35,38	1"1/2	250	200	50,6	15

ISO section "metric" thread

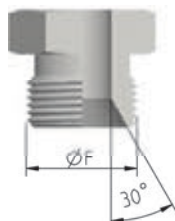


DIN : Deutsches Institut für Normung
(according to DIN 3852-1 and DIN 7631 norm)

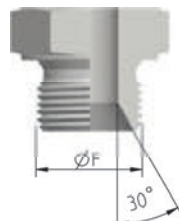


NF E 03001
ISO 68 - ISO 261
Standard
Class 6H-6g
M

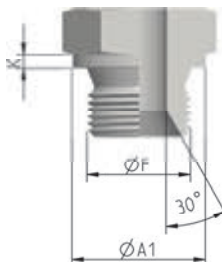
M DIN



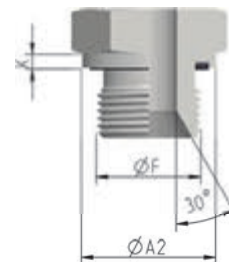
M DINBS



M DINBS
Form A
DIN 3852-1



M DINE
Form E
DIN 3852-11



FS DIN

Thread	Pitch (mm)	 (bar)	 (N.m)	ØF (mm)	ØA1 (mm)	ØA2 (mm)	K mini. (mm)	B (mm)
M10	1	400	10	9,8	14	14	1,5	
M12	1,5	400	20	11,8	17	17	2	4
M14	1,5	400	35	13,8	19	19	2	4,5
M16	1,5	350	40	15,8	21	22	2	3,5
M18	1,5	350	45	17,8	23	24	2,5	3,5
M20	1,5	300	55	19,8	25	26	2,5	
M22	1,5	300	70	21,8	27	27	3	5,5
M24	1,5	200	70	23,8	29		3	
M26	1,5	175	90	25,8	31	32	3	5,5
M30	1,5	175	120	29,8	36		3	5,5
M38	1,5	150	150	37,8	44		3	7
M45	1,5	100	180	44,8	52		3	12,8
M52	1,5	75	200	51,8	60		3	12,8
M65	2	75	300	64,8	75		3	12

ISO section "metric" thread



DIN : Deutsches Institut für Normung
(according to DIN 3852-1 and DIN 7631)

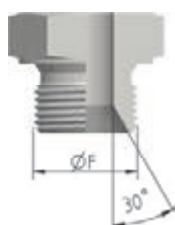


NF E 03001
ISO 68 - ISO 261
Standard
Class 6H-6g
M

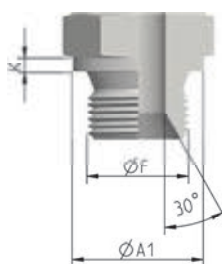
M ISOBS



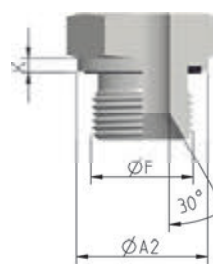
M DINBS



M DINBS
Form A
DIN 3852-1



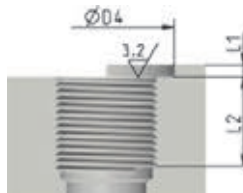
M DINE
Form E
DIN 3852-11



BSR
CR



F ISO



Setting DIN 3852-1

Thread	Pitch (mm)	(bar)				(N.m)		ØF (mm)	ØA1 (mm)	ØA2 (mm)	K mini. (mm)	ØD4 N mini. (mm)	ØD4 W mini. (mm)	L1 max. (mm)	L2 mini. (mm)
		MDINBS +CR	MDINBS +BSR (FR)	MDINE serie L	MDINE Serie S	BS Serie L	BS Serie S								
M10	1	250	400	250		10	15	9,8	14	14	1,5	15	20	1	8
M12	1,5	200	350	250	630	20	25	11,8	17	17	2	18	25	1,5	12
M14	1,5	180	300	250	630	30	35	13,8	19	19	2	20	25	1,5	12
M16	1,5	160	300	250	630	35	40	15,8	21	22	2	23	28	1,5	12
M18	1,5	150	300	250	630	40	55	17,8	23	24	2,5	25	30	2	12
M20	1,5	140	300		630	45	65	19,8	25	26	2,5	27	34	2	14
M22	1,5	160	300	160	400	50	75	21,8	27	27	3	28	34	2,5	14
M24	1,5		250			60		23,8	29		3	30	38	2,5	14
M26	1,5		200	160		70		25,8	31	32	3	33	42	2,5	16
M27	2	130	200		400	75	120	26,8	32	32	3	33	42	2,5	16
M30	1,5	130	200			100		29,8	36		3	37	44	2,5	16
M33	2	120	200	100	400	120	160	32,8	39	40	3	41	47	2,5	18
M38	1,5	120	175			130		37,8	44		3	45	52	2,5	18
M42	2	120	175	100	250	150	200	41,8	49	50	3	51	58	2,5	20
M45	1,5	110	175			170		44,8	52		3	53	59	2,5	20
M48	2	100	175	100	250	200	270	47,8	55	55	3	56	65	2,5	22
M52	1,5	100	175			200		51,8	60		3	61	65	2,5	22
M65	2	90	150			250		64,8	75		3	75	80	2,5	22

NB : Setting ØD4 N with MDINE and MDINBS (form A) +CR , ØD4 W with MDINBS +CR and MDINBS +BSR. The working pressures with copper ring (+CR) or bonded seal (+BSR) depend on the series (FR or D) and the quality of the components used.

ISO section "metric" thread



ISO : International Organisation for Standardisation
(according to ISO 6149)



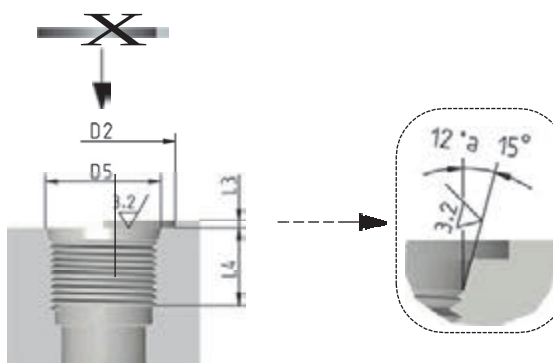
NF E 03001
ISO 68 - ISO 261
Standard
Class 6H-6g
M

M ISO+OR+RR

ADJ ISO +OR+RR



Remove anti-extrusion ring (RR)



Setting

ISO 6149-1

Sealing with an O-Ring in the truncated cone housing.

Thread	Pitch Steek (mm)	(bar)				(N.m)		ØF (mm)	ØD2 wide mini. (mm)	ØD2 narrow mini. (mm)	ØD5 (mm)	L3 max(m m)	L4 mini. (mm)
		MISO serie L	MISO serie S	ADJISO serie L	ADJISO Serie S	Serie L	Serie S						
M10	1	400	630	315	400	10	15	9,8	20	16	11,1	1	10
M12	1,5	400	630	315	400	20	25	11,8	23	19	13,8	1,5	11,5
M14	1,5	400	630	315	400	30	35	13,8	25	21	15,8	1,5	11,5
M16	1,5	315	630	250	400	35	40	15,8	28	24	17,8	1,5	13
M18	1,5	315	630	250	400	40	55	17,8	30	26	19,8	2	14,5
M20	1,5		400			45	65	19,8	33	29	21,8	2	14,5
M22	1,5	315	630	250	400	50	75	21,8	33	29	23,8	2	15,5
M27	2	200	400	160	400	75	120	26,8	40	34	29,4	2	19
M30	2	200	400	160	350	100	135	29,8	44	38	32,4	2	19
M33	2	200	400	160	350	120	160	32,8	49	43	35,4	2,5	19
M42	2	200	250	160	250	150	200	41,8	58	52	44,4	2,5	19,5
M48	2	200	250	160	200	200	270	47,8	63	57	50,4	2,5	22
M60	2	160	250	100	160	250	330	64,8	74	67	62,4	2,5	24,5

ØD2 narrow or wide with or without indication of the identification mark.

ISO section "metric" thread



ISO : International Organisation for Standardisation
(i according to ISO 6149 - ISO 9974 - DIN 3852)



NF E 03001
ISO 68 - ISO 261
Standard
Class 6H-6g
M

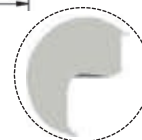
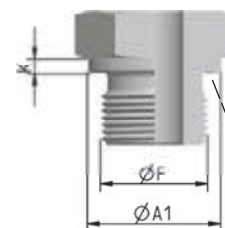
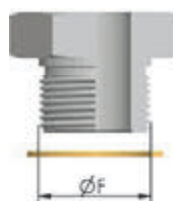
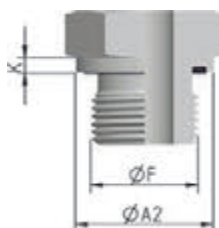
M ISO+OR+RR

ADJ ISO+OR+RR

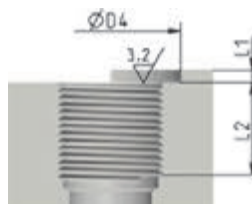
M ISOE
Form E
DIN 3852-11

M ISOC
(for copper ring)

M ISOB
Form B
DIN 3852-1



F ISO



Setting DIN 3852-1

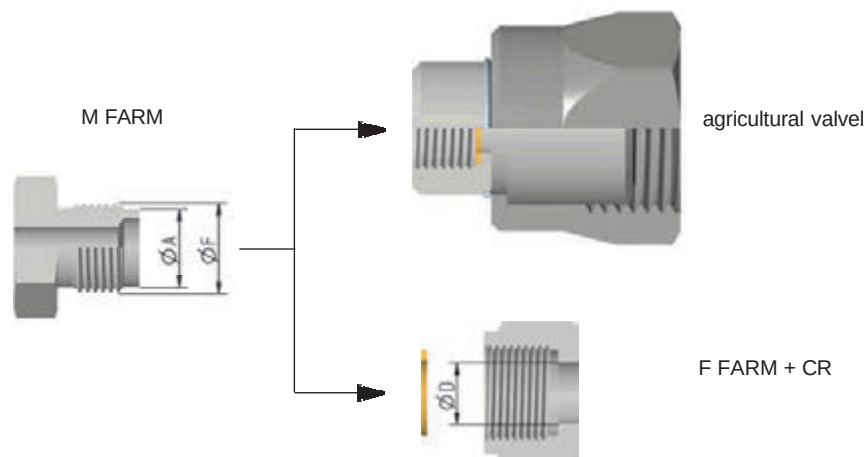
Thread	Pitch (mm)	(bar)						(N.m)		ØF (mm)	ØA1 (mm)	ØA2 (mm)	K mini. (mm)	ØD4 narrow mini. (mm)	ØD4 wide mini. (mm)	L1 max. (mm)	L2 mini. (mm)
		MISO +OR +RR	ADJISO +OR +RR	MISOB serie L	MISOB serieseri eserie S	MISOE serieseri ieserie L	MISOE serieseri eserie S	RR serieseri eserie L	serieseri ie serie S								
M10	1	250	250	250	400	250		10	15	9,8	14	14	1,5	15	20	1	8
M12	1,5	220	220	250	400	250	630	20	25	11,8	17	17	2	18	25	1,5	12
M14	1,5	200	200	250	400	250	630	30	35	13,8	19	19	2	20	25	1,5	12
M16	1,5	200	200	250	400	250	630	35	40	15,8	21	22	2	23	28	1,5	12
M18	1,5	200	200	250	400	250	630	40	55	17,8	23	24	2,5	25	30	2	12
M20	1,5	150	150				630	45	65	19,8	25	26	2,5	27	34	2	14
M22	1,5	140	140	160	400	160	400	50	75	21,8	27	27	3	28	34	2,5	14
M27	2	120	120	160	400	160	400	75	120	26,8	32	32	3	33	42	2,5	16
M30	2	120	120	160				100	135	29,8	36		3	37	44	2,5	16
M33	2	100	100	100	250	100	400	120	160	32,8	39	40	3	41	47	2,5	18
M42	2	100	100	100	160	100	250	150	200	41,8	49	50	3	51	58	2,5	20
M48	2	100	100	100	160	100	250	200	270	47,8	55	55	3	56	65	2,5	22
M60	2	65	65					250		64,8	75		3	75	80	2,5	22



ISO section "metric" thread
FARM : for agricultural valve



NF E 03001
ISO 68 - ISO 261
Standard
Class 6H-6g
M



F FARM can be used as an F ISO.

Thread	Pitch (mm)	(bar)	(N.m)	ØF (mm)	ØA (mm)	ØD maxi. (mm)
M18	1,5	200	40	17,8	15,5	12
M24	1,5	150	60	23,8	21,5	16

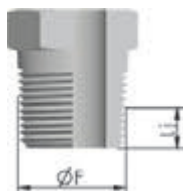
Indicative pressures with copper ring (CR).



ISO section "metric" thread
KEG : Conical metric (DIN 3852-1)



DIN 158-1
KEG



M KEG

Thread	Pitch (mm)	(bar)	(N.m)	ØF (mm)	lj +/-1 (mm)
M16	1,5	300	35	16	3,5
M22	1,5	200	50	22	3,5

Other dimensions on request.

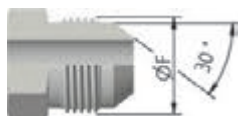


ISO section "metric" thread
KOM Japanese

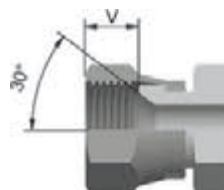


NF E 03001
ISO 68 - ISO261
Standard
Class 6H-6g
M

M KOM



FS KOM



Thread	Pitch (mm)	 (bar)	 (N.m)	ØF (mm)	V (mm)
M14	1,5	345	35	13,8	10,5
M16	1,5	345	40	15,8	10
M18	1,5	345	45	17,8	11,5
M22	1,5	345	70	21,8	14
M24	1,5	275	70	23,8	15
M30	1,5	205	120	29,8	18,3
M33	1,5	205	130	32,8	21,3

ISO section "metric" thread

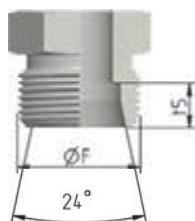


24D : 24° lightweight and heavyweight series adapters
(according to ISO 8434-1 and ex-DIN 2353)



NF E 03001
ISO 68 - ISO 261
Standard
Class 6H-6g
M

M 24D



EL 24D
or Pipe +RG24 + N24D



FS 24D + OR
retaining ring nut



FS 24D + OR
direct retaining nut



FS DIN or FS 24D

Serie	Tube (mm)	Pipe wall (mm)	Tube + Serie	Thread	Pitch (mm)	(bar)	(N.m)	ØF (mm)	t5 (mm)
L	6	1,5	6L	M12	1,5	250	25	11,8	7
	8	1,5	8L	M14	1,5	250	40	13,8	7
	10	1,5	10L	M16	1,5	250	50	15,8	7
	12	2	12L	M18	1,5	250	70	17,8	7
	15	2,5	15L	M22	1,5	250	90	21,8	7
	18	2,5	18L	M26	1,5	160	115	25,8	7,5
	22	2,5	22L	M30	2	160	210	29,8	7,5
	28	2,5	28L	M36	2	100	310	35,8	7,5
	35	3	35L	M45	2	100	500	44,8	10,5
	42	3	42L	M52	2	100	600	51,8	11
S	6	1,75	6S	M14	1,5	630	35	13,8	7
	8	2	8S	M16	1,5	630	55	15,8	7
	10	2,5	10S	M18	1,5	630	70	17,8	7,5
	12	3	12S	M20	1,5	630	85	19,8	7,5
	14	3	14S	M22	1,5	630	110	21,8	8
	16	3	16S	M24	1,5	400	120	23,8	8,5
	20	4	20S	M30	2	400	200	29,8	10,5
	25	4,5	25S	M36	2	400	340	35,8	12
	30	4	30S	M42	2	250	480	41,8	13,5
	38	5	38S	M52	2	250	850	51,8	16

The pipe wall corresponds to an operation at maximum working pressure.
Refer to the installation instructions for more details.



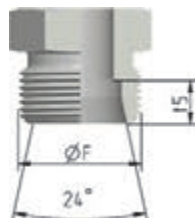
ISO section "metric" thread

24D : 24° Gas and French series adapters



NF E 03001
ISO 68 - ISO 261
Standard
Class 6H-6g
M

M 24D



EL 24D or Pipe + RG24 + N24D



FS DIN or FS 24D

Serie	RörTube	Tube (mm)	Tube +Serie	Thread	PitchSte ek (mm)	(bar)	(N.m)	ØF (mm)	t5 (mm)
G	1/4	13,25	13G	M20	1,5	400	65	19,8	9
	3/8	16,75	17G	M24	1,5	400	80	23,8	9
	1/2	21,25	21G	M30	1,5	250	120	29,8	9
	3/4	26,75	27G	M36	1,5	250	140	35,8	9
	1"	33,5	33G	M45	1,5	160	180	44,8	9
	1"1/4	42,25	42G	M52	1,5	100	200	51,8	9
	1"1/2	48,25	49G	M58	2	100	260	57,8	11
N		4	4N	M10	1	400	10	9,8	6,5
		6	6N	M12	1	400	15	11,8	9
		14	14N	M20	1,5	400	65	19,8	9
		18	18N	M27	1,5	250	100	26,8	9
		20	20N	M27	1,5	250	100	26,8	9
		22	22N	M30	1,5	250	120	29,8	9
		25	25N	M33	1,5	250	130	32,8	9
		28	28N	M36	1,5	160	140	35,8	9
		30	30N	M39	1,5	160	150	38,8	9
		32	32N	M42	1,5	160	160	41,8	9
		35	35N	M45	1,5	100	180	44,8	9
		38	38N	M48	1,5	100	190	47,8	9
		40	40N	M52	1,5	100	200	51,8	9
		45	45N	M54	2	100	240	53,8	9

N series on request. Cases incompatible with L, S or G series.
Refer to the installation instructions for more details.

3. INSTRUCTIONS FOR DIRECT INSTALLATION OF 24° FITTINGS

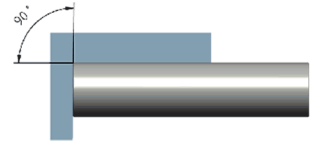
3.1 Pipe preparation

- Cut the pipe at a right angle.

A maximum difference of + or - 0.5° is accepted with respect to the pipe centreline.

Use a specific cutting tool and a saw to perform a right-angled cut.
Do not use a pipe cutter or a cut-off wheel. Do not distort the pipe ends.

For elbow pipes, the length of the straight part of the pipe must be at least equal to twice the nut height.
For straight pipes with 24° fittings at both ends, the length of the pipe must be at least equal to 2.5 times the nut height.



- Slightly deburr the inside and outside of the pipe.

0.2 mm maximum chamfer for 45° => Be careful not to contaminate the system!



3.2 Installation

- Lubricate the ring, the cone and the thread of the fitting.



- Introduce the ring and nut on the pipe.

=> Be careful with the ring installation direction.



- Push the pipe home in the fitting cone.

The hose should be deeply pushed in to ensure precise crimping.



- Tighten the nut by hand until contact is obtained.
- Draw a mark on the pipe and the nut.
- Tighten the nut by 1 to 1.5 turns.

An extended wrench can be used for the tightening.

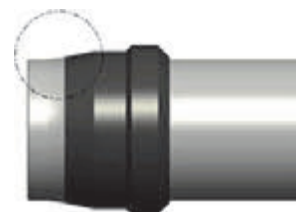


- Loosen the nut and check crimping evenness.

The bead must be regular on the entire circumference.
The ring rotates freely around the pipe.

Should the bead not be even, carry out the tightening operation again.

Caution: Matching between the fitting and the pipe end used during first installation must be complied with.

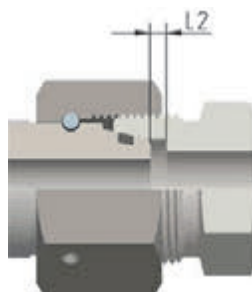
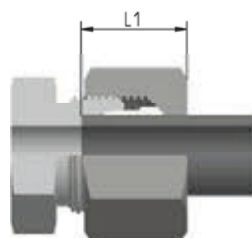


3.3 Final assembly

- Tighten the nut with the fitting again until a resistance peak is felt.
- Then, tighten by $\frac{1}{4}$ turn.



3.4 Dimensions of the assembled ends



Serie	Tube (mm)	Tube + serie	Thread	Pitch (mm)	L1 (mm)	L2 (mm)
L	6	6L	M12	1.5	15	1.6
	8	8L	M14	1.5	15	1.6
	10	10L	M16	1.5	15	1.1
	12	12L	M18	1.5	15	1.1
	15	15L	M22	1.5	15	1.1
	18	18L	M26	1.5	15	1.6
	22	22L	M30	2	16.5	1.6
	28	28L	M36	2	16.5	1.6
	35	35L	M45	2	21.5	3
	42	42L	M52	2	23	3.5
S	6	6S	M14	1.5	15	1.6
	8	8S	M16	1.5	15	1.1
	10	10S	M18	1.5	16.5	1.6
	12	12S	M20	1.5	16.5	1.6
	14	14S	M22	1.5	17.5	2.1
	16	16S	M24	1.5	18.5	2.6
	20	20S	M30	2	21.5	3
	25	25S	M36	2	24	4.7
	30	30S	M42	2	26.5	6
	38	38S	M52	2	31	8.5

L1 dimension after full tightening

4. "GEM INDUSTRY" COUPLINGS - HANSEN / GROMMELLE RANGE

This catalogue presents a vast selection of couplings mainly used in hydraulic systems.

However, it does not show the entire product range we offer. Should any of your requirements be left unmet with this catalogue or should any of your technical problems remain unsolved, feel free to contact us and we will provide you with further advice beyond this selection.

4.1 General features of the couplings

Our ball-locked, double shut-off couplings comply with standard ISO 7241-1 Iss. A and B. The same holds for proprietary profiles, such as the H5000 series. The couplings are available in various materials and are suitable for use in standard hydraulic systems, industrial and agricultural applications, etc...

The W6000 series thread-to-connect couplings are suitable for harsh operating conditions such as high pressure, heavy mechanical loads or frequent connection / disconnection cycles.



4.2 How to choose your couplings



Standard NBR seals can be used at temperatures between -20°C and +100°C. Other materials are possible for harsher conditions, aggressive fluids and high temperatures.

BUNA N	STANDARD	-40°C / +120°C
Teflon	PTFE	-50°C / +260°C
Neoprene	CR	-30°C / +100°C
Viton	FKM	-20°C / +200°C
BUNA M	-	
ETHYLENE-PROPYLENE	EPDM	-40°C / +150°C
Id.	EPDM	
KALRE2	FFKM	-34°C / +316°C
NITRILE	NBR	-20°C / +100°C

4.3 Selection table - Seals vs. temperatures and fluids

FLUID	TEMPERATURE (°C)	SEAL	FLUID	TEMPERATURE (°C)	SEAL
Acetone	-50°C / +90°C	-192*	Hexane	-40°C / +120°C	-146
Acetylene (gas)	-40°C / +90°C	standard	Animal oil	-40°C / +70°C	standard
Acids (light)	-40°C / +90°C	-143	Mineral oil		
(aniline point > 70°C)	-40°C / +120°C	standard			
Air	-40°C / +120°C	standard	Non-edible vegetable oil	-40°C / +120°C	standard
Air (above 120°C)	-25°C / +260°C	-143	Transmission oil (automobile)	-40°C / +120°C	standard
Alkalies	-40°C / +70°C	standard	Hydrolube	-40°C / +90°C	standard
Alcohol (ethyl)	-50°C / +70°C	-192*	Jet Fuel	-40°C / +120°C	-146
Alcohol (methyl)	-50°C / +70°C	-192*	Jet Fuel (above 120°C)	-25°C / +260°C	-143
Ammonia (gas)	-40°C / +45°C	-146	Kerosene	-40°C / +45°C	-146
Ammonia (gas)	-50°C / +112°C	-192*	Lindole	-50°C / +120°C	-192*
Ammonia	-50°C / +90°C	-192*	Brake fluid (mineral base)	-50°C / +120°C	-192*
Arochlor	-25°C / +90°C	-143	Brake fluid (petroleum base)	-40°C / +120°C	-143
Nitrogen (gas)	-50°C / +90°C	standard	Diester lubricant	-25°C / +260°C	-143
Butane	-40°C / +90°C	-146	Methane	-40°C / +45°C	-146
Diesel engine fuel	-40°C / +120°C	-146	Methanol	-50°C / +70°C	-192*
Cellulube	-50°C / +120°C	-192*	Methyl Ethyl Ketone	-50°C / +45°C	-192*
Creosote	-25°C / +90°C	-143	Methyl Isobutyl Ketone	-50°C / +45°C	-192*
Water	-25°C / +90°C	standard	Octane	-40°C / +70°C	-146
Gasoline (aromatic or not)	-40°C / +70°C	-146	Oxygen	Depending on operating conditions	
Ethane	-40°C / +45°C	-146	Pentane	-40°C / +70°C	-146
Ethanol	-40°C / +90°C	standard	Perchloroethylene	-25°C / +90°C	-143
Ethylene Glycol	-40°C / +90°C	-143	Propane	-40°C / +45°C	-146
Hydraulic fluid, petroleum-based	-50°C / +120°C	standard	Propylene	-40°C / +120°C	standard
Aniline > 70°C			Pydraul	-40°C / +120°C	-143
Freon 12,13,14,...	-40°C / +90°C	standard	Petroleum derived solvents	-40°C / +70°C	-146
Freon 22 and 502	-45°C / +90°C		Stoddard solvent	-40°C / +70°C	-146
Carbon dioxide (max. press.: 10 bar)	-40°C / +70°C	standard	Turpentine	-40°C / +90°C	standard
Liquefied petroleum gas	-40°C / +45°C	-146	Carbon tetrachloride	-25°C / +120°C	-143
Glycerine	-40°C / +120°C	standard	Toluene	-25°C / +90°C	-143
Helium (gas)	-50°C / +90°C	standard	Trichloroethylene	-25°C / +90°C	-143
Heptane	-40°C / +120°C	-146	Saturated steam (7 bar)	Max. 170°C	-192*

4.4 HK Series (steel) - ISO 7241-1 B Interchange

Eaton's HK Series couplings are made to ISO B standard. The HK series features a semi-automatic, double shut off, ball-locking mechanism and is suitable for use in a wide range of configurations.



- Product features

- Meets the dimensional requirements of Standard ISO 7241-1 Series B
- Coupling type for industrial applications
- Excellent high and low pressure sealing
- Standard body material: zinc plated steel, with stainless steel springs and balls
- PTFE back-up rings (female)
- Seal: Buna-N. Optional seals available: PTFE, Neoprene, EPDM, FKM

Elastomer seal	Maximum operating temperature range
Buna-N	-40°C to +121°C/40°F to +250°F
Neoprene	-54°C to +100°C/-65°F to +212°F
EPDM	-54°C to +149°C/-65°F to +300°F
FKM	-29°C to +204°C/-15°F to +400°F

- European Pressure Equipment Directive:

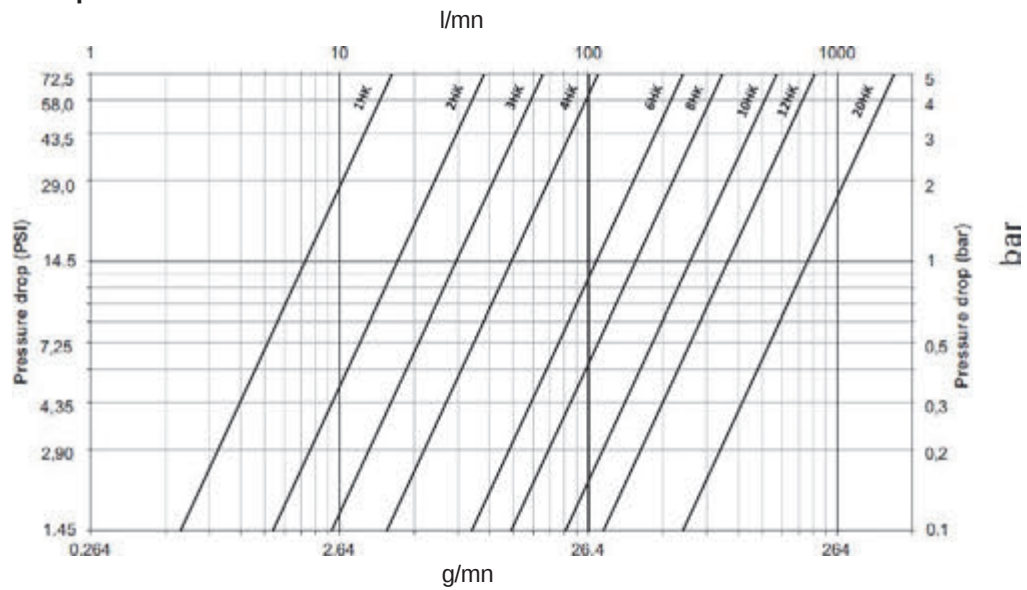
Couplings with nominal diameters up to and including DN25 comply with Article 3 of the European Pressure Equipment Directive 97/23 EC. Couplings with nominal diameters greater than DN25 are manufactured in accordance with Module A of the European Pressure Equipment Directive 97/23 EC.

Not recommended for the transfer of unstable gases.

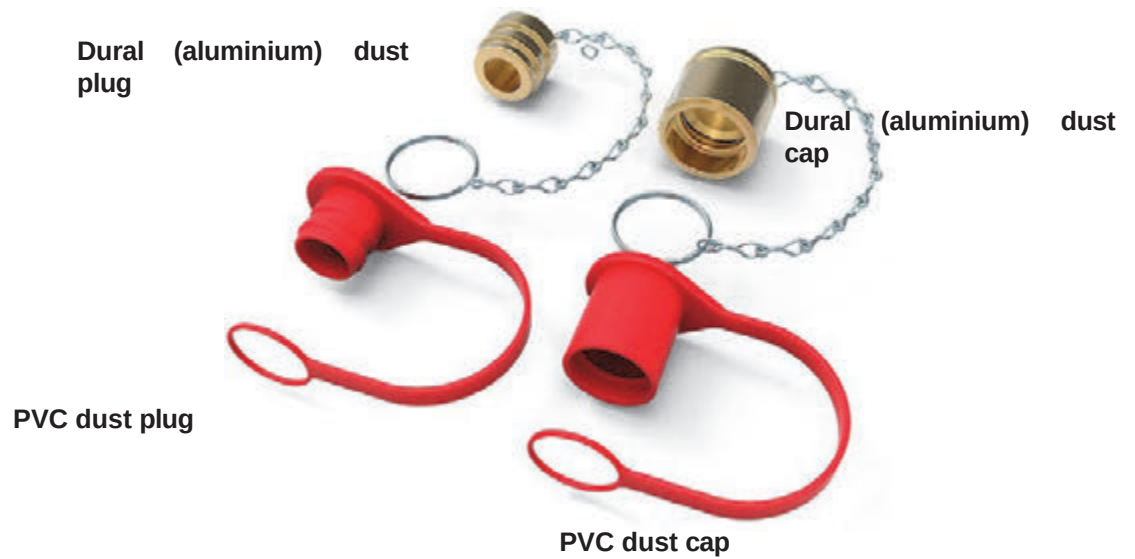
- Applications and markets

- Agriculture
- Hydraulic industry
- General industry
- Construction
- Fluid transfer
- Transport
- Military sector
- Rescue services
- Chemicals
- Oil and gas products
- Consumer products
- HVAC
- Food and beverages
- Trucks
- Aerospace
- Medical sector

- Pressure drop table



- Socket (female) dust plugs and plug (male) dust caps



For further information, please contact GEM Industry's Technical Support Department.

4.5 IA Series - ISO 7241-1 A Interchange

The IA Series meets the requirements of Standard ISO 7241-1 Series A. Its push-pull design allows quick connection and disconnection by a simple push or pull of the male coupling. Should the hose be accidentally pulled, the bulkhead-mounted double-action sleeve will allow instant disconnection of the two half-couplings.



- Product featuresProdukteigenschaften

- Meets the dimensional requirements of Standard ISO 7241-1 Series A
- Available in sizes below nominal diameter <DN25
- Standard body material: zinc plated steel
- Optional PVC dust plugs and dust caps available
- Designed and manufactured in accordance with Article 3 of the European Pressure Equipment Directive (PED) 97/23 EC
- Seal: NBR

Elastomer seal

Maximum operating temperature range

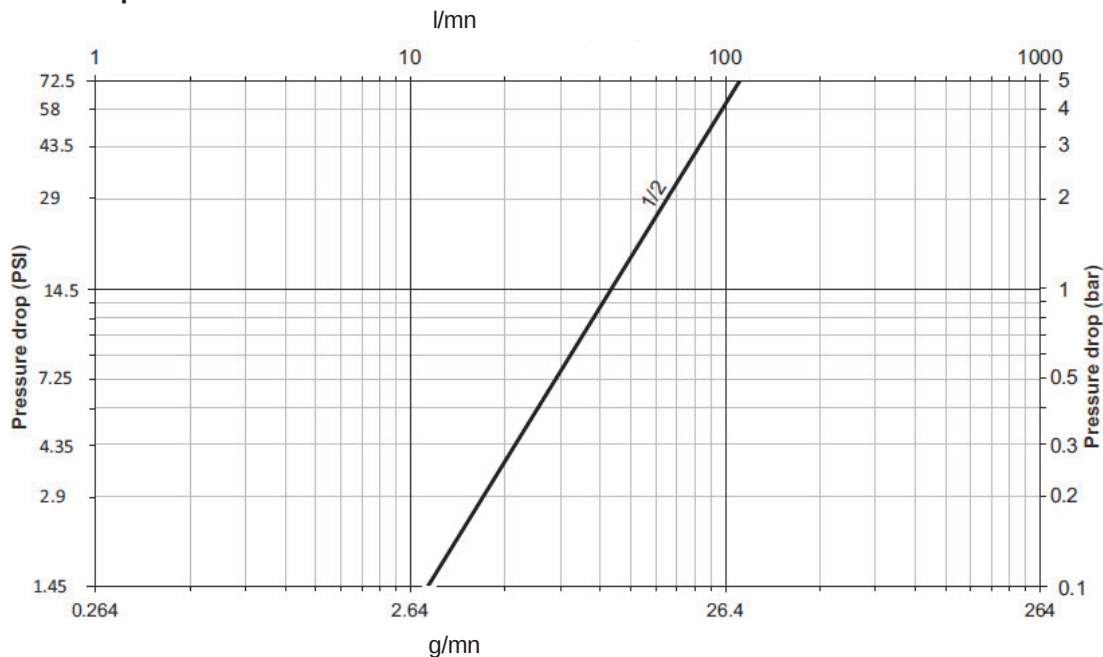
NBR (Nitrile)

-20°C +100°C/-4°F +212°F

- Applications and markets

- Agriculture
- Forest industry

- Pressure drop table



- Socket (female) dust plugs and plug (male) dust caps



For further information, please contact GEM Industry's Technical Support Department.

4.6 H5000 Series - (Steel)

The H5000 Series features double shut-off, semi-automatic couplings with ball locking mechanism.

The H5000 Series remains the preferred series for severe hydraulic applications such as high pressure, pulses and heavy mechanical loads. Furthermore, the H5000 Series couplings are suitable for quick and frequent connection / disconnection cycles.



- Product features

- Proprietary profiles
- Connector with double shut-off mechanism (male and female)
- Ball locking
- Optional sleeve lock, to prevent accidental disconnection
- Anodised aluminium dust caps and plugs
- High pressure performance
- Standard body material: zinc plated steel
- The heat treatment of the connector and the use of high strength steel for the sleeve provide superior mechanical and hydraulic performance. The design of the valve gives the coupling increased robustness when disconnected
- Seal: NBR, FKM, EPDM

Elastomer seal	Maximum operating temperature range
NBR (Nitrile)	-20°C +100°C/-4°F +212°F
FKM	-20°C +200°C/-4°F +392°F
EPDM (Ethylene-Propylene)**	-40°C +150°C/-40°F +302°F

- European Pressure Equipment Directive

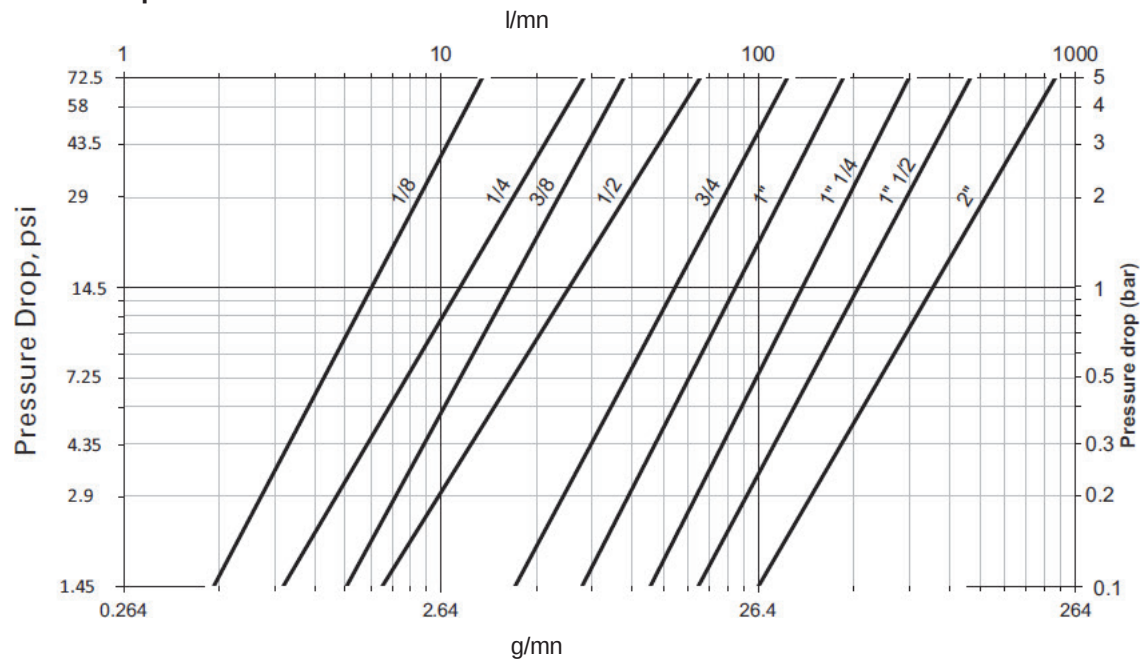
Couplings with nominal diameters up to and including 25 mm comply with Article 3 of the European Pressure Equipment Directive 97/23 EC. Couplings with nominal diameters greater than 25 mm are manufactured in accordance with Module A of the European Pressure Equipment Directive 97/23 EC.

Not recommended for the transfer of unstable gases.

- Applications and markets

- Automobile
- Agriculture
- Construction
- Railway
- Food industry
- Aerospace
- Oil and gas
- Iron and steel
- Electronics
- Laboratories
- General hydraulic applications

- Pressure drop table



- Socket (female) dust plugs and plug (male) dust caps



4.7 FF Series (Steel) - ISO 16028 Interchange

The Flat Face FF Series couplings feature a ball locking system and are specifically designed for use in applications involving a risk of hydraulic system internal contamination (dust, etc.) and subject to safety, environmental protection and work cleanliness requirements.

The FF Series couplings are ideally suited for use and overall interchangeability with items from other manufacturers. They are available in sizes from 1/4" to 1" so as to meet all your requirements.



- Product features

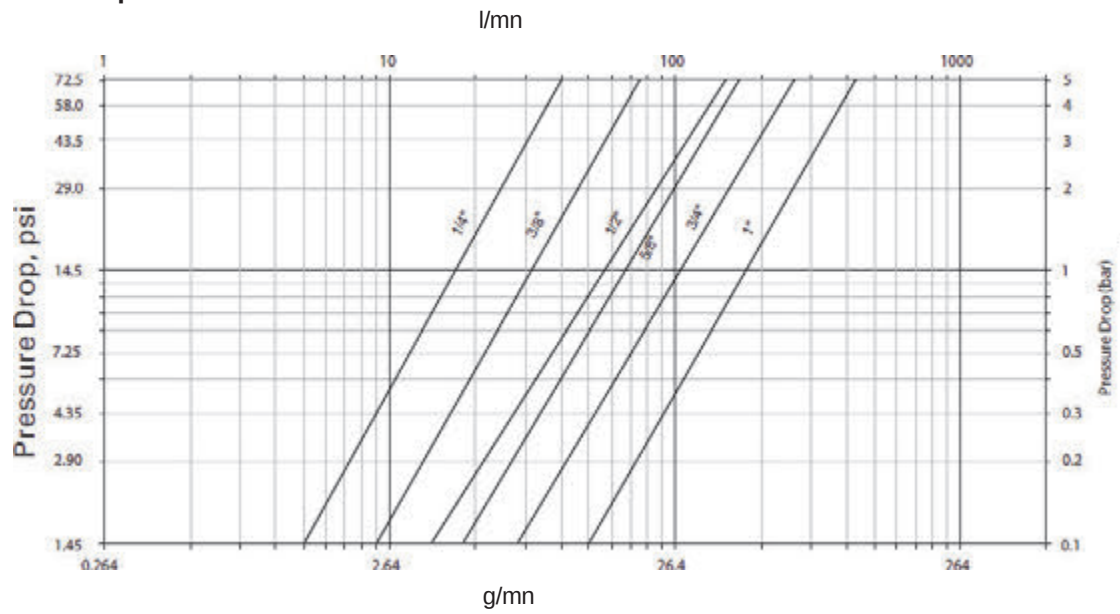
- Meets or exceeds Standard ISO 16028
- Up to 350 bar
- Automatic connection (FF series)
- Locking sleeve moving aft to allow connection (RW Series)
- Standard body material: zinc plated steel
- Ball locking system / Unlocking prevention system
- Seals: Nitrile. Other materials available on request (FKM, EPDM, NBR + AU, HNBR)

Elastomer seal		Maximum operating temperature range	
NBR (Nitrile) + AU (Polyurethane)		-25°C +100°C/-13°F +212°F	-20°C +100°C/-4°F +212°F
FKM	-143	-20°C +200°C/-4°F +392°F	-15°C +180°C/+5°F +356°F
EPDM (Ethylene-Propylene)	-192	-40°C +150°C/-40°F +302°F	on request
HNBR	-507	-32°C +150°C/-25°F +302°F	on request
Kalrez® 6375	-242	-20°C +275°C/-4°F +527°F	on request
Generic FFKM (Perfluorocarbon)	-503	-15°C +275°C/+5°F +527°F	on request

- Applications and markets

- Hydraulic and fluid transfer equipment
- Construction equipment
- Farming equipment
- Utility / road vehicles
- Hydraulic units

c) Pressure drop table



d) Socket (female) dust plugs and plug (male) dust caps

PVC dust plug



PVC dust cap

4.8 W6000 Series - Thread-to-connect couplings

The quick-disconnect, rugged couplings of the W6000 Series are double shut-off, thread-to-connect couplings suitable for use in a vast range of hydraulic applications. The W6000 Series couplings are the preferred choice for applications involving high mechanical loads, such as public works or offshore, as well as all harsh industrial applications (mining, etc.). This series is also perfectly suited for connection with residual pressure with limited fluid loss.



- Product features

- Proprietary profiles
- Pressure up to 1100 bar
- Thread-to-connect locking sleeve
- Coupling with residual pressure
- Anodised aluminium dust caps and plugs
- Connection possible with residual pressure
- Standard body material: zinc plated steel
- Seal: NBR, FKM, EPDM

Elastomer seal Maximum operating temperature range

NBR (Nitrile) + AU (Polyurethane)	-25°C +100°C/-13°F +212°F	-20°C +100°C/-4°F +212°F
FKM	-143 -20°C +200°C/-4°F +392°F	-15°C +180°C/+5°F +356°F
EPDM (Ethylene-Propylene)	-192 -40°C +150°C/-40°F +302°F	on request
HNBR	-507 -32°C +150°C/-25°F +302°F	on request
Kalrez® 6375	-242 -20°C +275°C/-4°F +527°F	on request
Generic FFKM (Perfluorocarbon)	-503 -15°C +275°C/+5°F +527°F	on request

- Applications and markets

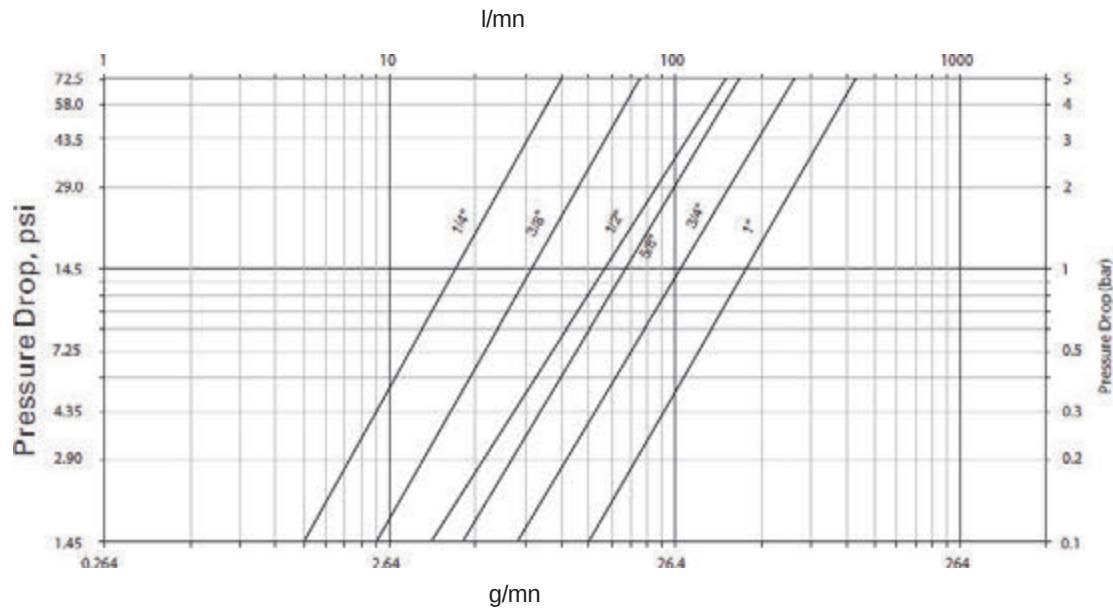
- Construction
- Oil and gas
- Handling equipment
- All high-demanding industrial applications
- Systems involving high mechanical loads and high pressure

- European Pressure Equipment Directive

Couplings with nominal diameters up to and including 25 mm comply with Article 3 of the European Pressure Equipment Directive 97/23 EC. Couplings with nominal diameters greater than 25 mm are manufactured in accordance with Module A of the European Pressure Equipment Directive 97/23 EC.

Not recommended for the transfer of unstable gases.

- Pressure drop table



- Socket (female) dust plugs and plug (male) dust caps

Dural (aluminium) dust plug



GLOSSARY

+DKI	+ DKI Seal	CLAMJRS	Junior smooth ID pre-formed clamp
+ER	+ Captive Seal Form E	CLAMSCRU	Scru-Seal worm gear racked clamp
+OR	+ O-Ring	CLAMSCRUS	Scru-Bandworm gear clamp
+RR	+ Retaining Ring	CLAMULF	Ultra-Lok Free-End clamp
24D	24°	CLAMULP	Ultra-Lok Smooth ID pre-formed clamp
90CO	90° cone	CLAP	With Valve
ADJ	Adjustable Male	CONCE	Concentric
ALU	Aluminium	CR	Copper Ring
BAJCP	Banjo body	DIN	Metric DIN (60°)
BAJVS	Banjo screw	DINB	DIN Cutting Edge Type
BAND201	Band	DINBS	DIN Bonded seal
BANDGIANT	Giant band	DINE	DIN E captive seal
BANDISP201	Band dispenser	DKI	DKI Seal
BANDVALUS	Valustrap band	E45	45° elbow
BANJO	Banjo coupling	E90	90° elbow
BH	Bulkhead	EASYBAND	Easy-Read band
BSP	BSP	EASYCAR	Easy-Read carrier
BSPA	BSP Form A	EASYKIT100	EASY-READ kit, 100 characters each
BSPB	BSP Cutting Edge Type	EASYLETTER	Easy-Read character
BSPBS	BSP for bonded seal	ECROU	Screws
BSPE	BSP Form E	EL	Standpipe spigot
BSR	Bonded Seal	ER	Form E with captive seal
BUCKLE	Buckle	F	Female
BUCKLEAR	Ear-Lokt buckle	F_DIAINT	Inside diameter
BUCKLEFREE	Buckle for Ultra-Lok Free-End clamp	F_LARG	Width
BW	Butt Welding	FARM	Farm
CAP	Plug / Cap for coupling	FRS	French series
CAVIS	To screw	FS	Swivel Female
CCAM	Truck	FS3	SAE flange series 3000
CDINB	DIN with ball	FS6	SAE flange series 6000
CDINC	DIN with valve	G	BSPP
CFF	Flat face (ISO 16028)	GAZS	Gas Series
CH5	H5000	GB	BSPP B-Cutting Edge Type
CISOA	ISO A	GBS	BSPP Bonded seal
CISOB	ISO B	GE	BSPP E captive seal
CLA	Clamp	H	Hexagon
CLAMCP	Center Punch clamp	HEX	Hexagonal Head
CLAMJR	Junior pre-formed clamp	HOS	Hose

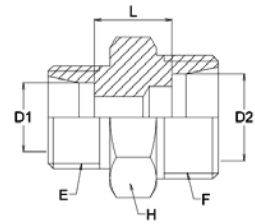
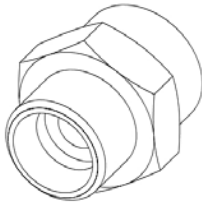
HOSN	Male tails serrated	RR	Retaining Ring
IDKIT	ID tag kit	S	Straight Adapter
ISO	ISO	SAE	SAE
ISOA	ISO A Form	SCT	With membrane
ISOB	ISO Cutting Edge Type	SF	Self-curing
ISOBS	ISO Bonded seal	SFS3	1/2 flange SAE Series 3000
ISOC	ISO copper seal	SFS6	1/2 flange SAE Series 6000
ISOE	ISO E captive seal	SG	BSP series
JIC	JIC	SH	Hollow Hexagonal
JIS	JIS	SL	Sleeve
K	Cross	SP	Accross wrench flats
KOM	Komatsu	SQ	Square body
LHT	Overall length	SS	Stainless steel
LIGHT	Light Series	SS201	201 stainless steel
LLIGHT	LL Series	SS304	304 stainless steel
LN	Locknut	SS316	316 stainless steel
LOCK	Braking	STEEL	Steel
LONG	Extension	STRONG	Strong Series
M	Male	SW	Socket Welding
MANO	Pressure gauge coupling	T	Tee
MBH	Bulkhead Male	TAG	Label I.D
MINITIELOC	Tie-Lok mini clamp	TAGLETTER	Set of characters for ID tag printer
MS	Swivel Male	TAGPRINT	ID tag printer
N	Nut	TIELOCK	Tie-Lok clamp
NBR	Nitril	TLAUIT	Pneumatic tool
NPSM	NPSM	TLAUJR350	Junior automatic tool S350
NPT	NPT	TLAUJR750	Junior automatic tool S750
NS	Normal Series	TLAUUL9010	Ultra-Lok automatic tool 9010
OR	O-Ring	TLMANCP038	Center Punch hand tool S038
ORFS	ORFS	TLMANCP300	Center Punch hand tool T300
PCPL	For coupling	TLMANG	Giant tool 6402
PL	Plug	TLMANJCA	Junior clamp adapter J001
PLAST	Plastic	TLMANJHA	Junior Heavy Duty adapter J050
PRLL	Extended length	TLMANMTIE	Mini-Tie-Lok hand tool A920
PRTB	For tube	TLMANPI	Pok-It tool J020
QCP	Quick coupling	TLMANUL	Ultra-Lok hand tool A940
R	BSPT	TLMANULB	Banding hand tool C001
RG24	Profiled Ring	TS	Thin Series

U	Union adapter
VITON	Viton
WELD	Weld-on
WSCT	Without membrane
WZ	Not galvanized
ZN	Zinc coated

Straight Adapters



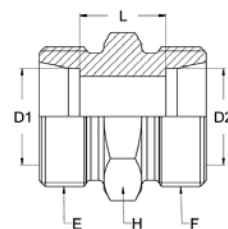
Straight Adapter Male 24° X Male 24°



S M24D X M24D

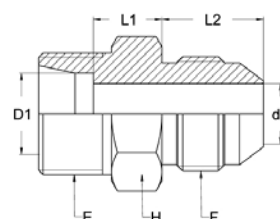
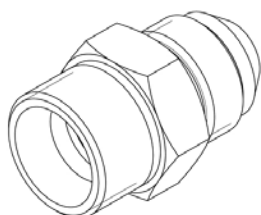
PT311	24D (E)	24D (F)	TUBE (D1)	TUBE (D2)	L	H				
8UR8L6	M12X1.5	M14X1.5	6L	8L	11	14				
8UR10L6	M12X1.5	M16X1.5	6L	10L	12	17				
8UR10L8	M14X1.5	M16X1.5	8L	10L	13	17				
8UR12L8	M14X1.5	M18X1.5	8L	12L	13	19				
8UR12L10	M16X1.5	M18X1.5	10L	12L	14	19				
8UR15L10	M16X1.5	M22X1.5	10L	15L	15	24				
8UR12L13G	M18X1.5	M20x1.5	12L	13G	14	22				
8UR12L17G	M18X1.5	M24x1.5	12L	17G	15	27				
8UR15L12	M18X1.5	M22X1.5	12L	15L	15	24				
8UR15L13G	M22X1.5	M20x1.5	15L	13G	14	22				
8UR15L17G	M22X1.5	M24x1.5	15L	17G	15	27				
8UR15L22	M22X1.5	M30X1.5	15L	22L	18.5	32				
8UR18L12	M18X1.5	M26X1.5	12L	18L	15.5	27				
8UR18L15	M22X1.5	M26X1.5	15L	18L	16.5	27				
8UR22L12	M18X1.5	M30X2	12L	22L	17.5	32				
8UR22L15	M22X1.5	M30X1.5	15L	22L	18.5	32				
8UR22L18	M26X1.5	M30X1.5	18L	22L	18	32				
8UR28L18	M26X1.5	M36X1.5	18L	28L	19	41				
8UR28L22	M30X2	M36X2	22L	28L	21	41				
8UR35L22	M30X2	M45X2	22L	35L	21	46				
8UR35L28	M36X2	M45X2	28L	35L	21	46				
8UR8S6	M14X1.5	M16X1.5	6S	8S	18	17				
8UR10S6	M14X1.5	M18X1.5	6S	10S	17.5	19				
8UR10S8	M16X1.5	M18X1.5	8S	10S	17.5	19				
8UR12S6	M14X1.5	M20X1.5	6S	12S	19.5	22				
8UR12S8	M16X1.5	M20X1.5	8S	12S	19.5	22				
8UR12S10	M18X1.5	M20X1.5	10S	12S	19	22				
8UR14S10	M18X1.5	M22X1.5	10S	14S	20.5	24				
8UR14S12	M20X1.5	M22X1.5	12S	14S	20.5	24				
8UR16S12	M20X1.5	M24X1.5	12S	16S	20	27				
8UR16S14	M22X1.5	M24X1.5	14S	16S	21.5	27				
8UR20S10	M18X1.5	M30X2	10S	20S	22	32				
8UR20S12	M20X1.5	M30X2	12S	20S	22	32				
8UR20S16	M24X1.5	M30X2	16S	20S	23	32				
8UR21G13	M20X1.5	M30X1.5	13G	21G	17	32				
8UR21G20S	M30X2	M30X1.5	14G	20S	19.5	32				
8UR25S16	M24X1.5	M36X2	16S	25S	25.5	41				
8UR25S20	M30X2	M36X2	20S	25S	25.5	41				
8UR30S20	M30X2	M42X2	20S	30S	26	46				
8UR30S25	M36X2	M42X2	25S	30S	26.5	46				
8UR38S30	M42X2	M52X2	30S	38S	28.5	55				

Fittings delivered without union nut or cutting ring.

Straight Adapter Male 24° X Male 24°

S M24D X M24D

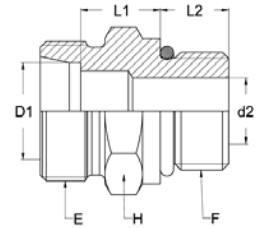
PT322	24D (E)	24D (F)	TUBE (D1)	TUBE (D2)	L	H				
8U6L	M12X1.5	M12X1.5	6L	6L	10	12				
8U8L	M14X1.5	M14X1.5	8L	8L	11	14				
8U10L	M16X1.5	M16X1.5	10L	10L	13	17				
8U12L	M18X1.5	M18X1.5	12L	12L	14	19				
8U15L	M22X1.5	M22X1.5	15L	15L	16	24				
8U18L	M26X1.5	M26X1.5	18L	18L	16	27				
8U22L	M30X2	M30X2	22L	22L	20	32				
8U28L	M36X2	M36X2	28L	28L	21	41				
8U35L	M45X2	M45X2	35L	35L	20	46				
8U42L	M52X2	M52X2	42L	42L	21	55				
8U6S	M14X1.5	M14X1.5	6S	6S	16	14				
8U8S	M16X1.5	M16X1.5	8S	8S	18	17				
8U10S	M18X1.5	M18X1.5	10S	10S	17	19				
8U12S	M20X1.5	M20X1.5	12S	12S	19	22				
8U14S	M22X1.5	M22X1.5	14S	14S	22	24				
8U16S	M24X1.5	M24X1.5	16S	16S	21	27				
8U20S	M30X2	M30X2	20S	20S	23	32				
8U25S	M36X2	M36X2	25S	25S	26	41				
8U30S	M42X2	M42X2	30S	30S	27	46				
8U38S	M52X2	M52X2	38S	38S	29	55				
8U21G	M30X1.5	M30X1.5	21G	21G	19	32				

Fittings delivered without union nut or cutting ring.

Straight Adapter Male 24° X Male JIC

S M24D X MJIC

PT238	24D (E)	JIC (F)	TUBE (D1)	L1	L2	d2	H			
8U12LMJ6	M18X1.5	9/16-18f	12L	9,8	14,5	7,5	19			
8U12LMJ8	M18X1.5	3/4-16f	12L	10,8	17	9,9	22			
8U15LMJ8	M22X1.5	3/4-16f	15L	10,8	17	9,9	24			
8U18LMJ12	M26X1.5	1"1/16-12f	18L	13,5	21,9	15,5	27			
8U13GMJ6	M20X1.5	9/16-18f	13G	10,9	14,1	7,5	22			
8U13GMJ8	M20X1.5	3/4-16f	13G	11,3	16,7	9,9	22			

Fittings delivered without union nut or cutting ring.

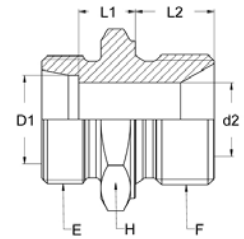
Straight Adapter Male 24° X Male SAE + O-Ring


S M24D X MSAE +OR

PT326	24D (E)	SAE (F)	TUBE (D1)	L1	L2	d2	H			
8U8LMS4	M14x1.5	7/16-20f	8L	9,9	9,1	4,4	14			
8U10LMS4	M16x1.5	7/16-20f	10L	10,9	9,1	4,4	17			
8U10LMS6	M16x1.5	9/16-18f	10L	11	9,9	7,5	17			
8U10LMS8	M16x1.5	3/4-16f	10L	11,9	11,1	9,9	22			
8U10LMS10	M16x1.5	7/8-14f	10L	14,3	12,7	12,3	27			
8U12LMS6	M18x1.5	9/16-18f	12L	11	9,9	7,5	19			
8U12LMS8	M18x1.5	3/4-16f	12L	12,9	11,1	9,9	22			
8U12LMS10	M18x1.5	7/8-14f	12L	14,3	12,7	12,3	27			
8U15LMS4	M22x1.5	7/16-20f	15L	13,9	9,1	4,4	24			
8U15LMS8	M22x1.5	3/4-16f	15L	12	11,1	9,9	24			
8U15LMS10	M22x1.5	7/8-14f	15L	15,3	12,7	12	27			
8U15LMS20	M22x1.5	1"5/8-12f	15L	17,4	15,1	27,5	50			
8U18LMS8	M26x1.5	3/4-16f	18L	14,4	11,1	9,9	27			
8U18LMS10	M26x1.5	7/8-14f	18L	14,8	12,7	12,3	27			
8U18LMS12	M26x1.5	1"1/16-12f	18L	16,4	15,1	15	32			
8U22LMS8	M30x2	3/4-16f	22L	16,9	11,1	9,9	32			
8U22LMS10	M30x2	7/8-14f	22L	16,8	12,7	12,3	32			
8U22LMS12	M30x2	1"1/16-12f	22L	16,4	15,1	15,5	32			
8U22LMS16	M30x2	1"5/16-12f	22L	17,5	15	21,5	41			
8U28LMS12	M36x2	1"1/16-12f	28L	17,4	15,1	15,5	41			
8U28LMS16	M36x2	1"5/16-12f	28L	17,4	15,1	21,5	41			
8U35LMS16	M45x2	1"5/16-12f	35L	17,4	15,1	21,5	46			
8U35LMS20	M45x2	1"5/8-12f	35L	17,4	15,1	27,5	50			
8U42LMS20	M52x2	1"5/8-12f	42L	19,9	15,1	27,5	55			
8U42LMS32	M52x2	2"1/2-12f	42L	20,4	15,1	45	70			
8U6SMS6	M14x1.5	9/16-18f	6S	14,6	9,9	7,5	17			
8U8SMS4	M16x1.5	7/16-20f	8S	14,9	9,1	4,4	17			
8U10SMS6	M18x1.5	9/16-18f	10S	14,6	9,9	7	19			
8U12SMS6	M20x1.5	9/16-18f	12S	14,6	9,9	7,5	22			
8U12SMS8	M20x1.5	3/4-16f	12S	17,4	11,1	8	22			
8U16SMS8	M24x1.5	3/4-16f	16S	15,4	11,1	9,9	27			
8U16SMS10	M24x1.5	7/8-14f	16S	18,8	12,7	12	27			
8U20SMS8	M30x2	3/4-16f	20S	20,4	11,1	9,9	32			
8U20SMS10	M30x2	7/8-14f	20S	20,8	12,7	12,3	32			
8U20SMS12	M30x2	1"1/16-12f	20S	20,4	15,1	15,5	32			
8U25SMS12	M36x2	1"1/16-12f	25S	19,9	15,1	15,5	41			
8U25SMS16	M36x2	1"5/16-12f	25S	22,9	15,1	20	41			
8U30SMS16	M42x2	1"5/16-12f	30S	23,4	15,1	21,5	46			
8U30SMS20	M42x2	1"5/8-12f	30S	23,4	15,1	25	50			
8U38SMS20	M52x2	1"5/8-12f	38S	22,9	15,1	27,5	55			
8U13GMS6	M20x1.5	9/16-18f	13G	13,1	9,9	7,5	22			
8U13GMS8	M20x1.5	3/4-16f	13G	11,4	11,1	8	22			
8U13GMS10	M20x1.5	7/8-14f	13G	12,3	12,7	12,3	27			
8U21GMS16	M30x1.5	1"5/16-12f	21G	14,9	15,1	21,5	41			

Fittings delivered without union nut or cutting ring.

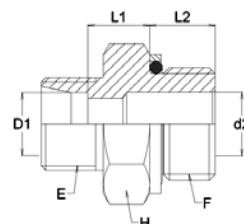
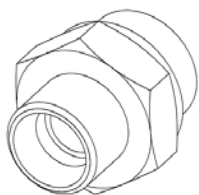
Straight Adapter Male 24° X Male BSP for bonded seal



S M24D X MBSPBS

PT320	24D (E)	BSPBS (F)	TUBE (D1)	L1	L2	d2	H			
8U6LMBS2	M12X1.5	G1/8-28f	6L	8	8	3,5	14			
8U6LMBS4	M12X1.5	G1/4-19f	6L	9	11	4	19			
8U8LMBS2	M14X1.5	G1/8-28f	8L	8	8	3,5	14			
8U8LMBS4	M14X1.5	G1/4-19f	8L	9	11	4,7	19			
8U8LMBS6	M14X1.5	G3/8-19f	8L	9	12	7,9	22			
8U10LMBS4	M16X1.5	G1/4-19f	10L	10	11	4,7	19			
8U10LMBS8	M16X1.5	G1/2-14f	10L	11	14	11,1	27			
8U12LMBS4	M18X1.5	G1/4-19f	12L	10	11	4,7	19			
8U12LMBS6	M18X1.5	G3/8-19f	12L	10	12	7,9	22			
8U12LMBS8	M18X1.5	G1/2-14f	12L	11	14	10	27			
8U15LMBS6	M22X1.5	G3/8-19f	15L	11	12	7,9	24			
8U15LMBS8	M22X1.5	G1/2-14f	15L	12	14	11,1	27			
8U18LMBS8	M26X1.5	G1/2-14f	18L	11,5	14	11,1	27			
8U18LMBS12	M26X1.5	G3/4-14f	18L	11,5	16	15	32			
8U22LMBS12	M30X2	G3/4-14f	22L	13,5	16	16,7	32			
8U28LMBS16	M36X2	G1"-11f	28L	14,5	19	22,2	41			
8U35LMBS20	M45X2	G1"1/4-11f	35L	15,5	20	28,6	50			
8U42LMBS24	M52X2	G1"1/2-11f	42L	16	23	32	55			
8U6SMBS4	M14X1.5	G1/4-19f	6S	13	11	4	19			
8U8SMBS4	M16X1.5	G1/4-19f	8S	13	11	4,7	19			
8U8SMBS6	M16X1.5	G3/8-19f	8S	15	12	7,9	22			
8U10SMBS4	M18X1.5	G1/4-19f	10S	12,5	11	4,7	19			
8U10SMBS6	M18X1.5	G3/8-19f	10S	14,5	12	7	22			
8U10SMBS8	M18X1.5	G1/2-14f	10S	14,5	14	11,1	27			
8U12SMBS4	M20X1.5	G1/4-19f	12S	14,5	11	4,7	22			
8U12SMBS6	M20X1.5	G3/8-19f	12S	14,5	12	8	22			
8U12SMBS8	M20X1.5	G1/2-14f	12S	14,5	14	11,1	27			
8U14SMBS8	M22X1.5	G1/2-14f	14S	16	14	10	27			
8U16SMBS6	M24X1.5	G3/8-19f	16S	15,5	12	7,9	27			
8U16SMBS8	M24X1.5	G1/2-14f	16S	15,5	14	11,1	27			
8U16SMBS12	M24X1.5	G3/4-14f	16S	17,5	16	16,7	32			
8U20SMBS12	M30X2	G3/4-14f	20S	17,5	16	16	32			
8U25SMBS8	M36X2	G1/2-14f	25S	19	14	11,1	41			
8U30SMBS20	M42X2	G1"1/4-11f	30S	21,5	20	25	50			
8U38SMBS24	M52X2	G1"1/2-11f	38S	23	22	32	55			
8U13GMBSP12	M20X1.5	G3/4-14f	13G	13	16	16,7	32			

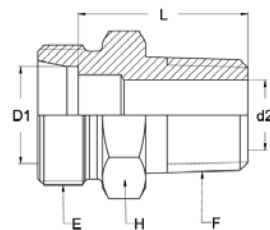
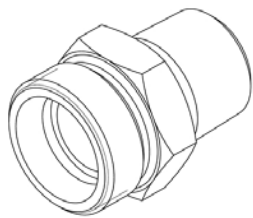
Fittings delivered without union nut or cutting ring.

Straight Adapter Male 24° X Male BSPP + O-Ring + Retaining Ring

S M24D X MG +OR +RR

PT308	24D (E)	G (F)	TUBE (D1)	L1	L2	d2	H			
8U6LMBJ2	M12X1.5	G1/8-28f	6L	8,5	9,5	4,4	14			
8U6LMBJ4	M12X1.5	G1/4-19f	6L	8,5	10	7,5	19			
8U8LMBJ4	M14X1.5	G1/4-19f	8L	10	10	7,5	19			
8U8LMBJ6	M14X1.5	G3/8-19f	8L	11,5	11,5	9,9	22			
8U8LMBJ8	M14X1.5	G1/2-14f	8L	13	14	12,3	27			
8U10LMBJ4	M16X1.5	G1/4-19f	10L	11	10	7,5	19			
8U10LMBJ6	M16X1.5	G3/8-19f	10L	12,5	11,5	9,9	22			
8U10LMBJ8	M16X1.5	G1/2-14f	10L	13	14,5	14	30			
8U12LMBJ6	M18X1.5	G3/8-19f	12L	12,5	11,5	9,9	22			
8U12LMBJ8	M18X1.5	G1/2-14f	12L	13	14	12,3	27			
8U15LMBJ6	M22X1.5	G3/8-19f	15L	13,5	11,5	9,9	24			
8U15LMBJ8	M22X1.5	G1/2-14f	15L	14	14	12,3	27			
8U18LMBJ8	M26X1.5	G1/2-14f	18L	14,5	14	12,3	27			
8U18LMBJ12	M26X1.5	G3/4-14f	18L	14,5	15,5	15,5	32			
8U22LMBJ12	M30x2	G3/4-14f	22L	16,5	15,5	15,5	32			
8U28LMBJ16	M36x2	G1"-11f	28L	17,5	18,6	23	46			
8U35LMBJ20	M45x2	G1"1/4-11f	35L	17,5	20	27,5	50			
8U42LMBJ24	M52x2	G1"1/2-11f	42L	19	18,6	36	55			
8U6SMBJ4	M14X1.5	G1/4-19f	6S	13	10	7,5	19			
8U8SMBJ4	M16X1.5	G1/4-19f	8S	15	10	7,5	19			
8U10SMBJ4	M18X1.5	G1/4-19f	10S	14,5	10	7,5	19			
8U10SMBJ6	M18X1.5	G3/8-19f	10S	15	11,5	9,9	22			
8U12SMBJ6	M20X1.5	G3/8-19f	12S	17	11,5	9,9	22			
8U12SMBJ8	M20X1.5	G1/2-14f	12S	17,5	14	12,3	27			
8U14SMBJ8	M22X1.5	G1/2-14f	14S	19	14	12,3	27			
8U16SMBJ8	M24X1.5	G1/2-14f	16S	18,5	14	12,3	27			
8U20SMBJ12	M30x2	G3/4-14f	20S	20,5	15,5	15,5	32			
8U25SMBJ12	M36x2	G3/4-14f	25S	23	15,5	15,5	41			
8U25SMBJ16	M36x2	G1"-11f	25S	23	18,6	20	46			

Fittings delivered without union nut or cutting ring.

Straight Adapter Male 24° X Male BSPT

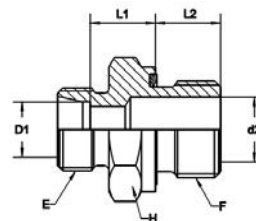


S M24D X MR

PT315	24D (E)	R (F)	TUBE (D1)	L	d2	H				
8U6LMG2	M12X1.5	R1/8-28f	6L	17	4	12				
8U6LMG4	M12X1.5	R1/4-19f	6L	22	7	14				
8U8LMG4	M14X1.5	R1/4-19f	8L	22,5	6	14				
8U8LMG6	M14X1.5	R3/8-19f	8L	24	10	17				
8U10LMG4	M16x1.5	R1/4-19f	10L	23,5	7	17				
8U10LMG6	M16x1.5	R3/8-19f	10L	25	8	17				
8U12LMG4	M18x1.5	R1/4-19f	12L	24,5	7	19				
8U12LMG6	M18X1.5	R3/8-19f	12L	25	10	19				
8U12LMG8	M18X1.5	R1/2-14f	12L	30	13	22				
8U15LMG6	M22x1.5	R3/8-19f	15L	26	10	24				
8U15LMG8	M22x1.5	R1/2-14f	15L	31	12	24				
8U18LMG8	M26x1.5	R1/2-14f	18L	31,5	13	27				
8U6SMG2	M14x1.5	R1/8-28f	6S	21	4	14				
8U6SMG4	M14x1.5	R1/4-19f	6S	24,5	4	14				
8U8SMG4	M16x1.5	R1/4-19f	8S	27,5	5	17				
8U10SMG4	M18x1.5	R1/4-19f	10S	27	7	19				
8U10SMG6	M18x1.5	R3/8-19f	10S	29,5	10	19				
8U12SMG4	M20x1.5	R1/4-19f	12S	29	7	22				
8U12SMG6	M20x1.5	R3/8-19f	12S	29,5	10	22				
8U12SMG8	M20x1.5	R1/2-14f	12S	36	13	22				
8U14SMG8	M22x1.5	R1/2-14f	14S	36	13	24				
8U16SMG8	M24x1.5	R1/2-14f	16S	35,5	12	27				
8U21GMG8	M30X1.5	R1/2-14f	21G	33	13	32				

Fittings delivered without union nut or cutting ring.

Straight Adapter Male 24° X Male BSPP E captive seal

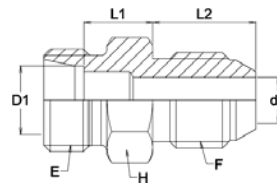


S M24D X MGE

PT317	24D (E)	BSPE (F)	TUBE (D1)	L1	L2	d2	H			
8U12LMBE12										
8U6LMBE2	M12X1.5	G1/8-28f	6L	8,5	8	4	14			
8U6LMBE4	M12X1.5	G1/4-19f	6L	10	12	6	19			
8U8LMBE4	M14X1.5	G1/4-19f	8L	10	12	6	19			
8U8LMBE6	M14X1.5	G3/8-19f	8L	11	12	9	22			
8U8LMBE8	M14X1.5	G1/2-14f	8L	12	14	14	27			
8U10LMBE4	M16X1.5	G1/4-19f	10L	11	12	6	19			
8U10LMBE6	M16X1.5	G3/8-19f	10L	12,5	12	8	22			
8U10LMBE8	M16X1.5	G1/2-14f	10L	13	14	14	27			
8U12LMBE4	M18X1.5	G1/4-19f	12L	12	12	6	19			
8U12LMBE6	M18X1.5	G3/8-19f	12L	12,5	12	9	22			
8U12LMBE8	M18X1.5	G1/2-14f	12L	14	14	14	27			
8U15LMBE6	M22X1.5	G3/8-19f	15L	13,5	12	9	24			
8U15LMBE8	M22X1.5	G1/2-14f	15L	14	14	14	27			
8U15LMBE12	M22X1.5	G3/4-14f	15L	15	16	18	32			
8U18LMBE8	M26X1.5	G1/2-14f	18L	14,5	14	14	27			
8U18LMBE12	M26X1.5	G3/4-14f	18L	14,5	16	18	32			
8U22LMBE8	M30X2	G1/2-14f	22L	16,5	14	14	32			
8U22LMBE12	M30X2	G3/4-14f	22L	16,5	16	18	32			
8U28LMBE16	M36X2	G1"-11f	28L	17,5	18	23	41			
8U35LMBE20	M45X2	G1"1/4-11f	35L	17,5	20	30	50			
8U42LMBE24	M52X2	G1"1/2-11f	42L	19	22	36	55			
8U6SMBE4	M14X1.5	G1/4-19f	6S	13	12	4	19			
8U8SMBE4	M16X1.5	G1/4-19f	8S	15	12	5	19			
8U8SMBE6	M16X1.5	G3/8-19f	8S	15,5	12	8	22			
8U10SMBE4	M18X1.5	G1/4-19f	10S	14,5	12	5	19			
8U10SMBE6	M18X1.5	G3/8-19f	10S	15	12	7	22			
8U10SMBE8	M18X1.5	G1/2-14f	10S	17,5	14	12	27			
8U12SMBE4	M20X1.5	G1/4-19f	12S	16,5	12	5	22			
8U12SMBE6	M20X1.5	G3/8-19f	12S	17	12	8	22			
8U12SMBE8	M20X1.5	G1/2-14f	12S	17,5	14	12	27			
8U14SMBE8	M22X1.5	G1/2-14f	14S	19	14	10	27			
8U16SMBE6	M24X1.5	G3/8-19f	16S	18	12	8	27			
8U16SMBE8	M24X1.5	G1/2-14f	16S	18,5	14	12	27			
8U16SMBE12	M24X1.5	G3/4-14f	16S	20,5	16	16	32			
8U20SMBE8	M30X2	G1/2-14f	20S	20,5	14	12	32			
8U20SMBE12	M30X2	G3/4-14f	20S	20,5	16	16	32			
8U20SMBE16	M30X2	G1"-11f	20S	22,5	18	20	41			
8U25SMBE12	M36X2	G3/4-14f	25S	23	16	16	41			
8U25SMBE16	M36X2	G1"-11f	25S	23	18	20	41			
8U30SMBE20	M42X2	G1"1/4-11f	30S	23,5	20	25	50			
8U38SMBE24	M52X2	G1"1/2-11f	38S	26	22	32	55			

Fittings delivered without union nut or cutting ring.

Straight Adapter Male 24° X Male JIS

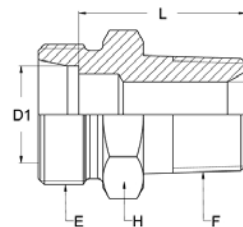
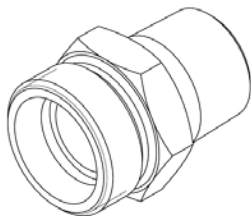


S M24D X MJIS

PT235	24D (E)	JIS (F)	TUBE (D1)	L1	L2	d2	H			
8U12LMJIS6	M18x1.5	G3/8-19f	12L	13	17,5	8	19			

Fittings delivered without union nut or cutting ring.

Straight Adapter Male 24° X Male NPT

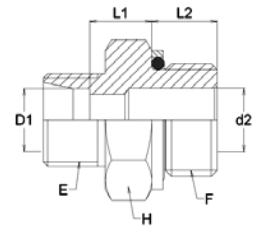
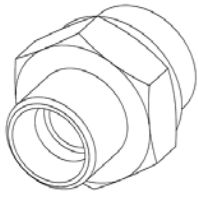


S M24D X MNPT

PT314	24D (E)	NPT (F)	TUBE (D1)	L	d2	H				
8U6LMN2	M12X1.5	1/8-27f	6L	17,5	4	12				
8U6LMN4	M12X1.5	1/4-18f	6L	23	6	14				
8U8LMN2	M14X1.5	1/8-27f	8L	18	4,5	14				
8U8LMN4	M14X1.5	1/4-18f	8L	23	6	14				
8U10LMN4	M16X1.5	1/4-18f	10L	24	6	17				
8U10LMN6	M16X1.5	3/8-18f	10L	26	8	19				
8U10LMN8	M16X1.5	1/2-14f	10L	30	12	22				
8U12LMN4	M18X1.5	1/4-18f	12L	25	6	19				
8U12LMN6	M18X1.5	3/8-18f	12L	26	9	19				
8U12LMN8	M18X1.5	1/2-14f	12L	29,5	12	22				
8U15LMN8	M22X1.5	1/2-14f	15L	30,5	12	24				
8U18LMN8	M26X1.5	1/2-14f	18L	31	12	27				
8U6SMN4	M14X1.5	1/4-18f	6S	28	6	14				
8U8SMN4	M16X1.5	1/4-18f	8S	28	5	17				
8U10SMN6	M18X1.5	3/8-18f	10S	28,5	9	19				
8U12SMN4	M20X1.5	1/4-18f	12S	29,5	6	22				
8U12SMN6	M20X1.5	3/8-18f	12S	30,5	8	22				
8U12SMN8	M20X1.5	1/2-14f	12S	34	12	22				
8U14SMN8	M22X1.5	1/2-14f	14S	35,5	12	24				
8U20SMN8	M30X2	1/2-14f	20S	37,5	12	32				
8U20SMN12	M30X2	3/4-14f	20S	37	16	32				

Fittings delivered without union nut or cutting ring.

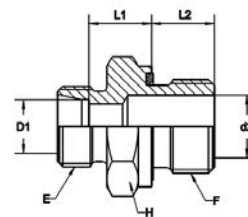
Straight Adapter Male 24° X Male ISO + O-Ring + Retaining Ring



S M24D X MISO +OR +RR

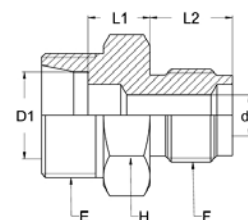
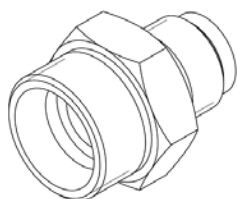
PT333	24D (E)	ISO (F)	TUBE (D1)	L1	L2	d2	H			
8U6LMMJ10	M12X1.5	M10X1	6L	9.5	8,5	4	14			
8U8LMMJ12	M14X1.5	M12X1.5	8L	10	11	6	17			
8U10LMMJ14	M16X1.5	M14X1.5	10L	11	11	7	19			
8U12LMMJ16	M18X1.5	M16X1.5	12L	12,5	11,5	9	22			
8U12LMMJ30	M18X1.5	M30X2	12L	15	16	21	36			
8U15LMMJ18	M22X1.5	M18X1.5	15L	13.5	12,5	11	24			
8U18LMMJ18	M26X1.5	M18X1.5	18L	14,5	12,5	11	27			
8U22LMMJ22	M30X2	M22X1.5	22L	16,5	13	14	32			
8U28LMMJ33	M36X2	M33X2	28L	17,5	16	23	41			
8U6SMMJ12	M14X1.5	M12X1.5	6S	13	11	4	17			
8U8SMMJ14	M16X1.5	M14X1.5	8S	15	11	5	19			
8U10SMMJ16	M18X1.5	M16X1.5	10S	15	12,5	7	22			
8U12SMMJ18	M20X1.5	M18X1.5	12S	17	14	8	24			
8U14SMMJ20	M22X1.5	M20X1.5	14S	19	14	10	26			
8U16SMMJ22	M24X1.5	M22X1.5	16S	18.5	15	12	27			
8U20SMMJ27	M30X2	M27X2	20S	20.5	18.5	15	32			
8U25SMMJ33	M36X2	M33X2	25S	23	18,5	20	41			

Fittings delivered without union nut or cutting ring.

Straight Adapter Male 24° X Male ISO E captive seal

S M24D X MISOE

PT335	24D (E)	DINE (F)	TUBE (D1)	L1	L2	d2	H			
8U6LMME10	M12X1.5	M10X1.0	6L	8,5	8	4	14			
8U8LMME12	M14X1.5	M12X1.5	8L	10	12	6	17			
8U10LMME14	M16X1.5	M14X1.5	10L	11	12	7	19			
8U12LMME16	M18X1.5	M16X1.5	12L	12,5	12	9	22			
8U12LMME18	M18X1.5	M18X1.5	12L	12,5	12	10	24			
8U12LMME22	M18X1.5	M22X1.5	12L	14	14	14	27			
8U15LMME18	M22X1.5	M18X1.5	15L	13,5	12	11	24			
8U15LMME22	M22X1.5	M22X1.5	15L	15	14	12	27			
8U18LMME22	M26X1.5	M22X1.5	18L	14,5	14	14	27			
8U22LMME26	M30X2	M26X1.5	22L	16,5	16	18	32			
8U22LMME33	M30X2	M33X2.0	22L	17,5	18	23	41			
8U28LMME33	M36X2	M33X2.0	28L	17,5	18	23	41			
8U6SMME12	M14X1.5	M12X1.5	6S	13	12	4	17			
8U8SMME14	M16X1.5	M14X1.5	8S	15	12	5	19			
8U10SMME16	M18X1.5	M16X1.5	10S	15	12	7	22			
8U12SMME18	M20X1.5	M18X1.5	12S	17	12	8	24			
8U14SMME20	M22X1.5	M20X1.5	14S	19	14	10	27			
8U16SMME22	M24X1.5	M22X1.5	16S	18,5	14	12	27			
8U20SMME27	M30X2	M27X2.0	20S	20,5	16	16	32			
8U25SMME33	M36X2	M33X2.0	25S	23	18	20	41			

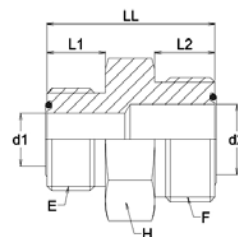
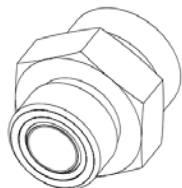
Fittings delivered without union nut or cutting ring.

Straight Adapter Male 24° X Male Farm

S M24D X MFARM

PT211	24D (E)	FARM (F)	TUBE (D1)	L1	L2	d2	H			
8U8LMFA18	M14x1.5	M18x1.5	8L	11	16	8	19			
8U10LMFA18	M16X1.5	M18x1.5	10L	12	16	8	19			
8U12LMFA18	M18X1.5	M18x1.5	12L	12	16	8	19			
8U12LMFA24	M18x1.5	M24x1.5	12L	13	18	13	27			
8U15LMFA18	M22X1.5	M18x1.5	15L	13	16	8	22			
8U13GMFA18	M20X1.5	M18x1.5	13G	11	16	8	22			
8U13GMFA24	M20X1.5	M24x1.5	13G	12	18	13	27			
8U17GMFA18	M24X1.5	M18x1.5	17G	12	16	8	27			
8U17GMFA24	M24X1.5	M24x1.5	17G	12	18	12	27			

Fittings delivered without union nut or cutting ring.

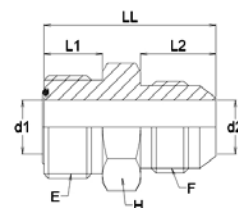
Straight Adapter Male ORFS X Male ORFS



S MORFS X MORFS

PT188	ORFS (E)	ORFS (F)	L1	L2	LL	d1	d2	H		
1FS04001	9/16-18f	9/16-18f	9,8	9,8	27,5	4,5	4,5	17		
1FS04020	9/16-18f	11/16-16f	9,8	11,2	29,7	4,5	6,5	19		
1FS04010	11/16-16f	11/16-16f	11,2	11,2	31,1	6,5	6,5	19		
1FS04040	11/16-16f	13/16-16f	11,2	12,8	33,8	6,5	9,5	22		
1FS04030	13/16-16f	13/16-16f	12,8	12,8	35,4	9,5	9,5	22		
1FS04060	13/16-16f	1"-14f	12,8	15,5	40	9,5	12,5	27		
1FS04050	1"-14f	1"-14f	15,5	15,5	42,5	12,5	12,5	27		
1FS04080	1"-14f	1"3/16-12f	15,5	17	45,5	12,5	15,5	32		
1FS04070	1"3/16-12f	1"3/16-12f	17	17	47,1	15,5	15,5	32		
1FS04100	1"3/16-12f	1"7/16-12f	17	17,5	45,5	15,5	20,5	38		
1FS04090	1"7/16-12f	1"7/16-12f	17,5	17,5	49,3	20,5	20,5	38		
1FS04120	1"7/16-12f	1"11/16-12f	17,5	17,5	51,3	20,5	26	46		
1FS04110	1"11/16-12f	1"11/16-12f	17,5	17,5	51,3	26	26	46		
1FS04140	1"11/16-12f	2"-12f	17,5	17,5	53,1	26	32	55		
1FS04130	2"-12f	2"-12f	17,5	17,5	53	32	32	55		

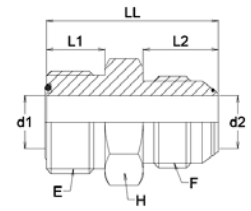
Straight Adapter Male ORFS X Male JIC



S MORFS X MJIC

PT196	ORFS (E)	JIC (F)	L1	L2	LL	d1	d2	H		
1FS68001	9/16-18f	7/16-20f	9,8	14	31,8	4,4	4,4	17		
1FS68008	11/16-16f	1/2-20f	11,2	14	33,9	6	6	19		
1FS68012	11/16-16f	9/16-18f	11,2	14,1	34	6,5	6,5	19		
1FS68016	13/16-16f	3/4-16f	12,8	16,7	39,3	9,5	9,5	22		
1FS68020	1"-14f	7/8-14f	15,5	19,3	46,4	12,3	12,3	27		
1FS68024	1"3/16-12f	1"1/16-12f	17	21,9	52	15,5	15,5	32		
1FS68028	1"7/16-12f	1"5/16-12f	17,5	23,1	54,9	20,5	20,5	41		
1FS68032	1"11/16-12f	1"5/8-12f	17,5	24,3	58,1	26	26	46		
1FS68036	2"-12f	1"7/8-12f	17,5	27,5	63,1	32	32	55		

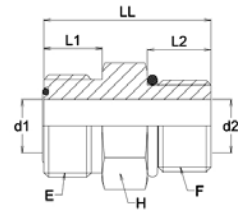
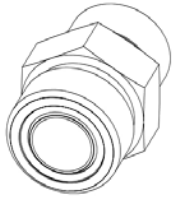
Straight Adapter Male ORFS X Male JIC + O-Ring



S MORFS X MJIC +OR

PT424	ORFS (E)	JIC (F)	L1	L2	LL	d1	d2	H		
1FS68016.JO	13/16-16f	3/4-16f	12,8	16,7	39,3	9,5	9,5	22		
1FS68020.JO	1"-14f	7/8-14f	15,5	19,3	46,4	12,3	12,3	27		
1FS68024.JO	1"3/16-12f	1"1/16-12f	17	21,9	52	15,5	15,5	32		
1FS68028.JO	1"7/16-12f	1"5/16-12f	17,5	23,1	54,9	20,5	20,5	41		
1FS68032.JO	1"11/16-12f	1"5/8-12f	17,5	24,5	54,5	26	27	46		
1FS68036.JO	2"-12f	1"7/8-12f	17,5	27,5	60	32	33	55		

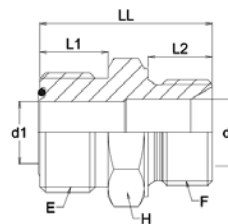
Straight Adapter Male ORFS X Male SAE + O-Ring



S MORFS X MSAE +OR

PT195	ORFS (E)	SAE (F)	L1	L2	LL	d1	d2	H		
1FS06001	9/16-18f	7/16-20f	9,8	11	28,8	4,5	4,5	17		
1FS06005	9/16-18f	1/2-20f	9,8	11	28,8	4,5	6	17		
1FS06010	9/16-18f	9/16-18f	9,8	12	29,5	4,5	6,5	17		
1FS06012	9/16-18f	3/4-16f	9,8	14	33,6	4,5	9,5	22		
1FS06014	9/16-18f	7/8-14f	9,8	16	37,3	4,5	12	27		
1FS06015	11/16-16f	7/16-20f	11,2	11	34,1	6,5	4,5	19		
1FS06017	11/16-16f	1/2-20f	11,2	11	30,8	6,5	6,5	19		
1FS06020	11/16-16f	9/16-18f	11,2	12	31,9	6,5	6,5	19		
1FS06030	11/16-16f	3/4-16f	11,2	14	35,1	6,5	9,5	22		
1FS06032	11/16-16f	7/8-14f	11,2	16	38,5	6,7	12,3	27		
1FS06034	11/16-16f	1"1/16-12f	11,2	18,5	42,8	6,5	15,5	32		
1FS06036	11/16-16f	1"5/16-12f	11,2	18,5	44	6,5	20,5	41		
1FS06040	13/16-16f	9/16-18f	12,8	12	37,5	9,5	6,5	22		
1FS06050	13/16-16f	3/4-16f	12,8	14	36,6	9,5	9,5	22		
1FS06060	13/16-16f	7/8-14f	12,8	16	40,5	9,5	11,8	27		
1FS06062	13/16-16f	1"1/16-12f	12,8	15,1	36,9	9,5	15,5	32		
1FS06064	13/16-16f	1"3/16-12f	12,8	18,5	45,3	9,5	18	36		
1FS06066	13/16-16f	1"5/16-12f	12,8	18,5	45,6	9,5	20,5	41		
1FS06070	1"-14f	3/4-16f	15,5	14	45,2	12,5	9,5	27		
1FS06080	1"-14f	7/8-14f	15,5	16	43,1	12,5	12,5	27		
1FS06090	1"-14f	1"1/16-12f	15,5	18,5	47,1	12,5	15,5	32		
1FS06092	1"-14f	1"3/16-12f	15,5	18,5	48	12,5	18	36		
1FS06096	1"3/16-12f	9/16-18f	17	12	45	15,5	7,5	32		
1FS06098	1"3/16-12f	3/4-16f	17	14	48,5	15,5	9,9	32		
1FS06099	1"3/16-12f	7/8-14f	17	16	50,5	15,5	12,5	32		
1FS06100	1"3/16-12f	1"1/16-12f	17	18,5	48,6	15,5	15,5	32		
1FS06102	1"3/16-12f	1"3/16-12f	17	18,5	49	15,5	18	36		
1FS06110	1"3/16-12f	1"5/16-12f	17	18,5	48,5	15,5	20,5	38		
1FS06116	1"7/16-12f	3/4-16f	17,5	14	49,8	20,5	9,5	41		
1FS06118	1"7/16-12f	7/8-14f	17,5	16	51,8	20,5	12,3	41		
1FS06120	1"7/16-12f	1"1/16-12f	17,5	18,5	54,3	20,5	15,5	41		
1FS06122	1"7/16-12f	1"3/16-12f	17,5	18,5	54,3	20,5	18	41		
1FS06130	1"7/16-12f	1"5/16-12f	17,5	18,5	50,3	20,5	20,5	38		
1FS06140	1"7/16-12f	1"5/8-12f	17,5	18,5	52,3	20,5	26	50		
1FS06148	1"11/16-12f	1"5/16-12f	17,5	18,5	52	26	20,5	46		
1FS06150	1"11/16-12f	1"5/8-12f	17,5	18,5	52,3	26	26	50		
1FS06152	1"11/16-12f	1"7/8-12f	17,5	18,5	54,1	26	32	55		
1FS06158	2"-12f	1"5/8-12f	17,5	18,5	54,1	32	26	55		
1FS06160	2"-12f	1"7/8-12f	17,5	18,5	54,1	32	32	55		

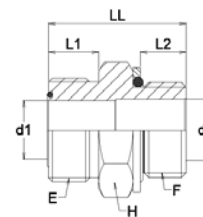
Straight Adapter Male ORFS X Male BSP for bonded seal



S MORFS X MBSPBS

PT191	ORFS (E)	BSP (F)	L1	L2	LL	d1	d2	H		
1FS05000	9/16-18f	G1/8-28f	9,8	8	25,8	4,5	3,5	17		
1FS05001	9/16-18f	G1/4-19f	9,8	11	29,5	4,5	4,5	19		
1FS05009	9/16-18f	G3/8-19f	10	13,5	31,5	4,5	7,9	22		
1FS05018	9/16-18f	G1/2-14f	9,8	14	35,4	4,5	11,1	27		
1FS05002	11/16-16f	G1/8-28f	11,2	8	27,9	6,5	3,5	19		
1FS05004	11/16-16f	G1/4-19f	11,2	12	29,5	6,5	4,7	19		
1FS05008	11/16-16f	G3/8-19f	11,2	13,5	32,7	6,5	6,5	22		
1FS05010	11/16-16f	G1/2-14f	11,2	16	37	6,5	11,1	27		
1FS05006	13/16-16f	G1/4-19f	12,8	12	33	9,5	4,7	22		
1FS05012	13/16-16f	G3/8-19f	12,8	13,5	34,5	9,5	7,9	22		
1FS05016	13/16-16f	G1/2-14f	12,8	16	38,8	9,5	9,5	27		
1FS05023	13/16-16f	G3/4-14f	12,8	18,5	42	9,5	16,7	32		
1FS05014	1"-14f	G3/8-19f	15,5	13,5	39	12,5	7,9	27		
1FS05020	1"-14f	G1/2-14f	15,5	16	41,5	12,5	11,1	27		
1FS05026	1"-14f	G3/4-14f	15,5	16	44,6	12,5	16,7	32		
1FS05029	1"-14f	G1"-11f	15,5	19	48,8	12,5	22,2	41		
1FS05022	1"3/16-12f	G1/2-14f	17	16	44	15,5	11,1	32		
1FS05024	1"3/16-12f	G3/4-14f	17	18,5	46,5	15,5	15,5	32		
1FS05025	1"3/16-12f	G1"-11f	17	20,5	50,5	15,5	22,2	41		
1FS05033	1"3/16-12f	G1"1/4-11f	17	20	53,8	15,5	28,6	50		
1FS05027	1"7/16-12f	G3/4-14f	17,5	16	47,8	20,5	16,7	41		
1FS05028	1"7/16-12f	G1"-11f	17,5	20,5	51	20,5	20,5	41		
1FS05034	1"7/16-12f	G1"1/4-11f	17,5	20,5	53	20,5	28,6	50		
1FS05031	1"11/16-12f	G1"-11f	17,5	19	52,8	26	22,2	46		
1FS05032	1"11/16-12f	G1"1/4-11f	17,5	20,5	53	26	26	50		
1FS05035	1"11/16-12f	G1"1/2-11f	17,5	22	57,6	26	33,3	55		
1FS05036	2"-12f	G1"1/2-11f	17,5	23	55,5	32	32	55		
1FS05038	2"-12f	G1"1/4-11f	17,5	20	55,6	32	28,6	55		

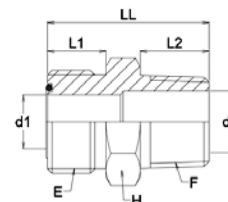
Straight Adapter Male ORFS X Male BSPP + O-Ring + Retaining Ring



S MORFS X MG +OR +RR

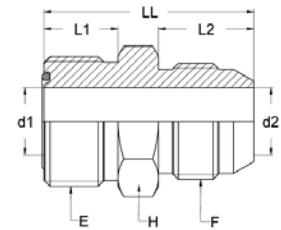
PT192	ORFS (E)	G (F)	L1	L2	LL	d1	d2	H		
1FS07001	9/16-18f	G1/8-28f	9,8	7,6	25,4	4,5	4,5	17		
1FS07004	9/16-18f	G1/4-19f	9,8	11,2	29,7	4,5	4,5	19		
1FS07006	9/16-18f	G3/8-19f	9,8	11,2	30,8	4,5	8	22		
1FS07010	11/16-16f	G1/4-19f	11,2	11,2	31,1	6,5	5	19		
1FS07020	11/16-16f	G3/8-19f	11,2	11,2	32,2	6,5	8	22		
1FS07024	11/16-16f	G1/2-14f	11,2	14,5	38,8	6,5	12	30		
1FS07030	13/16-16f	G3/8-19f	12,8	11,2	33,8	9,5	8	22		
1FS07040	13/16-16f	G1/2-14f	12,8	14,5	40,4	9,8	12	30		
1FS07050	1"-14f	G1/2-14f	15,5	14,5	43,1	12,5	12,5	30		
1FS07060	1"3/16-12f	G3/4-14f	17	14,5	45,5	15,5	15,5	36		
1FS07062	1"3/16-12f	G1"-11f	17,3	15,7	46,8	15,5	20	41		
1FS07070	1"7/16-12f	G1"-11f	17,5	18,6	50,4	20	20	41		
1FS07080	1"11/16-12f	G1"1/4-11f	17,5	18,6	52,4	25	25	50		
1FS07090	2"-12f	G1"1/2-11f	17,5	18,6	54,2	32	32	55		

Straight Adapter Male ORFS X Male BSPT

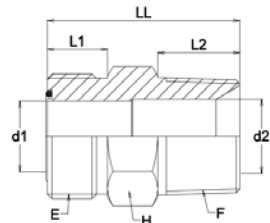
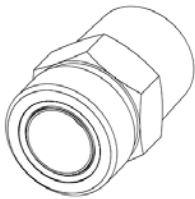


S MORFS X MR

PT194	ORFS (E)	R (F)	L1	L2	LL	d1	d2	H		
1FS66001	9/16-18f	R1/4-19f	9,8	14	31,8	4,5	7	17		
1FS66008	11/16-16f	R3/8-19f	11,2	15	34,9	6,5	10	19		
1FS66012	13/16-16f	R3/8-19f	12,8	15	37,6	9,5	9,5	22		
1FS66016	13/16-16f	R1/2-14f	12,8	19	41,6	9,5	13	22		
1FS66020	1"-14f	R1/2-14f	15,5	19	46,1	12,5	12,5	27		
1FS66022	1"-14f	R3/4-14f	15,5	20	47,1	12,5	18	27		
1FS66024	1"3/16-12f	R3/4-14f	17	20	50,1	15,5	18	32		
1FS66026	1"3/16-12f	R1"-11f	17	24	55	15,5	24	36		
1FS66027	1"7/16-12f	R3/4-14f	17,5	20	51,8	20,5	18	41		
1FS66028	1"7/16-12f	R1"-11f	17,5	24	55,8	20,5	24	41		
1FS66032	1"11/16-12f	R1"1/4-11f	17,5	25	58,8	26	31	46		
1FS66036	2"-12f	R1"1/2-11f	17,5	25	60,6	32	38	55		

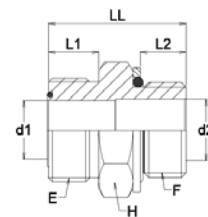
Straight Adapter Male ORFS X Male JIS

S MORFS X MJIS

PT480	ORFS (E)	JIS (F)	L1	L2	LL	d1	d2	H		
1FS68050	9/16-18f	G1/4-19f	9,8	16	33,8	4,5	4,5	17		
1FS68055	11/16-16f	G3/8-19f	11	18	37,9	6,5	6,5	19		
1FS68060	13/16-16f	G1/2-14f	12,8	20	42,6	9,5	9,5	22		
1FS68065	1"-14f	G3/4-14f	15,5	22	49,1	12,5	16	30		
1FS68067	1"3/16-12f	G3/4-14f	17	22	52,1	15,5	15,5	32		
1FS68070	1"7/16-12f	G1"-11f	17,5	24	55,8	20,5	20,5	41		

Straight Adapter Male ORFS x Male NPT

S MORFS x MNPT

PT193	ORFS (E)	NPT (F)	L1	L2	LL	d1	d2	H		
1FS11000	9/16-18f	1/8-27f	9,8	9,7	27,5	4,5	4,5	17		
1FS11001	9/16-18f	1/4-18f	9,8	14,2	32	4,5	6	17		
1FS11002	9/16-18f	3/8-18f	9,8	14,2	32,7	4,5	9	19		
1FS11003	9/16-18f	1/2-14f	9,8	19	38,6	4,5	12	22		
1FS11005	11/16-16f	1/8-27f	11,2	9,7	29,6	6,5	4,5	19		
1FS11004	11/16-16f	1/4-18f	11,2	14,2	34,1	6,5	6,5	19		
1FS11008	11/16-16f	3/8-18f	11,2	14,2	34,1	6,5	9	19		
1FS11006	11/16-16f	1/2-14f	11,2	19	40	6,5	12	22		
1FS11010	13/16-16f	1/4-18f	12,8	15	36	9,5	6	22		
1FS11012	13/16-16f	3/8-18f	12,8	14,2	36,8	9,5	9,5	22		
1FS11016	13/16-16f	1/2-14f	12,8	19	42	9,5	12	22		
1FS11018	13/16-16f	3/4-14f	12,8	19	43,4	9,5	16,5	27		
1FS11020	1"-14f	1/2-14f	15,5	19	46,1	12,5	12,5	27		
1FS11021	1"-14f	3/4-14f	15,5	19	46,1	12,5	16,5	27		
1FS11022	1"-14f	1"-11,5f	15,5	23,9	53,4	12,5	21,5	36		
1FS11026	1"3/16-12f	1/2-14f	17	19,5	46,6	15,5	12	32		
1FS11024	1"3/16-12f	3/4-14f	17	19	49,1	15,5	15,5	32		
1FS11025	1"3/16-12f	1"-11,5f	17	23,9	54,9	15,5	21,5	36		
1FS11030	1"7/16-12f	3/4-14f	17,5	19	50,8	20,5	16,5	41		
1FS11028	1"7/16-12f	1"-11,5f	17,5	23,9	55,7	20,5	20,5	41		
1FS11031	1"7/16-12f	1"1/4-11,5f	17,5	24,6	58,4	20,5	28,5	46		
1FS11033	1"11/16-12f	1"-11,5f	17,5	23,9	57,7	26	21,5	46		
1FS11032	1"11/16-12f	1"1/4-11,5f	17,5	24,6	58,4	26	26	46		
1FS11036	2"-12f	1"1/2-11,5f	17,5	25,4	61	32	32	55		

Straight Adapter Male ORFS X Male ISO + O-Ring + Retaining Ring

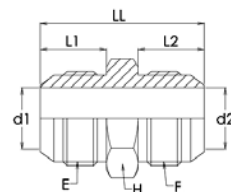
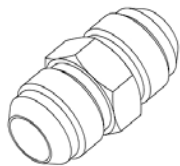


S MORFS X MISO +OR +RR

PT183	ORFS (E)	ISO (F)	L1	L2	LL	d1	d2	H		
1FS08001	9/16-18f	M12x1.5	9,8	11	28,5	4	4	17		
1FS08005	9/16-18f	M14x1.5	9,8	11	29,3	4,5	6	19		
1FS09005	9/16-18f	M14x1.5 (2)	9,8	12	30,5	4,5	6	19		
1FS08009	11/16-16f	M14x1.5	11,2	11	32	6	6	19		
1FS08010	11/16-16f	M16x1.5	11,2	12,5	33,5	6,5	6,5	22		
1FS08020	13/16-16f	M18x1.5	12,8	14	38	9	9	24		
1FS09020	13/16-16f	M18x1.5 (1)	13,5	11,5	36	9,5	11	23		
1FS08025	13/16-16f	M22x1.5	12,8	15	39,3	9,5	12	27		
1FS08030	1"-14f	M22x1.5	15,5	15	42	12	12	27		
1FS09030	1"-14f	M22x1.5 (2)	15,5	14	41,1	12,5	14,1	27		
1FS08035	1"-14f	M27x2	15,5	18,5	47	12,5	15	32		
1FS08040	1"3/16-12f	M27x2	17	18,5	48,5	15	15	32		
1FS08050	1"7/16-12f	M33x2	17,5	18,5	52	20	20	41		
1FS08060	1"11/16-12f	M42x2	17,5	19	54,5	26	26	50		
1FS08070	2"-12f	M48x2	17,5	21,5	57	32	32	55		

(1) Male DIN. (2) Male DIN BS.

Straight Adapter Male JIC X Male JIC

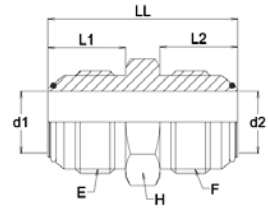
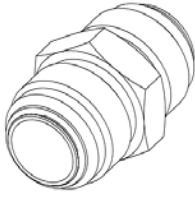


S MJIC X MJIC

PT100	JIC (E)	JIC (F)	L1	L2	LL	d1	d2	H		
1CC11050	3/8-24f	3/8-24f	12.2	12.2	31.2	3.2	3.2	11		
1CC12040	7/16-20f	5/16-24f	14	11.4	32.3	4.4	1.6	12		
1CC12050	7/16-20f	3/8-24f	14	12.2	33	4.4	3.2	12		
1CC12060	7/16-20f	7/16-20f	14	14	34.8	4.4	4.4	12		
1CC14070	7/16-20f	1/2-20f	14	14	34.8	4.4	6	14		
1CC14080	1/2-20f	1/2-20f	14	14	34.8	6	6	14		
1CC16090	9/16-18f	7/16-20f	14.1	14	35.5	7.5	4.4	17		
1CC16080	9/16-18f	1/2-20f	14.1	14	35.5	7.5	6	17		
1CC16110	9/16-18f	9/16-18f	14.1	14.1	35.8	7.5	7.5	17		
1CC19120	9/16-18f	3/4-16f	14.1	16.7	38.6	7.5	9.9	19		
1CC19096	3/4-16f	7/16-20f	16.7	14	38.3	9.9	4.4	19		
1CC19130	3/4-16f	1/2-20f	16.7	14	38.3	9.9	6	19		
1CC19140	3/4-16f	3/4-16f	16.7	16.7	41.1	9.9	9.9	19		
1CC22110	3/4-16f	3/4-16f	16.7	16.7	41.1	9.9	9.9	22		
1CC24128	7/8-14f	1/2-20f	19.3	14	42.5	12.3	6	24		
1CC24130	7/8-14f	9/16-18f	19.3	14.1	42.7	12.3	7.5	24		
1CC22150	7/8-14f	3/4-16f	19.3	16.7	45.3	12.3	9.9	24		
1CC22160	7/8-14f	7/8-14f	19.3	19.3	47.8	12.3	12.3	24		
1CC27170	1"1/16-12f	3/4-16f	21.9	16.7	49.6	15.5	9.9	27		
1CC27180	1"1/16-12f	7/8-14f	21.9	19.3	52.1	15.5	12.3	27		
1CC27190	1"1/16-12f	1"1/16-12f	21.9	21.9	54.9	15.5	15.5	27		
1CC32195	1"3/16-12f	1"1/16-12f	22.6	21.9	55.3	18	15.5	32		
1CC32200	1"3/16-12f	1"3/16-12f	22.6	22.6	56.1	18	18	32		
1CC34186	1"5/16-12f	3/4-16f	23.1	16.7	50.8	21.5	9.9	36		
1CC34190	1"5/16-12f	7/8-14f	23.1	19.3	53.4	21.5	12.3	36		
1CC34200	1"5/16-12f	1"1/16-12f	23.1	21.9	55.9	21.5	15.5	36		
1CC34210	1"5/16-12f	1"5/16-12f	23.1	23.1	57.2	21.5	21.5	36		
1CC42215	1"5/8-12f	1"5/16-12f	24.3	23.1	60.4	27.5	21.5	46		
1CC42220	1"5/8-12f	1"5/8-12f	24.3	24.3	61.7	27.5	27.5	46		
1CC46210	1"5/8-12f	1"1/16-12f	24.3	21.9	59.4	27.5	15.5	46		
1CC50223	1"7/8-12f	1"5/16-12f	27.5	23.1	65.5	33	21.5	50		
1CC50225	1"7/8-12f	1"5/8-12f	27.5	24.3	66.5	33	27.5	50		
1CC50230	1"7/8-12f	1"7/8-12f	27.5	27.5	69.8	33	33	50		
1CC65240	2"1/2-12f	2"1/2-12f	33.9	33.9	86.4	45	45	65		
1CC77250	3"-12f	3"-12f	39	39	98	58	58	77		
1CC90260	3"1/2-12f	3"1/2-12f	45	45	120	70	70	90		

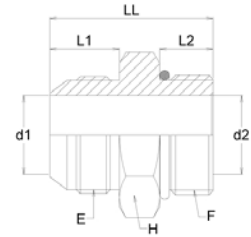
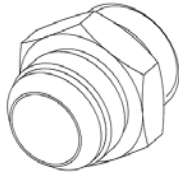
EN-Pression majorée avec femelle JIC

Straight Adapter Male JIC + O-Ring X Male JIC + O-Ring



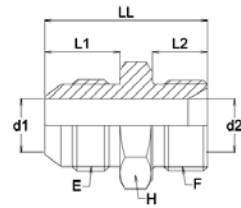
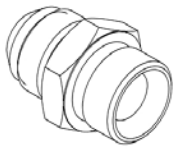
S MJIC +OR X MJIC +OR

PT429	JIC (E)	JIC (F)	L1	L2	LL	d1	d2	H		
1CC22160.JO	7/8-14f	7/8-14f	19,3	19,3	47,8	12,3	12,3	24		
1CC27190.JO	1"1/16-12f	1"1/16-12f	21,9	21,9	54,9	15,5	15,5	27		
1CC34210.JO	1"5/16-12f	1"5/16-12f	23,1	23,1	57,2	21,5	21,5	36		
1CC42220.JO	1"5/8-12f	1"5/8-12f	24,3	24,3	61,7	27,5	27,5	46		
1CC50230.JO	1"7/8-12f	1"7/8-12f	27,5	27,5	69,8	33	33	50		

Straight Adapter Male JIC X Male SAE + O-Ring

S MJIC X MSAE +OR

PT104	JIC (E)	SAE (F)	L1	L2	LL	d1	d2	H		
1CE14045	7/16-20f	3/8-24f	14	7,54	29,7	4,4	3,2	12		
1CE14050	7/16-20f	7/16-20f	14	9,14	31,2	4,4	4,4	14		
1CE17050	7/16-20f	1/2-20f	14	9,14	31,2	4,4	6	17		
1CE17060	7/16-20f	9/16-18f	14	9,93	32,7	4,4	7,5	17		
1CE23065	7/16-20f	3/4-16f	14	11,13	34,8	4,4	9,9	22		
1CE14055	1/2-20f	7/16-20f	14	9,14	31,2	6	4,4	14		
1CE17070	1/2-20f	1/2-20f	14	9,14	31,2	6	6	17		
1CE19080	1/2-20f	9/16-18f	14	9,93	32,7	6	7,5	17		
1CE23100	1/2-20f	3/4-16f	14	11,13	34,8	6	9,9	22		
1CE16060	9/16-18f	7/16-20f	14,1	9,14	32,2	7,5	4,4	17		
1CE17075	9/16-18f	1/2-20f	14,1	9,14	32,2	7,5	6	17		
1CE19090	9/16-18f	9/16-18f	14,1	9,93	33	7,5	7,5	17		
1CE22105	9/16-18f	3/4-16f	14,1	11,13	35,1	7,5	9,9	22		
1CE24110	9/16-18f	7/8-14f	14,1	12,7	38,1	7,5	12,3	27		
1CE32125	9/16-18f	1"1/16-12f	14,1	15,09	42,1	7,5	15,5	32		
1CE19100	3/4-16f	9/16-18f	16,7	9,93	36,6	9,9	7,5	19		
1CE22110	3/4-16f	3/4-16f	16,7	11,13	37,6	9,9	9,9	22		
1CE24120	3/4-16f	7/8-14f	16,7	12,7	40,7	9,9	12,3	27		
1CE32140	3/4-16f	1"1/16-12f	16,7	15,09	44,7	9,9	15,5	32		
1CE24200	7/8-14f	3/4-16f	19,3	11,13	41,7	12,3	9,9	24		
1CE27130	7/8-14f	7/8-14f	19,3	12,7	43,2	12,3	12,3	27		
1CE32130	7/8-14f	1"1/16-12f	19,3	15,09	47,2	12,3	15,5	32		
1CE32153	7/8-14f	1"5/16-12f	19,3	15,09	48	12,3	21,5	41		
1CE27200	1"1/16-12f	3/4-16f	21,9	11,13	49,2	15,5	9,9	27		
1CE27210	1"1/16-12f	7/8-14f	21,9	12,7	47,7	15,5	12,3	27		
1CE32150	1"1/16-12f	1"1/16-12f	21,9	15,09	50	15,5	15,5	32		
1CE32152	1"1/16-12f	1"3/16-12f	21,9	15,09	49,7	15,5	18	36		
1CE32155	1"1/16-12f	1"5/16-12f	21,9	15,09	50,5	15,5	21,5	41		
1CE32160	1"3/16-12f	1"3/16-12f	22,6	15,09	50,5	18	18	36		
1CE41155	1"3/16-12f	1"5/16-12f	22,6	15,19	51,3	18	21,5	41		
1CE34145	1"5/16-12f	7/8-14f	23,1	12,7	52,6	21,5	12,3	36		
1CE34150	1"5/16-12f	1"1/16-12f	23,1	15,09	51,8	21,5	15,5	36		
1CE41160	1"5/16-12f	1"5/16-12f	23,1	15,09	51,8	21,5	21,5	41		
1CE50090	1"5/16-12f	1"5/8-12f	23,1	15,09	53,8	21,5	27,5	50		
1CE42170	1"5/8-12f	1"5/16-12f	24,3	15,09	59,2	27,5	21,5	46		
1CE50100	1"5/8-12f	1"5/8-12f	24,3	15,09	55,1	27,5	27,5	50		
1CE54180	1"5/8-12f	1"7/8-12f	24,3	15,09	56,9	27,5	33	55		
1CE50165	1"7/8-12f	1"5/16-12f	27,5	15,09	64,3	33	21,5	50		
1CE50170	1"7/8-12f	1"5/8-12f	27,5	15,09	64,3	33	27,5	50		
1CE54190	1"7/8-12f	1"7/8-12f	27,5	15,09	60,2	33	33	55		
1CE71230	2"1/2-12f	2"1/2-12f	33,9	15,09	70,6	45	45	70		

Straight Adapter Male JIC X Male BSP for bonded seal



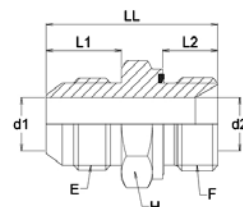
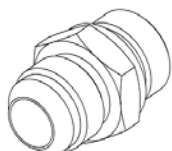
S MJIC X MBSPBS

PT147	JIC (E)	BSPBS (F)	L1	L2	LL	d1	d2	H		
1AT17080	3/8-24f	G1/4-19f	12.2	11	32	3,2	4,7	19		
1AT14050	7/16-20f	G1/8-28f	14	8	30	4,4	3,5	14		
1AT17050	7/16-20f	G1/4-19f	14	11	34	4,4	4,4	19		
1AT21060	7/16-20f	G3/8-19f	14	12	35	4,4	7,9	22		
1AT27154	7/16-20f	G1/2-14f	14	14	38	4,4	11,1	27		
1AT14060	1/2-20f	G1/8-28f	14	8	30	6	3,5	14		
1AT14060-1	1/2-20f	G1/8-28f (1)	14	8	29	6	3,5	14		
1AT17090	1/2-20f	G1/4-19f	14	11	34	6	4,7	19		
1AT21070	1/2-20f	G3/8-19f	14	12	35	6	7,9	22		
1AT27155	1/2-20f	G1/2-14f	14	14	38	6	11,1	27		
1AT16065	9/16-18f	G1/8-28f	14.1	8	30	7,5	3,5	17		
1AT17100	9/16-18f	G1/4-19f	14.1	11	34	7,5	4,7	19		
1AT21080	9/16-18f	G3/8-19f	14.1	12	35	7,5	7,5	22		
1AT21080-1	9/16-18f	G3/8-19f (1)	14	12	33	7,5	7,5	17		
1AT27156	9/16-18f	G1/2-14f	14.1	14	38	7,5	11,1	27		
1AT27156-1	9/16-18f	G1/2-14f (1)	14.1	14	36	7,5	11,1	21		
1AT32205	9/16-18f	G3/4-14f	14.1	16	40	7,5	16,7	32		
1AT19110	3/4-16f	G1/4-19f	16.7	11	35,5	9,9	4,7	19		
1AT19110-1	3/4-16f	G1/4-19f (1)	16.7	11	35,5	9,9	4,7	19		
1AT21130	3/4-16f	G3/8-19f	16.7	12	37,5	9,9	7,9	22		
1AT27160	3/4-16f	G1/2-14f	16.7	14	40,5	9,9	9,9	27		
1AT29196	3/4-16f	G5/8-14f	16.7	16	42,5	9,9	14,3	30		
1AT32210-1	3/4-16f	G3/4-14f (1)	16.7	16	41,5	9,9	16,7	27		
1AT32210	3/4-16f	G3/4-14f	16.7	16	42,5	9,9	16,7	32		
1AT22070	7/8-14f	G1/8-28f	19.3	8	37	12,3	3,5	24		
1AT22080	7/8-14f	G1/4-19f	19.3	11	40,5	12,3	4,7	24		
1AT22140	7/8-14f	G3/8-19f	19.3	12	40,5	12,3	7,9	24		
1AT27170	7/8-14f	G1/2-14f	19.3	14	43,5	12,3	11,1	27		
1AT29190	7/8-14f	G5/8-14f	19.3	16	45,5	12,3	14,3	30		
1AT32220	7/8-14f	G3/4-14f	19.3	16	45,5	12,3	16,7	32		
1AT32220-1	7/8-14f	G3/4-14f (1)	19.3	16	44,5	12,3	16,7	27		
1AT42238	7/8-14f	G1"-11f	19.3	19	49,5	12,3	22,2	41		
1AT27150	1"1/16-12f	G3/8-19f	21.9	12	44	15,5	7,9	27		
1AT27180	1"1/16-12f	G1/2-14f	21.9	14	46	15,5	11,1	27		
1AT29200	1"1/16-12f	G5/8-14f	21.9	16	48	15,5	14,3	30		
1AT32230	1"1/16-12f	G3/4-14f	21.9	16	48	15,5	15,5	32		
1AT42250	1"1/16-12f	G1"-11f	21.9	19	52	15,5	22,2	41		
1AT34250-1	1"1/16-12f	G1"-11f (1)	21.9	19	51	15,5	22,2	34		
1AT50268	1"1/16-12f	G1"1/4-11f	21.9	20	55	15,5	28,6	50		
1AT30180	1"3/16-12f	G1/2-14f	22.6	14	46,5	18	11,1	32		
1AT32235	1"3/16-12f	G3/4-14f	22.6	16	48,5	18	16,7	32		
1AT42255	1"3/16-12f	G1"-11f	22.6	19	52,5	18	22,2	41		
1AT42206	1"5/16-12f	G5/8-14f	23.1	16	52	21,5	14,3	36		
1AT34240	1"5/16-12f	G3/4-14f	23.1	16	50	21,5	16,7	36		
1AT42256	1"5/16-12f	G1"-11f	23.1	19	53	21,5	21,5	41		
1AT42256-1	1"5/16-12f	G1"-11f (1)	23.1	19	52	21,5	21,5	36		
1AT50270	1"5/16-12f	G1"1/4-11f	23.1	20	56	21,5	28,6	50		
1AT54284	1"5/16-12f	G1"1/2-11f	23.1	22	61	21,5	33,3	55		
1AT42245	1"5/8-12f	G3/4-14f	24.3	16	55,5	27,5	16,7	46		
1AT42260	1"5/8-12f	G1"-11f	24.3	19	56,5	27,5	22,2	46		

1AT50275	1"5/8-12f	G1"1/4-11f	24.3	20	57.5	27.5	27.5	50		
1AT54285	1"5/8-12f	G1"1/2-11f	24.3	22	62.5	27.5	33.3	55		
1AT50280	1"7/8-12f	G1"1/4-11f	27.5	20	60.5	33	28.6	50		
1AT54290	1"7/8-12f	G1"1/2-11f	27.5	22	65.5	33	33	55		
1AT71310	1"7/8-12f	G2"-11f	27.5	25	71.5	33	46	70		
1AT65300	2"1/2-12f	G1"1/2-11f	33.9	22	72	45	33.3	65		
1AT71320	2"1/2-12f	G2"-11f	33.9	25	78	45	45	70		

(1) Without alignment on BSP side for BS ring and copper ring.

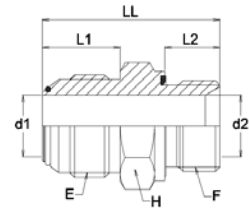
Straight Adapter Male JIC X Male BSP Form E



S MJIC X MBSPE

PT112	JIC (E)	BSPE (F)	L1	L2	LL	d1	d2	H		
1AU17050	7/16-20f	G1/8-28f	14	8	29,5	4,4	4,4	14		
1AU19070	7/16-20f	G1/4-19f	14	12	34	4,4	4,4	19		
1AU22090	7/16-20f	G3/8-19f	14	12	34,5	4,4	7,9	22		
1AU19080	1/2-20f	G1/4-19f	14	12	34	6	4,7	19		
1AU17060	9/16-18f	G1/8-28f	14.1	8	29,5	7,5	3,5	17		
1AU19090	9/16-18f	G1/4-19f	14.1	12	34	7,5	4,7	19		
1AU22095	9/16-18f	G3/8-19f	14.1	12	37	7,5	7,5	22		
1AU27095	9/16-18f	G1/2-14f	14.1	14	41	7,5	11,1	27		
1AU19105	3/4-16f	G1/4-19f	16.7	12	39	9,9	4,7	19		
1AU22110	3/4-16f	G3/8-19f	16.7	12	39	9,9	7,9	22		
1AU27100	3/4-16f	G1/2-14f	16.7	14	43,5	9,9	9,9	27		
1AU32115	3/4-16f	G3/4-14f	16.7	16	45	9,9	16,7	32		
1AU24120	7/8-14f	G3/8-19f	19.3	12	42	12,3	7,9	24		
1AU27125	7/8-14f	G1/2-14f	19.3	14	46,5	11,1	11,1	27		
1AU32130	7/8-14f	G3/4-14f	19.3	16	47,5	12,3	16,7	32		
1AU32135	1"1/16-12f	G1/2-14f	21.9	14	48,5	15,5	11,1	30		
1AU32140	1"1/16-12f	G3/4-14f	21.9	16	50	15,5	15,5	32		
1AU41140	1"1/16-12f	G1"-11f	21.9	18	56	15,5	22,2	41		
1AU50150	1"1/16-12f	G1"1/4-11f	21.9	20	57	15,5	28,6	50		
1AU32145	1"3/16-12f	G3/4-14f	22.6	16	52.2	18	18	32		
1AU41145	1"5/16-12f	G3/4-14f	23.1	16	53	21,5	16,7	36		
1AU41150	1"5/16-12f	G1"-11f	23.1	18	54.7	21,5	21,5	41		
1AU50145	1"5/16-12f	G1"1/4-11f	23.1	20	61	21,5	28,6	50		
1AU41155	1"5/8-12f	G1"-11f	24.3	18	58	27,5	22,2	46		
1AU50152	1"5/8-12f	G1"1/4-11f	24.3	20	62	27,5	27,5	50		
1AU55160	1"5/8-12f	G1"1/2-11f	24.3	22	64	27,5	33,3	55		
1AU55170	1"7/8-12f	G1"1/2-11f	27.5	22	67,5	33	33	55		

Straight Adapter Male JIC + O-Ring X Male BSP Form E

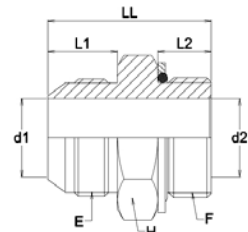
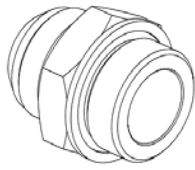


S MJIC +OR X MBSPE

PT142	JIC (E)	BSPE (F)	L1	L2	LL	d1	d2	H		
1AU19105.JO	3/4-16f	G1/4-19f	16,7	12	38,5	9,9	6	19		
1AU22110.JO	3/4-16f	G3/8-19f	16,7	12	38,5	9	9	22		
1AU27100.JO	3/4-16f	G1/2-14f	16,7	14	39,7	9,9	12,3	27		
1AU32115.JO	3/4-16f	G3/4-14f	17	16	45	9,9	16,7	32		
1AU24120.JO	7/8-14f	G3/8-19f	19,3	12,5	41,5	12	9	24		
1AU27125.JO	7/8-14f	G1/2-14f	19,3	14	44,5	12,3	12,3	27		
1AU32130.JO	7/8-14f	G3/4-14f	19,3	16	48,3	12,3	18	32		
1AU32135.JO	1"1/16-12f	G1/2-14f	21,9	14	48,5	15,5	12,5	30		
1AU32140.JO	1"1/16-12f	G3/4-14f	21,9	16	50,9	15,5	18	32		
1AU41140.JO	1"1/16-12f	G1"-11f	21,9	18	49,9	15,5	21,5	41		
1AU50150.JO	1"1/16-12f	G1"1/4-11f	21,9	20	57,6	15,5	30	50		
1AU41145.JO	1"5/16-12f	G3/4-14f	23,1	16	52,7	21,5	18	36		
1AU41150.JO	1"5/16-12f	G1"-11f	23,1	18	54,7	21,5	21,5	41		
1AU50145.JO	1"5/16-12f	G1"1/4-11f	23,1	20	58,1	21,5	28,6	50		
1AU41155.JO	1"5/8-12f	G1"-11f	24,3	18	58	27,5	23	46		
1AU50152.JO	1"5/8-12f	G1"1/4-11f	24,3	20	60	27,5	30	50		
1AU55160.JO	1"5/8-12f	G1"1/2-11f	24,3	22	64,3	27,5	33,3	55		
1AU55165.JO	1"7/8-12f	G1"1/4-11f	27,5	20	65,1	33	30	50		
1AU55170.JO	1"7/8-12f	G1"1/2-11f	27,5	22	67,5	33	33	55		

EN-Pression majorée avec cône BSP

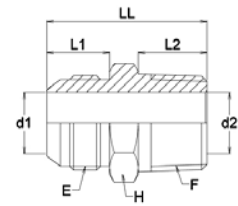
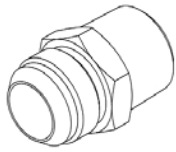
Straight Adapter Male JIC X Male BSPP + O-Ring + Retaining Ring



S MJIC X MG +OR +RR

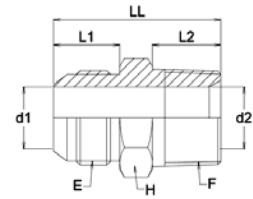
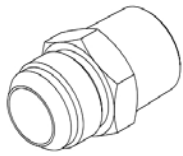
PT110	JIC (E)	G (F)	L1	L2	LL	d1	d2	H		
1CJ16010	7/16-20f	G1/8-28f	14	7,6	29	4,4	4,4	14		
1CJ19020	7/16-20f	G1/4-19f	14	11,2	31,7	4,4	7,5	19		
1CJ22030	7/16-20f	G3/8-19f	14	11,2	33,2	4,4	9,9	22		
1CJ27060	7/16-20f	G1/2-14f	14	14,5	38,7	4,4	12,3	30		
1CJ19050	1/2-20f	G1/4-19f	14	11,2	32	6	6	19		
1CJ22060	1/2-20f	G3/8-19f	14	11,2	33,2	6	9,9	22		
1CJ19070	9/16-18f	G1/4-19f	14,1	11,2	32	7,5	7,5	19		
1CJ22080	9/16-18f	G3/8-19f	14,1	11,2	33,5	7,5	9,9	22		
1CJ30185	9/16-18f	G1/2-14f	14,1	14,5	38,9	7,5	12,3	30		
1CJ30187	9/16-18f	G5/8-14f	14,1	14,5	38,9	7,5	14	32		
1CJ21090	3/4-16f	G1/4-19f	16,7	11,2	36	9,9	7,5	19		
1CJ22110	3/4-16f	G3/8-19f	16,7	11,2	36	9,9	9,9	22		
1CJ30120	3/4-16f	G1/2-14f	16,7	14,5	41,5	9,9	9,9	30		
1CJ30260	3/4-16f	G5/8-14f	16,7	14,5	41,5	9,9	14	32		
1CJ32130	3/4-16f	G3/4-14f	16,7	14,5	42,2	9,9	15,5	36		
1CJ24160	7/8-14f	G3/8-19f	19,3	11,2	40,7	12,3	9,9	24		
1CJ30190	7/8-14f	G1/2-14f	19,3	14,5	44	12,3	12,3	30		
1CJ36200	7/8-14f	G3/4-14f	19,3	14,5	44,7	12,3	15,5	36		
1CJ27230	1"1/16-12f	G3/8-19f	21,9	11,2	44,2	15,5	9,9	27		
1CJ30250	1"1/16-12f	G1/2-14f	21,9	14,5	47,5	15,5	12,3	30		
1CJ36280	1"1/16-12f	G3/4-14f	21,9	14,5	47,5	15,5	15,5	36		
1CJ46300	1"1/16-12f	G1"-11f	21,9	18,6	52,2	15,5	21,5	46		
1CJ36310	1"5/16-12f	G3/4-14f	23,1	14,5	49,4	21,5	15,5	36		
1CJ46320	1"5/16-12f	G1"-11f	23,1	18,6	53,5	21,5	21,5	46		
1CJ50370	1"5/16-12f	G1"1/4-11f	23,1	18,6	55,7	21,5	27,5	50		
1CJ54340	1"5/16-12f	G1"1/2-11f	23,1	18,6	56,7	21,5	33	55		
1CJ46370	1"5/8-12f	G1"-11f	24,3	18,6	57	27,5	21,5	46		
1CJ50380	1"5/8-12f	G1"1/4-11f	24,3	18,6	57	27,5	27,5	50		
1CJ54350	1"5/8-12f	G1"1/2-11f	24,3	18,6	57,8	27,5	33	55		
1CJ50390	1"7/8-12f	G1"-11f	27,5	18,6	61	33	21,5	50		
1CJ50400	1"7/8-12f	G1"1/4-11f	27,5	18,6	61	33	27,5	50		
1CJ54410	1"7/8-12f	G1"1/2-11f	27,5	18,6	61	33	33	55		

Straight Adapter Male JIC X Male BSPT



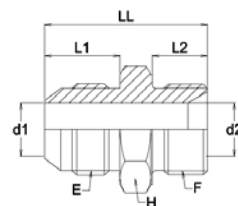
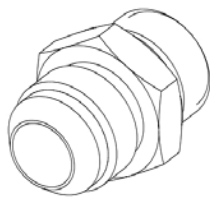
S MJIC X MR

PT115	JIC (E)	R (F)	L1	L2	LL	d1	d2	H		
1CA12050	5/16-24f	R1/8-28f	11.4	10	27,5	1,6	4,5	12		
1CA12100	3/8-24f	R1/8-28f	12.2	10	28	3,2	4,5	12		
1CA14060	3/8-24f	R1/4-19f	12.2	14	33	3,2	7	14		
1CA12060	7/16-20f	R1/8-28f	14	10	30	4,5	4,5	12		
1CA14070	7/16-20f	R1/4-19f	14	14	35	4,4	7	14		
1CA17120	7/16-20f	R3/8-19f	14	15	36	4,4	10	17		
1CA22158	7/16-20f	R1/2-14f	14	19	41	4,4	13	22		
1CA14080	1/2-20f	R1/8-28f	14	10	31	6	4,5	14		
1CA14090	1/2-20f	R1/4-19f	14	14	35	6	7	14		
1CA17130	1/2-20f	R3/8-19f	14	15	36	6	10	17		
1CA14100	9/16-18f	R1/8-28f	14.1	10	31	7,5	4,5	17		
1CA16100	9/16-18f	R1/4-19f	14.1	14	35	7,5	7,5	17		
1CA17140	9/16-18f	R3/8-19f	14.1	15	36	7,5	10	17		
1CA22160	9/16-18f	R1/2-14f	14.1	19	41	7,5	13	22		
1CA27170	9/16-18f	R3/4-14f	14.1	20	43	7,5	18	27		
1CA19110	3/4-16f	R1/4-19f	16.7	14	38,5	9,9	7	19		
1CA19150	3/4-16f	R3/8-19f	16.7	15	39,5	9,9	9,9	19		
1CA22180	3/4-16f	R1/2-14f	16.7	19	43,5	9,9	13	22		
1CA27200	3/4-16f	R3/4-14f	16.7	20	45,5	9,9	18	27		
1CA34205	3/4-16f	R1"-11f	16.7	24	50,5	9,9	24	36		
1CA22190	7/8-14f	R3/8-19f	19.3	15	42,5	12,3	10	24		
1CA22200	7/8-14f	R1/2-14f	19.3	19	46,5	12,3	12,3	24		
1CA24220	7/8-14f	R5/8-14f	19.3	19	46,5	12,3	12,3	24		
1CA27210	7/8-14f	R3/4-14f	19.3	20	48,5	12,3	18	27		
1CA34208	7/8-14f	R1"-11f	19.3	24	53,5	12,3	24	36		
1CA27230	1"1/16-12f	R3/8-19f	21.9	15	46	15,5	10	27		
1CA27240	1"1/16-12f	R1/2-14f	21.9	19	50	15,5	13	27		
1CA27250	1"1/16-12f	R3/4-14f	21.9	20	51	15,5	15,5	27		
1CA34260	1"1/16-12f	R1"-11f	21.9	24	56	15,5	24	36		
1CA45270	1"1/16-12f	R1"1/4-11f	21.9	25	59	15,5	31	46		
1CA32255	1"3/16-12f	R3/4-14f	22.6	20	51,5	18	18	32		
1CA34275	1"5/16-12f	R1/2-14f	23.1	19	52	21,5	13	36		
1CA34280	1"5/16-12f	R3/4-14f	23.1	20	53	21,5	18	36		
1CA34290	1"5/16-12f	R1"-11f	23.1	24	57	21,5	21,5	36		
1CA45310	1"5/16-12f	R1"1/4-11f	23.1	25	60	21,5	31	46		
1CA50325	1"5/16-12f	R1"1/2-11f	23.1	25	60	21,5	38	50		
1CA42270	1"5/8-12f	R3/4-14f	24.3	20	56,5	27,5	18	46		
1CA42300	1"5/8-12f	R1"-11f	24.3	24	60	27,5	24	46		
1CA45320	1"5/8-12f	R1"1/4-11f	24.3	25	61,5	27,5	31	46		
1CA50335	1"7/8-12f	R1"1/4-11f	27.5	25	64,5	33	31	50		
1CA50330	1"5/8-12f	R1"1/2-11f	24.3	25	62	27,5	38	50		
1CA50340	1"7/8-12f	R1"1/2-11f	27.5	25	64,5	33	33	50		
1CA65110	2"1/2-12f	R1"1/2-11f	33.9	25	74	45	38	65		
1CA65350	2"1/2-12f	R2"-11f	33.9	30	79	45	45	65		
1CA77360	3"-12f	R2"1/2-11f	39	36	99	58	58	77		
1CA95380	3"1/2-12f	R3"-11f	45	40	115	70	70	90		

Straight Adapter Male JIC X Male NPT

S MJIC X MNPT

PT109	JIC (E)	NPT (F)	L1	L2	LL	d1	d2	H		
1CB12051	5/16-24f	1/8-27f	11.4	9,7	28,2	1,6	4,5	11		
1CB12060	3/8-24f	1/8-27f	12.2	9,7	29	3,2	4,5	11		
1CB12070	7/16-20f	1/8-27f	14	9,7	31	4,4	4,4	12		
1CB14080	7/16-20f	1/4-18f	14	14,2	36	4,4	6	14		
1CB19130	7/16-20f	3/8-18f	14	14,2	36,1	4,4	9	19		
1CB22180	7/16-20f	1/2-14f	14	19	42,7	4,4	12	22		
1CB14100	1/2-20f	1/8-27f	14	9,7	31	6	4,5	14		
1CB14110	1/2-20f	1/4-18f	14	14,2	36	6	6	14		
1CB19140	1/2-20f	3/8-18f	14	14,2	36,1	6	9	19		
1CB22190	1/2-20f	1/2-14f	14	19	42,7	6	12	22		
1CB16090	9/16-18f	1/8-27f	14.1	9,7	31,5	7,5	4,5	17		
1CB16120	9/16-18f	1/4-18f	14.1	14,2	36,3	7,5	6	17		
1CB19150	9/16-18f	3/8-18f	14.1	14,2	36,4	7,5	9	19		
1CB22200	9/16-18f	1/2-14f	14.1	19	42,9	7,5	12	22		
1CB27220	9/16-18f	3/4-14f	14.1	19	44,4	7,5	16,5	27		
1CB19160	3/4-16f	1/4-18f	16.7	14,2	38,9	9,9	6	19		
1CB19170	3/4-16f	3/8-18f	16.7	14,2	38,9	9,9	9,9	19		
1CB22210	3/4-16f	1/2-14f	16.7	19	45,5	9,9	9,9	22		
1CB27230	3/4-16f	3/4-14f	16.7	19	47	9,9	16,5	27		
1CB22220	7/8-14f	3/8-18f	19.3	14,2	43,2	12,3	9	24		
1CB22230	7/8-14f	1/2-14f	19.3	19	48	12,3	12,3	24		
1CB27240	7/8-14f	3/4-14f	19.3	19	49,5	12,3	16,5	27		
1CB27250	1"1/16-12f	1/2-14f	21.9	19	52,3	15,5	12	27		
1CB27260	1"1/16-12f	3/4-14f	21.9	19	52,3	15,5	15,5	27		
1CB34280	1"1/16-12f	1"-11,5f	21.9	23,9	57,1	15,5	21,5	36		
1CB32270	1"3/16-12f	3/4-14f	22.6	19	53,1	18	16,5	32		
1CB34290	1"5/16-12f	3/4-14f	23.1	19	53,6	21,5	16,5	36		
1CB34300	1"5/16-12f	1"-11,5f	23.1	23,9	58,4	21,5	21,5	36		
1CB45320	1"5/16-12f	1"1/4-11,5f	23.1	24,6	60,9	21,5	28,5	46		
1CB42310	1"5/8-12f	1"-11,5f	24.3	23,9	61,4	27,5	21,5	46		
1CB50345	1"5/8-12f	1"1/2-11,5f	24.3	25,4	64,8	27,5	35	50		
1CB45330	1"5/8-12f	1"1/4-11,5f	24.3	24,6	62,2	27,5	27,5	46		
1CB50315	1"7/8-12f	1"-11,5f	27.5	23,9	66,6	33	21,5	50		
1CB50340	1"7/8-12f	1"1/4-11,5f	27.5	24,6	67,3	33	28,5	50		
1CB50350	1"7/8-12f	1"1/2-11,5f	27.5	25,4	68,1	33	33	50		
1CB65357	1"7/8-12f	2"-11,5f	27.5	26,2	72,6	33	46	65		
1CB65355	2"1/2-12f	1"1/2-11,5f	33.9	25,4	78,2	45	35	65		
1CB65360	2"1/2-12f	2"-11,5f	33.9	26,2	79	45	45	65		
1CB77370	3"-12f	2"1/2-8f	39	38,5	101.5	58	56	80		
1CB90390	3"1/2-12f	3"-8f	45	40	115	70	78.5	90		

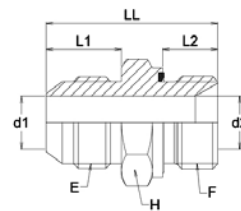
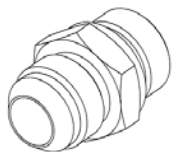
Straight Adapter Male JIC X Male DIN Bonded seal



S MJIC X MDINBS

PT226	JIC (E)	DIN (F)	L1	L2	LL	d1	d2	H		
1BT14050	7/16-20f	M10X1	14	8	29	4,4	3	14		
1BT16059	7/16-20f	M12X1	14	10	33	4,4	4,4	17		
1BT16061	7/16-20f	M12X1.5	14	10	31	4	4	17		
1BT19050	7/16-20f	M14X1.5	14	11	32	4,4	6	19		
1BT21070	7/16-20f	M16X1.5	14	12	36	4,4	8	22		
1BT23090	7/16-20f	M18X1.5	14	12	36,5	4,4	10	24		
1BT16060	9/16-18f	M10X1	14.1	8	30,5	7,5	3	17		
1BT16064	9/16-18f	M12X1.5	14.1	10	31	7,5	4	17		
1BT19060	9/16-18f	M14X1.5	14.1	11	33	7,5	6	19		
1BT21080	9/16-18f	M16X1.5	14.1	12	35	7,5	7,5	22		
1BT23110	9/16-18f	M18X1.5	14.1	12	34	7,5	10	24		
1BT27170	9/16-18f	M22X1.5	14.1	14	40	7,5	14,1	27		
1BT16062	1/2-20f	M12X1.5	14	10	30	6	4	17		
1BT19065	1/2-20f	M14X1.5	14	11	32	6	6	19		
1BT23100	1/2-20f	M18X1.5	14	12	36,5	6	10	24		
1BT21060	3/4-16f	M16X1.5	16.7	12	37,5	9.9	8	22		
1BT21063	3/4-16f	M16X1.5	16.7	11	35.5	9.9	8	19		
1BT23120	3/4-16f	M18X1.5	16.7	12	36.5	10	10	24		
1BT27180	3/4-16f	M22X1.5	16.7	14	41	9.9	14,1	27		
1BT22060	7/8-14f	M16X1.5	19.3	12	41,5	12,3	8	24		
1BT23060	7/8-14f	M18X1.5	19.3	12	42	12,3	10	24		
1BT24060	7/8-14f	M20X1.5	19.3	14	44	12	12	27		
1BT27190	7/8-14f	M22X1.5	19.3	14	43,5	12,3	12,3	27		
1BT27060	1"1/16-12f	M18X1.5	21.9	12	45,5	15,5	10	27		
1BT27070	1"1/16-12f	M20X1.5	21.9	14	47,5	15,5	12	27		
1BT32160	1"1/16-12f	M20X1.5	21.9	14	47,5	15,5	12	27		
1BT27080	1"1/16-12f	M22X1.5	21.9	14	47	14,1	14,1	30		
1BT32200	1"1/16-12f	M26X1.5	21.9	16	50	15,5	15,5	32		
1BT34090	1"5/16-12f	M22X1.5	23.1	14	50	21,5	14,1	36		
1BT34210	1"5/16-12f	M26X1.5	23.1	16	52	21,5	15	36		

Straight Adapter Male JIC X Male DIN E captive seal

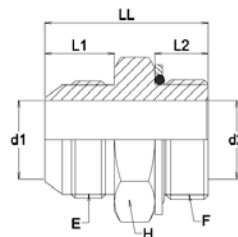
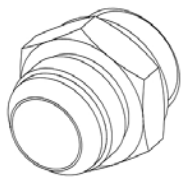


S MJIC X MDINE

PT279	JIC (E)	DINE (F)	L1	L2	LL	d1	d2	H		
1BU14050	7/16-20f	M10X1	14	8	31	4	4	14		
1BU17061	7/16-20f	M12X1.5	14	12	33,5	4,4	6	17		
1BU17062	1/2-20f	M12X1.5	14	12	33,5	6	6	17		
1BU19065	1/2-20f	M14X1.5	14	12	33,4	6	6	19		
1BU19060	9/16-18f	M14X1.5	14,1	12	33,5	7	7	19		
1BU22080	9/16-18f	M16X1.5	14,1	12	35	7,5	7,5	22		
1BU22060	3/4-16f	M16X1.5	16,7	12	37,6	9	9	22		
1BU24120	3/4-16f	M18X1.5	16,7	12	39,1	9,9	9,9	24		
1BU27180	3/4-16f	M22X1.5	16,7	14	40,3	9,9	14,1	27		
1BU27190	7/8-14f	M22X1.5	19,3	14	42,9	12,3	14,1	27		
1BU30195	1"1/16-12f	M18X1.5	21,9	12	43,5	15,5	11	27		
1BU32200	1"1/16-12f	M26X1.5	21,9	16	48,4	15,5	15,5	32		
1BU34202	1"1/16-12f	M27X2	21,9	16	48,4	15,5	15,5	32		
1BU36204	1"1/16-12f	M30x1.5	21,9	16	48,4	15,5	15,5	36		
1BU38206	1"5/16-12f	M33X2	23,1	18	51,6	21,5	21,5	41		

EN-Pression majorée avec cône DIN

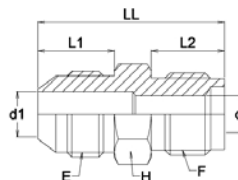
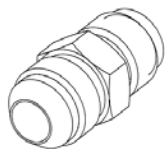
Straight Adapter Male JIC X Male ISO + O-Ring + Retaining Ring



S MJIC X MISO +OR +RR

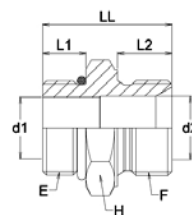
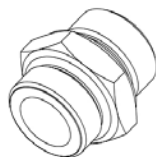
PT273	JIC (E)	ISO (F)	L1	L2	LL	d1	d2	H		
1CK14020	7/16-20f	M10X1	14	8,5	29,5	4,4	4,4	14		
1CK14024	1/2-20f	M10X1	14	8,5	29,5	6	4,5	14		
1CK17022	7/16-20f	M12X1.5	14	11	32	4,4	6	17		
1CK17026	1/2-20f	M12X1.5	14	11	32	6	6	17		
1CK19030	9/16-18f	M14X1.5	14.1	11	32	7,5	7,5	19		
1CK22035	9/16-18f	M16X1.5	14.1	11,5	33	7,5	9	22		
1CK24050	9/16-18f	M18X1.5	14.1	12,5	35	7,5	11	24		
1CK22038	3/4-16f	M14X1.5	16.7	11	35	9,9	7,5	19		
1CK22040	3/4-16f	M16X1.5	16.7	11,5	35,5	9	9	22		
1CK24060	3/4-16f	M18X1.5	16.7	12,5	37	9,9	11	24		
1CK27070	3/4-16f	M22X1.5	16.7	13	40	9,9	14	27		
1CK32074	3/4-16f	M26x1.5	16.7	16	43.2	9,9	18	32		
1CK24076	7/8-14f	M18x1.5	19.3	12,5	43	12,3	11	24		
1CK27080	7/8-14f	M22x1.5	19.3	13	43,5	12,3	14	27		
1CK30090	1"1/16-12f	M18x1.5	21.9	12,5	45	15,5	11	27		
1CK30100	1"1/16-12f	M22x1.5	21.9	13	45,5	14	14	27		
1CK32110	1"1/16-12f	M26x1.5	21.9	16	48,5	15,5	15,5	32		
1CK32090	1"1/16-12f	M27X2	21.9	16	48,5	15,5	15,5	32		
1CK34120	1"5/16-12f	M26x1.5	23.1	16	50,5	21,5	18	36		
1CK34100	1"5/16-12f	M27X2	23.1	16	50,5	21,5	18	36		
1CK38100	1"5/16-12f	M33x2	23.1	16	50,5	21,5	21,5	41		
1CK50110	1"5/8-12f	M42X2	24.3	16	54	27,5	27,5	50		
1CK55120	1"7/8-12f	M48x2	27.5	17,5	59	33	33	55		

Straight Adapter Male JIC X Male Farm



S MJIC X MFARM

PT206	JIC (E)	FARM (F)	L1	L2	LL	d1	d2	H		
1JA19220	7/16-20f	M18X1.5	14	16	36	4,4	8	19		
1JA19240	1/2-20f	M18X1.5	14	16	38	6	8	19		
1JA19230	9/16-18f	M18X1.5	14.1	16	38,1	7,5	7,5	19		
1JA19250	3/4-16f	M18X1.5	16.7	16	41	9,9	8	19		

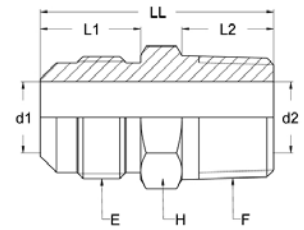
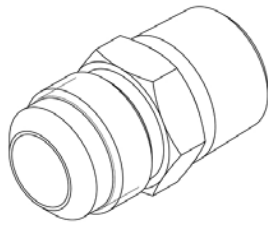
Straight Adapter Male SAE + O-Ring X Male BSP for bonded seal


S MSAE +OR X MBSPBS

PT169	SAE (E)	BSPBS (F)	L1	L2	LL	d1	d2	H		
1AV14040	7/16-20f	G1/8-28f	9,1	8	25	3,5	3,5	14		
1AV17050	7/16-20f	G1/4-19f	9,1	12	29,5	4,4	4,4	19		
1AV21060	7/16-20f	G3/8-19f	9,1	13,5	33	4,4	7,9	22		
1AV17060	1/2-20f	G1/4-19f	9,1	12	29,5	4,7	4,7	19		
1AV21070	1/2-20f	G3/8-19f	9,1	12	32,5	6	7,9	22		
1AV27060	9/16-18f	G1/2-14f	9,9	16	36	7,5	11,1	27		
1AV19050	9/16-18f	G1/4-19f	9,9	12	32	7,5	4,7	19		
1AV21080	9/16-18f	G3/8-19f	9,9	13,5	33,5	7,5	7,5	22		
1AV22060	3/4-16f	G1/4-19f	11,1	12	31	9,9	4,7	22		
1AV22090	3/4-16f	G3/8-19f	11,1	13,5	36	9,9	7,9	24		
1AV27091	3/4-16f	G3/8-19f (1)	13	15	45	7,9	7,9	27		
1AV24091	3/4-16f (P)	G3/8-19f	13	15	70	8	8	24		
1AV27072	3/4-16f (P)	G3/8-19f	13	15	78	7,9	7,9	27		
1AV27070	3/4-16f	G1/2-14f	11,1	16	38	9,9	9,9	27		
1AV27071	3/4-16f (P)	G1/2-14f	13	18	65	9,9	9,9	27		
1AV29085	3/4-16f	G5/8-14f	11,1	17,5	41,5	9,9	14,3	30		
1AV32060	3/4-16f	G3/4-14f	11,1	18,5	40,5	9,9	16,7	32		
1AV42040	3/4-16f	G1"-11f	11,1	19	44,5	9,9	22,2	41		
1AV27062	7/8-14f	G1/4-19f	12,7	11	34,5	12,3	4,7	27		
1AV27050	7/8-14f	G3/8-19f	12,7	13,5	39,5	12,3	7,9	27		
1AV27080	7/8-14f	G1/2-14f	12,7	16	42	11,1	11,1	27		
1AV27081	7/8-14f (P)	G1/2-14f	12,7	18	65	12	12	27		
1AV29090	7/8-14f	G5/8-14f	12,7	17,5	43,5	12,3	12,3	30		
1AV32070	7/8-14f	G3/4-14f	12,7	18,5	45,5	12,3	16,7	32		
1AV42045	7/8-14f	G1"-11f	12,7	20,5	49,5	12,3	22,2	41		
1AV32050	1"1/16-12f	G1/2-14f	15,1	16	42,5	15,5	11,1	36		
1AV32045	1"1/16-12f	G5/8-14f	15,1	17,5	47	14,3	14,3	34		
1AV32080	1"1/16-12f	G3/4-14f	15,1	18,5	48	15,5	15,5	34		
1AV42050	1"1/16-12f	G1"-11f	15,1	20,5	52	15,5	22,2	41		
1AV32072	1"3/16-12f	G3/4-14f	15,1	16	42	16,7	16,7	36		
1AV36100	1"3/16-12f	G1"-11f	15,1	19	45,1	18	22,2	41		
1AV41050	1"5/16-12f	G3/4-14f	15,1	18,5	50,7	21,5	16,7	41		
1AV42100	1"5/16-12f	G1"-11f	15,1	20,5	52,6	21,5	21,5	41		
1AV50116	1"5/16-12f	G1"1/4-11f	15,1	20,5	54,7	21,5	28,6	50		
1AV32052	1"5/8-12f	G3/4-14f	15,1	16	46	27,5	16,7	50		
1AV42110	1"5/8-12f	G1"-11f	15,1	20,5	54,7	27,5	22,2	50		
1AV50120	1"5/8-12f	G1"1/4-11f	15,1	20,5	54,7	27,5	27,5	50		
1AV54130	1"7/8-12f	G1"1/2-11f	15,1	23	57	33	33	55		

(P) Extension. (1) Standard : not for BS Ring.

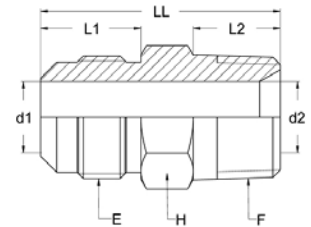
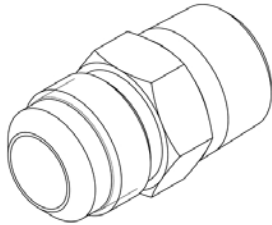
Straight Adapter Male SAE 90° cone X Male BSPT



S MSAE 90CO X MR

PT462	SAE (E)	R (F)	L1	L2	LL	d1	d2	H		
1CZ23051	3/4-16f	R3/8-19f	18,5	16	42	9,9	9,9	22		

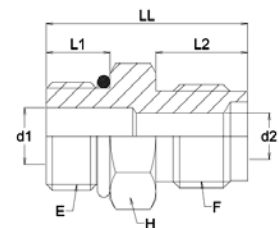
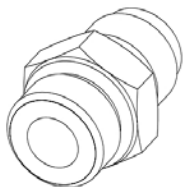
Straight Adapter Male SAE 90° cone X Male NPT



S MSAE 90CO X MNPT

PT458	SAE (E)	NPT (F)	L1	L2	LL	d1	d2	H		
1CZ17060	5/8-18f	1/4-18f	15,7	14,2	36,6	7	7	17		
1CZ19062	5/8-18f	3/8-18f	15,7	14,2	36,6	7	9	19		
1CZ24064	5/8-18f	1/2-14f	15,7	19	42,9	7	12	22		
1CZ24068	5/8-18f	1"-11,5f	15,7	23,9	51,9	7	21,5	36		

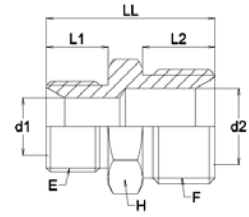
Straight Adapter Male SAE + O-Ring X Male Farm



S MSAE +OR X MFARM

PT208	SAE (E)	FARM (F)	L1	L2	LL	d1	d2	H		
1JA22240	9/16-18f	M18X1.5	10	16	34	7,5	8	19		
1JA22260	3/4-16f	M18X1.5	11,3	16	35	8	8	22		
1JA27270	7/8-14f	M18X1.5	12,5	16	37,7	12,3	8	26		

Straight Adapter Male BSP X Male BSP

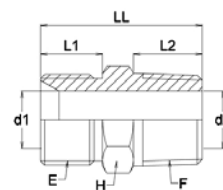
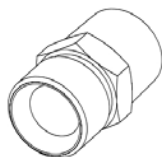


S MBSP X MBSP

PT122	BSP (E)	BSP (F)	L1	L2	LL	d1	d2	H		
1AC12050	G1/8-28f	G1/8-28f	8	8	21	3.5	3.5	12		
1AC12060	G1/4-19f	G1/4-19f	11	11	30	4.7	4.7	14		
1AC21100	G1/4-19f	G1/2-14f	11	14	39	4.7	11.1	21		
1AC22101	G3/8-19f (P)	G3/8-19f	12	12	64	7.9	7.9	22		
1AC24140	G3/8-19f	G5/8-14f	12	16	39	7.9	14.3	24		
1AC21110	G1/2-14f	G1/2-14f	14	14	42	11.1	11.1	21		
1AC50285	G3/4-14f	G1"1/2-11f	16	22	56	16,7	33,3	50		
1AC24150	G1/2-14f	G5/8-14f	14	16	41	11.1	14.3	24		
1AC42270	G1"-11f	G1"1/4-11f	19	20	57	22.2	28.6	42		
1AC50300	G1"1/2-11f	G1"1/2-11f	22	22	62	33,3	33,3	50		

(P) Extension.

Straight Adapter Male BSP X Male BSPT

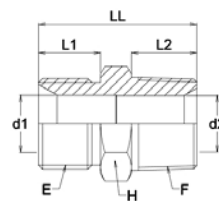


S MBSP X MR

PT123	BSP (E)	R (F)	L1	L2	LL	d1	d2	H		
1AA12050	G1/8-28f	R1/8-28f	8	10	24	3,5	3,5	12		
1AA14070	G1/4-19f	R1/8-28f	11	10	28	4,5	4,5	14		
1AA14080	G1/4-19f	R1/4-19f	11	14	32	4,7	7	14		
1AD22093	G1/4-19f	G3/8-19f (1)	13	12	33	6	6	22		
1AA17110	G3/8-19f	R1/4-19f	12	14	33	7	7	17		
1AA17120	G3/8-19f	R3/8-19f	12	15	34	7,9	7,9	17		
1AD27096	G3/8-19f	G1/2-14f (1)	12	14,5	80	7,9	14	27		
1AA21150	G1/2-14f	R1/4-19f	14	14	36	11,1	7	21		
1AA21160	G1/2-14f	R3/8-19f	14	15	37	10	10	21		
1AD22095	G1/2-14f	G3/8-19f (1)	18	12	40	8	8	22		
1AD27094	G1/2-14f	G3/8-19f (1)	14	11,2	60	11,1	9	22		
1AA22170	G1/2-14f	R1/2-14f	14	19	41	11,1	11,1	22		
1AD27098	G1/2-14f	G1/2-14f (1)	15	15	42,5	12	12	27		
1AA24210	G5/8-14f	R3/8-19f	16	15	39	14,3	10	24		
1AA24220	G5/8-14f	R1/2-14f	16	19	43	13	13	24		
1AA27250	G3/4-14f	R3/8-19f	16	15	40	16,7	10	27		
1AA27260	G3/4-14f	R1/2-14f	16	19	44	16,7	13	27		
1AA27270	G3/4-14f	R5/8-14f	16	19	44	16,7	14	27		
1AA27280	G3/4-14f	R3/4-14f	16	20	45	16,7	16,7	27		
1AA34300	G1"-11f	R3/4-14f	19	20	49	22,2	18	34		
1AA34310	G1"-11f	R1"-11f	19	24	53	22,2	22,2	36		
1AA42330	G1"1/4-11f	R1"-11f	20	24	54	28,6	24	42		
1AA45340	G1"1/4-11f	R1"1/4-11f	20	25	57	28,6	28,6	46		
1AA50360	G1"1/2-11f	R1"1/4-11f	22	25	59	31	31	50		
1AA50370	G1"1/2-11f	R1"1/2-11f	22	25	59	33,3	33,3	50		
1AA60390	G2"-11f	R1"1/2-11f	25	25	65	46	38	60		
1AA63400	G2"-11f	R2"-11f	25	30	70	46	46	65		
1AA77410	G2"1/2-11f	R2"1/2-11f	30	36	90	58	58	80		

(1) Extension in BSPP (cylindrical) instead of BSPT (conical R).

Straight Adapter Male BSP X Male NPT

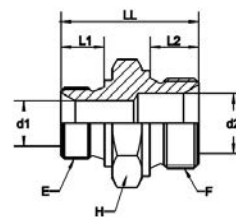


S MBSP X MNPT

PT125	BSP (E)	NPT (F)	L1	L2	LL	d1	d2	H		
1AB12050	G1/8-28f	1/8-27f	8	9,7	23,5	3,5	3,5	12		
1AB14070	G1/4-19f	1/8-27f	11	9,7	27,5	4,5	4,5	14		
1AB14080	G1/4-19f	1/4-18f	11	14,2	32	4,7	4,7	14		
1AB19110	G3/8-19f	3/8-18f	12	14,2	34	7,9	7,9	19		
1AB21140	G1/2-14f	1/4-18f	17	14,2	36	11,1	6	21		
1AB21150	G1/2-14f	3/8-18f	14	14,2	36	11,1	9	21		
1AB22160	G1/2-14f	1/2-14f	14	19	41	11,1	11,1	22		
1AB34180	G1/2-14f	1"-11,5f	14	23,9	48	11,1	21,5	36		
1AB24200	G5/8-14f	1/2-14f	16	19	43	14,3	12	24		
1AB27210	G5/8-14f	3/4-14f	16	19	44	14,3	14,3	27		
1AB27220	G3/4-14f	3/8-18f	16	14,2	39	16,7	9	27		
1AB27240	G3/4-14f	3/4-14f	16	19	44	16,7	16,7	27		
1AB34270	G1"-11f	3/4-14f	19	19	48	22,2	16,5	34		
1AB34280	G1"-11f	1"-11,5f	19	23,9	53	21,5	21,5	36		
1AB42300	G1"1/4-11f	1"-11,5f	20	23,9	54	28,6	21,5	42		
1AB45310	G1"1/4-11f	1"1/4-11,5f	20	24,6	56,5	28,5	28,5	46		
1AB50320	G1"1/4-11f	1"1/2-11,5f	20	25,4	57,5	28,6	35	50		
1AB50340	G1"1/2-11f	1"1/2-11,5f	22	25,4	59,5	33,3	33,3	50		
1AB63350	G1"1/2-11f	2"-11,5f	22	26,2	63	33,3	46	65		
1AB63360	G2"-11f	1"1/2-11,5f	25	25,4	65,5	46	35	60		
1AB63370	G2"-11f	2"-11,5f	25	26,2	66	46	46	65		

EN-Pression majorée avec cône NPSM

Straight Adapter Male BSP Form A X Male BSP Form A

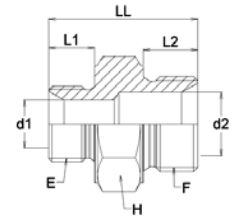
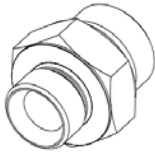


S MBSPA X MBSPA

PT491	BSPA (E)	BSPA (F)	L1	L2	LL	d1	d2	H		
1AF14010	G1/8-28f	G1/8-28f	8	8	24	3,5	3,5	14		
1AF19020	G1/8-28f	G1/4-19f	8	11	28,5	3,5	4,7	19		
1AF19040	G1/4-19f	G1/4-19f	11	11	32	4,7	4,7	19		
1AF22030	G1/8-28f	G3/8-19f	8	12	30	3,5	7,9	22		
1AF22050	G1/4-19f	G3/8-19f	11	12	33,5	4,7	7,9	33,5		
1AF22080	G3/8-19f	G3/8-19f	12	12	35	7,9	7,9	22		
1AF27060	G1/4-19f	G1/2-14f	11	14	38	4,7	11,1	27		
1AF27090	G3/8-19f	G1/2-14f	12	14	39,5	7,9	11,1	27		
1AF27130	G1/2-14f	G1/2-14f	14	14	42	11,1	11,1	27		
1AF30100	G3/8-19f	G5/8-14f	12	16	40,5	7,9	14,3	30		
1AF30140	G1/2-14f	G5/8-14f	14	16	43	11,1	14,3	30		
1AF30170	G5/8-14f	G5/8-14f	16	16	45	14,3	14,3	30		
1AF32070	G1/4-19f	G3/4-14f	11	16	41	4,7	16,7	32		
1AF32110	G3/8-19f	G3/4-14f	12	16	42,5	7,9	16,7	32		
1AF32150	G1/2-14f	G3/4-14f	14	16	45	11,1	16,7	32		
1AF32180	G5/8-14f	G3/4-14f	16	16	47	14,3	16,7	32		
1AF32190	G3/4-14f	G3/4-14f	16	16	47	16,7	16,7	32		
1AF41120	G3/8-19f	G1"-11f	12	18	46,5	7,9	22,2	41		
1AF41160	G1/2-14f	G1"-11f	14	18	49	11,1	22,2	41		
1AF41200	G3/4-14f	G1"-11f	16	18	51	16,7	22,2	41		
1AF41220	G1"-11f	G1"-11f	18	18	53	22,2	22,2	41		
1AF50210	G3/4-14f	G1"1/4-11f	16	20	54	16,7	28,6	50		
1AF50230	G1"-11f	G1"1/4-11f	18	20	56	22,2	28,6	50		
1AF50250	G1"1/4-11f	G1"1/4-11f	20	20	58	28,6	28,6	50		
1AF55240	G1"-11f	G1"1/2-11f	18	22	58	22,2	33,3	55		
1AF55260	G1"1/4-11f	G1"1/2-11f	20	22	60	28,6	33,3	55		
1AF55280	G1"1/2-11f	G1"1/2-11f	22	22	62	33,3	33,3	55		
1AF70270	G1"1/4-11f	G2"-11f	20	24	65,5	28,6	46	70		
1AF70290	G1"1/2-11f	G2"-11f	22	24	67,5	33,3	46	70		
1AF70300	G2"-11f	G2"-11f	24	24	70	46	46	70		

EN-Pression majorée avec cône BSP

Straight Adapter Male BSP for bonded seal X Male BSP for bonded seal

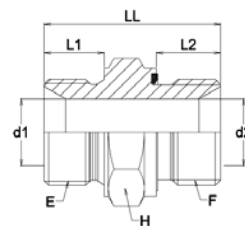
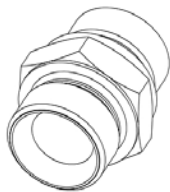


S MBSPBS X MBSPBS

PT146	BSPBS (E)	BSPBS (F)	L1	L2	LL	d1	d2	H		
1AO14050	G1/8-28f	G1/8-28f	10	10	26	3,5	3,5	14		
1AO17060	G1/8-28f	G1/4-19f	8	11	27	3,5	4,7	19		
1AO21075	G1/8-28f	G3/8-19f	10	13,5	31,5	3,5	7,9	22		
1AO27095	G1/8-28f	G1/2-14f	10	16	36	3,5	11,1	27		
1AO17070	G1/4-19f	G1/4-19f	12	12	30	4,7	4,7	19		
1AO21080	G1/4-19f	G3/8-19f	12	13,5	33,5	4,7	7,9	22		
1AO27100	G1/4-19f	G1/2-14f	12	16	38	4,7	11,1	27		
1AO29050	G1/4-19f	G5/8-14f	12	17,5	39,5	4,7	14,3	30		
1AO32140	G1/4-19f	G3/4-14f	11	16	43	4,7	16,7	32		
1AO42165	G1/4-19f	G1"-11f	11	19	46	4,7	22,2	41		
1AO21090	G3/8-19f	G3/8-19f	12	12	35	7,9	7,9	22		
1AO27110	G3/8-19f	G1/2-14f	13,5	16	39,5	7,9	11,1	27		
1AO29130	G3/8-19f	G5/8-14f	13,5	17,5	42	7,9	14,3	30		
1AO32150	G3/8-19f	G3/4-14f	13,5	18,5	43	7,9	16,7	32		
1AO42170	G3/8-19f	G1"-11f	12	19	47,5	7,9	22,2	41		
1AO27120	G1/2-14f	G1/2-14f	16	16	42	11,1	11,1	27		
1AO29140	G1/2-14f	G5/8-14f	16	17,5	43,5	11,1	14,3	30		
1AO32160	G1/2-14f	G3/4-14f	14	16	45	11,1	16,7	32		
1AO42180	G1/2-14f	G1"-11f	14	19	50	11,1	22,2	41		
1AO50204	G1/2-14f	G1"1/4-11f	14	20	54	11,1	28,6	50		
1AO29150	G5/8-14f	G5/8-14f	17,5	17,5	45	14,3	14,3	30		
1AO32165	G5/8-14f	G3/4-14f	17,5	18,5	47	14,3	16,7	32		
1AO42185	G5/8-14f	G1"-11f	17,5	20,5	51,5	14,3	22,2	41		
1AO50206	G5/8-14f	G1"1/4-11f	16	20	56	14,3	28,6	50		
1AO32170	G3/4-14f	G3/4-14f	18,5	18,5	48	16,7	16,7	32		
1AO42190	G3/4-14f	G1"-11f	18,5	20,5	52,5	16,7	22,2	41		
1AO50210	G3/4-14f	G1"1/4-11f	18,5	20,5	56	16,7	28,6	50		
1AO54195	G3/4-14f	G1"1/2-11f	16	22	58	16,7	33,3	55		
1AO70243	G3/4-14f	G2"-11f	16	25	63	16,7	46	70		
1AO42200	G1"-11f	G1"-11f	20,5	20,5	54	22,2	22,2	41		
1AO50220	G1"-11f	G1"1/4-11f	20,5	20,5	58	22,2	28,6	50		
1AO54200	G1"-11f	G1"1/2-11f	20,5	23	60,5	22,2	33,3	55		
1AO70244	G1"-11f	G2"-11f	19	25	66	22,2	46	70		
1AO50202	G1"1/4-11f	G3/8-19f	12	20	51,5	7,9	28,6	50		
1AO50230	G1"1/4-11f	G1"1/4-11f	20	20	58	28,6	28,6	50		
1AO54230	G1"1/4-11f	G1"1/2-11f	20,5	23	60,5	28,6	33,3	55		
1AO70245	G1"1/4-11f	G2"-11f	20	25	67	28,6	46	70		
1AO54192	G1"1/2-11f	G3/8-19f	12	22	53,5	7,9	33,3	55		
1AO54240	G1"1/2-11f	G1"1/2-11f	23	23	63	33,3	33,3	55		
1AO70247	G1"1/2-11f	G2"-11f	23	25,5	66,5	33,3	46	70		
1AO70250	G2"-11f	G2"-11f	25,5	25,5	68	46	46	70		
1AO90240	G2"-11f	G2"1/2-11f	25	30	77	46	58	90		
1AO90250	G2"1/2-11f	G2"1/2-11f	32	32	81	58	58	90		
1AO11040	G2"1/2-11f	G3"-11f	30	35	87	58	68	100		
1AO11050	G3"-11f	G3"-11f	36	36	92	68	68	100		

EN-Pression majorée avec cône BSP

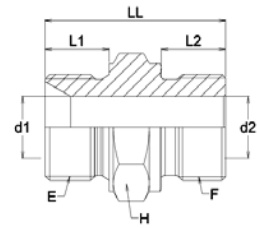
Straight Adapter Male BSP for bonded seal X Male BSP Form E



S MBSPBS X MBSPE

PT186	BSPBS (E)	BSPE (F)	L1	L2	LL	d1	d2	H		
1AD14050	G1/8-28f	G1/8-28f	8	8	22.5	3,5	3.5	14		
1AD19060	G1/4-19f	G1/8-28f	11	8	28	4,7	3.5	19		
1AD19070	G1/4-19f	G1/4-19f	11	12	32	4,7	4.7	19		
1AD22080	G1/4-19f	G3/8-19f	11	12	33,5	4,7	7.9	22		
1AD22090	G3/8-19f	G3/8-19f	12	12	34.5	7,9	7.9	22		
1AD22092	G3/8-19f	G1/4-19f	12	12	34.5	7,9	4.7	22		
1AD27100	G3/8-19f	G1/2-14f	12	14	39	7,9	11.1	27		
1AD27120	G1/2-14f	G1/2-14f	14	14	41	11,1	11.1	27		
1AD27122	G1/2-14f	G3/8-19f	14	12	39	11,1	7.9	27		
1AD32160	G1/2-14f	G3/4-14f	14	16	45	11,1	16.7	32		
1AD32170	G3/4-14f	G3/4-14f	16	16	47	16,7	16.7	32		
1AD32172	G3/4-14f	G1/2-14f	16	14	45	16,7	11.1	32		
1AD41180	G3/4-14f	G1"-11f	16	18	51	16,7	22.2	41		
1AD41120	G1"-11f	G3/4-14f	19	16	52	22,2	16.7	41		
1AD41200	G1"-11f	G1"-11f	19	18	54	22,2	22.2	41		
1AD50220	G1"-11f	G1"1/4-11f	19	20	58	22,2	28.6	50		
1AD55238	G1"1/4-11f	G1"1/2-11f	20	22	62	28,6	33.3	55		

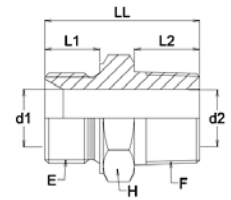
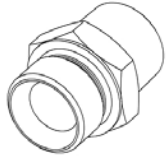
Straight Adapter Male BSP for bonded seal X Male BSPP B-Cutting Edge Type



S MBSPBS X MGB

PT168	BSPBS (E)	GB (F)	L1	L2	LL	d1	d2	H		
1AE14010	G1/8-28f	G1/8-28f	8	8	23,5	3,5	3,5	14		
1AE19020	G1/8-28f	G1/4-19f	8	12	29,5	3,5	6	19		
1AE19040	G1/4-19f	G1/4-19f	11	12	32,5	4,7	6	19		
1AE22030	G1/8-28f	G3/8-19f	8	12	31	3,5	9	22		
1AE22050	G1/4-19f	G3/8-19f	11	12	33,5	4,7	9	22		
1AE22080	G3/8-19f	G3/8-19f	12	12	34,5	7,9	7,9	22		
1AE27060	G1/4-19f	G1/2-14f	11	14	37,5	4,7	14	27		
1AE27090	G3/8-19f	G1/2-14f	12	14	37,5	7,9	14	27		
1AE27130	G1/2-14f	G1/2-14f	14	14	39,5	11,1	14	27		
1AE30100	G3/8-19f	G5/8-14f	12	16	42	7,9	14	30		
1AE30140	G1/2-14f	G5/8-14f	14	16	42,5	11,1	14	30		
1AE30170	G5/8-14f	G5/8-14f	16	16	44,5	14	14	30		
1AE32070	G1/4-19f	G3/4-14f	11	16	40,5	4,7	18	32		
1AE32110	G3/8-19f	G3/4-14f	12	16	42	7,9	18	32		
1AE32150	G1/2-14f	G3/4-14f	14	16	42,5	11,1	18	32		
1AE32190	G3/4-14f	G3/4-14f	16	16	44,5	16,7	16,7	32		
1AE41120	G3/8-19f	G1"-11f	18	12	48,5	7,9	23	41		
1AE41160	G1/2-14f	G1"-11f	14	18	51	11,1	23	41		
1AE41220	G1"-11f	G1"-11f	19	18	54	22,2	22,2	41		
1AE50210	G3/4-14f	G1"1/4-11f	16	20	57	16,7	30	50		
1AE50230	G1"-11f	G1"1/4-11f	19	20	58	22,2	30	50		
1AE50250	G1"1/4-11f	G1"1/4-11f	20	20	59	28,6	28,6	50		
1AE55240	G1"-11f	G1"1/2-11f	19	22	63	22,2	36	55		
1AE55260	G1"1/4-11f	G1"1/2-11f	20	22	62	28,6	36	55		
1AE55280	G1"1/2-11f	G1"1/2-11f	22	22	64	33,3	33,3	55		
1AE70270	G1"1/4-11f	G2"-11f	20	24	67	28,6	45	70		
1AE70290	G1"1/2-11f	G2"-11f	22	24	67	33,3	45	70		
1AE70300	G2"-11f	G2"-11f	25	24	70	45	45	70		

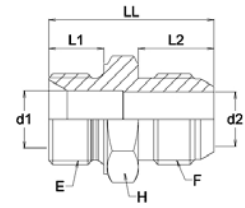
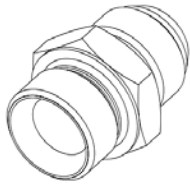
Straight Adapter Male BSP for bonded seal X Male BSPT



S MBSPBS X MR

PT170	BSPBS (E)	R (F)	L1	L2	LL	d1	d2	H		
1AM14050	G1/8-28f	R1/8-28f	8	10	26	3,5	3,5	14		
1AM14060	G1/8-28f	R1/4-19f	10	14,5	30,5	3,5	7	14		
1AM17050	G1/4-19f	R1/8-28f	12	10	28	4,5	4,5	19		
1AM17060	G1/4-19f	R1/4-19f	11	14	34	4,7	7	19		
1AM17070	G1/4-19f	R3/8-19f	12	15	32	4,7	10	19		
1AM22080	G1/4-19f	R1/2-14f	12	20	40	4,7	13	24		
1AM27082	G1/4-19f	R3/4-14f	11	20	42	4,7	18	27		
1AM21060	G3/8-19f	R1/8-28f	12	10	31	7,9	4,5	22		
1AM21070	G3/8-19f	R1/4-19f	13,5	14,5	35,5	7	7	22		
1AM21080	G3/8-19f	R3/8-19f	12	15	36	7,9	10	22		
1AM22070	G3/8-19f	R1/2-14f	12	19	40	7,9	13	22		
1AM27140	G3/8-19f	R3/4-14f	12	20	42	7,9	18	27		
1AM27075	G1/2-14f	R1/4-19f	16	14,5	40,5	11,1	7	27		
1AM27080	G1/2-14f	R3/8-19f	16	15	40	10	10	27		
1AM27090	G1/2-14f	R1/2-14f	14	19	43	11,1	11,1	27		
1AM27100	G1/2-14f	R5/8-14f	14	19	43	11,1	14	27		
1AM27110	G1/2-14f	R3/4-14f	16	20	45	11,1	18	30		
1AM34100	G1/2-14f	R1"-11f	14	24	51	11,1	24	36		
1AM29040	G5/8-14f	R3/8-19f	17,5	15	41,5	14,3	10	30		
1AM29050	G5/8-14f	R1/2-14f	17,5	20	46,5	13	13	30		
1AM29060	G5/8-14f	R5/8-14f	16	19	45	14	14	30		
1AM29100	G5/8-14f	R3/4-14f	17,5	20	46,5	14,3	18	30		
1AM32040	G3/4-14f	R1/4-19f	16	14	40	16,7	7	32		
1AM32044	G3/4-14f	R3/8-19f	16	15	41	16,7	10	32		
1AM32050	G3/4-14f	R1/2-14f	18,5	20	49,5	16,7	13	32		
1AM32100	G3/4-14f	R5/8-14f	16	19	45	16,7	14	32		
1AM32110	G3/4-14f	R3/4-14f	18,5	20	48,5	16,7	16,7	32		
1AM34110	G3/4-14f	R1"-11f	18,5	25,5	53,5	16,7	24	36		
1AM45040	G3/4-14f	R1"1/4-11f	18,5	26,5	58	16,7	30	46		
1AM50050	G3/4-14f	R1"1/2-11f	16	25	54	16,7	38	50		
1AM42105	G1"-11f	R1/2-14f	19	19	49	22,2	13	41		
1AM42110	G1"-11f	R3/4-14f	20,5	20	53	22,2	18	41		
1AM42120	G1"-11f	R1"-11f	20,5	25,5	58	22,2	22,2	41		
1AM45050	G1"-11f	R1"1/4-11f	20,5	26,5	60	22,2	31	46		
1AM50100	G1"-11f	R1"1/2-11f	19	25	57	22,2	38	50		
1AM63145	G1"-11f	R2"-11f	19	30	67	22,2	49	65		
1AM50110	G1"1/4-11f	R3/4-14f	20,5	20,5	56	28,6	18	50		
1AM50120	G1"1/4-11f	R1"-11f	20,5	25,5	61	28,6	24	50		
1AM50130	G1"1/4-11f	R1"1/4-11f	20,5	26,5	62	28,6	28,6	50		
1AM50350	G1"1/4-11f	R1"1/2-11f	20,5	26,5	62	28,6	38	50		
1AM63120	G1"1/4-11f	R2"-11f	20	30	68	28,6	49	65		
1AM54120	G1"1/2-11f	R1"-11f	23	25,5	63,5	33,3	24	55		
1AM54130	G1"1/2-11f	R1"1/4-11f	23	26,5	64,5	31	31	55		
1AM54140	G1"1/2-11f	R1"1/2-11f	23	26,5	64,5	33,3	38	55		
1AM63150	G1"1/2-11f	R2"-11f	23	30	70	33,3	49	65		
1AM63155	G2"-11f	R1"1/4-11f	25,5	27	68,5	46	31	70		
1AM63160	G2"-11f	R1"1/2-11f	25,5	26,5	68,5	46	38	70		
1AM70200	G2"-11f	R2"-11f	25,5	30	72,5	46	46	70		
1AM90200	G2"1/2-11f	R2"1/2-11f	32	34	83	58	58	90		
1AM11000	G3"-11f	R3"-11f	35	40	96	68	68	100		

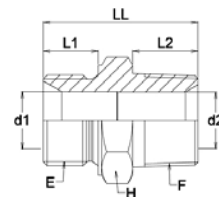
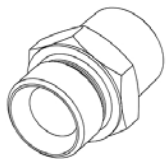
Straight Adapter Male BSP for bonded seal X Male JIS



S MBSPBS X MJIS

PT140	BSPBS (E)	JIS (F)	L1	L2	LL	d1	d2	H		
1JP19120	G1/4-19f	G1/4-19f	11	16	36	4.7	4.7	19		
1JP22124	G3/8-19f	G3/8-19f	12	18	39	7.9	7.9	22		
1JP27126	G1/2-14f	G3/8-19f	14	18	42	11,1	8	27		
1JP27128	G1/2-14f	G1/2-14f	14	20	44	11	11	27		
1JP32132	G3/4-14f	G3/4-14f	16	22	50	16	16	32		
1JP41136	G1"-11f	G1"-11f	19	24	54	22	22	41		

Straight Adapter Male BSP for bonded seal X Male NPT

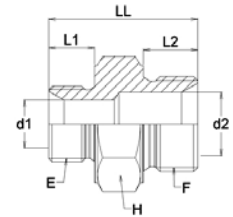
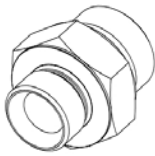


S MBSPBS X MNPT

PT171	BSPBS (E)	NPT (F)	L1	L2	LL	d1	d2	H		
1AN14050	G1/8-28f	1/8-27f	10	10,5	26	3,5	3,5	14		
1AN14060	G1/8-28f	1/4-18f	10	15	31	3,5	6	17		
1AN17060	G1/4-19f	1/8-27f	12	10,5	28	4,5	4,5	19		
1AN17070	G1/4-19f	1/4-18f	12	15	33	4,7	6	19		
1AN19075	G1/4-19f	3/8-18f	12	16	34	4,7	9	19		
1AN22080	G1/4-19f	1/2-14f	12	19,5	39,5	4,7	12	22		
1AN21080	G3/8-19f	1/4-18f	12	14,2	35	7,9	6	22		
1AN21090	G3/8-19f	3/8-18f	13,5	16	37,5	7,9	7,9	22		
1AN22090	G3/8-19f	1/2-14f	13,5	19,5	41	7,9	12	22		
1AN27102	G3/8-19f	3/4-14f	12	19	41	7,1	16,5	27		
1AN27080	G1/2-14f	1/4-18f	14	14,2	38	11,1	6	27		
1AN27090	G1/2-14f	3/8-18f	16	16	42	11,1	9	27		
1AN27100	G1/2-14f	1/2-14f	14	19	43	11,1	11,1	27		
1AN27105	G1/2-14f	3/4-14f	16	19,5	45,5	11,1	16,5	30		
1AN34150	G1/2-14f	1"-11,5f	16	25,5	52,5	11,1	21,5	36		
1AN29100	G5/8-14f	1/2-14f	17,5	19,5	47	14,3	12	30		
1AN29150	G5/8-14f	3/4-14f	17,5	19,5	47	14,3	16,5	30		
1AN32115	G3/4-14f	1/4-18f	16	14,2	40	16,7	6	32		
1AN32140	G3/4-14f	3/8-18f	18,5	16	45,5	16,7	9	32		
1AN32150	G3/4-14f	1/2-14f	18,5	19,5	49	16,7	12	32		
1AN32110	G3/4-14f	3/4-14f	18,5	19,5	49	16,5	16,5	32		
1AN34160	G3/4-14f	1"-11,5f	18,5	25,5	55	16,7	21,5	36		
1AN42110	G1"-11f	1/2-14f	19	19	49	22,2	12	41		
1AN42115	G1"-11f	3/4-14f	20,5	19,5	53	22,2	16,5	41		
1AN42120	G1"-11f	1"-11,5f	20,5	25,5	59	21,5	21,5	41		
1AN45290	G1"-11f	1"1/4-11,5f	20,5	26,5	60	22,2	28,5	46		
1AN50125	G1"1/4-11f	1"-11,5f	20,5	25,5	61	28,6	21,5	50		
1AN50130	G1"1/4-11f	1"1/4-11,5f	20,5	26,5	62	28,5	28,5	50		
1AN50135	G1"1/4-11f	1"1/2-11,5f	20,5	27,5	63	28,6	35	50		
1AN54135	G1"1/2-11f	1"1/4-11,5f	23	26,5	64,5	33,3	28,5	55		
1AN54140	G1"1/2-11f	1"1/2-11,5f	23	27,5	65,5	33,3	33,3	55		
1AN63140	G1"1/2-11f	2"-11,5f	23	27,5	67,5	33,3	46	65		
1AN70138	G2"-11f	1"1/4-11,5f	25	24,6	68,5	46	28,5	70		
1AN70135	G2"-11f	1"1/2-11,5f	25,5	27,5	70	46	35	70		
1AN70140	G2"-11f	2"-11,5f	25,5	27,5	70	46	46	70		

EN-Pression majorée avec cône NPSM

Straight Adapter Male BSP for bonded seal X Male DIN Bonded seal

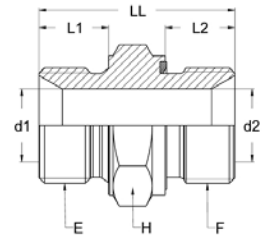


S MBSPBS X MDINBS

PT167	BSPBS (E)	DINBS (F)	L1	L2	LL	d1	d2	H		
1AS14050	G1/8-28f	M10X1	10	8	24	3	3	14		
1AS16060	G1/8-28f	M12X1	10	8	28	3,5	3,5	17		
1AS16059	G1/8-28f	M12X1.5	8	10	28	3,5	3,5	17		
1AS17062	G1/4-19f	M10X1	11	8	29,5	4,7	3	19		
1AS17063	G1/4-19f	M12X1	11	10	32	4	4	19		
1AS17065	G1/4-19f	M12X1.5	11	10	32	4	4	19		
1AS19070	G1/4-19f	M14X1.5	11	12	34	4,7	6	19		
1AS21080	G1/4-19f	M16X1.5	11	12	34	4,7	8	22		
1AS23090	G1/4-19f	M18X1.5	11	12	35,5	4,7	10	24		
1AS21100	G3/8-19f	M10X1	12	8	30,5	7,9	3	22		
1AS21102	G3/8-19f	M10X1.25	12	8	30,5	7,9	3	22		
1AS21103	G3/8-19f	M10X1.5	12	8	30,5	7,9	3	22		
1AS21105	G3/8-19f	M12X1.5	12	10	33	7,9	4	22		
1AS21110	G3/8-19f	M14X1.5	12	12	35	7,9	6	22		
1AS21120	G3/8-19f	M16X1.5	12	12	35	7,9	7,9	22		
1AS23130	G3/8-19f	M18X1.5	12	12	35,5	7,9	10	24		
1AS24132	G3/8-19f	M20X1.5	12	14	38,5	7,9	12	27		
1AS27135	G3/8-19f	M22X1.5	12	14	39	7,9	14,1	27		
1AS27140	G1/2-14f	M14X1.5	14	12	38	11,1	6	27		
1AS27140-1	G1/2-14f	M14X1.5 (1)	14	10	34	11,1	6	27		
1AS27150	G1/2-14f	M16X1.5	14	12	38	11,1	8	27		
1AS27160	G1/2-14f	M18X1.5	14	12	38,5	10	10	27		
1AS27165	G1/2-14f	M20X1.5	14	14	40,5	11,1	11,1	27		
1AS27170	G1/2-14f	M22X1.5	14	14	41	11,1	14,1	27		
1AS29180	G1/2-14f	M24X1.5	14	14	41	11,1	16	30		
1AS32800	G1/2-14f	M26X1.5	16	16	44	11,1	15	32		
1AS29140	G5/8-14f	M22X1.5	16	14	43	14,1	14,1	30		
1AS32900	G1/2-14f	M27X2	16	16	44	11,1	16	32		
1AS32176	G5/8-14f	M26X1.5	16	16	45	14,3	14,3	32		
1AS32180	G3/4-14f	M18X1.5	16	12	40,5	16,7	10	32		
1AS32185	G3/4-14f	M20X1.5	16	14	42,5	16,7	12	32		
1AS32190	G3/4-14f	M22X1.5	16	14	43	16,7	14,1	32		
1AS32195	G3/4-14f	M24X1.5	18,5	14	44,5	16	16	32		
1AS32200	G3/4-14f	M26X1.5	16	16	45	16,7	15	32		
1AS36210	G3/4-14f	M30X1.5	16	16	46	16,7	19	36		
1AS42100	G1"-11f	M22X1.5	19	14	47	22,2	14,1	41		
1AS42120	G1"-11f	M26X1.5	19	16	49	22,2	15	41		
1AS42220	G1"-11f	M30X1.5	19	16	49	22,2	19	41		
1AS42220-1	G1"-11f	M30X1.5 (1)	19	14	43	22,2	19	36		
1AS42224	G1"-11f	M30X2	19	16	49	22,2	19	41		
1AS42226	G1"-11f	M33X2	20,5	18	51	21,5	21,5	41		
1AS44230	G1"-11f	M38X1.5	19	18	53	22,2	25	46		
1AS44230-1	G1"-11f	M38X1.5 (1)	19	14	44	22,2	25	41		
1AS50150	G1"1/4-11f	M38X1.5	20	18	54	28,6	25	50		
1AS52240	G1"1/4-11f	M45X1.5	20,5	20	55,5	28,6	32	55		
1AS54250	G1"1/2-11f	M38X1.5	23	20	58	33,3	25	50		
1AS54260	G1"1/2-11f	M45X1.5	23	20	58	32	32	55		
1AS60270	G1"1/2-11f	M52X1.5	23	20	58	33,3	39	60		
1AS75280	G2"-11f	M65X2	25	22	75	46	50	75		

(1) Small hexagon.

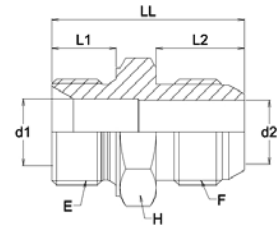
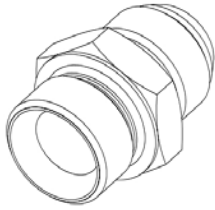
Straight Adapter Male BSP for bonded seal X Male DIN E captive seal



S MBSPBS X MDINE

PT454	BSPBS (E)	DINE (F)	L1	L2	LL	d1	d2	H		
1AS14052	G1/8-28f	M10X1	8	8	22,5	3	3	14		
1AS16061	G1/8-28f	M12X1.5	8	12	29	3,5	3,5	17		
1AS17064	G1/4-19f	M10X1	11	8	28	3	3	19		
1AS17066	G1/4-19f	M12X1.5	11	12	32	4	4	19		
1AS19072	G1/4-19f	M14X1.5	11	12	32	4,7	4,7	19		
1AS21082	G1/4-19f	M16X1.5	11	12	33,5	4,7	8	22		
1AS23092	G1/4-19f	M18X1.5	11	12	34,5	4,7	10	24		
1AS21106	G3/8-19f	M12X1.5	12	12	34,5	7,9	4	22		
1AS21112	G3/8-19f	M14X1.5	12	12	34,5	6	6	22		
1AS21122	G3/8-19f	M16X1.5	12	12	34,5	7,9	7,9	22		
1AS23132	G3/8-19f	M18X1.5	12	12	37	7,9	10	24		
1AS24136	G3/8-19f	M20X1.5	12	14	39	7,9	12	27		
1AS27136	G3/8-19f	M22X1.5	12	14	39	7,9	14,1	27		
1AS27146	G1/2-14f	M14X1.5	14	12	39	11,1	6	27		
1AS27152	G1/2-14f	M16X1.5	14	12	39	11,1	8	27		
1AS27162	G1/2-14f	M18X1.5	14	12	39	10	10	27		
1AS27166	G1/2-14f	M20X1.5	14	14	41	11,1	11,1	27		
1AS27172	G1/2-14f	M22X1.5	14	14	41	11,1	14,1	27		
1AS29222	G1/2-14f	M24X1.5	14	14	45	11,1	16	30		
1AS32802	G1/2-14f	M26X1.5	14	16	45	11,1	15	32		
1AS29142	G5/8-14f	M22X1.5	16	14	45	14,1	14,1	30		
1AS32178	G5/8-14f	M26X1.5	16	16	47	14,3	14,3	32		
1AS32182	G3/4-14f	M18X1.5	16	12	43	16,7	10	32		
1AS32186	G3/4-14f	M20X1.5	16	14	45	16,7	12	32		
1AS32192	G3/4-14f	M22X1.5	16	14	45	16,7	14,1	32		
1AS32202	G3/4-14f	M26X1.5	16	16	47	15	15	32		
1AS36212	G3/4-14f	M30X1.5	16	16	49	16,7	19	36		
1AS42102	G1"-11f	M22X1.5	19	14	50	22,2	14,1	41		
1AS42122	G1"-11f	M26X1.5	19	16	52	22,2	15	41		
1AS42222	G1"-11f	M30x1.5	19	16	52	22,2	19	41		
1AS25092	G1"-11f	M33X1.5	19	18	54	21,5	21,5	41		
1AS42228	G1"-11f	M33X2	19	18	54	22,2	22,2	41		
1AS44232	G1"-11f	M38x1.5	19	18	56	22,2	25	46		
1AS50152	G1"1/4-11f	M38x1.5	20	18	57	28,6	25	50		
1AS54252	G1"1/2-11f	M38x1.5	22	18	60	33,3	25	55		

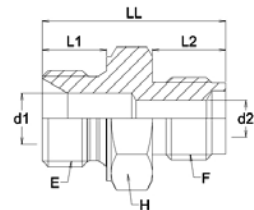
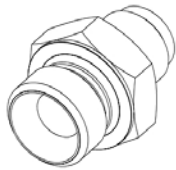
Straight Adapter Male BSP for bonded seal X Male Komatsu



S MBSPBS X MKOM

PT426	BSPBS (E)	KOM (F)	L1	L2	LL	d1	d2	H		
1JK19020	G1/4-19f	M18X1.5	11	18	38	4,7	9	19		
1JK19010	G1/4-19f	M14X1.5	11	17	37	4,7	4,7	19		
1JK22014	G3/8-19f	M18X1.5	12	18	39	7,9	7,9	22		
1JK24018	G3/8-19f	M22X1.5	12	20	41	7,9	10,5	24		
1JK27022	G1/2-14f	M20X1.5	14	20	44	11,1	9	27		
1JK27026	G1/2-14f	M22X1.5	14	20	44	10,5	10,5	27		
1JK30300	G5/8-14f	M24X1.5	16	21,5	47,5	13	13	30		
1JK32034	G3/4-14f	M30x1.5	16	26	52	16,7	16,7	32		
1JK41038	G1"-11f	M33X1.5	19	30	60	22,2	19	41		

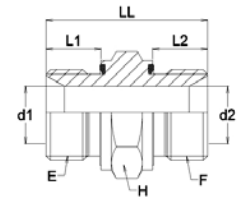
Straight Adapter Male BSP for bonded seal X Male Farm



S MBSPBS X MFARM

PT204	BSPBS (E)	FARM (F)	L1	L2	LL	d1	d2	H		
1JA21210	G3/8-19f	M18X1.5	12	16	37	7,9	7,9	22		
1JA27130	G1/2-14f	M18X1.5	14	16	40	11,1	8	27		
1JA27150	G3/4-14f	M18X1.5	16	16	41	16,7	8	32		
1JA27160	G1"-11f	M18X1.5	19	16	45	22,2	8	41		

Straight Adapter Male BSP Form E X Male BSP Form E

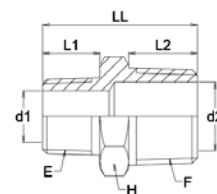
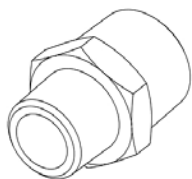


S MBSPE X MBSPE

PT288	BSPE (E)	BSPE (F)	L1	L2	LL	d1	d2	H		
1AG14010	G1/8-28f	G1/8-28f	10	10	26	3,5	3,5	14		
1AG19020	G1/8-28f	G1/4-19f	10	12	28	3,5	4,7	19		
1AG22030	G1/8-28f	G3/8-19f	8	12	32	3,5	7,9	22		
1AG19040	G1/4-19f	G1/4-19f	12	12	30	4,7	4,7	19		
1AG22050	G1/4-19f	G3/8-19f	12	13,5	33,5	4,7	7,9	22		
1AG22080	G3/8-19f	G3/8-19f	13,5	13,5	33	7,9	7,9	22		
1AG27060	G1/4-19f	G1/2-14f	12	16	38	4,7	11,1	27		
1AG27090	G3/8-19f	G1/2-14f	13,5	16	39,5	7,9	11,1	27		
1AG27130	G1/2-14f	G1/2-14f	16	16	42	11,1	11,1	27		
1AG32150	G1/2-14f	G3/4-14f	16	18,5	45,5	11,1	16,7	32		
1AG32160	G3/4-14f	G3/4-14f	18,5	18,5	48	16,7	16,7	32		
1AG41218	G3/4-14f	G1"-11f	18,5	20,5	52,5	16,7	22,2	41		
1AG41220	G1"-11f	G1"-11f	20,5	20,5	54	22,2	22,2	41		
1AG50230	G1"-11f	G1"1/4-11f	20,5	20,5	58	22,2	28,6	50		
1AG50250	G1"1/4-11f	G1"1/4-11f	20,5	20,5	58	28,6	28,6	50		
1AG55260	G1"1/4-11f	G1"1/2-11f	20,5	23	60,5	28,6	33,3	55		
1AG55280	G1"1/2-11f	G1"1/2-11f	22	22	65	33,3	33,3	55		

EN-Pression majorée avec cône BSP

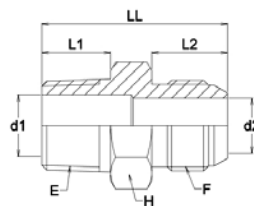
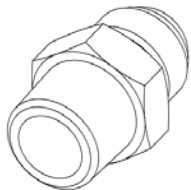
Straight Adapter Male BSPT X Male BSPT



S MR X MR

PT120	R (E)	R (F)	L1	L2	LL	d1	d2	H		
1GG12050	R1/8-28f	R1/8-28f	10	10	26	4,5	4,5	12		
1GG14060	R1/8-28f	R1/4-19f	10	14	31	4,5	7	14		
1GG17070	R1/8-28f	R3/8-19f	10	15	32	4,5	10	17		
1GG22090	R1/8-28f	R1/2-14f	10	19	37	4,5	13	22		
1GG14070	R1/4-19f	R1/4-19f	14	14	35	7	7	14		
1GG17080	R1/4-19f	R3/8-19f	14	15	36	7	10	17		
1GG22100	R1/4-19f	R1/2-14f	14	19	41	7	13	22		
1GG17090	R3/8-19f	R3/8-19f	15	15	37	10	10	17		
1GG22110	R3/8-19f	R1/2-14f	15	19	42	10	13	22		
1GG27140	R3/8-19f	R3/4-14f	15	20	44	10	18	27		
1GG34160	R3/8-19f	R1"-11f	15	24	49	10	24	36		
1GG22120	R1/2-14f	R1/2-14f	19	19	46	13	13	22		
1GG27150	R1/2-14f	R3/4-14f	19	20	48	13	18	27		
1GG24125	R1/2-14f	R5/8-14f	19	19	46	13	13	24		
1GG34165	R1/2-14f	R1"-11f	19	24	53	13	24	36		
1GG24130	R5/8-14f	R5/8-14f	19	19	46	14	14	24		
1GG27135	R3/4-14f	R1/4-19f	14	20	43	7	18	27		
1GG27160	R3/4-14f	R3/4-14f	20	20	49	18	18	27		
1GG34170	R3/4-14f	R1"-11f	20	24	54	18	24	36		
1GG34180	R1"-11f	R1"-11f	24	24	58	24	24	36		
1GG45190	R1"-11f	R1"1/4-11f	24	25	61	24	31	46		
1GG45200	R1"1/4-11f	R1"1/4-11f	25	25	62	31	31	46		
1GG50210	R1"1/4-11f	R1"1/2-11f	25	25	62	31	38	50		
1GG50200	R1"1/2-11f	R3/4-14f	20	25	57	18	38	50		
1GG50205	R1"1/2-11f	R1"-11f	24	25	61	24	38	50		
1GG50220	R1"1/2-11f	R1"1/2-11f	25	25	62	38	38	50		
1GG63230	R1"1/2-11f	R2"-11f	25	30	70	38	49	65		
1GG63240	R2"-11f	R2"-11f	30	30	75	49	49	65		

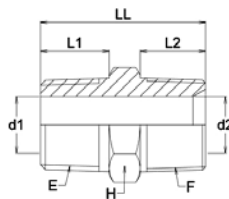
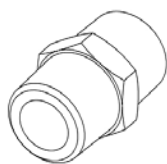
Straight Adapter Male BSPT X Male JIS



S MR X MJIS

PT223	R (E)	JIS (F)	L1	L2	LL	d1	d2	H		
1JP14050	R1/8-28f	G1/8-28f	10	12	29	3	3	14		
1JP19070	R1/4-19f	G1/4-19f	14	16	37	5	5	17		
1JP22140	R3/8-19f	G3/8-19f	15	18	41	8	8	19		
1JP27180	R1/2-14f	G1/2-14f	19	20	48	11	11	22		
1JP32250	R3/4-14f	G3/4-14f	20	22	54	16	16	30		
1JP41290	R1"-11f	G1"-11f	24	24	58	22	22	36		
1JP50320	R1"1/4-11f	G1"1/4-11f	25	27	66	28	28	46		
1JP55340	R1"1/2-11f	G1"1/2-11f	25	27	67	34	34	50		

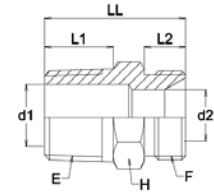
Straight Adapter Male BSPT X Male NPT



S MR X MNPT

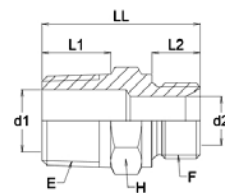
PT119	R (E)	NPT (F)	L1	L2	LL	d1	d2	H		
1GH12050	R1/8-28f	1/8-27f	10	9,7	26	4,5	4,5	12		
1GH22050	R1/8-28f	1/2-14f	10	19	37	4,5	12	22		
1GH14050	R1/4-19f	1/4-18f	14	14,2	35	6	6	14		
1GH19070	R1/4-19f	3/8-18f	14	14,2	36	7	9	19		
1GH17060	R3/8-19f	1/4-18f	15	14,2	36	10	6	17		
1GH19080	R3/8-19f	3/8-18f	15	14,2	37	9	9	19		
1GH22090	R1/2-14f	1/2-14f	19	19	46	12	12	22		
1GH27100	R3/4-14f	3/4-14f	20	19	48	16,5	16,5	27		
1GH34120	R3/4-14f	1"-11,5f	19,5	25,5	56	16,5	22,9	36		
1GH34110	R1"-11f	3/4-14f	24	19	53	24	16,5	36		
1GH34130	R1"-11f	1"-11,5f	24	23,9	58	21,5	21,5	36		
1GH45136	R1"1/4-11f	1"-11,5f	25	23,9	61	31	21,5	46		
1GH45140	R1"1/4-11f	1"1/4-11,5f	25	24,6	61,5	28,5	28,5	46		
1GH50150	R1"1/2-11f	1"1/2-11,5f	25	25,4	62,5	35	35	50		
1GH63160	R2"-11f	2"-11,5f	30	26,2	71,2	46	46	65		

Straight Adapter Male BSPT X Male Metric DIN (60°)

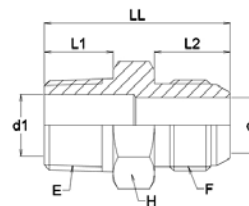
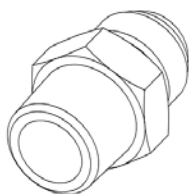


S MR X MDIN

PT260	R (E)	DIN (F)	L1	L2	LL	d1	d2	H		
1BA14070	R1/8-28f	M14x1.5	10	10	27	4,5	6	14		
1BA17095	R1/8-28f	M16X1.5	10	11	28	4,5	8	17		
1BA14080	R1/4-19f	M14X1.5	14	10	31	6	6	14		
1BA17100	R1/4-19f	M16X1.5	14	11	32	7	7	17		
1BA19120	R1/4-19f	M18X1.5	14	11	33	7	10	19		
1BA22160	R1/4-19f	M22X1.5	14	14	36	7	14,1	24		
1BA17110	R3/8-19f	M16X1.5	15	11	33	8	8	17		
1BA19130	R3/8-19f	M18X1.5	15	11	34	10	10	19		
1BA22170	R3/8-19f	M22X1.5	15	14	37	10	14,1	24		
1BA22180	R1/2-14f	M22X1.5	19	14	41	13	14,1	24		
1BA27210	R1/2-14f	M26X1.5	19	12	40	13	15	27		
1BA27230	R3/4-14f	M18X1.5	20	11	40	18	10	27		
1BA27220	R3/4-14f	M26X1.5	20	12	41	15	15	27		
1BA30230	R3/4-14f	M30X1.5	20	14	43	18	18	32		
1BA45265	R1"-11f	M45X1.5	24	16	52	24	32	46		
1BA45260	R1"1/4-11f	M38X1.5	25	14	51	31	25	46		
1BA50280	R1"1/2-11f	M45X1.5	25	16	53	38	32	50		
1BA65310	R2"-11f	M65X2	30	20	68	49	49	70		

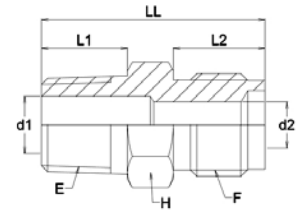
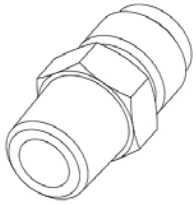
Straight Adapter Male BSPT X Male DIN Bonded seal

S MR X MDINBS

PT162	R (E)	DINBS (F)	L1	L2	LL	d1	d2	H		
1BM14050	R1/8-28f	M10X1	10	8	26,5	4,5	3	14		
1BM16055	R1/8-28f	M12X1.5	10	10	29	4	4	17		
1BM16060	R1/4-19f	M12X1.5	14	10	33	7	4	17		
1BM19064	R1/4-19f	M14X1.5	14	12	36	6	6	19		
1BM21065	R1/4-19f	M16X1.5	14	12	36	7	7	22		
1BM23090	R1/4-19f	M18X1.5	14	12	36,5	7	10	24		
1BM19066	R3/8-19f	M14X1.5	15	12	37	10	6	19		
1BM21070	R3/8-19f	M16X1.5	15	12	37	8	8	22		
1BM23100	R3/8-19f	M18X1.5	15	12	37,5	10	10	24		
1BM27100	R3/8-19f	M22X1.5	15	14	41	10	14,1	27		
1BM22080	R1/2-14f	M16X1.5	19	12	41	13	8	22		
1BM23110	R1/2-14f	M18X1.5	19	12	41,5	13	10	24		
1BM27110	R1/2-14f	M22X1.5	19	14	45	13	14,1	27		
1BM27120	R3/4-14f	M22X1.5	20	14	46	18	14,1	27		
1BM36230	R1"-11f	M30X1.5	24	16	53	24	19	36		
1BM45240	R1"-11f	M38X1.5	24	18	57	24	24	46		
1BM55270	R1"1/4-11f	M45X1.5	25	20	63	31	31	55		
1BM60280	R1"1/2-11f	M52X1.5	25	22	65	38	38	60		

Straight Adapter Male BSPT X Male Komatsu

S MR X MKOM

PT427	R (E)	KOM (F)	L1	L2	LL	d1	d2	H		
1JP17020	R1/4-19f	M14X1.5	14,5	17	37,5	5,8	4,8	14		
1JP19030	R3/8-19f	M16X1.5	15	18	39	9	7,5	19		
1JP19040	R3/8-19f	M18X1.5	15	18	39	9	9	19		
1JP24050	R1/2-14f	M22X1.5	20	20	48	12	10,3	24		
1JP27060	R1/2-14f	M24X1.5	20	21,5	52	12	13	27		
1JP32070	R3/4-14f	M30X1.5	20	26	57	17	17	32		
1JP36080	R1"-11f	M33X1.5	25,5	30	66,5	22,5	19	36		

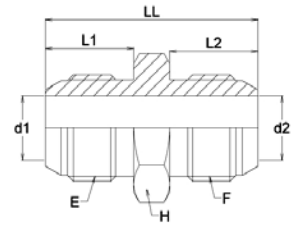
Straight Adapter Male BSPT X Male Farm



S MR X MFARM

PT203	R (E)	FARM (F)	L1	L2	LL	d1	d2	H		
1JA19190	R1/4-19f	M18X1.5	14	16	38	7	7	19		
1JA19200	R3/8-19f	M18X1.5	15	16	39	9,8	8	19		
1JA19210	R1/2-14f	M18X1.5	19	16	43	13	8	22		

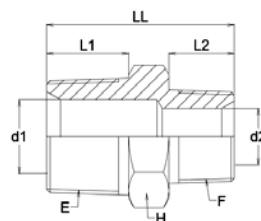
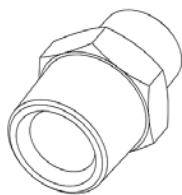
Straight Adapter Male JIS X Male JIS



S MJIS X MJIS

PT221	JIS (E)	JIS (F)	L1	L2	LL	d1	d2	H		
1JP19060	G1/4-19f	G1/4-19f	16	16	39	5	5	17		
1JP22070	G3/8-19f	G3/8-19f	18	18	44	8	8	19		
1JP27080	G1/2-14f	G1/2-14f	20	20	48	11	11	22		
1JP32090	G3/4-14f	G3/4-14f	22	22	53	16	16	30		
1JP41100	G1"-11f	G1"-11f	24	24	58	22	22	36		

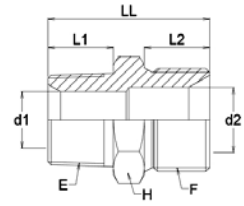
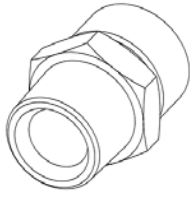
Straight Adapter Male NPT X Male NPT



S MNPT X MNPT

PT118	NPT (E)	NPT (F)	L1	L2	LL	d1	d2	H		
1HH12050	1/8-27f	1/8-27f	9.7	9,7	26,9	4,5	4,5	11		
1HH14060	1/4-18f	1/8-27f	14.2	9,7	32	6	4,5	14		
1HH14070	1/4-18f	1/4-18f	14.2	14,2	36,8	6	6	14		
1HH19080	3/8-18f	1/8-27f	14.2	9,7	32	9	4,5	19		
1HH19090	3/8-18f	1/4-18f	14.2	14,2	36,8	9	6	19		
1HH19100	3/8-18f	3/8-18f	14.2	14,2	36,8	9	9	19		
1HH22110	1/2-14f	1/4-18f	19	14,2	43,2	12	6	22		
1HH22120	1/2-14f	3/8-18f	19	14,2	43,2	12	9	22		
1HH22130	1/2-14f	1/2-14f	19	19	48	12	12	22		
1HH27140	3/4-14f	1/4-18f	19	14,2	45	16,5	6	27		
1HH27150	3/4-14f	3/8-18f	19	14,2	45	16,5	9	27		
1HH27160	3/4-14f	1/2-14f	19	19	49,8	16,5	12	27		
1HH27170	3/4-14f	3/4-14f	19	19	49,8	16,5	16,5	27		
1HH34180	1"-11,5f	1/2-14f	23.9	19	54,5	21,5	12	36		
1HH34190	1"-11,5f	3/4-14f	23.9	19	54,6	21,5	16,5	36		
1HH34200	1"-11,5f	1"-11,5f	23.9	23,9	59,4	21,5	21,5	36		
1HH45210	1"1/4-11,5f	1"-11,5f	24.6	23,9	62,2	28,5	21,5	46		
1HH45220	1"1/4-11,5f	1"1/4-11,5f	24.6	24,6	63	28,5	28,5	46		
1HH50216	1"1/2-11,5f	1/2-14f	25.4	19	59,9	35	12	50		
1HH50220	1"1/2-11,5f	1"-11,5f	25.4	23,9	64,8	35	21,5	50		
1HH50230	1"1/2-11,5f	1"1/4-11,5f	25.4	24,6	65,5	35	28,5	50		
1HH50240	1"1/2-11,5f	1"1/2-11,5f	25.4	25,4	66,3	35	35	50		
1HH63250	2"-11,5f	1"1/2-11,5f	26.2	25,4	70,8	46	35	65		
1HH63260	2"-11,5f	2"-11,5f	26.2	26,2	71,6	46	46	65		
1HH77270	2"1/2-8f	2"1/2-8f	38.5	38,5	95	56	56	75		

Straight Adapter Male NPT X Male Metric DIN (60°)

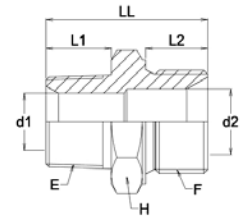


S MNPT X MDIN

PT416	NPT (E)	DIN (F)	L1	L2	LL	d1	d2	H		
1BB14061	1/8-27f (1)	M14X1.5	9.7	10	26.5	4,5	4.5	14		
1BB19121	1/4-18f (1)	M18X1.5	14.2	11	33	6	10	19		
1BB19100	3/8-18f	M16X1.5	14.2	11	33	8	8	19		
1BB19130	3/8-18f	M18X1.5	14.2	11	33	9	9	19		
1BB22150	3/8-18f	M22X1.5	14.2	14	36	9	14.1	24		
1BB22140	1/2-14f	M18X1.5	19	11	38	10	10	22		
1BB27170	1/2-14f	M26X1.5	19	12	40	12	15	27		
1BB27180	3/4-14f	M26X1.5	19	12	40	15	15	27		
1BB30190	3/4-14f	M30X1.5	19	14	42	16.5	19	32		
1BB34200	1"-11,5f	M30X1.5	23.9	14	48	19	19	36		
1BB45221	1"1/4-11,5f(1)	M38X1.5	24.6	14	50.5	28.5	25	46		
1BB50241	1"1/2-11,5f(1)	M45X1.5	25.4	16	53.5	35	32	50		
1BB54250	1"1/2-11,5f	M52X1.5	25.4	16	56.5	35	39	55		
1BB65260	2"-11,5f	M65X2	26.2	20	64	46	50	70		

(1) Male Briggs.

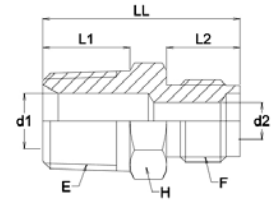
Straight Adapter Male NPT X Male DIN Bonded seal



S MNPT X MDINBS

PT180	NPT (E)	DINBS (F)	L1	L2	LL	d1	d2	H		
1BN14050	1/8-27f	M10X1	9.7	8	26	4,5	3	14		
1BN16060	1/4-18f	M12X1.5	14.2	10	33	6	4	17		
1BN19070	1/4-18f	M14X1.5	14.2	12	36	6	6	19		
1BN21060	1/4-18f	M16X1.5	14.2	12	36	6	8	22		
1BN19080	3/8-18f	M14X1.5	14.2	12	36	9	6	19		
1BN21070	3/8-18f	M16X1.5	14.2	12	36	8	8	22		
1BN23100	3/8-18f	M18X1.5	14.2	12	37	9	9	24		
1BN22090	1/2-14f	M14X1.5	19	12	41	12	6	22		
1BN22100	1/2-14f	M16X1.5	19	12	41	12	8	22		
1BN27160	1/2-14f	M22X1.5	19	14	45	12	14,1	27		
1BN36180	3/4-14f	M30X1.5	19	16	48	16,5	19	36		
1BN46185	1"-11,5f	M30X1.5	23.9	16	53	21,5	19	36		
1BN55190	1"1/4-11,5f	M45X1.5	24.6	20	62,5	28,5	32	55		

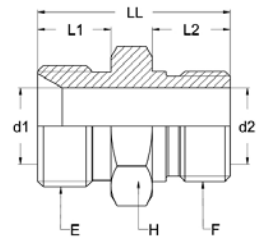
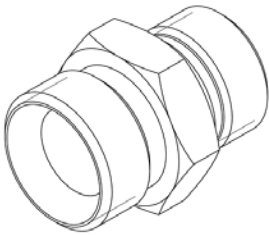
Straight Adapter Male NPT X Male Farm



S MNPT X MFARM

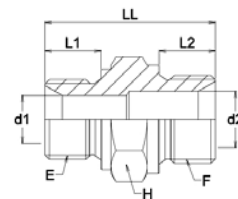
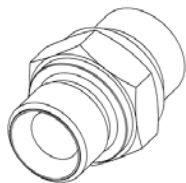
PT205	NPT (E)	FARM (F)	L1	L2	LL	d1	d2	H		
1JA22220	1/2-14f	M18X1.5	19	16	43	12	8	22		
1JA22030	1/2-14f	M24X1.5	19	18	46	12	12	27		
1JA22040	3/4-14f	M18X1.5	19	16	44	16.5	8	27		
1JA22050	3/4-14f	M24X1.5	19	18	46	16.5	13	27		

Straight Adapter Male Metric DIN (60°) X Male ISO copper seal



S MDIN X MISOC

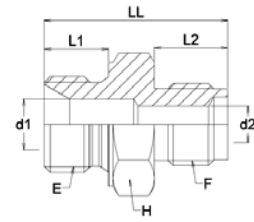
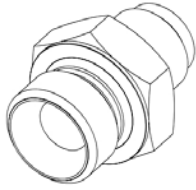
PT472	DIN (E)	ISOC (F)	L1	L2	LL	d1	d2	H		
1IA19050	M16X1.5	M12X1.25	11	10	28	8	6	17		

Straight Adapter Male DIN Bonded seal X Male DIN Bonded seal

S MDINBS X MDINBS

PT213	DINBS (E)	DINBS (F)	L1	L2	LL	d1	d2	H		
1BO14030	M10X1	M10X1	8	8	24	3	3	14		
1BO16036	M10X1	M12X1.5	8	10	26	3	4	17		
1BO16040	M12X1.5	M12X1.5	10	10	28	4	4	17		
1BO19045	M12X1.5	M14X1.5	10	11	29	4	6	19		
1BO19050	M14X1.5	M14X1.5	11	11	30	6	6	19		
1BO21056	M12X1.5	M16X1.5	10	12	34	4	8	22		
1BO21060	M14X1.5	M16X1.5	12	12	36	6	8	22		
1BO21070	M16X1.5	M16X1.5	12	12	32	8	8	22		
1BO23076	M14X1.5	M18X1.5	12	12	36,5	6	10	24		
1BO23080	M16X1.5	M18X1.5	12	12	34	8	10	24		
1BO23090	M18X1.5	M18X1.5	12	12	34	10	10	24		
1BO24094	M16X1.5	M20X1.5	12	14	39,5	8	12	27		
1BO24096	M18X1.5	M20X1.5	12	14	40	10	12	27		
1BO24098	M20X1.5	M20X1.5	14	14	42	12	12	27		
1BO27095	M16X1.5	M22X1.5	12	14	40	8	14,1	27		
1BO27100	M18X1.5	M22X1.5	12	14	38	10	14	27		
1BO27105	M20X1.5	M22X1.5	14	14	38	12	14	27		
1BO27110	M22X1.5	M22X1.5	14	14	38	14,1	14,1	27		
1BO30112	M24X1.5	M24X1.5	14	14	43	16	16	30		
1BO32115	M22X1.5	M26X1.5	14	16	45	14,1	15	32		
1BO32120	M26X1.5	M26X1.5	16	16	45	15	15	32		
1BO36125	M26X1.5	M30X1.5	16	16	48	15	19	36		
1BO36130	M30X1.5	M30X1.5	18	18	49	19	19	36		
1BO45140	M38X1.5	M38X1.5	18	18	54	25	25	46		
1BO55150	M45X1.5	M45X1.5	20	20	61	32	32	55		
1BO60160	M52X1.5	M52X1.5	22	22	65	39	39	60		
1BO75100	M65X2	M65X2	22	22	68	50	50	75		
1BC17090	M16X1.5 (1)	M12X1.5	10	10	28	10	6	17		
1BC17100	M16X1.5 (1)	M14X1.5	10	10	27	10	8	17		
1BC19120	M18X1.5 (1)	M16X1.5	10	10	28	11	10	19		
1BC26130	M18X1.5 (1)	M18X1.5	14	14	34	12	12	26		
1BC22140	M22X1.5 (1)	M22X1.5	14	14	36	14,1	14,1	24		
1BC38170	M38X1.5 (1)	M38X1.5	14	14	38	28	28	38		

EN-Pression majorée avec cône DIN

Straight Adapter Male DIN Bonded seal X Male Farm

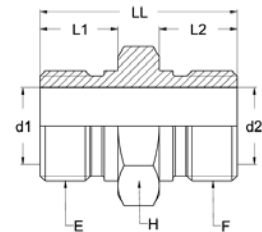
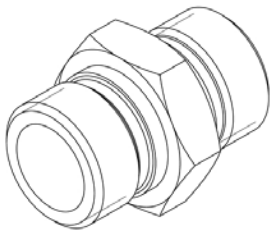


S MDINBS X MFARM

PT251	DINBS (E)	FARM (F)	L1	L2	LL	d1	d2	H		
1JA24360	M16X1.5	M24X1.5	12	18	40	10	13	27		
1JA23180	M18X1.5	M18X1.5	13	16	38	11,2	8	23		
1JA22190	M22X1.5 (1)	M18X1.5	12	16	35	13,2	8	26		

(1) Metric with sealing only on the cone

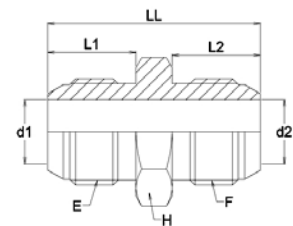
Straight Adapter Male ISO copper seal X Male ISO copper seal



S MISOC X MISOC

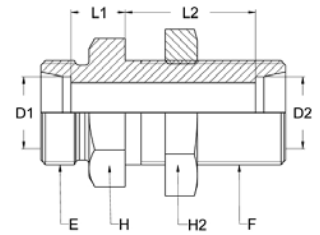
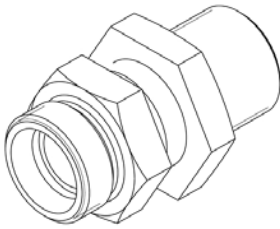
PT474	ISOC (E)	ISOC (F)	L1	L2	LL	d1	d2	H		
1IA26360	M22X1.5	M22X1.5	12	12	35	14	14	27		

Straight Adapter Male Komatsu X Male Komatsu



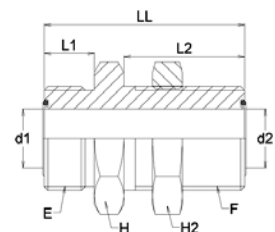
S MKOM X MKOM

PT425	KOM (E)	KOM (F)	L1	L2	LL	d1	d2	H		
1JP17120	M14X1.5	M14X1.5	17	17	40	5	5	17		
1JP19130	M16X1.5	M16X1.5	18	18	42	7	7	17		
1JP19140	M18X1.5	M18X1.5	18	18	42	9	9	19		
1JP24150	M22X1.5	M22X1.5	20	20	48	10,5	10,5	24		
1JP27160	M24X1.5	M24X1.5	21,5	21,5	53	13	13	27		
1JP32170	M30X1.5	M30X1.5	26	26	63	16,5	16,5	32		
1JP36180	M33X1.5	M33X1.5	30	30	71	19	19	36		

Straight Adapter Male 24° X Bulkhead Male 24° + Locknut

S M24D X MBH24D + LN

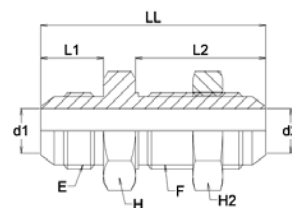
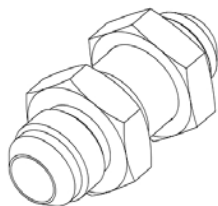
PT324	24D (E)	24D (F)	TUBE (D1)	TUBE (D2)	L1	L2	H	H2		
8UCL6L	M12X1.5	M12X1.5	6L	6L	7	27	17	17		
8UCL8L	M14X1.5	M14X1.5	8L	8L	8	27	19	19		
8UCL10L	M16X1.5	M16X1.5	10L	10L	10	28	22	22		
8UCL12L	M18X1.5	M18X1.5	12L	12L	10	29	24	24		
8UCL15L	M22X1.5	M22X1.5	15L	15L	12	31	27	30		
8UCL18L	M26X1.5	M26X1.5	18L	18L	13.5	32.5	32	36		
8UCL22L	M30X2	M30X2	22L	22L	16.5	34.5	36	41		
8UCL28L	M36X2	M36X2	28L	28L	18.5	35.5	41	46		
8UCL35L	M45X2	M45X2	35L	35L	18.5	36.5	50	55		
8UCL42L	M52X2	M52X2	42L	42L	19	36	60	65		
8UCL6S	M14X1.5	M14X1.5	6S	6S	12	29	19	19		
8UCL8S	M16X1.5	M16X1.5	8S	8S	13	29	22	22		
8UCL10S	M18X1.5	M18X1.5	10S	10S	14.5	29.5	24	24		
8UCL12S	M20X1.5	M20X1.5	12S	12S	14.5	30.5	27	27		
8UCL14S	M22X1.5	M22X1.5	14S	14S	19	30	30	30		
8UCL16S	M24X1.5	M24X1.5	16S	16S	16.5	31.5	32	32		
8UCL20S	M30X2	M30X2	20S	20S	17.5	33.5	41	41		
8UCL25S	M36X2	M36X2	25S	25S	20	35	46	46		
8UCL30S	M42X2	M42X2	30S	30S	21.5	37.5	50	50		
8UCL38S	M52X2	M52X2	38S	38S	22	37	65	65		

Fittings delivered without union nut or cutting ring.

Straight Adapter Male ORFS X Bulkhead Male ORFS + Locknut

S MORFS X MBHORFS + LN

PT189	ORFS (E)	ORFS (F)	L1	L2	LL	d1	d2	H	H2	
1FS12001	9/16-18f	9/16-18f	9,8	31,5	48,2	4,5	4,5	22	22	
1FS12010	11/16-16f	11/16-16f	11,2	34	53,2	6,5	6,5	27	27	
1FS12020	13/16-16f	13/16-16f	12,8	36,5	58,3	9,5	9,5	30	30	
1FS12030	1"-14f	1"-14f	15,5	40,6	66,6	12,5	12,5	36	36	
1FS12040	1"3/16-12f	1"3/16-12f	17	41,7	69,2	15,5	15,5	38	38	
1FS12050	1"7/16-12f	1"7/16-12f	17,5	42,2	70,2	20,5	20,5	46	46	
1FS12060	1"11/16-12f	1"11/16-12f	17,5	42,2	70,2	26	26	50	50	
1FS12070	2"-12f	2"-12f	17,5	42,2	70,2	32	32	60	60	

Straight Adapter Male JIC X Bulkhead Male JIC + Locknut

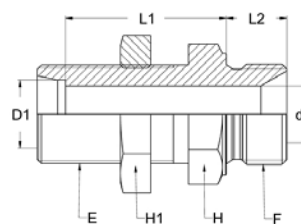
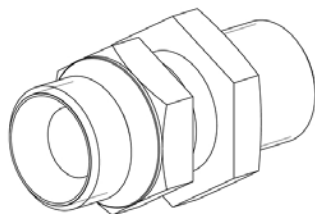


S MJIC X MBHJIC + LN

PT101	JIC (E)	JIC (F)	L1	L2	LL	d1	d2	H	H2	
1CD14050	7/16-20f	7/16-20f	14	30,5	52.6	4,4	4,4	17	17	
1CD17055	1/2-20f	1/2-20f	14	30,5	52.6	6	6	19	19	
1CD19060	9/16-18f	9/16-18f	14,1	32,5	55.4	7,5	7,5	22	22	
1CD23070	3/4-16f	3/4-16f	16,7	36,6	62	9,9	9,9	24	24	
1CD30080	7/8-14f	7/8-14f	19,3	40,1	69.6	12,3	12,3	30	30	
1CD32090	1"1/16-12f	1"1/16-12f	21,9	44,4	78.5	15,5	15,5	36	36	
1CD41100	1"5/16-12f	1"5/16-12f	23,1	44,4	79.8	21,5	21,5	41	41	
1CD48110	1"5/8-12f	1"5/8-12f	24,3	45,7	84.1	27,5	27,5	50	50	
1CD54100	1"7/8-12f	1"7/8-12f	27,5	46	89.4	33	33	55	55	
1CD71100	2"1/2-12f	2"1/2-12f	33,9	53,1	106.7	45	45	70	70	

EN-Pression majorée avec femelle JIC

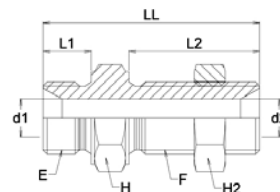
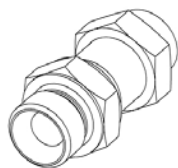
Straight Adapter Bulkhead Male 24° X Male BSP for bonded seal



S MBH24D X MBSPBS

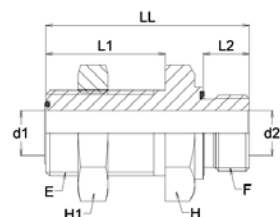
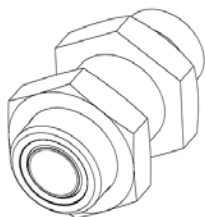
PT237	24D (E)	BSPBS (F)	TUBE (D1)	L1	L2	d2	H	H1		
8UCL13GMBS6	M20X1.5	G3/8-19f	13G	40,5	12	8	27	27		
8UCL17GMBS8	M24X1.5	G1/2-14f	17G	27,5	14	12,5	30	30		

Fittings delivered without union nut or cutting ring.

Straight Adapter Male BSP for bonded seal X Bulkhead Male BSP for bonded seal + Locknut

S MBSPBS X MBHBSPBS + LN

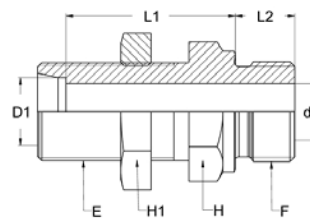
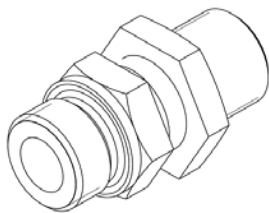
PT148	BSPBS (E)	BSPBS (F)	L1	L2	LL	d1	d2	H	H2	
1AP14100	G1/8-28f	G1/8-28f	10	33	49	3,5	3,5	14	14	
1AP17050	G1/4-19f	G1/4-19f	12	35	53	4,7	4,7	19	19	
1AP21050	G3/8-19f	G3/8-19f	13,5	35	56,5	7,9	7,9	22	22	
1AP27050	G1/2-14f	G1/2-14f	16	39	65	11,1	11,1	27	27	
1AP28100	G5/8-14f	G5/8-14f	17,5	40	67,5	14,3	14,3	30	30	
1AP32050	G3/4-14f	G3/4-14f	18,5	42	71,5	16,7	16,7	32	32	
1AP42050	G1"-11f	G1"-11f	20,5	50	84	22,2	22,2	41	41	
1AP50050	G1"1/4-11f	G1"1/4-11f	20,5	52	89,5	28,6	28,6	50	50	
1AP54100	G1"1/2-11f	G1"1/2-11f	23	55	93	33,3	33,3	55	55	
1AP70100	G2"-11f	G2"-11f	25,5	55	97,5	46	46	70	70	

EN-Pression majorée avec cône BSP

Straight Adapter Bulkhead Male ORFS + Locknut X Male BSP Form E

S MBHORFS + LN X MBSPE

PT293	ORFS (E)	BSPE (F)	L1	L2	LL	d1	d2	H	H1	
1FS63002	13/16-16f	G1/4-19f	41	12	59,5	9,5	5	30	30	
1FS63004	9/16-18f	G3/8-19f	31,5	12	54	4,5	8	22	22	
1FS63006	11/16-16f	G3/8-19f	34	12	57,5	6,5	8	27	27	
1FS63008	13/16-16f	G1/2-14f	36,5	14	62,5	9,5	12	30	30	
1FS63010	1"-14f	G1/2-14f	40,6	14	68	12	12	36	36	
1FS63011	1"3/16-12f	G5/8-14f	41,7	16	71	14	14	41	41	
1FS63012	1"3/16-12f	G3/4-14f	41,7	16	71	15,5	15,5	41	41	
1FS63016	1"7/16-12f	G1"-11f	42,2	18	75,5	20	20	46	46	

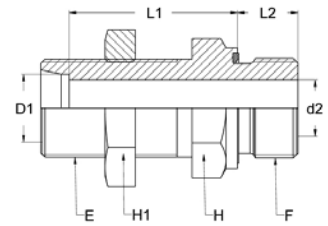
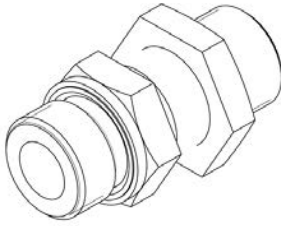
Straight Adapter Bulkhead Male 24° X Male BSPP B-Cutting Edge Type



S MBH24D X MGB

PT116	24D (E)	G (F)	TUBE (D1)	L1	L2	d2	H	H1		
8UCL8LMBB4	M14X1.5	G1/4-19f	8L	37	12	6	19	19		
8UCL8LMBB6	M14X1.5	G3/8-19f	8L	37.5	12	6	22	19		
8UCL8LMBB8	M14X1.5	G1/2-19f	8L	35	14	8	22	22		
8UCL10LMBB4	M16X1.5	G1/4-19f	10L	38	12	6	22	22		
8UCL10LMBB8	M16X1.5	G1/2-19f	10L	40	14	14	27	22		
8UCL15LMBB8	M22X1.5	G1/2-19f	15L	43	14	12	27	30		
8UCL15LMBB12	M22X1.5	G3/4-14f	15L	43	16	12	32	30		
8UCL18LMBB8	M26X1.5	G1/2-19f	18L	40,5	14	14	32	36		
8UCL18LMBB12	M26X1.5	G3/4-14f	18L	40,5	16	15	32	36		
8UCL18LMBB16	M26X1.5	G1"-11f	18L	41,5	18	15	41	36		
8UCL22LMBB12	M30X2	G3/4-14f	22L	42,5	16	18	36	41		
8UCL16SMBB8	M24X1.5	G1/2-19f	16S	43,5	14	12	32	32		
8UCL16SMBB12	M24X1.5	G3/4-14f	16S	43,5	16	18	32	32		
8UCL20SMBB8	M30X2	G1/2-19f	20S	46,5	14	12	41	41		
8UCL20SMBB12	M30X2	G3/4-14f	20S	46,5	16	16	41	41		
8UCL25SMBB12	M36X2	G3/4-14f	25S	50	16	18	46	46		
8UCL25SMBB16	M36X2	G1"-11f	25S	50	18	23	46	46		
8UCL25SMBB24	M36X2	G1"1/2-11f	25S	53	22	36	55	46		

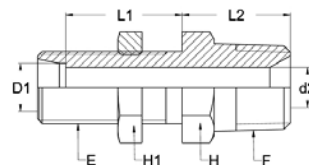
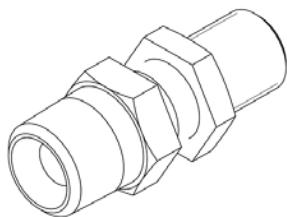
Fittings delivered without union nut or cutting ring.

Straight Adapter Bulkhead Male 24° X Male BSPP E captive seal

S MBH24D X MGE

PT216	24D (E)	G (F)	TUBE (D1)	L1	L2	d2	H	H1		
8UCL6LMBE2	M12X1.5	G1/8-28f	6L	35,4	8	4	17	17		
8UCL6LMBE4	M12X1.5	G1/4-19f	6L	37	12	6	19	17		
8UCL8LMBE4	M14X1.5	G1/4-19f	8L	37	12	6	19	19		
8UCL8LMBE6	M14X1.5	G3/8-19f	8L	37,5	12	9	22	19		
8UCL8LMBE8	M14X1.5	G1/2-14f	8L	39	14	14	27	19		
8UCL10LMBE4	M16X1.5	G1/4-19f	10L	38	12	6	22	22		
8UCL10LMBE6	M16X1.5	G3/8-19f	10L	38,5	12	8	22	22		
8UCL10LMBE8	M16X1.5	G1/2-14f	10L	40	14	14	27	22		
8UCL12LMBE4	M18X1.5	G1/4-19f	12L	39	12	6	24	24		
8UCL12LMBE6	M18X1.5	G3/8-19f	12L	39,5	12	9	24	24		
8UCL12LMBE6	M18X1.5	G3/8-19f	12L	39,5	12	9	24	24		
8UCL12LMBE8	M18X1.5	G1/2-14f	12L	41	14	14	27	24		
8UCL15LMBE8	M22X1.5	G1/2-14f	15L	43	14	12	27	30		
8UCL15LMBE12	M22X1.5	G3/4-14f	15L	43	16	16	32	30		
8UCL18LMBE8	M26X1.5	G1/2-14f	18L	44,5	14	14	32	36		
8UCL18LMBE12	M26X1.5	G3/4-14f	18L	44,5	16	15	32	36		
8UCL18LMBE16	M26X1.5	G1"-11f	18L	45,5	18	20	41	36		
8UCL22LMBE12	M30x2	G3/4-14f	22L	47,5	16	18	36	41		
8UCL28LMBE12	M36x2	G3/4-14f	28L	48,5	16	18	41	46		
8UCL28LMBE16	M36x2	G1"-11f	28L	48,5	18	23	41	46		
8UCL28LMBE20	M36x2	G1"1/4-11f	28L	50,5	20	24	50	46		
8UCL35LMBE20	M45x2	G1"1/4-11f	35L	51,5	20	30	50	55		
8UCL35LMBE24	M45x2	G1"1/2-11f	35L	54,5	22	36	55	55		
8UCL42LMBE20	M52X2	G1"1/4-11f	42L	54	20	28	60	60		
8UCL42LMBE24	M52x2	G1"1/2-11f	42L	54	22	36	60	60		
8UCL10SMBE6	M18x1.5	G3/8-19f	10S	40	12	7	24	24		
8UCL10SMBE8	M18x1.5	G1/2-14f	10S	41,5	14	12	27	27		
8UCL12SMBE6	M20x1.5	G3/8-19f	12S	42	12	8	27	27		
8UCL12SMBE8	M20x1.5	G1/2-14f	12S	42,5	14	12	27	27		
8UCL14SMBE8	M22x1.5	G1/2-14f	14S	42	14	10	30	30		
8UCL16SMBE8	M24x1.5	G1/2-14f	16S	43,5	14	12	32	32		
8UCL16SMBE12	M24x1.5	G3/4-14f	16S	43,5	16	16	32	32		
8UCL20SMBE8	M30x2	G1/2-14f	20S	46,5	14	12	41	41		
8UCL20SMBE12	M30x2	G3/4-14f	20S	46,5	16	16	41	41		
8UCL20SMBE16	M30x2	G1"-11f	20S	46,5	18	20	41	41		
8UCL25SMBE12	M36x2	G3/4-14f	25S	50	16	16	46	46		
8UCL25SMBE16	M36x2	G1"-11f	25S	50	18	20	46	46		
8UCL25SMBE20	M36x2	G1"1/4-11f	25S	50	20	25	50	46		
8UCL30SMBE16	M42x2	G1"-11f	30S	52,5	18	20	50	50		
8UCL30SMBE20	M42x2	G1"1/4-11f	30S	52,5	20	25	50	50		
8UCL38SMBE20	M52x2	G1"1/4-11f	38S	55	20	25	65	65		

Fittings delivered without union nut or cutting ring.

Straight Adapter Bulkhead Male 24° X Male NPT

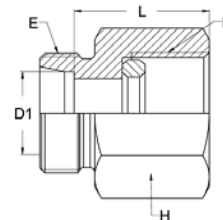
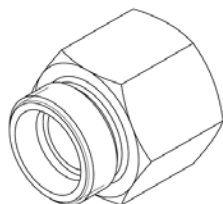


S MBH 24D X MNPT

PT230	24D (E)	NPT (F)	TUBE (D1)	L1	L2	d2	H	H1		
8UCL12LMN8	M18X1.5	1/2-14f	12L	29	27	12	24	24		
8UCL15LMN8	M22X1.5	1/2-14f	15L	31	28	12	27	30		
8UCL13GMN6	M20X1.5	3/8-18f	13G	31	28	12	27	27		
8UCL13GMN8	M20X1.5	1/2-14f	13G	29	28	12	27	27		
8UCL17GMN8	M24X1.5	1/2-14f	17G	31	28	12	32	32		

Fittings delivered without union nut or cutting ring.

Straight Adapter Male 24° X Female BSP Pressure gauge coupling + DKI Seal

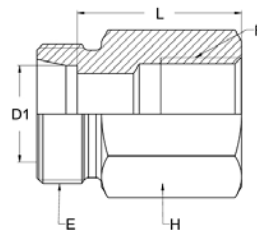
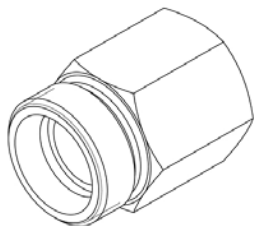


S M24D X FBSP MANO +DKI

PT114	24D (E)	BSP (F)	TUBE (D1)	L	H					
8U6LFBK4	M12X1.5	G1/4-19f	6L	21	19					
8U8LFBK4	M14X1.5	G1/4-19f	8L	21	19					
8U10LFBK4	M16X1.5	G1/4-19f	10L	22	19					
8U12LFBK4	M18X1.5	G1/4-19f	12L	22	19					
8U6SFBK8	M14X1.5	G1/2-14f	6S	31	27					
8U8SFBK8	M16X1.5	G1/2-14f	8S	31	27					
8U10SFBK8	M18X1.5	G1/2-14f	10S	30.5	27					
8U12SFBK8	M20X1.5	G1/2-14f	12S	30.5	27					

Fittings delivered without union nut or cutting ring.

Straight Adapter Male 24° X Female BSPP

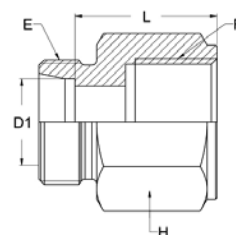
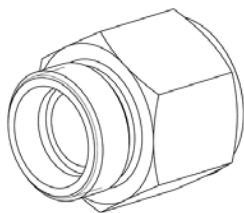


S M24D X FG

PT348	24D (E)	BSP (F)	TUBE (D1)	L	H					
8U6LFB2	M12X1.5	G1/8-28f	6L	19	14					
8U6LFB4	M12X1.5	G1/4-19f	6L	23	19					
8U8LFB4	M14X1.5	G1/4-19f	8L	24	19					
8U8LFB6	M14X1.5	G3/8-19f	8L	25	22					
8U8LFB8	M14X1.5	G1/2-14f	8L	29	27					
8U10LFB4	M16X1.5	G1/4-19f	10L	25	19					
8U10LFB6	M16X1.5	G3/8-19f	10L	26	22					
8U10LFB8	M16X1.5	G1/2-14f	10L	30	27					
8U12LFB4	M18X1.5	G1/4-19f	12L	21,5	19					
8U12LFB6	M18X1.5	G3/8-19f	12L	26	22					
8U12LFB8	M18X1.5	G1/2-14f	12L	30	27					
8U15LFB8	M22X1.5	G1/2-14f	15L	31	27					
8U18LFB8	M26X1.5	G1/2-14f	18L	30,5	27					
8U22LFB12	M30X2	G3/4-14f	22L	35,5	32					
8U28LFB16	M36X2	G1"-11f	28L	38	41					
8U35LFB20	M45X2	G1"1/4-11f	35L	35,5	50					
8U42LFB24	M52X2	G1"1/2-11f	42L	39	55					
8U6SFB4	M14X1.5	G1/4-19f	6S	26	19					
8U8SFB4	M16X1.5	G1/4-19f	8S	26	19					
8U10SFB6	M18X1.5	G3/8-19f	10S	26,5	22					
8U12SFB6	M20X1.5	G3/8-19f	12S	26,5	22					
8U12SFB8	M20X1.5	G1/2-14f	12S	30,5	27					
8U14SFB8	M22X1.5	G1/2-14f	14S	32	27					
8U16SFB6	M24X1.5	G3/8-19f	16S	27	27					
8U16SFB8	M24X1.5	G1/2-14f	16S	31,5	27					
8U20SFB12	M30X2	G3/4-14f	20S	34,5	32					
8U25SFB16	M36X2	G1"-11f	25S	37,5	41					
8U30SFB20	M42X2	G1"1/4-11f	30S	42	50					
8U38SFB24	M52X2	G1"1/2-11f	38S	43,5	55					

Fittings delivered without union nut or cutting ring.

Straight Adapter Male 24° X Female Farm

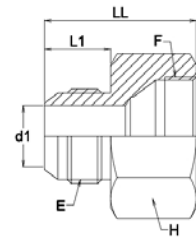
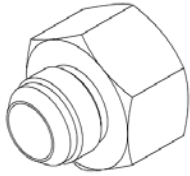


S M24D X FFARM

PT378	24D (E)	FARM (F)	TUBE (D1)	L	H					
8U13GFIA18	M20X1.5	M18X1.5	13G	21,5	24					
8U13GFIA24	M20X1.5	M24X1.5	13G	23,5	30					
8U17GFIA18	M24X1.5	M18X1.5	17G	22	24					

Fittings delivered without union nut or cutting ring.

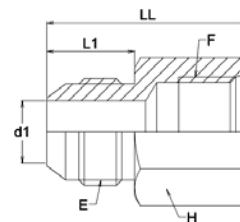
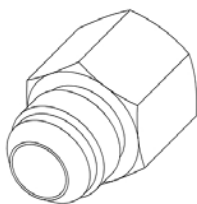
Straight Adapter Male JIC X Female JIC



S MJIC X FJIC

PT245	JIC (E)	JIC (F)	L1	LL	d1	H				
1CS16080	5/16-24f	7/16-20f	14	30,6	1,6	17				
1CS16090	7/16-20f	1/2-20f	14	31,5	4,4	17				
1CS19100	7/16-20f	9/16-18f	14	32,5	4,4	19				
1CS23150	7/16-20f	3/4-16f	14	36	4,4	24				
1CS27210	7/16-20f	7/8-14f	14	39	4,4	27				
1CS32216	7/16-20f	1"1/16-12f	14	41,5	4,4	32				
1CS19160	1/2-20f	9/16-18f	14	32,5	6	19				
1CS16082	9/16-18f	7/16-20f	14.1	26,3	7,5	24				
1CS23190	9/16-18f	3/4-16f	14.1	35	7,5	24				
1CS27220	9/16-18f	7/8-14f	14.1	38	7,5	27				
1CS32218	9/16-18f	1"1/16-12f	14.1	40,6	7,5	32				
1CS22010	3/4-16f	7/16-20f	16.7	33	9,9	22				
1CS22014	3/4-16f	9/16-18f	16.7	36,5	9,9	22				
1CS27250	3/4-16f	7/8-14f	16.7	42	9,9	27				
1CS32280	3/4-16f	1"1/16-12f	16.7	41,5	9,9	32				
1CS41290	3/4-16f	1"5/16-12f	16.7	47	9,9	41				
1CS24016	7/8-14f	3/4-16f	19.3	40,5	12,3	24				
1CS32300	7/8-14f	1"1/16-12f	19.3	44	12,3	32				
1CS41310	7/8-14f	1"5/16-12f	19.3	48,5	12,3	41				
1CS27260	1"1/16-12f	3/4-16f	21.9	43	15,5	30				
1CS32200	1"1/16-12f	7/8-14f	21.9	43	15,5	30				
1CS41330	1"1/16-12f	1"5/16-12f	21.9	50	15,5	41				
1CS50335	1"1/16-12f	1"5/8-12f	21.9	53	15,5	50				
1CS34010	1"5/16-12f	3/4-16f	23.1	44	21,5	36				
1CS34020	1"5/16-12f	7/8-14f	23.1	44	21,5	36				
1CS34030	1"5/16-12f	1"1/16-12f	23.1	50	21,5	36				
1CS50340	1"5/16-12f	1"5/8-12f	23.1	53	21,5	50				
1CS55340	1"5/16-12f	1"7/8-12f	23.1	58,5	21,5	60				
1CS42010	1"5/8-12f	1"1/16-12f	24.3	50	21,5	46				
1CS42020	1"5/8-12f	1"5/16-12f	24.3	50	27,5	46				
1CS55345	1"5/8-12f	1"7/8-12f	24.3	57	27,5	60				
1CS55350	1"7/8-12f	1"5/8-12f	27.5	56	33	50				
1CS75350	1"7/8-12f	2"1/2-12f	27.5	69	33	75				

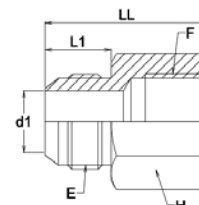
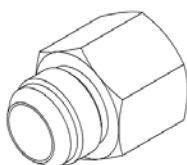
Straight Adapter Male JIC X Female SAE



S MJIC X FSAE

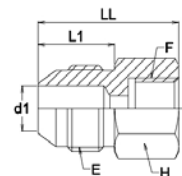
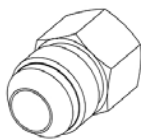
PT165	JIC (E)	SAE (F)	L1	LL	d1	H				
1CF27140	7/8-14f	1/2-20f	19.3	27.5	11.3	24				
1CF27150	1"1/16-12f	7/8-14f	21.9	46	15.5	27				

Straight Adapter Male JIC X Female BSPP

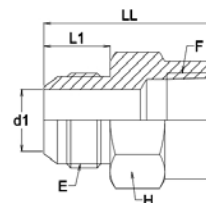
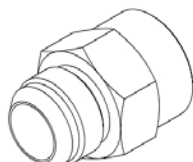


S MJIC X FG

PT108	JIC (E)	G (F)	L1	LL	d1	H				
1CQ14050	7/16-20f	G1/8-28f	14	29.5	4.4	14				
1CQ17060	7/16-20f	G1/4-19f	14	34.5	4.4	19				
1CQ14070	1/2-20f	G1/8-28f	14	29	6	14				
1CQ17080	1/2-20f	G1/4-19f	14	34	6	19				
1CQ17090	9/16-18f	G1/8-28f	14.1	28.5	7.5	17				
1CQ19090	9/16-18f	G1/4-19f	14.1	33.5	7.5	19				
1CQ21100	9/16-18f	G3/8-19f	14.1	35.5	7.5	22				
1CQ23110	3/4-16f	G3/8-19f	16.7	37	9.9	22				
1CQ27120	3/4-16f	G1/2-14f	16.7	42	9.9	27				
1CQ32122	3/4-16f	G3/4-14f	16.7	46	9.9	32				
1CQ27130	7/8-14f	G1/2-14f	19.3	44	12.3	27				
1CQ27140	1"1/16-12f	G1/2-14f	21.9	45.5	15.5	27				
1CQ32150	1"1/16-12f	G3/4-14f	21.9	49	15.5	32				
1CQ41160	1"5/16-12f	G1"-11f	23.1	57	21.5	41				
1CQ42162	1"5/8-12f	G1"-11f	24.3	56	27.5	41				
1CQ50170	1"5/8-12f	G1"1/4-11f	24.3	59.5	27.5	50				
1CQ60180	1"7/8-12f	G1"1/2-11f	27.5	65.5	33	55				
1CQ71190	2"1/2-12f	G2"-11f	33.9	72	45	70				

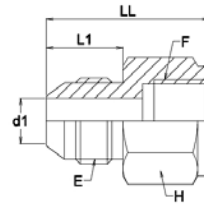
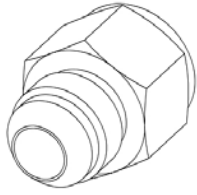
Straight Adapter Male JIC X Female BSPP Pressure gauge coupling

S MJIC X FG MANO

PT281	JIC (E)	G (F)	L1	LL	d1	H				
1CQ19065	7/16-20f	G1/4-19f	14	34	4,4	19				
1CQ27066	7/16-20f	G1/2-14f	14	44	4,4	27				
1CQ19085	1/2-20f	G1/4-19f	14	31	5,5	19				
1CQ27106	1/2-20f	G1/2-14f	14	43	6	27				
1CQ19095	9/16-18f	G1/4-19f	14.1	31.1	7,5	19				
1CQ27116	9/16-18f	G1/2-14f	14.1	36.1	7.5	27				
1CQ19105	3/4-16f	G1/4-19f	16.7	31	10	22				
1CQ27126	3/4-16f	G1/2-14f	16.7	38.7	9,9	27				
1CQ27136	7/8-14f	G1/2-14f	19.3	41.3	12,3	27				
1CQ30146	1"1/16-12f	G1/2-14f	21.9	43.9	15,5	27				

Straight Adapter Male JIC X Female NPT

S MJIC X FNPT

PT228	JIC (E)	NPT (F)	L1	LL	d1	H				
1CR16050	7/16-20f	1/8-27f	14	30,2	4,4	16				
1CR19060	7/16-20f	1/4-18f	14	35,3	4,4	19				
1CR22060	7/16-20f	3/8-18f	14	36,8	4,4	22				
1CR14055	1/2-20f	1/8-27f	14	29,7	6	16				
1CR19070	1/2-20f	1/4-18f	14	35,3	6	19				
1CR19080	9/16-18f	1/4-18f	14.1	35,6	7,5	19				
1CR24090	9/16-18f	3/8-18f	14.1	37,1	7,5	22				
1CR30100	9/16-18f	1/2-14f	14.1	42,9	7,5	29				
1CR19095	3/4-16f	1/4-18f	16.7	39,3	9,9	19				
1CR24100	3/4-16f	3/8-18f	16.7	39,6	9,9	22				
1CR29110	3/4-16f	1/2-14f	16.7	45,5	9,9	29				
1CR24105	7/8-14f	3/8-18f	19.3	42,4	12,3	24				
1CR29120	7/8-14f	1/2-14f	19.3	48	12,3	30				
1CR36130	1"1/16-12f	3/4-14f	21.9	52,3	15,5	36				
1CR36150	1"5/16-12f	3/4-14f	23.1	53,9	21,5	36				
1CR46140	1"5/16-12f	1"-11,5f	23.1	59,7	21,5	41				
1CR54150	1"5/8-12f	1"1/4-11,5f	24.3	63,2	27,5	50				
1CR63160	1"7/8-12f	1"1/2-11,5f	27.5	66,5	33	60				
1CR77170	2"1/2-12f	2"-11,5f	33.9	75,4	45	75				

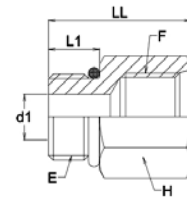
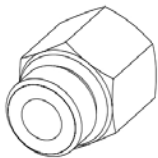
Straight Adapter Male JIC X Female Farm



S MJIC X FFARM

PT305	JIC (E)	FARM (F)	L1	LL	d1	H				
1IZ23130	9/16-18f	M14X1.5	14,1	33	7.5	19				
1IZ23140	9/16-18f	M16X1.5	14,1	34	7.5	22				
1IZ23115	3/4-16f	M16X1.5	16.7	36	9.9	22				
1IZ23120	3/4-16f	M18X1.5	16.7	35.5	9.9	24				

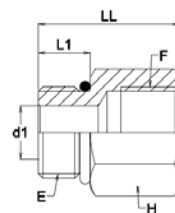
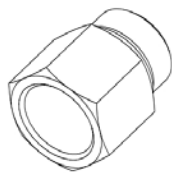
Straight Adapter Male SAE + O-Ring X Female SAE



S MSAE +OR X FSAE

PT202	SAE (E)	SAE (F)	L1	LL	d1	H				
1IZ27140	7/8-14f	9/16-18f	12,7	21,7	12,8	27				
1IZ32105	7/8-14f	1"1/16-12f	12,7	43,5	12,3	32				
1IZ41108	7/8-14f	1"5/16-12f	12,7	46,5	12,3	41				
1IZ32150	1"1/16-12f	7/8-14f	15,1	39,1	15,5	32				
1IZ41120	1"5/16-12f	1"1/16-12f	15,1	43	21,5	41				

Straight Adapter Male SAE + O-Ring X Female BSPP

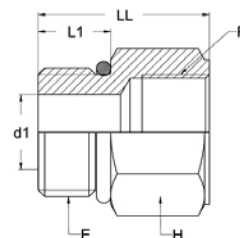
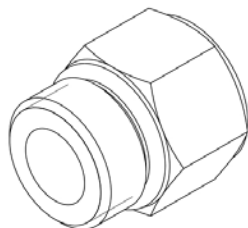


S MSAE +OR X FG

PT149	SAE (E)	G (F)	L1	LL	d1	H				
1IZ19050	7/16-20f	G1/4-19f	9.14	29.5	4.4	19				
1IZ21070	9/16-18f	G3/8-19f	9.93	31.5	7.5	22				
1IZ17060	5/8-18f (1)	G1/4-19f	15.7	34.5	7	19				
1IZ23080	3/4-16f	G1/4-19f	11.13	30.5	9.9	22				
1IZ23090	3/4-16f	G3/8-19f	11.13	31	9.9	22				
1IZ29100	7/8-14f	G1/2-14f	12.7	37	12.3	27				
1IZ32102	1"1/16-12f	G1/2-14f	15.09	38	15.5	32				
1IZ32104	1"1/16-12f	G3/4-14f	15.09	41	15.5	32				

(1) 90° cone male (sealing on the cone , without O-ring).

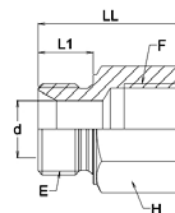
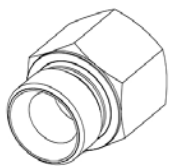
Straight Adapter Male SAE + O-Ring X Female Farm



S MSAE +OR X FFARM

PT473	SAE (E)	ISO (F)	L1	LL	d1	H				
1JB23100	9/16-18f	M18X1.5	9.9	29	7.5	24				
1JB23110	3/4-16f	M18X1.5	11.1	30	9.9	24				
1JB27120	7/8-14f	M18X1.5	12.7	32	12	27				
1IZ27130	7/8-14f	M20X1.5	12.7	34	12.3	27				

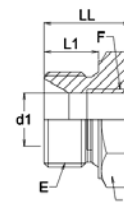
Straight Adapter Male BSP for bonded seal X Female BSPP



S MBSPBS X FG

PT145	BSPBS (E)	G (F)	L1	LL	D	H				
1AQ14050	G1/8-28f	G1/8-28f	8	23	3,5	14				
1AQ17040	G1/8-28f	G1/4-19f	8	28,5	3,5	19				
1AQ17045	G1/4-19f	G1/8-28f	11	25	4,7	19				
1AQ17050	G1/4-19f	G1/4-19f	11	30	4,7	19				
1AQ21060	G1/4-19f	G3/8-19f	11	31	4,7	22				
1AQ27050	G1/4-19f	G1/2-14f	11	38	4,7	27				
1AQ21080	G3/8-19f	G1/4-19f	12	30	7,9	22				
1AQ21090	G3/8-19f	G3/8-19f	12	31	7,9	22				
1AQ27100	G3/8-19f	G1/2-14f	12	38	7,9	27				
1AQ27110	G1/2-14f	G3/8-19f	14	33	11,1	27				
1AQ27120	G1/2-14f	G1/2-14f	14	38	11,1	27				
1AQ32100	G1/2-14f	G3/4-14f	14	43	11,1	32				
1AQ32140	G3/4-14f	G3/4-14f	16	42	16,7	32				
1AQ41150	G3/4-14f	G1"-11f	16	52,5	16,7	41				
1AQ42140	G1"-11f	G1/2-14f	19	42	18,6	41				
1AQ42145	G1"-11f	G3/4-14f	20,5	47,5	22,2	41				
1AQ42150	G1"-11f	G1"-11f	19	51	22,2	41				
1AQ50148	G1"-11f	G1"1/4-11f	19	55	22,2	50				
1AQ50156	G1"1/4-11f	G1"-11f	20	50	28,6	50				
1AQ50160	G1"1/4-11f	G1"1/4-11f	20	53	28,6	50				
1AQ60164	G1"1/4-11f	G1"1/2-11f	20	58	28,6	55				
1AQ60165	G1"1/2-11f	G1"1/4-11f	22	54,5	33,3	55				
1AQ60170	G1"1/2-11f	G1"1/2-11f	22	60	33,3	55				
1AQ70168	G1"1/2-11f	G2"-11f	22	65	33,3	70				
1AQ70178	G2"-11f	G1"1/2-11f	25	60	45	70				
1AQ70180	G2"-11f	G2"-11f	25	63	46	70				
1AQ88190	G2"1/2-11f	G2"1/2-11f	30	72	58	90				

Straight Adapter Male BSP for bonded seal X Female BSPP concentric

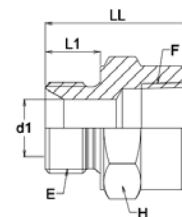
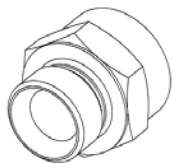


S MBSPBS X FG CONCE

PT179	BSPBS (E)	G (F)	L1	LL	d1	H				
1AQ17046	G1/4-19f (1)	G1/8-28f	12	28	4,7	19				
1AQ21070	G3/8-19f	G1/8-28f	12	21	8,6	22				
1AQ21076	G3/8-19f (1)	G1/4-19f	12	21	11,5	22				
1AQ27106	G1/2-14f	G1/8-28f	14	24	8,6	27				
1AQ27108	G1/2-14f	G1/4-19f	14	24	11,5	27				
1AQ27116	G1/2-14f (1)	G3/8-19f	14	24	14,9	27				
1AQ32126	G3/4-14f	G1/4-19f	16	26	16,7	32				
1AQ32130	G3/4-14f	G3/8-19f	16	26	16,7	32				
1AQ32136	G3/4-14f	G1/2-14f	16	26	16,7	32				
1AQ42125	G1"-11f	G1/4-19f	19	30	22,2	41				
1AQ42126	G1"-11f	G3/8-19f	19	30	22,2	41				
1AQ42136	G1"-11f	G1/2-14f	19	30	18,6	41				
1AQ42146	G1"-11f	G3/4-14f	19	30	22,2	41				
1AQ50150	G1"1/4-11f	G1/4-19f	20	33	28,6	50				
1AQ50152	G1"1/4-11f	G1/2-14f	20	33	28,6	50				
1AQ50154	G1"1/4-11f	G3/4-14f	20	33	24,1	50				
1AQ50146	G1"1/4-11f	G1"-11f	20	33	30,3	50				
1AQ60166	G1"1/2-11f	G3/4-14f	22	38	33,3	55				
1AQ60176	G1"1/2-11f	G1"-11f	22	38	30,3	55				
1AQ60186	G1"1/2-11f	G1"1/4-11f	22	38	33,3	55				
1AQ70163	G2"-11f	G1/2-14f	25	44	46	70				
1AQ70165	G2"-11f	G3/4-14f	25	44	46	70				
1AQ70166	G2"-11f	G1"-11f	25	44	46	70				
1AQ70170	G2"-11f	G1"1/4-11f	25	44	39	70				
1AQ70175	G2"-11f	G1"1/2-11f	25	44	44,9	70				

(1) Without groove, limited tightening torque and reduced operating pressure.

Straight Adapter Male BSP for bonded seal X Female NPT

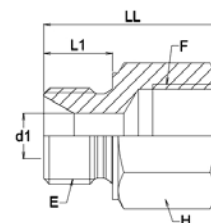
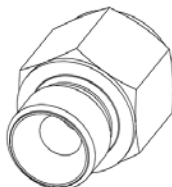


S MBSPBS X FNPT

PT287	BSPBS (E)	NPT (F)	L1	LL	d1	H				
1AR16050	G1/8-28f	1/8-27f	8	23	3,5	16				
1AR19060	G1/8-28f	1/4-18f	8	28	3,5	19				
1AR19070	G1/4-19f	1/4-18f	11	31	4,7	19				
1AR24080	G1/4-19f	3/8-18f	11	33	4,7	22				
1AR24081	G1/4-19f (1)	3/8-18f	11	32	4,7	22				
1AR21090	G3/8-19f	1/4-18f	12	32	7,9	22				
1AR24100	G3/8-19f	3/8-18f	12	34	7,9	22				
1AR27110	G1/2-14f (C)	1/4-18f	14	24	10,7	27				
1AR29120	G1/2-14f	1/2-14f	14	40	11,1	30				
1AR36130	G3/4-14f	3/4-14f	16	42	16,7	36				
1AR46140	G1"-11f	1"-11,5f	20,5	52	23	41				
1AR54150	G1"1/4-11f	1"1/4-11,5f	20	55	28,6	50				
1AR63160	G1"1/2-11f	1"1/2-11,5f	22	57	33,3	60				
1AR70190	G2"-11f (C)	1/2-14f	25	44	46	70				

(C) Concentric. (1) Standard: not for BS Ring.

Straight Adapter Male BSP for bonded seal X Female ISO

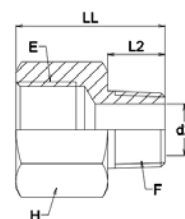
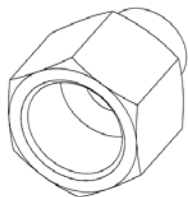


S MBSPBS X FISO

PT254	BSPBS (E)	ISO (F)	L1	LL	d1	H				
1ID32040	G1/4-19f	M16X1.5	11	24	4,7	22				
1IZ22110	G1/2-14f (1)	M16X1.5	14	32,5	11,1	22				
1ID27060	G1/2-14f	M18X1.5	14	32,5	11,1	27				
1ID32060	G3/4-14f	M16X1.5	16	26	16,7	32				
1ID32070	G3/4-14f	M18X1.5	16,7	26	16,5	32				

(1) Standard: not for BS Ring.

Straight Adapter Female BSPP X Male BSPT

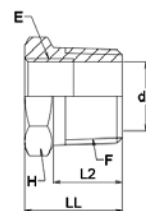


S FG X MR

PT117	G (E)	R (F)	L2	LL	d2	H				
1GQ12920	G1/8-28f (P)	R1/8-28f	5	10	4,5	12				
1GQ12930	G1/8-28f (P)	R1/8-28f	5	15	4,5	12				
1GQ14920	G1/8-28f (P)	R1/8-28f	10	23,5	4,5	14				
1GQ14930	G1/8-28f (P)	R1/8-28f	10	31,8	4,5	14				
1GQ14940	G1/8-28f (P)	R1/8-28f	10	58,6	4,5	14				
1GQ14950	G1/8-28f (P)	R1/8-28f	10	61,7	4,5	14				
1GQ17810	G1/4-19f	R1/8-28f	10	30,5	4,5	19				
1GQ17930	G1/4-19f	R1/4-19f	14	33,5	7	19				
1GQ19931	G1/4-19f	R1/4-19f (1)	12	29	5	19				
1GQ21815	G3/8-19f	R1/8-28f	10	31,5	4,5	22				
1GQ21840	G3/8-19f	R1/4-19f	14	34,5	7	22				
1GQ21940	G3/8-19f	R3/8-19f	15	34,5	10	22				
1GQ27820	G1/2-14f	R1/8-28f	10	39,5	4,5	27				
1GQ27850	G1/2-14f	R1/4-19f	14	40,5	7	27				
1GQ27860	G1/2-14f	R3/8-19f	15	40	10	27				
1GQ27970	G1/2-14f	R1/2-14f	19	43	13	27				
1GQ32830	G3/4-14f	R1/8-28f	10	40	4,5	32				
1GQ32865	G3/4-14f	R3/8-19f	15	43,8	10	32				
1GQ32870	G3/4-14f	R1/2-14f	19	46,5	13	32				
1GQ32980	G3/4-14f	R3/4-14f	20	46	18	32				
1GQ41880	G1"-11f	R1/2-14f	19	55,5	13	41				
1GQ41890	G1"-11f	R3/4-14f	20	55	18	41				
1GQ41980	G1"-11f	R1"-11f	24	57	24	41				
1GQ50910	G1"1/4-11f	R1"-11f	24,2	59,7	24	50				
1GQ60920	G1"1/2-11f	R1"1/4-11f	25	64	31	55				
1GQ70930	G2"-11f	R1"1/2-11f	25	65,5	38	70				

(P) Extension. (1) BSPT female x BSPP Male.

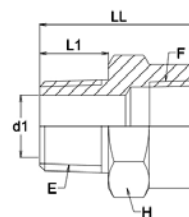
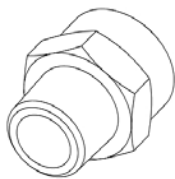
Straight Adapter Female BSPP X Male BSPT concentric



S FG X MR CONCE

PT126	G (E)	R (F)	L2	LL	d2	H				
1GQ14050	G1/8-28f	R1/4-19f	14	21	7	14				
1GQ17060	G1/8-28f	R3/8-19f	15	22	8,6	17				
1GQ22075	G1/8-28f	R1/2-14f	19	27	13	22				
1GQ27090	G1/8-28f	R3/4-14f	20	29	18	27				
1GQ17070	G1/4-19f	R3/8-19f	15	23	11,5	19				
1GQ22080	G1/4-19f	R1/2-14f	19	27	11,5	22				
1GQ27095	G1/4-19f	R3/4-14f	20	29	11,5	27				
1GQ22090	G3/8-19f	R1/2-14f	19	27	15	22				
1GQ27100	G3/8-19f	R3/4-14f	20	29	15	27				
1GQ27110	G1/2-14f	R3/4-14f	20	29	18,7	27				
1GQ34120	G1/2-14f	R1"-11f	24	34	24	36				
1GQ45137	G1/2-14f	R1"1/4-11f	25	37	31	46				
1GQ50120	G1/2-14f	R1"1/2-11f	25	37	38	50				
1GQ34130	G3/4-14f	R1"-11f	24	34	24,2	36				
1GQ45150	G3/4-14f	R1"1/4-11f	25	37	31	46				
1GQ50130	G3/4-14f	R1"1/2-11f	25	37	38	50				
1GQ45140	G1"-11f	R1"1/4-11f	25	37	30,3	46				
1GQ50150	G1"-11f	R1"1/2-11f	25	37	38	50				
1GQ65160	G1"-11f	R2"-11F	30	45	49	65				
1GQ50160	G1"1/4-11f	R1"1/2-11f	25	37	39	50				
1GQ63170	G1"1/4-11f	R2"-11f	30	45	49	65				
1GQ63180	G1"1/2-11f	R2"-11f	30	45	44,9	65				

Straight Adapter Male BSPT X Female NPT

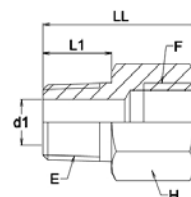
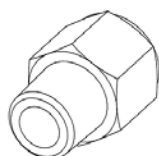


S MR X FNPT

PT178	R (E)	NPT (F)	L1	LL	d1	H				
1GR24050	R1/4-19f	3/8-18f	14	33,5	7	22				
1GR17050	R3/8-19f (C)	1/8-27f	15	22	8,3	17				
1GR19060	R3/8-19f (C)	1/4-18f	15	23	10,7	19				
1GR24070	R3/8-19f	3/8-18f	15	33	10	22				
1GR22070	R1/2-14f (C)	1/8-27f	19	27	8,3	22				
1GR22080	R1/2-14f (C)	1/4-18f	19	27	13	22				
1GR29090	R1/2-14f	1/2-14f	19	44	13	30				
1GR36100	R3/4-14f	3/4-14f	20	45	18	36				
1GR46110	R1"-11f	1"-11,5f	24	55	24	41				

(C) oncentric.

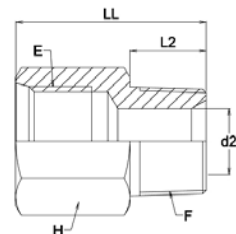
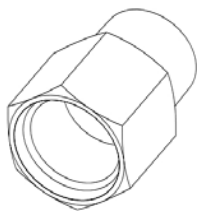
Straight Adapter Male BSPT X Female ISO / Farm



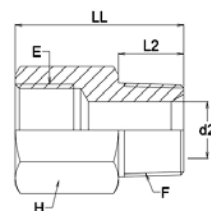
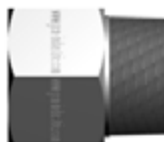
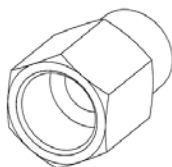
S MR X FISO / FARM

PT161	R (E)	ISO (F)	L1	LL	d1	H				
1IB14050	R1/4-19f	M10X1	14	29	7	14				
1IB19050	R1/4-19f	M14X1.5	14	33	7	19				
1IB21060	R1/4-19f	M16X1.5	14	34,5	7	22				
1IB23090	R1/4-19f	M18X1.5	14	35	7	24				
1IB26100	R1/4-19f	M22X1.5	14	38	7	30				
1IB19080	R3/8-19f	M14X1.5	15	33	10	19				
1IB21090	R3/8-19f	M16X1.5	15	34	10	22				
1JB22100	R3/8-19f	M18X1.5 (1)	15	34,5	10	24				
1IB26110	R3/8-19f	M22X1.5	15	37,5	10	27				
1IB22120	R1/2-14f (C)	M14X1.5	19	27	12,4	22				
1IB22130	R1/2-14f (C)	M16X1.5	19	27	13	22				
1JB22140	R1/2-14f	M18X1.5 (1)	19	37,5	12	24				
1IB26150	R1/2-14f	M22X1.5	19	41	13	27				

(C) Concentric. (1) FARM.

Straight Adapter Female SAE X Male NPT

S FSAE X MNPT

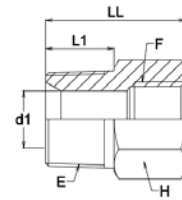
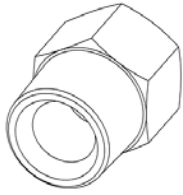
PT164	SAE (E)	NPT (F)	L2	LL	d2	H				
1HR22200	9/16-18f	1/4-18f	14,2	34	6	19				
1IZ27050	7/8-14f	1/2-14f	19	47	12	27				
1IZ32060	1"-1/16-12f	3/4-14f	19	47	16,5	32				

Straight Adapter Female BSPP X Male NPT

S FG X MNPT

PT127	G (E)	NPT (F)	L2	LL	d2	H				
1HQ14040	G1/8-28f	1/8-27f	9.7	26.4	4,5	14				
1HQ14050	G1/8-28f (C)	1/4-18f	14.2	21.6	6	14				
1HQ19050	G1/8-28f (C)	3/8-18f	14.2	21.6	8,6	19				
1HQ17045	G1/4-19f	1/8-27f	9.7	30.7	4.5	19				
1HQ17060	G1/4-19f	1/4-18f	14.2	35.3	6	19				
1HQ19070	G1/4-19f (C)	3/8-18f	14.2	21.6	9	19				
1HQ22170	G1/4-19f	1/2-14f	19	27,9	11,4	22				
1HQ34110	G1/4-19f (C)	1"-11,5f	24	33	11.5	34				
1HQ21080	G3/8-19f	3/8-18f	14.2	36.6	9	22				
1HQ22180	G3/8-19f (C)	1/2-14f	19	27.9	12	22				
1HQ30090	G1/2-14f	3/4-14f	19	29.7	16,5	27				
1HQ32100	G3/4-14f	3/4-14f	19	49	16,5	32				
1HQ27090	G1/2-14f	1/2-14f	19	47.5	12	27				
1HQ34120	G1/2-14f (C)	1"-11,5f	23.9	34.5	18,7	36				
1HQ41130	G1"-11f	1"-11,5f	23.9	60.2	21,5	41				
1HQ50140	G1"1/4-11f	1"1/4-11,5f	24.6	63.2	28,5	50				
1HQ60150	G1"1/2-11f	1"1/2-11,5f	25.4	64.3	35	55				
1HQ70160	G2"-11f	2"-11,5f	26.2	67.6	46	70				
1HQ98171	G2"1/2-11f	2"1/2-8f	38,5	86	56	90				

(C) oncentric.

Straight Adapter Male NPT X Female NPT

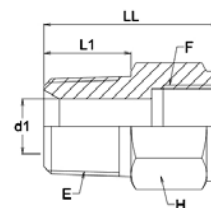
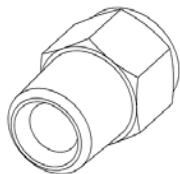


S MNPT X FNPT

PT155	NPT (E)	NPT (F)	L1	LL	d1	H				
1HR16510	1/8-27f (P)	1/8-27f	9.7	26.4	4.5	16				
1HR19810	1/8-27f	1/4-18f	9.7	30.7	4.5	19				
1HR24820	1/8-27f	3/8-18f	9.7	31.8	4.5	22				
1HR14050	1/4-18f (C)	1/8-27f	14.2	21.6	6	14				
1HR19930	1/4-18f (P)	1/4-18f	14.2	35.3	6	19				
1HR24830	1/4-18f	3/8-18f	14.2	36.6	6	22				
1HR29830	1/4-18f	1/2-14f	14.2	42.7	6	30				
1HR19060	3/8-18f (C)	1/8-27f	14.2	21.6	8,3	19				
1HR19070	3/8-18f (C)	1/4-18f	14.2	21.6	9	19				
1HR24940	3/8-18f (P)	3/8-18f	14.2	42.7	9	22				
1HR29840	3/8-18f	1/2-14f	14.2	42.7	9	30				
1HR22080	1/2-14f (C)	1/8-27f	19	27.9	8,3	22				
1HR22090	1/2-14f (C)	1/4-18f	19	27.9	10,7	22				
1HR22100	1/2-14f (C)	3/8-18f	19	27.9	12	22				
1HR29950	1/2-14f (P)	1/2-14f	19	47.5	12	29				
1HR36850	1/2-14f	3/4-14f	19	49	12	36				
1HR46852	1/2-14f	1"-11,5f	19	55.4	12	41				
1HR27110	3/4-14f (C)	1/4-18f	19	27.9	16.5	27				
1HR27120	3/4-14f (C)	3/8-18f	19	29.7	14,1	27				
1HR27130	3/4-14f (C)	1/2-14f	19	29.7	17.4	27				
1HR36540	3/4-14f (P)	3/4-14f	19	49	16.5	36				
1HR50860	3/4-14f	1"1/4-11,5f	19	57.5	18	50				
1HR34140	1"-11,5f (C)	1/4-18f	23.9	34.5	21.5	36				
1HR34150	1"-11,5f (C)	3/8-18f	23.9	34.5	21.5	36				
1HR34160	1"-11,5f (C)	1/2-14f	23.9	34.5	17.4	36				
1HR34170	1"-11,5f (C)	3/4-14f	23.9	34.5	22,7	36				
1HR54870	1"-11,5f	1"1/4-11,5f	23.9	62.5	21.5	50				
1HR45180	1"1/4-11,5f(C)	1/2-14f	24.6	37.3	28.5	46				
1HR45190	1"1/4-11,5f(C)	3/4-14f	24.6	37.3	28.5	46				
1HR45200	1"1/4-11,5f(C)	1"-11,5f	24.6	37.3	28.5	46				
1HR45560	1"1/4-11,5f	1"-11,5f	24.6	55.5	28.5	46				
1HR63875	1"1/4-11,5f	1"1/2-11,5f	24.6	63.5	28.5	60				
1HR50210	1"1/2-11,5f(C)	3/4-14f	25.4	39.9	35	50				
1HR50220	1"1/2-11,5f(C)	1"-11,5f	25.4	39.9	28.6	50				
1HR50230	1"1/2-11,5f(C)	1"1/4-11,5f	25.4	39.9	37,3	50				
1HR63220	2"-11,5f (C)	1"-11,5f	26.2	44,5	46	65				
1HR63230	2"-11,5f (C)	1"1/4-11,5f	26.2	44,5	46	65				
1HR63240	2"-11,5f (C)	1"1/2-11,5f	26.2	44,5	43,4	65				

(C) Concentric. (P) Extension.

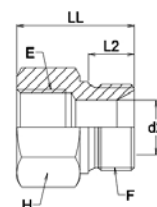
Straight Adapter Male NPT X Female ISO



S MNPT X FISO

PT261	NPT (E)	ISO (F)	L1	LL	d1	H				
1IC22050	1/2-14f	M16X1.5	19	38	12	22				
1JB23060	1/2-14f	M18X1.5	19	38	12	24				
1IC22060	3/4-14f	M18X1.5	19	38	16.5	27				

Straight Adapter Female BSPP X Male DIN Bonded seal

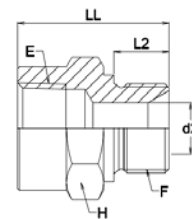


S FG X MDINBS

PT158	G (E)	DINBS (F)	L2	LL	d2	H				
1BQ14020	G1/8-28f	M8X1	8	23,5	2	14				
1BQ17030	G1/4-19f	M12X1.5	10	30	4	19				
1BQ19050	G1/4-19f	M14X1.5	12	31	6	19				
1BQ21060	G1/4-19f	M16X1.5	12	31	8	22				
1BQ23070	G1/4-19f	M18X1.5	12	31	10	24				
1BQ26055	G1/4-19f	M22X1.5	14	26	14,1	27				
1BQ21040	G3/8-19f	M12X1.5	10	31	4	22				
1BQ21070	G3/8-19f	M16X1.5	12	32,5	8	22				
1BQ23080	G3/8-19f	M18X1.5	12	32	10	24				
1BQ26070	G3/8-19f	M22X1.5	14	35	14,1	27				
1BQ26040	G1/2-14f	M16X1.5	12	38	8	27				
1BQ26050	G1/2-14f	M18X1.5	12	38	10	27				
1BQ27060	G1/2-14f	M22X1.5	14	38	14,1	27				
1BQ32120	G1/2-14f	M26X1.5	16	38,5	15	32				
1BQ32130	G3/4-14f	M26X1.5	16	43,5	15	32				
1BQ36130	G3/4-14f	M30X1.5	16	41	19	36				
1BQ44140	G1"-11f	M38X1.5	18	50	25	46				
1BQ44141	G1"-11f	M38X1.5 (2)	14	39	28	41				
1BQ52150	G1"1/4-11f	M45X1.5	20	49	33,7	54				
1BQ54160	G1"1/4-11f	M48x2 (1)	17.5	50,5	36	55				
1BQ60180	G1"1/2-11f	M52X1.5 (2)	14	46	40	60				
1BQ70190	G2"-11f	M65x2 (2)	20	58	50	70				

(1) Male ISO (without 60° cone) - (2) Small hexagon.

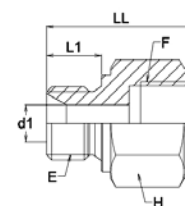
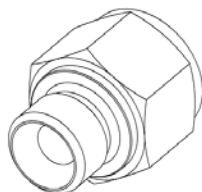
Straight Adapter Female NPT X Male DIN Bonded seal



S FNPT X MDINBS

PT248	NPT (E)	DINBS (F)	L2	LL	d2	H				
1BR19040	1/4-18f	M12x1.5	10	31	4	19				
1BR19050	1/4-18f	M14X1.5	12	33	6	19				
1BR21060	1/4-18f	M16X1.5	12	33	8	22				
1BR24070	3/8-18f	M18X1.5	12	35	10	24				
1BR29080	1/2-14f	M20X1.5	14	41,5	12	30				
1BR36100	3/4-14f	M26X1.5	16	44	15	36				

Straight Adapter Male DIN Bonded seal X Female ISO

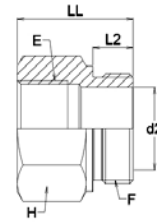
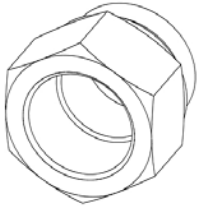


S MDINBS X FISO

PT217	DINBS (E)	ISO (F)	L1	LL	d1	H				
1IE19050	M14X1.5	M12X1.5	12	30	6	19				
1IE21090	M14X1.5	M16X1.5	11	29,5	8	21				
1IE21060	M16X1.5	M12X1.5	12	30	8	22				
1IE21070	M16X1.5	M14X1.5	12	31	8	22				
1IE23076	M16X1.5	M18X1.5	12	32,5	8	24				
1IE23080	M18X1.5	M14X1.5	12	30,5	10	24				
1IE23100	M18X1.5	M16X1.5	12	31	10	24				
1JB23070	M18X1.5	M18X1.5 (1)	12	33,5	10	24				
1IE27120	M22X1.5	M16X1.5	14	32,5	14,1	27				
1IE27150	M22X1.5 (C)	M16x1.5	14	27	14,1	27				
1JB27080	M22X1.5	M18X1.5 (1)	14	33	14,1	27				
1IE32120	M26X1.5	M22X1.5	16	38	15	32				

(C) Concentric. (1) FARM.

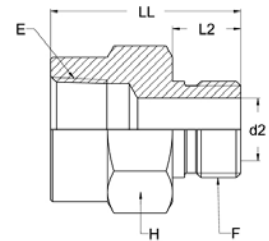
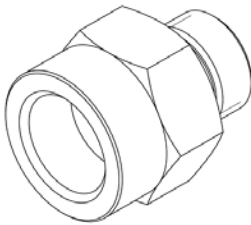
Straight Adapter Female BSPP X Male ISO / Male ISOC



S FG X MISO / MISOC

PT300	G (E)	ISO (F)	L2	LL	d2	H				
1IA17020	G1/4-19f	M10X1	8,5	28	4,5	19				
1IA26250	G1/4-19f	M22X1.5	11	21	11.5	26				
1IA26260	G3/8-19f	M22X1.5	13	24	14	27				

Straight Adapter Female NPT X Male ISO copper seal

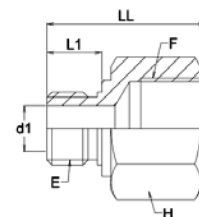
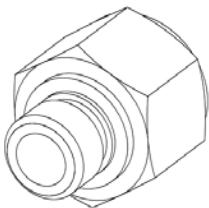


S FNPT X MISOC

PT460	NPT (E)	ISO (F)	L2	LL	d2	H				
1IA26280	1/4-18f	M22X1.5	12	25	10.7	27				
1IA26290	3/8-18f (C)	M22X1.5	12	25	10.7	27				

(C) oncentric.

Straight Adapter Male ISO copper seal X Female ISO

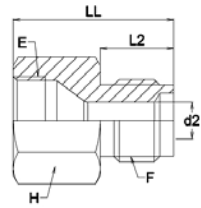
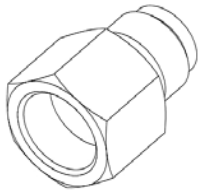


S MISOC X FISO

PT282	ISOC (E)	ISO (F)	L1	LL	d1	H				
1IA26100	M16X1.5	M22X1.5	12	34,5	10	27				
1IA26300	M22X1.5 (C)	M14X1.5	11	21	12,4	26				
1IA26310	M22X1.5 (C)	M16X1.5	11	21	14,4	26				

(C) oncentric.

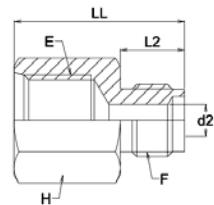
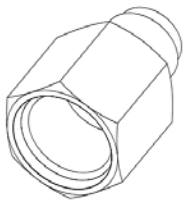
Straight Adapter Female JIC X Male Farm



S FJIC X MFARM

PT246	JIC (E)	FARM (F)	L2	LL	d2	H				
1JA24250	7/16-20f	M18X1.5	16	31.1	8	19				
1JA24260	1/2-20f	M18X1.5	16	31.5	8	19				
1JA24270	9/16-18f	M18X1.5	16	30.5	7.5	19				
1JA24280	3/4-16f	M18X1.5	16	35	8	24				

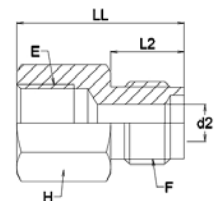
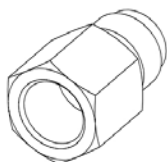
Straight Adapter Female SAE X Male Farm



S FSAE X MFARM

PT210	SAE (E)	FARM (F)	L2	LL	d2	H				
1JA24310	9/16-18f	M18X1.5	16	32	8	19				
1JA24380	3/4-16f	M18X1.5	16	39	8	24				
1JA29300	7/8-14f	M18X1.5	16	43	8	27				

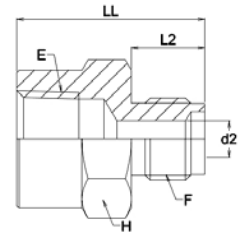
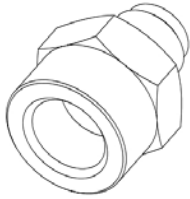
Straight Adapter Female BSPP X Male Farm



S FG X MFARM

PT209	G (E)	FARM (F)	L2	LL	d2	H				
1JA19120	G1/4-19f	M18X1.5	16	35	8	19				
1JA21130	G3/8-19f	M18X1.5	16	36.5	8	22				
1JA27140	G1/2-14f	M18X1.5	16	41.5	8	27				
1JA27190	G1"-11f	M18X1.5	16	41.5	8	41				

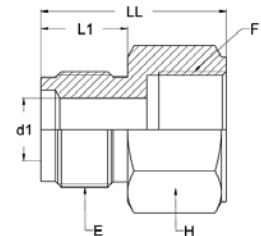
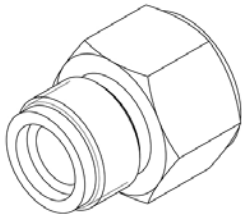
Straight Adapter Female NPT X Male Farm



S FNPT X MFARM

PT207	NPT (E)	FARM (F)	L2	LL	d2	H				
1JA29230	1/2-14f	M18X1.5	16	41	8	29				
1JA29240	3/4-14f	M18X1.5	16	41	8	36				

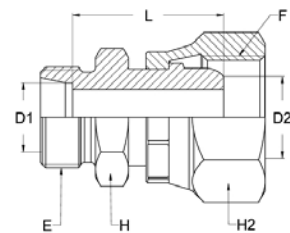
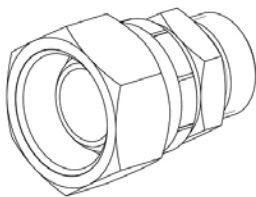
Straight Adapter Male Farm X Female Farm



S MFARM X FFARM

PT476	FARM (E)	FARM (F)	L1	LL	d1	H				
1JA22150	M18X1.5	M18X1.5	16	34,5	8	24				
1JA24370	M24X1.5	M18X1.5	18	36	12	24				

Straight Adapter Male 24° Light Series X Swivel Female 24° Gas Series

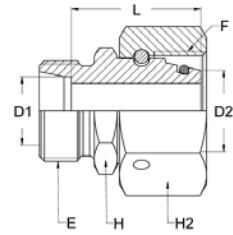
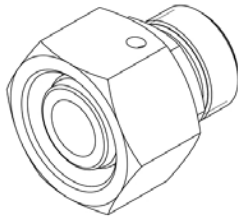


S M24D LIGHT X FS24D GAZS

PT265	24D (E)	24D (F)	TUBE (D1)	TUBE (D2)	L	H	H2			
8UFT13GM12L	M18X1.5	M20x1.5	12L	13G	26,5	19	27			
8UFT13GM15L	M22X1.5	M20x1.5	15L	13G	27.5	22	27			
8UFT13GM18L	M26X1.5	M20X1.5	18L	13G	28	27	27			

Fittings delivered without union nut or cutting ring.

Straight Adapter Male 24° X Swivel Female 24° + O-Ring



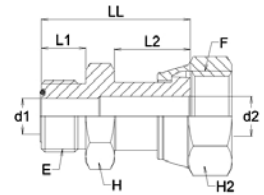
S M24D X FS24D +OR

PT344	24D (E)	24D (F)	TUBE (D1)	TUBE (D2)	L	H	H2			
8U6LFT8	M12X1.5	M14X1.5	6L	8L	21.9	12	17			
8U6LFT10	M12X1.5	M16X1.5	6L	10L	23.9	14	19			
8U6LFT12	M12X1.5	M18X1.5	6L	12L	23.9	17	22			
8U6LFT15	M12X1.5	M22X1.5	6L	15L	27.4	19	27			
8U6LFT18	M12X1.5	M26X1.5	6L	18L	26.9	24	32			
8U8LFT10	M14X1.5	M16X1.5	8L	10L	23.9	14	19			
8U8LFT12	M14X1.5	M18X1.5	8L	12L	23.9	17	22			
8U8LFT15	M14X1.5	M22X1.5	8L	15L	27.4	19	27			
8U8LFT22	M14X1.5	M30X2	8L	22L	30.4	27	36			
8U10LFT12	M16X1.5	M18X1.5	10L	12L	24.9	17	22			
8U10LFT15	M16X1.5	M22X1.5	10L	15L	28.4	19	27			
8U10LFT22	M16X1.5	M30X2	10L	22L	31.4	27	36			
8U12LFT15	M18X1.5	M22X1.5	12L	15L	28.4	19	27			
8U12LFT22	M18X1.5	M30X2	12L	22L	31.4	27	36			
8U12LFT28	M18X1.5	M36X2	12L	28L	33.4	36	46			
8U15LFT18	M22X1.5	M26X1.5	15L	18L	28.9	24	32			
8U15LFT22	M22X1.5	M30X2	15L	22L	32.4	27	36			
8U15LFT28	M22X1.5	M36X2	15L	28L	34.4	36	46			
8U15LFT35	M22X1.5	M45X2	15L	35L	36	41	50			
8U18LFT22	M26X1.5	M30X2	18L	22L	31.9	27	36			
8U18LFT28	M26X1.5	M36X2	18L	28L	33.9	36	46			
8U18LFT35	M26X1.5	M45X2	18L	35L	35.5	41	50			
8U18LFT42	M26X1.5	M52X2	18L	42L	38.5	50	60			
8U22LFT28	M30X2	M36X2	22L	28L	35.9	36	46			
8U22LFT35	M30X2	M45X2	22L	35L	37.5	41	50			
8U22LFT42	M30X2	M52X2	22L	42L	40.5	50	60			
8U28LFT35	M36X2	M45X2	28L	35L	37.5	41	50			
8U28LFT42	M36X2	M52X2	28L	42L	40.5	50	60			
8U35LFT42	M45X2	M52X2	35L	42L	39.5	50	60			
8U6SFT8	M14X1.5	M16X1.5	6S	8S	27	14	19			
8U6SFT14	M14X1.5	M22X1.5	6S	14S	31.5	19	27			
8U6SFT16	M14X1.5	M24X1.5	6S	16S	32	22	30			
8U8SFT12	M16X1.5	M20X1.5	8S	12S	29	17	24			
8U8SFT14	M16X1.5	M22X1.5	8S	14S	31.5	19	27			
8U8SFT16	M16X1.5	M24X1.5	8S	16S	32	22	30			
8U8SFT20	M16X1.5	M30X2	8S	20S	36	27	36			
8U8SFT25	M16X1.5	M36X2	8S	25S	38.5	36	46			
8U8SFT30	M16X1.5	M42X2	8S	30S	44	41	50			
8U10SFT12	M18X1.5	M20X1.5	10S	12S	31	19	24			
8U10SFT14	M18X1.5	M22X1.5	10S	14S	31	19	27			
8U10SFT16	M18X1.5	M24X1.5	10S	16S	31.5	22	30			
8U10SFT20	M18X1.5	M30X2	10S	20S	35.5	27	36			
8U10SFT25	M18X1.5	M36X2	10S	25S	38	36	46			
8U10SFT30	M18X1.5	M42X2	10S	30S	43.5	41	50			
8U12SFT14	M20X1.5	M22X1.5	12S	14S	31	22	27			
8U12SFT16	M20X1.5	M24X1.5	12S	16S	33.5	22	30			
8U12SFT20	M20X1.5	M30X2	12S	20S	35.5	27	36			
8U12SFT25	M20X1.5	M36X2	12S	25S	38	36	46			
8U12SFT30	M20X1.5	M42X2	12S	30S	43.5	41	50			
8U12SFT38	M20X1.5	M52X2	12S	38S	47	50	60			

8U14SFT16	M22X1.5	M24X1.5	14S	16S	33	24	30			
8U14SFT20	M22X1.5	M30X2	14S	20S	37	27	36			
8U14SFT25	M22X1.5	M36X2	14S	25S	39,5	36	46			
8U16SFT20	M24X1.5	M30X2	16S	20S	37,5	30	36			
8U16SFT25	M24X1.5	M36X2	16S	25S	39	36	46			
8U16SFT30	M24X1.5	M42X2	16S	30S	44,5	41	50			
8U20SFT25	M30X2	M36X2	20S	25S	39	36	46			
8U20SFT30	M30X2	M42X2	20S	30S	44,5	41	50			
8U20SFT38	M30X2	M52X2	20S	38S	48	50	60			
8U25SFT30	M36X2	M42X2	25S	30S	44	41	50			
8U25SFT38	M36X2	M52X2	25S	38S	48,5	50	60			
8U30SFT38	M42X2	M52X2	30S	38S	49	50	60			

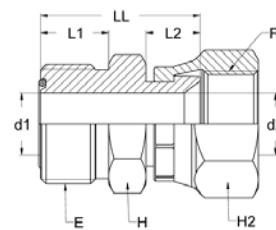
Fittings delivered without union nut or cutting ring.

Straight Adapter Male ORFS X Swivel Female ORFS

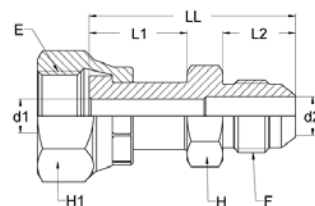
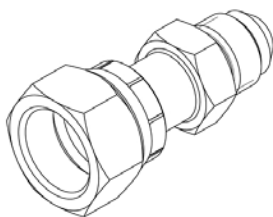


S MORFS X FSORFS

PT199	ORFS (E)	ORFS (F)	L1	L2	LL	d1	d2	H	H2	
1FS10000	9/16-18f	11/16-16f	9,8	19	36,8	4,5	6,5	17	22	
1FS10001	9/16-18f	13/16-16f	9,8	21	39,5	4,5	9	19	24	
1FS10010	9/16-18f	1"-14f	9,8	25	46,4	4,5	11,5	27	30	
1FS10025	9/16-18f	1"3/16-12f	9,8	26,5	49,4	4,5	14	32	36	
1FS10005	11/16-16f	13/16-16f	11,2	21	40,9	6,5	9	19	24	
1FS10015	11/16-16f	1"-14f	11,2	25	47,8	6,5	11,5	27	30	
1FS10030	11/16-16f	1"3/16-12f	11,2	26,5	50,8	6,5	14	32	36	
1FS10020	13/16-16f	1"-14f	12,8	25	49,4	9,5	11,5	27	30	
1FS10040	13/16-16f	1"3/16-12f	12,8	26,5	52,4	9,5	14	32	36	
1FS10050	13/16-16f	1"7/16-12f	12,8	28	54,8	9,5	20	36	41	
1FS10045	1"-14f	1"3/16-12f	15,5	26,5	55	12,5	14	32	36	
1FS10060	1"-14f	1"7/16-12f	15,5	28	57,5	12,5	20	36	41	
1FS10065	1"3/16-12f	1"7/16-12f	17	28	59	15,5	20	36	41	
1FS10070	1"3/16-12f	1"11/16-12f	17	28	59,3	15,5	26	41	50	
1FS10080	1"7/16-12f	1"11/16-12f	17,5	28	59,8	20,5	26	41	50	

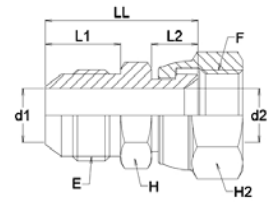
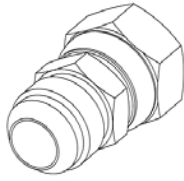
Straight Adapter Male ORFS X Swivel Female JIC

S MORFS X FSJIC

PT479	ORFS (E)	JIC (F)	L1	L2	LL	d1	d2	H	H2	
1FS10350	9/16-18f	7/16-20f	9.8	8,5	26.3	4.4	4.4	17	14	
1FS10360	11/16-16f	7/16-20f	11.2	8.5	28.4	4.4	4.4	19	14	
1FS10370	11/16-16f	9/16-18f	11.2	9.5	29.4	6,5	6,5	19	19	
1FS10380	13/16-16f	3/4-16f	12.8	10.5	33.1	9,5	9,5	22	22	
1FS10390	1"-14f	7/8-14f	15.5	11.5	38.6	12.3	12.3	27	27	
1FS10400	1"3/16-12f	1"1/16-12f	17	13.5	43.6	15.5	15.5	32	32	
1FS10410	1"7/16-12f	1"5/16-12f	17,5	13.5	45.3	20,5	20,5	41	41	

Straight Adapter Swivel Female ORFS X Male JIC

S FSORFS X MJIC

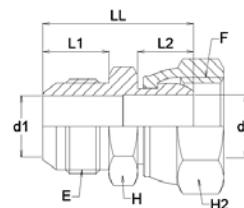
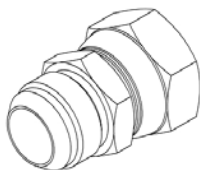
PT379	ORFS (E)	JIC (F)	L1	L2	LL	d1	d2	H	H1	
1FS10180	9/16-18f	7/16-20f	16	14	37	4	4	14	19	
1FS10185	9/16-18f	9/16-18f	16	14,1	37	4	7,5	17	19	
1FS10190	11/16-16f	9/16-18f	19	14,1	40	6,5	7,5	17	22	
1FS10200	13/16-16f	3/4-16f	21	16,7	45.5	9	9,9	19	24	
1FS10220	1"3/16-12f	1"1/16-12f	26,5	21,9	57.5	14	15,5	30	36	
1FS10230	1"7/16-12f	1"5/16-12f	28	23,1	61	20	21,5	36	41	

Straight Adapter Male JIC X Swivel Female JIC

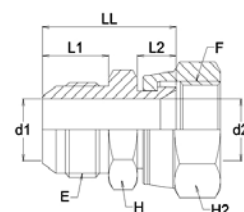
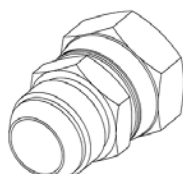


S MJIC X FSJIC

PT111	JIC (E)	JIC (F)	L1	L2	LL	d1	d2	H	H2	
1DC14104	7/16-20f	7/16-20f	14	8,5	28,5	4,4	4,4	12	14	
1DC14102	7/16-20f	1/2-20f	14	8,5	28,5	4,4	6	12	17	
1DC14105	7/16-20f	9/16-18f	14	9,5	30,5	4,4	7,5	14	19	
1DC17192	7/16-20f	3/4-16f	14	10,5	32,5	4,4	9,9	19	22	
1DC21203	7/16-20f	7/8-14f	14	11,5	33,5	4,4	12,3	22	27	
1DC27320	7/16-20f	1"1/16-12f	14	13,5	36,5	4,4	15,5	27	32	
1DC14103	1/2-20f	7/16-20f	14	8,5	29,5	6	4,4	14	14	
1DC17195	1/2-20f	1/2-20f	14	8,5	29,5	6	6	14	17	
1DC17194	1/2-20f	3/4-16f	14	10,5	32,5	6	9,9	19	22	
1DC17140	1/2-20f	9/16-18f	14	9,5	30,5	6	7,5	14	19	
1DC16110	9/16-18f	7/16-20f	14.1	8,5	30	7,5	4,4	17	14	
1DC16115	9/16-18f	1/2-20f	14.1	8,5	30	7,5	6	17	17	
1DC19197	9/16-18f	9/16-18f	14.1	9,5	30,5	7,5	7,5	17	19	
1DC17196	9/16-18f	3/4-16f	14.1	10,5	33	7,5	9,9	19	22	
1DC21205	9/16-18f	7/8-14f	14.1	11,5	34	7,5	12,3	22	27	
1DC27322	9/16-18f	1"1/16-12f	14.1	13,5	36,5	7,5	15,5	27	32	
1DC19198	3/4-16f	9/16-18f	16.7	9,5	34	9,9	7,5	19	19	
1DC22207	3/4-16f	3/4-16f	16.7	10,5	35,5	9,9	9,9	19	22	
1DC22206	3/4-16f	7/8-14f	16.7	11,5	36	9,9	12,3	22	27	
1DC27324	3/4-16f	1"1/16-12f	16.7	13,5	39,5	9,9	15,5	27	32	
1DC32128	3/4-16f	1"5/16-12f	16.7	13,5	39	9,9	21,5	32	41	
1DC27172	7/8-14f	9/16-18f	19.3	9,5	37	12,3	7,5	24	19	
1DC27205	7/8-14f	3/4-16f	19.3	10,5	38	12,3	9,9	24	22	
1DC27208	7/8-14f	7/8-14f	19.3	11,5	39	12,3	12,3	24	27	
1DC27325	7/8-14f	1"1/16-12f	19.3	13,5	42	12,3	15,5	27	32	
1DC32130	7/8-14f	1"5/16-12f	19.3	13,5	42	12,3	21,5	32	41	
1DC32290	1"1/16-12f	3/4-16f	21.9	10,5	41,5	15,5	9,9	27	22	
1DC32300	1"1/16-12f	7/8-14f	21.9	11,5	42,5	15,5	12,3	27	27	
1DC32394	1"1/16-12f	1"1/16-12f	21.9	13,5	44,5	15,5	15,5	27	32	
1DC32395	1"1/16-12f	1"5/16-12f	21.9	13,5	44,5	15,5	21,5	32	41	
1DC41444	1"1/16-12f	1"5/8-12f	21.9	15,5	47,5	15,5	27,5	41	50	
1DC38420	1"5/16-12f	1"5/16-12f	23.1	13,5	47	21,5	21,5	36	41	
1DC41446	1"5/16-12f	1"5/8-12f	23.1	15,5	49	21,5	27,5	41	50	
1DC50490	1"5/8-12f	1"5/8-12f	24.3	15,5	52	27,5	27,5	46	50	
1DC45480	1"5/8-12f	1"7/8-12f	24.3	16	52,5	27,5	33	46	55	
1DC60494	1"7/8-12f	1"7/8-12f	27.5	16	55,5	33	33	50	55	
1DC75495	1"7/8-12f	2"1/2-12f	27.5	16,5	65,5	33	45	65	75	
1DC70470	2"1/2-12f	2"1/2-12f	33.9	16,5	69,5	45	45	65	75	

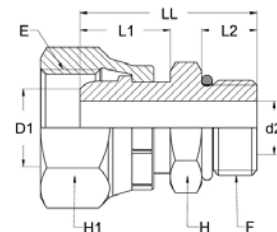
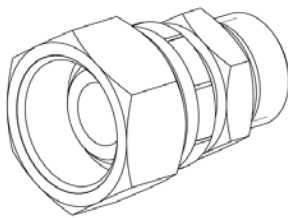
Straight Adapter Male JIC X Swivel Female BSP

S MJIC X FSBSP

PT175	JIC (E)	BSP (F)	L1	L2	LL	d1	d2	H	H2	
1DA14085	7/16-20f	G1/4-19f	14	11,3	31	4,4	4,4	12	19	
1DA16160	7/16-20f	G3/8-19f	14	12,5	33,5	4,4	7,9	17	22	
1DA14090	1/2-20f	G1/4-19f	14	11,3	32	6	4,7	14	19	
1DA16170	9/16-18f	G3/8-19f	14,1	12,5	33,5	7,5	7,5	17	22	
1DA19300	9/16-18f	G1/2-14f	14,1	15	37	7,5	11,1	19	27	
1DA19180	3/4-16f	G3/8-19f	16,7	12,5	37	9,9	7,9	19	22	
1DA19260	3/4-16f	G1/2-14f	16,7	15	40	9,9	9,9	19	27	
1DA24390	3/4-16f	G3/4-14f	16,7	17,8	43,5	9,9	15,5	27	32	
1DA22270	7/8-14f	G1/2-14f	19,3	15	42,5	12,3	11,1	24	27	
1DA22320	7/8-14f	G5/8-14f	19,3	15	46	15,5	11,1	27	27	
1DA27260	1"1/16-12f	G1/2-14f	21,9	15	46	15,5	11,1	27	27	
1DA27410	1"1/16-12f	G3/4-14f	21,9	17,8	48,5	15,5	15,5	27	32	
1DA34430	1"5/16-12f	G1"-11f	23,1	19,5	52,5	21,5	21,5	36	41	
1DA46510	1"5/16-12f	G1"1/2-11f	23,8	17,8	56	21,5	32	45	55	
1DA50500	1"7/8-12f	G1"1/2-11f	27,8	17,8	61	32	32	50	60	

Straight Adapter Male JIC X Swivel Female JIS

S MJIC X FSJIS

PT359	JIC (E)	JIS (F)	L1	L2	LL	d1	d2	H	H2	
1JP21100	9/16-18f	G3/8-19f	14,1	9,5	29,5	7,5	7,5	17	22	
1JP21110	9/16-18f	G1/2-14f	14,1	10,5	31	7,5	11	19	27	
1JP21120	9/16-18F	G5/8-14f	14	15,5	38,5	7,5	11,5	30	36	
1JP21130	9/16-18f	G3/4-14f	14,1	13,5	35,5	7,5	16	27	32	

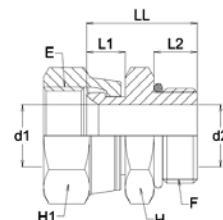
Straight Adapter Swivel Female 24° X Male SAE + O-Ring



S FS24D X MSAE +OR

PT471	24D (E)	SAE (F)	TUBE (D1)	L1	L2	LL	d2	H	H1	
8UFT13GMS6	M20x1.5	9/16-18f	13G	14.5	9.9	31.5	7,5	17	27	
8UFT13GMS8	M20x1.5	3/4-16f	13G	14.5	11.1	33.5	9,9	22	27	

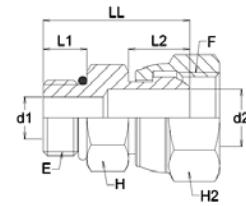
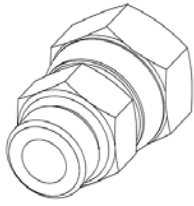
Straight Adapter Swivel Female JIC X Male SAE + O-Ring



S FSJIC X MSAE +OR

PT113	JIC (E)	SAE (F)	L1	L2	LL	d1	d2	H	H1	
1DC14066	7/16-20f	7/16-20f	8.5	9,1	24.5	4.4	4.4	14	14	
1DC17086	1/2-20f	1/2-20f	8.5	9,1	24.5	6	6	17	17	
1DC16060	9/16-18f	3/8-24f	9.5	7.6	24.1	7.5	3.2	14	19	
1DC19130	9/16-18f	9/16-18f	9.5	9,9	26.5	7.5	7.5	17	19	
1DC19140	3/4-16f	9/16-18f	10.5	9,9	27,5	9.9	7,5	17	22	
1DC22150	3/4-16f	3/4-16f	10.5	11.1	29.5	9.9	9,9	22	22	
1DC27160	7/8-14f	7/8-14f	11.5	12,7	33	12.3	12.3	27	27	
1DC32170	1"1/16-12f	1"1/16-12f	13.5	15,1	37.5	15.5	15.5	32	32	
1DC41200	1"5/16-12f	1"5/16-12f	13.5	15,1	38,5	21.5	21.5	41	41	
1DC50220	1"5/8-12f	1"5/8-12f	15.5	15,1	42.5	27,5	27,5	50	50	
1DC54240	1"7/8-12f	1"7/8-12f	16	15,1	46	33	33	55	55	

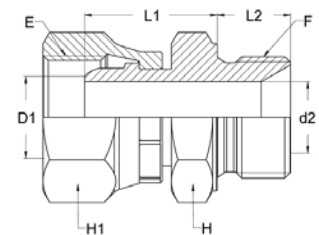
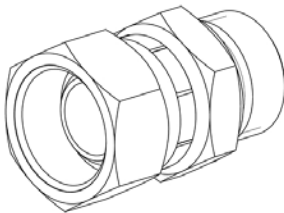
Straight Adapter Male SAE + O-Ring X Swivel Female NPSM



S MSAE +OR X FSNPSM

PT182	SAE (E)	NPSM (F)	L1	L2	LL	d1	d2	H	H2	
1CZ14500	7/16-20f	1/4-18f	9,1	12,1	28,2	4,4	4,4	14	17	
1CZ19520	9/16-18f	3/8-18f	9,9	12,6	30,5	7,5	7,5	17	22	
1CZ19530	9/16-18f	1/2-14f	9,9	13	30,9	7,5	11,9	19	27	
1CZ23548	3/4-16f	3/8-18f	11,1	12,6	31,7	8,7	8,7	22	22	
1CZ23550	3/4-16f	1/2-14f	11,1	13	32,1	9,9	11,9	22	27	
1CZ23570	3/4-16f	3/4-14f	11,5	15,5	36,6	9,9	16,3	27	32	
1CZ27590	7/8-14f	3/8-18f	12,7	12,6	34,3	12,3	8,7	27	22	
1CZ27592	7/8-14f	1/2-14f	12,7	13	34,7	11,9	11,9	27	27	
1CZ32630	1"1/16-12f	3/4-14f	15,1	15,5	40,6	15,5	15,5	32	32	
1CZ41650	1"5/16-12f	1"-11,5f	15,1	15,5	40,6	21,4	21,4	41	38	

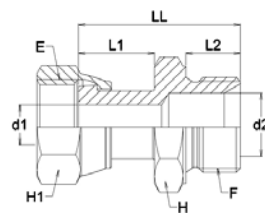
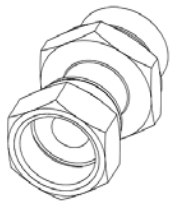
Straight Adapter Swivel Female 24° X Male BSP for bonded seal



S FS24D X MBSPBS

PT400	24D (E)	BSPBS (F)	TUBE (D1)	L1	L2	d2	H	H1		
8UFT13GMBS8	M20x1.5	G1/2-14f	13G	24,5	14	11,1	27	27		

Straight Adapter Swivel Female ORFS X Male BSP for bonded seal

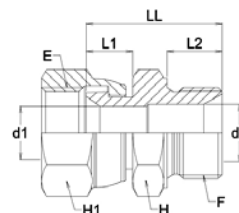
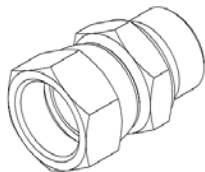


S FSORFS X MBSPBS

PT198	ORFS (E)	BSPBS (F)	L1	L2	LL	d1	d2	H	H1	
1FS10105	9/16-18f	G1/4-19f	16	11	36	4	4	19	19	
1FS10110	11/16-16f	G1/4-19f	19	11	39	6,5	4,7	19	22	
1FS10115	11/16-16f	G3/8-19f	19	12	40	6,5	6,5	22	22	
1FS10120	11/16-16f	G1/2-14f	19	14	43	6,5	11,1	27	22	
1FS10125	13/16-16f	G3/8-19f	21	12	42	9	7,9	22	24	
1FS10130	13/16-16f	G1/2-14f	21	14	45	9	11,1	27	24	
1FS10135	1"-14f	G1/2-14f	25	14	49	11,1	11,1	27	30	
1FS10137	1"-14f	G5/8-14f	25	16	51	11,5	14,3	30	30	
1FS10140	1"-14f	G3/4-14f	25	16	51	11,5	16,7	32	30	
1FS10145	1"3/16-12f	G3/4-14f	26,5	16	52,5	14	16,7	32	36	
1FS10150	1"3/16-12f	G1"-11f	26,5	19	56,5	14	22,2	41	36	
1FS10155	1"7/16-12f	G1"-11f	28	19	58	20	20	41	41	
1FS10160	1"7/16-12f	G1"1/4-11f	28	20	61	20	28,6	50	41	
1FS10165	1"11/16-12f	G1"1/4-11f	28	20,5	67	26	30	50	50	
1FS10170	2"-12f	G1"1/2-11f	28	22	66	32	32	55	60	

EN-Pression majorée avec cône BSP

Straight Adapter Swivel Female JIC X Male BSP for bonded seal

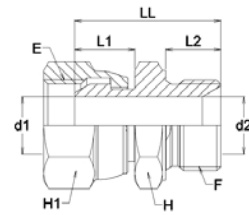
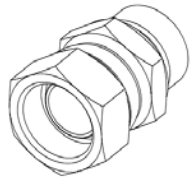


S FSJIC X MBSPBS

PT253	JIC (E)	BSP (F)	L1	L2	LL	d1	d2	H	H1	
1DC50450										
1DC14040	7/16-20f	G1/8-28f	8.5	8	24,5	3,5	3,5	14	14	
1DC17110	7/16-20f	G1/4-19f	8.5	11	28,5	4,4	4,4	19	14	
1DC17100	1/2-20f	G1/4-19f	8.5	11	28,5	4,7	4,7	19	17	
1DC17130	9/16-18f	G1/4-19f	9.5	11	29,5	7,5	4,7	19	19	
1DC21150	9/16-18f	G3/8-19f	9.5	12	30,5	7,5	7,5	22	19	
1DC27170	9/16-18f	G1/2-14f	9.5	14	33,5	7,5	11,1	27	19	
1DC17225	3/4-16f	G1/4-19f	10.5	11	30,5	9,9	4,7	19	22	
1DC21200	3/4-16f	G3/8-19f	10.5	12	31,5	9,9	7,9	22	22	
1DC27180	3/4-16f	G1/2-14f	10.5	14	34,5	9,9	9,9	27	22	
1DC32190	3/4-16f	G3/4-14f	10.5	16	36,5	9,9	16,7	32	22	
1DC21275	7/8-14f	G3/8-19f	11.5	12	32,5	12,3	7,9	22	27	
1DC27190	7/8-14f	G1/2-14f	11.5	14	35,5	11,1	11,1	27	27	
1DC32200	7/8-14f	G3/4-14f	11.5	16	37,5	12,3	16,7	32	27	
1DC26360	1"1/16-12f	G5/8-14f	13.5	16	39,5	14,3	14,3	30	32	
1DC32400	1"1/16-12f	G3/4-14f	13.5	16	39,5	15,5	15,5	32	32	
1DC32410	1"5/16-12f	G1/2-14f	13.5	14	37,5	21,5	11,1	32	41	
1DC34430	1"5/16-12f (1)	G1"-11f	13.5	19	42,5	21,5	21,5	34	41	
1DC42450	1"5/16-12f	G1"-11f	13.5	19	43,5	21,5	21,5	41	41	
1DC50472	1"5/8-12f	G1"1/4-11f	15.5	20	48,5	27,5	27,5	50	50	
1DC54474	1"7/8-12f	G1"1/2-11f	16	22	54	33	33	55	55	
1DC70476	2"1/2-12f	G2"-11f	16.5	25	60,5	45	45	70	75	

(1) Standard: not for BS Ring.

Straight Adapter Swivel Female BSP X Male BSP for bonded seal



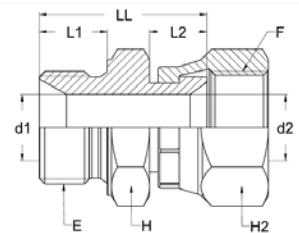
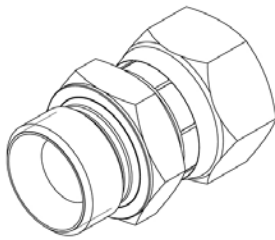
S FSBSP X MBSPBS

PT151	BSP (E)	BSPBS (F)	L1	L2	LL	d1	d2	H	H1	
1DA14050	G1/8-28f	G1/8-28f	10,2	8	22	3,5	3,5	14	14	
1DA17090	G1/8-28f	G1/4-19f	10,2	11	29,9	3,5	4,7	19	14	
1DA21168	G1/8-28f	G3/8-19f	10,2	12	32,7	3,5	7,9	22	14	
1DA27082	G1/8-28f	G1/2-14f	10,2	14	36,2	3,5	11,1	27	14	
1DA29826	G1/8-28f	G5/8-14f	10,2	16	37,9	3,5	14,3	30	14	
1DA14055	G1/4-19f	G1/8-28f	11,3	8	28	4,7	3,5	14	19	
1DA17070	G1/4-19f	G1/4-19f	11,3	11	31	4,7	4,7	19	19	
1DA21170	G1/4-19f	G3/8-19f	11,3	12	33,8	4,7	7,9	22	19	
1DA27090	G1/4-19f	G1/2-14f	11,3	14	37,3	4,7	11,1	27	19	
1DA29828	G1/4-19f	G5/8-14f	11,3	16	39	4,5	14,3	30	19	
1DA32190	G1/4-19f	G3/4-14f	11,3	16	38,5	4,5	16,7	32	19	
1DA42440	G1/4-19f	G1"-11f	11,3	19	42,8	4,5	22,2	41	19	
1DA17178	G3/8-19f	G1/8-28f	12,5	8	31	7,1	3,5	17	22	
1DA17180	G3/8-19f	G1/4-19f	12,5	11	34	7,9	4,7	19	22	
1DA21190	G3/8-19f	G3/8-19f	12,5	12	35	7,9	7,9	22	22	
1DA27100	G3/8-19f	G1/2-14f	12,5	14	38,5	7,9	11,1	27	22	
1DA29832	G3/8-19f	G5/8-14f	12,5	16	40,2	7,1	14,3	30	22	
1DA32192	G3/8-19f	G3/4-14f	12,5	16	39,7	7,1	16,7	32	22	
1DA42442	G3/8-19f	G1"-11f	12,5	19	44	7,1	22,2	41	22	
1DA21158	G1/2-14f	G1/8-28f	15	8	35	9,7	3,5	19	27	
1DA17130	G1/2-14f	G1/4-19f	15	11	38	11,1	4,7	19	27	
1DA21160	G1/2-14f	G3/8-19f	15	12	39	11,1	7,9	22	27	
1DA27240	G1/2-14f	G1/2-14f	15	14	41	11,1	11,1	27	27	
1DA24241	G1/2-14f	G1/2-14f (1)	15	14	41	9,7	9,7	21	27	
1DA29170	G1/2-14f	G5/8-14f	15	16	41,3	11,1	14,3	30	27	
1DA32100	G1/2-14f	G3/4-14f	15	16	42,2	11,1	16,7	32	27	
1DA42444	G1/2-14f	G1"-11f	15	19	46,5	9,7	22,2	41	27	
1DA27266	G5/8-14f	G1/4-19f	14,3	11	37	12	4,7	22	30	
1DA21840	G5/8-14f	G3/8-19f	14,3	12	38	12	7,9	22	30	
1DA27270	G5/8-14f	G1/2-14f	14,3	14	40	14,3	11,1	27	30	
1DA29150	G5/8-14f	G5/8-14f	14,3	16	42	14,3	14,3	30	30	
1DA24330	G5/8-14f	G5/8-14f (1)	14,3	16	42	12	14,3	24	30	
1DA32194	G5/8-14f	G3/4-14f	14,3	16	41,5	12	16,7	32	30	
1DA42446	G5/8-14f	G1"-11f	14,3	19	45,8	12	22,2	41	30	
1DA29156	G3/4-14f	G1/4-19f	17,8	11	40	15,5	4,7	27	32	
1DA24380	G3/4-14f	G3/8-19f	17,8	12	41	15,5	7,9	27	32	
1DA27150	G3/4-14f	G1/2-14f	17,8	14	43	16,7	11,1	27	32	
1DA29160	G3/4-14f	G5/8-14f	17,8	16	45	16,7	14,3	30	32	
1DA32170	G3/4-14f	G3/4-14f	17,8	16	45	16,7	16,7	32	32	
1DA42400	G3/4-14f	G1"-11f	17,8	19	49,3	16,7	22,2	41	32	
1DA50452	G3/4-14f	G1"1/4-11f	17,8	20	51,4	15,5	28,6	50	32	
1DA32862	G1"-11f	G3/8-19f	19,5	12	44	20,4	7,9	32	41	
1DA32864	G1"-11f	G1/2-14f	19,5	14	46	20,4	11,1	32	41	
1DA32866	G1"-11f	G5/8-14f	19,5	16	48	22,2	14,3	32	41	
1DA32200	G1"-11f	G3/4-14f	19,5	16	48	22,2	16,7	32	41	
1DA42450	G1"-11f	G1"-11f	19,5	19	51	22,2	22,2	41	41	
1DA50460	G1"-11f	G1"1/4-11f	19,5	20	53,1	22,2	28,6	50	41	
1DA54504	G1"-11f	G1"1/2-11f	19,5	22	61,5	20,4	33,3	55	41	
1DA70342	G1"-11f	G2"-11f	19,5	25	65,6	20,4	46	70	41	
1DA45452	G1"1/4-11f	G3/4-14f	21,4	16	51	26	16,7	41	50	

1DA42470	G1"1/4-11f	G1"-11f	21,4	19	54	28,6	22,2	41	50	
1DA50470	G1"1/4-11f	G1"1/4-11f	21,4	20	55	28,6	28,6	50	50	
1DA54510	G1"1/4-11f	G1"1/2-11f	21,4	22	63,4	28,6	33,3	55	50	
1DA70344	G1"1/4-11f	G2"-11f	21,4	25	67,5	26	46	70	70	
1DA50480	G1"1/2-11f	G1"1/4-11f	22	20	62	33,3	28,6	50	55	
1DA54500	G1"1/2-11f	G1"1/2-11f	22	22	64	33,3	33,3	50	55	
1DA54501	G1"1/2-11f	G1"1/2-11f (1)	20	25	57,5	33,3	33,3	50	55	
1DA70346	G1"1/2-11f	G2"-11f	22	25	68,1	33,3	46	70	55	
1DA54520	G2"-11f	G1"1/2-11f	22,9	22	66	46	33,3	60	70	
1DA70400	G2"-11f	G2"-11f	22,9	25	69	46	46	70	70	

EN-Pression majorée avec cône BSP

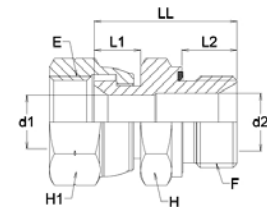
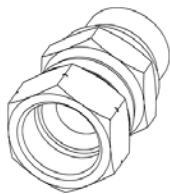
Straight Adapter Male BSP for bonded seal X Swivel Female Komatsu



S MBSPBS X FSKOM

PT457	BSPBS (E)	KOM (F)	L1	L2	LL	d1	d2	H	H2	
1TK19100	G1/4-19f	M14X1.5	11	9	29	4,5	4,5	19	19	
1TK22105	G3/8-19f	M18X1.5	12	10,5	31,5	7,9	7,9	22	24	
1TK27120	G1/2-14f	M22X1.5	14	11	37	10,5	10,5	27	27	
1TK32125	G3/4-14f	M30X1.5	16	12,5	38,5	16,7	16,7	32	36	

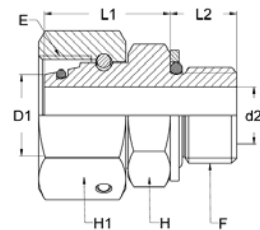
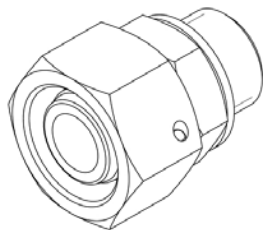
Straight Adapter Swivel Female JIC X Male BSP Form E



S FSJIC X MBSPE

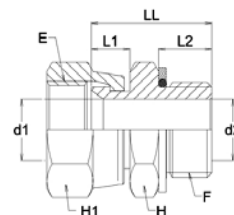
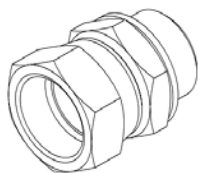
PT418	JIC (E)	BSPE (F)	L1	L2	LL	d1	d2	H	H1	
1DC14050	7/16-20f	G1/8-28f	8,5	8	25	3,5	3,5	14	14	
1DC19080	7/16-20f	G1/4-19f	8,5	12	30,5	4,4	4,4	19	14	
1DC19085	9/16-18f	G1/4-19f	9,5	12	31,5	7,5	4,7	19	19	
1DC22140	9/16-18f	G3/8-19f	9,5	12	32	7,5	7,5	22	19	
1DC22145	3/4-16f	G3/8-19f	10,5	12	33	9,9	7,9	22	22	
1DC27185	3/4-16f	G1/2-14f	10,5	14	36,5	9,9	9,9	27	22	
1DC27195	7/8-14f	G1/2-14f	11,5	14	37,5	11,1	11,1	27	27	
1DC27450	7/8-14f	G1/2-14f (1)	11,5	14,5	35	12,3	12,3	30	27	
1DC32405	1"1/16-12f	G3/4-14f	13,5	16	41,5	15,5	15,5	32	32	
1DC41430	1"5/16-12f	G1"-11f	13,5	18	44,5	21,5	21,5	41	41	

(1) Without cone

Straight Adapter Swivel Female 24° + O-Ring X Male BSPP + O-Ring + Retaining Ring


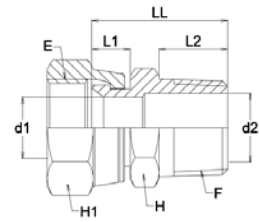
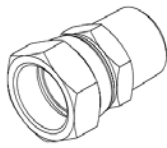
S FS24D +OR X MG +OR +RR

PT352	24D (E)	G (F)	TUBE (D1)	L1	L2	H	H1			
8UFT6LMBJ2	M12X1.5	G1/8-28f	6L	20,5	9,5	14	14			
8UFT8LMBJ4	M14X1.5	G1/4-19f	8L	23,5	10	19	17			
8UFT10LMBJ4	M16X1.5	G1/4-19f	10L	24	10	19	19			
8UFT10LMBJ6	M16X1.5	G3/8-19f	10L	24	11,5	22	19			
8UFT12LMBJ4	M18X1.5	G1/4-19f	12L	23,5	11	19	22			
8UFT12LMBJ6	M18X1.5	G3/8-19f	12L	25,5	11,5	22	22			
8UFT15LMBJ8	M22X1.5	G1/2-14f	15L	28,5	14	27	27			
8UFT18LMBJ8	M26X1.5	G1/2-14f	18L	29	14	27	32			
8UFT22LMBJ12	M30X2	G3/4-14f	22L	32	15,5	32	36			
8UFT28LMBJ16	M36X2	G1"-11f	28L	35	18	41	41			
8UFT35LMBJ20	M45X2	G1 1/4-11f	35L	38	20	50	50			
8UFT6SMBJ4	M14X1.5	G1/4-19f	6S	23	10	19	17			
8UFT8SMBJ4	M16X1.5	G1/4-19f	8S	26	10	19	19			
8UFT10SMBJ4	M18X1.5	G1/4-19f	10S	25,8	11,2	19	22			
8UFT10SMBJ6	M18X1.5	G3/8-19f	10S	25	11,5	22	22			
8UFT12SMBJ6	M20X1.5	G3/8-19f	12S	28,5	11,5	22	24			
8UFT12SMBJ8	M20X1.5	G1/2-14f	12S	27,5	14,5	30	24			
8UFT14SMBJ8	M22X1.5	G1/2-14f	14S	31,5	14	27	27			
8UFT16SMBJ8	M24X1.5	G1/2-14f	16S	30	14	27	30			
8UFT20SMBJ12	M30X2	G3/4-14f	20S	36	15,5	32	36			
8UFT25SMBJ16	M36X2	G1"-11f	25S	38,5	18	41	46			

Straight Adapter Swivel Female JIC X Male BSPP + O-Ring + Retaining Ring

S FSJIC X MG +OR +RR

PT131	JIC (E)	G (F)	L1	L2	LL	d1	d2	H	H1	
1DC16130	7/16-20f	G1/8-28f	8.5	7,6	23	4,4	4,4	14	14	
1DC19150	7/16-20f	G1/4-19f	8.5	11,2	28	4,4	7,5	19	14	
1DC19154	1/2-20f	G1/4-19f	8.5	11,2	28	6	7,5	19	17	
1DC22320	1/2-20f	G3/8-19f	8.5	11,2	27,5	6	9,9	22	17	
1DC19336	9/16-18f	G1/4-19f	9.5	11,2	29	7,5	7,5	19	19	
1DC22340	9/16-18f	G3/8-19f	9.5	11,2	29	7,5	7,5	22	19	
1DC22360	3/4-16f	G1/4-19f	10.5	11,2	30	9,9	7,5	19	22	
1DC22420	3/4-16f	G3/8-19f	10.5	11,2	30	9,9	9,9	22	22	
1DC27430	3/4-16f	G1/2-14f	10.5	14,5	34	9,9	12,3	30	22	
1DC22450	7/8-14f	G3/8-19f	11.5	11,2	31	12,3	9,9	22	27	
1DC27460	7/8-14f	G1/2-14f	11.5	14,5	35	12,3	12,3	30	27	
1DC30870	7/8-14f	G5/8-14f	11.5	14,5	35	12,3	14	32	27	
1DC27395	1"1/16-12f	G1/2-14f	13.5	14,5	37	15,5	12,3	30	32	
1DC36480	1"1/16-12f	G3/4-14f	13.5	14,5	38	15,5	15,5	36	32	
1DC46490	1"1/16-12f	G1"-11f	13.5	18,6	44	15,5	21,5	46	32	
1DC36500	1"5/16-12f	G3/4-14f	13.5	14,5	38	21,5	15,5	36	41	
1DC46510	1"5/16-12f	G1"-11f	13.5	18,6	44	21,5	21,5	46	41	
1DC50540	1"5/8-12f	G1"1/4-11f	15.5	18,6	46	27,5	27,5	50	50	
1DC54560	1"7/8-12f	G1"1/2-11f	16	18,6	50	33	33	55	55	

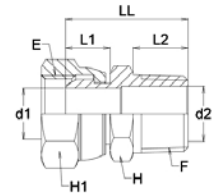
Straight Adapter Swivel Female JIC X Male BSPT



S FSJIC X MR

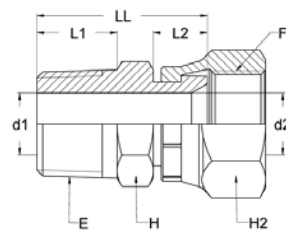
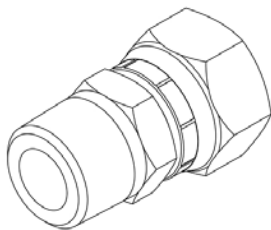
PT135	JIC (E)	R (F)	L1	L2	LL	d1	d2	H	H1	
1DC12060	7/16-20f	R1/8-28f	8.5	10	24,5	4,4	4,4	12	14	
1DC14065	7/16-20f	R1/4-19f	8.5	14	29,5	4,4	7	14	14	
1DC14080	1/2-20f	R1/4-19f	8.5	14	29,5	6	6	14	17	
1DC17095	1/2-20f	R3/8-19f	8.5	15	30,5	6	10	17	17	
1DC14110	9/16-18f	R1/4-19f	9.5	14	30,5	7	7	14	19	
1DC17120	9/16-18f	R3/8-19f	9.5	15	31,5	7,5	10	17	19	
1DC17210	3/4-16f	R3/8-19f	10.5	15	33,5	10	10	19	22	
1DC22240	3/4-16f	R1/2-14f	10.5	19	37,5	9,9	13	22	22	
1DC21270	7/8-14f	R3/8-19f	11.5	15	34,5	12,3	10	22	27	
1DC22280	7/8-14f	R1/2-14f	11.5	19	38,5	12,3	12,3	22	27	
1DC26345	1"1/16-12f	R1/2-14f	13.5	19	41,5	15,5	13	27	32	
1DC27340	1"1/16-12f	R3/4-14f	13.5	20	42,5	15,5	15,5	27	32	
1DC32140	1"5/16-12f	R3/4-14f	13.5	20	42,5	21,5	18	32	41	
1DC34420	1"5/16-12f	R1"-11f	13.5	24	47,5	21,5	21,5	36	41	
1DC45460	1"5/8-12f	R1"1/4-11f	15.5	25	52,5	27,5	27,5	46	50	

Straight Adapter Swivel Female BSP X Male BSPT

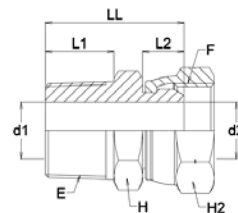
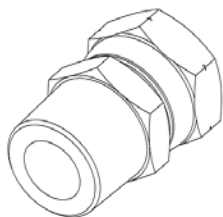


S FSBSP X MR

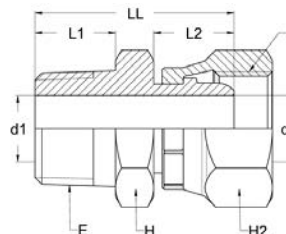
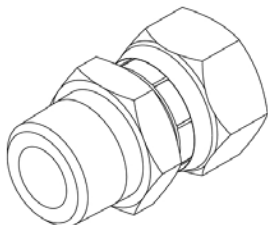
PT173	BSP (E)	R (F)	L1	L2	LL	d1	d2	H	H1	
1DA12050	G1/8-28f	R1/8-28f	10.2	10	26	3,5	3,5	12	14	
1DA14070	G1/4-19f	R1/4-19f	11.3	14	32,5	4,7	4,7	14	19	
1DA17140	G3/8-19f	R3/8-19f	12.5	15	34,5	7,9	7,9	17	22	
1DA22160	G3/8-19f	R1/2-14f	12.5	19	39,5	7,9	13	22	22	
1DA19230	G1/2-14f	R3/8-19f	15	15	38	10	10	19	27	
1DA22240	G1/2-14f	R1/2-14f	15	19	42	11,1	11,1	22	27	
1DA24310	G5/8-14f	R5/8-14f	14.3	19	41,5	14	14	24	30	
1DA27360	G3/4-14f	R3/4-14f	17.8	20	47	16,7	16,7	27	32	
1DA34420	G1"-11f	R1"-11f	19.5	24	53,5	22,2	22,2	36	41	
1DA45480	G1"1/4-11f	R1"1/4-11f	21.4	25	58,5	28,6	28,6	46	50	
1DA50490	G1"1/2-11f	R1"1/2-11f	22	25	59	33,3	33,3	50	55	
1DA65510	G2"-11f	R2"-11f	22.9	30	68	46	46	65	70	

Straight Adapter Male BSPT X Swivel Female JIS

S MR X FSJIS

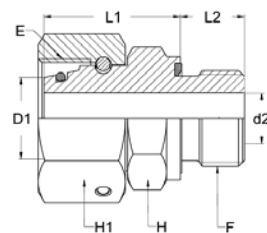
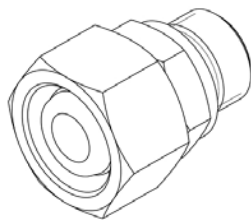
PT477	R (E)	JIS (F)	L1	L2	LL	d1	d2	H	H2	
1JP17030	R1/4-19f	G1/4-19f	14	8,5	29,5	7	5	14	19	
1JP19090	R3/8-19f	G3/8-19f	15	9,5	31,5	10	8	17	22	
1JP22190	R1/2-14f	G1/2-14f	19	10,5	37,5	13	11	22	27	
1JP30010	R3/4-14f	G3/4-14f	20	13,5	42,5	16	16	27	32	
1JP36190	R1"-11f	G1"-11f	24	15	49	22	22	36	41	

Straight Adapter Male BSPT X Swivel Female NPSM

S MR X FSNPSM

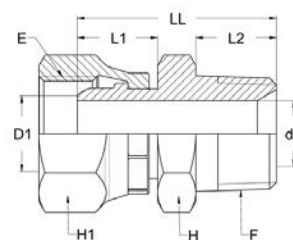
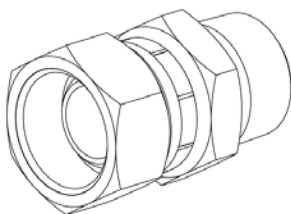
PT419	R (E)	NPSM (F)	L1	L2	LL	d1	d2	H	H2	
1DH22940	R1/2-14f	1/2-14f	19	11,4	38,5	12,5	12	22	26	

Straight Adapter Male BSPT X Swivel Female Metric DIN (60°)

S MR X FSDIN

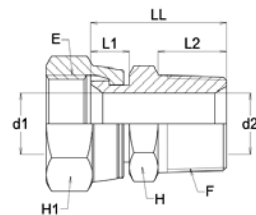
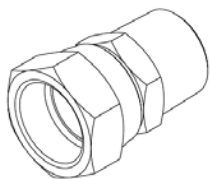
PT463	R (E)	DIN (F)	L1	L2	LL	d1	d2	H	H2	
1DB22180	R3/8-19f	M22X1.5	15	15.5	37.5	10	10	17	27	
1DB22200	R1/2-14f	M22X1.5	19	15.5	42.5	13	10	22	27	
1DB22210	R3/4-14f	M22X1.5	20	15.5	44.5	18	10	27	27	
1DB27280	R3/4-14f	M30X1.5	20	16.5	45.5	16	16	27	36	

Straight Adapter Swivel Female 24° + O-Ring X Male BSPP E captive seal

S FS24D +OR X MGE

PT350	24D (E)	BSPE (F)	TUBE (D1)	L1	L2	H	H1			
8UFT6LMBE2	M12X1.5	G1/8-28f	6L	24,5	8	14	14			
8UFT8LMBE4	M14X1.5	G1/4-19f	8L	29,5	12	19	17			
8UFT10LMBE4	M16X1.5	G1/4-19f	10L	27,5	12	19	19			
8UFT10LMBE8	M16X1.5	G1/2-14f	10L	27,5	14	27	19			
8UFT12LMBE6	M18X1.5	G3/8-19f	12L	34	12	22	22			
8UFT15LMBE8	M22X1.5	G1/2-14f	15L	32	14	27	27			
8UFT18LMBE8	M26X1.5	G1/2-14f	18L	31,5	14	27	32			
8UFT22LMBE12	M30X2	G3/4-14f	22L	32,5	16	32	36			
8UFT28LMBE16	M36X2	G1"-11f	28L	35	18	41	41			
8UFT35LMBE20	M45X2	G1"1/4-11f	35L	42,5	20	50	50			
8UFT6SMBE4	M14X1.5	G1/4-19f	6S	27	12	19	17			
8UFT8SMBE4	M16X1.5	G1/4-19f	8S	29,5	12	19	19			
8UFT10SMBE6	M18X1.5	G3/8-19f	10S	32	12	22	22			
8UFT12SMBE6	M20X1.5	G3/8-19f	12S	34	12	22	24			
8UFT14SMBE8	M22X1.5	G1/2-14f	14S	36,5	14	27	27			
8UFT16SMBE8	M24X1.5	G1/2-14f	16S	37	14	27	30			
8UFT20SMBE12	M30X2	G3/4-14f	20S	43	16	32	36			
8UFT25SMBE16	M36X2	G1"-11f	25S	48	18	41	46			
8UFT30SMBE20	M42X2	G1"1/4-11f	30S	51	20	50	50			
8UFT38SMBE24	M52X2	G1"1/2-11f	38S	60	22	55	60			

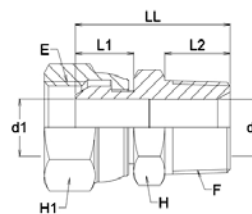
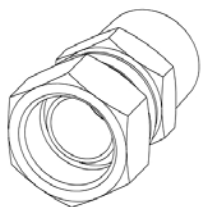
Straight Adapter Swivel Female 24° X Male NPT

S FS24D X MNPT

PT382	24D (E)	NPT (F)	TUBE (D1)	L1	L2	LL	d2	H	H1	
8UFT13GMN8	M20X1.5	1/2-14f	13G	14	19	41	11	22	27	

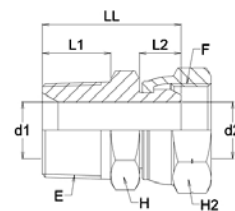
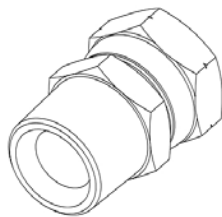
Straight Adapter Swivel Female JIC X Male NPT

S FSJIC X MNPT

PT133	JIC (E)	NPT (F)	L1	L2	LL	d1	d2	H	H1	
1DC12050	7/16-20f	1/8-27f	8.5	9,7	23	4,4	4,4	11	14	
1DC14060	7/16-20f	1/4-18f	8.5	14,2	29,5	4,4	6	14	14	
1DC14067	1/2-20f	1/8-27f	8.5	9.7	24	6	4,5	12	17	
1DC14070	1/2-20f	1/4-18f	8.5	14,2	29,5	6	6	14	17	
1DC14090	9/16-18f	1/8-27f	9.5	9.7	26	7.5	4.5	14	19	
1DC14100	9/16-18f	1/4-18f	9.5	14,2	30,5	7.5	6	14	19	
1DC19110	9/16-18f	3/8-18f	9.5	14,2	31,5	7.5	9	19	19	
1DC22220	9/16-18f	1/2-14f	9.5	19	36,5	7.5	12	22	19	
1DC19200	3/4-16f	3/8-18f	10.5	14,2	32,5	9	9	19	22	
1DC22230	3/4-16f	1/2-14f	10.5	19	37,5	9.9	12	22	22	
1DC19210	7/8-14f	3/8-18f	11.5	14,2	33,5	12,3	9	22	27	
1DC22260	7/8-14f	1/2-14f	11.5	19	38,5	12	12	22	27	
1DC26343	1"1/16-12f	1/2-14f	13.5	19	40,5	15,5	12	24	32	
1DC27330	1"1/16-12f	3/4-14f	13.5	19	41,5	15,5	15,5	27	32	
1DC34400	1"5/16-12f	1"-11,5f	13.5	23,9	47,5	21,5	21,5	36	41	
1DC45450	1"5/8-12f	1"1/4-11,5f	15.5	24,6	52	27,5	27,5	46	50	

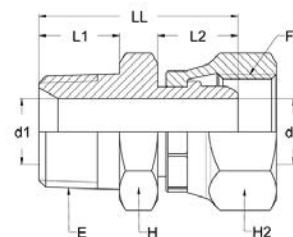
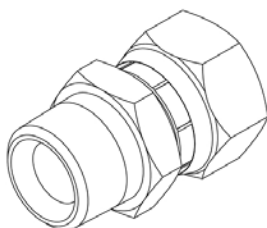
EN-Pression majorée avec cône NPSM

Straight Adapter Swivel Female BSP X Male NPT

S FSBSP X MNPT

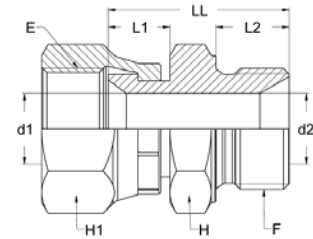
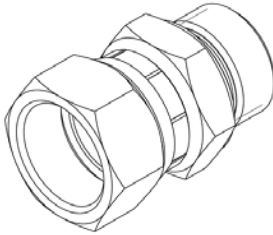
PT174	BSP (E)	NPT (F)	L1	L2	LL	d1	d2	H	H1	
1DA14060	G1/4-19f	1/4-18f	11,3	14,2	32,5	4,7	6	14	19	
1DA19115	G1/4-19f	3/8-18f	11,3	14,2	33,5	4,7	9	19	19	
1DA17115	G3/8-19f	1/4-18f	12,5	14,2	33,5	7,9	6	17	22	
1DA19120	G3/8-19f	3/8-18f	12,5	14,2	34,5	7,9	7,9	19	22	
1DA22130	G3/8-19f	1/2-14f	12,5	19	39,5	7,9	12	22	22	
1DA19210	G1/2-14f	3/8-18f	15	14,2	37	11,1	9	19	27	
1DA22220	G1/2-14f	1/2-14f	15	19	42	11,1	11,1	22	27	
1DA22300	G5/8-14f	1/2-14f	14,3	19	41,5	14,3	12	22	30	
1DA27350	G3/4-14f	3/4-14f	17,8	19	46	16,5	16,5	27	32	
1DA34410	G1"-11f	1"-11,5f	19,5	23,9	53,5	21,5	21,5	36	41	

Straight Adapter Male NPT X Swivel Female NPSM

S MNPT X FSNPSM

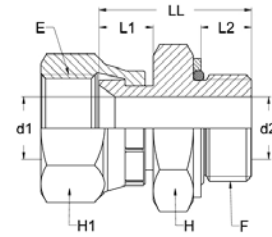
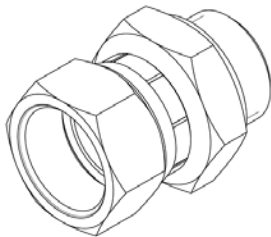
PT278	NPT (E)	NPSM (F)	L1	L2	LL	d1	d2	H	H2	
1DH14050	1/8-27f	1/8-27f	10	9,7	24	4	4	11	14	
1DH14060	1/8-27f	1/4-18f	9,7	12,1	26,5	4,5	5,6	14	17	
1DH14062	1/4-18f	1/8-27f	14,2	10	31,2	6	4	14	14	
1DH14070	1/4-18f	1/4-18f	14,2	12,1	33,5	5,6	5,6	14	17	
1DH16100	1/4-18f	3/8-18f	14,2	12,6	33	6	8,7	17	22	
1DH19080	3/8-18f	1/4-18f	14,2	12,1	33,5	9	5,6	19	22	
1DH19110	3/8-18f	3/8-18f	14,2	12,6	33,5	8,7	8,7	19	22	
1DH22130	3/8-18f	1/2-14f	14,2	13	35	9	11,9	19	27	
1DH22120	1/2-14f	3/8-18f	19	12,6	40,5	12	8,7	22	22	
1DH22140	1/2-14f	1/2-14f	19	13	41	11,9	11,9	22	27	
1DH27152	1/2-14f	3/4-14f	19	15,5	44,5	12	16,3	24	32	
1DH27150	3/4-14f	1/2-14f	19	13	42	16,5	11,9	27	27	
1DH27160	3/4-14f	3/4-14f	19	15,5	44,5	16,3	16,3	27	32	
1DH32180	3/4-14f	1"-11,5f	19	15,5	45,5	16,5	21,4	30	38	
1DH34170	1"-11,5f	3/4-14f	23,9	15,5	51,5	21,5	16,3	36	32	
1DH34190	1"-11,5f	1"-11,5f	23,9	15,5	51	21,4	21,4	36	38	
1DH46205	1"-11,5f	1"1/4-11,5f	23,9	18,8	55,3	21,5	29	41	50	
1DH50206	1"-11,5f	1"1/2-11,5f	23,9	21,5	58,4	21,5	34,5	46	55	
1DH46210	1"1/4-11,5f	1"-11,5f	24,5	15,5	53	28,5	21,4	46	38	
1DH46200	1"1/4-11,5f	1"1/4-11,5f	24,6	18,8	56	29	29	46	50	
1DH50210	1"1/2-11,5f	1"1/2-11,5f	25,4	21,5	59,5	34,5	34,5	50	55	
1DH63220	2"-11,5f	2"-11,5f	26,2	22,5	64,5	46,1	46,1	65	70	

Straight Adapter Male NPT X Swivel Female Metric DIN (60°)

S MNPT X FSDIN

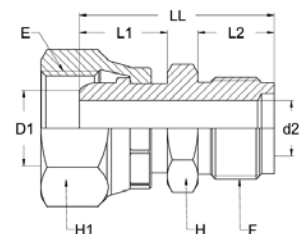
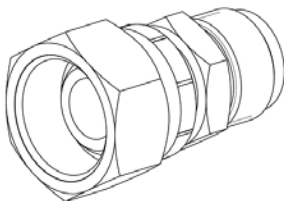
PT459	NPT (E)	DIN (F)	L1	L2	LL	d1	d2	H	H2	
1DB14050	1/4-18f	M14X1.5	14,2	14	35	5	5	14	17	
1DB19140	3/8-18f	M18X1.5	14,2	15	37	8	8	19	22	
1DB22190	1/2-14f	M22X1.5	19	15,5	42,5	12	10	22	27	
1DB27230	3/4-14f	M26X1.5	19	16,5	44,5	16,5	14	27	32	

Straight Adapter Swivel Female JIC X Male DIN Bonded seal

S FSJIC X MDINBS

PT452	JIC (E)	DINBS (F)	L1	L2	LL	d1	d2	H	H1	
1DC19220	1/2-20f	M10X1.5	8.5	10	27	6	3	14	17	
1DC19230	1/2-20f	M12X1.5	8.5	10	27.5	6	4	17	17	
1DC19180	9/16-18f	M14X1.5	9.5	12	31.5	6	6	19	19	
1DC19190	9/16-18f	M16X1.5	9.5	12	31.5	7.5	7.5	22	19	

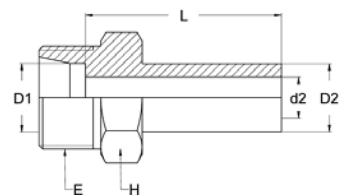
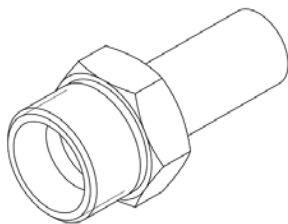
Straight Adapter Swivel Female JIC X Male ISO + O-Ring + Retaining Ring

S FSJIC X MISO +OR +RR

PT453	JIC (E)	ISO (F)	L1	L2	LL	d1	d2	H	H1	
1DC19182	9/16-18f	M14X1.5	9,5	11	31	7.8	7.5	19	19	
1DC19184	9/16-18f	M16X1.5	9.5	11.5	31.5	7.5	7.5	22	19	
1DC19202	3/4-16f	M16X1.5	10.5	11.5	32.5	9	9	22	22	
1DC19204	3/4-16f	M18X1.5	10.5	12.5	31	9.9	11	24	22	
1DC34450	1"5/16-12f	M27X2	13,5	16	41	21,5	18	32	41	

Straight Adapter Swivel Female 24° X Male Farm

S FS24D X MFARM

PT356	24D (E)	FARM (F)	TUBE (D1)	L1	L2	LL	d2	H	H1	
8UFT13GMFA18	M20X1.5	M18X1.5	13G	14.5	16	38.5	8	19	27	
8UFT13GMFA24	M20X1.5	M24X1.5	13G	14.5	18	41.5	13	27	27	

Straight Adapter Male 24° X Standpipe spigot 24°

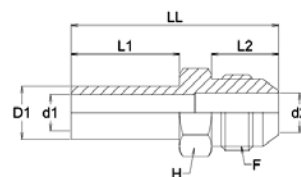


S M24D X EL24D

PT331	24D (E)	24D	TUBE (D1)	TUBE (D2)	L	d2	H			
8UEL12M13G	M20X1.5	12L	13G	12L	37	8	22			
8UEL13M13G	M20X1.5	13G	13G	13.25	38	8	22			
8UEL17M13G	M20X1.5	17G	13G	16.75	40	8	22			
8UEL21M13G	M20X1.5	21G	13G	21.25	51	14	22			
8UEL13M17G	M24X1.5	13G	17G	13.25	38	9	24			
8UEL17M17G	M24X1.5	17G	17G	16.75	41	11	27			

Fittings delivered without union nut or cutting ring.

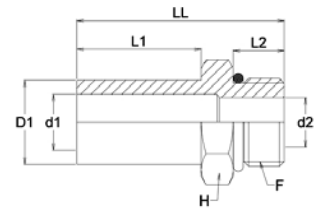
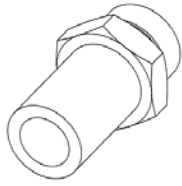
Straight Adapter Standpipe spigot 24° X Male JIC



S EL24D X MJIC

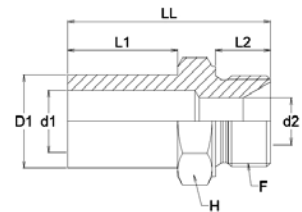
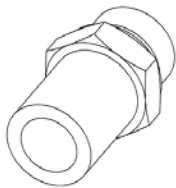
PT272	24D	JIC (F)	TUBE (D1)	L1	L2	LL	d1	d2	H	
8UEL6MJ3	6L	3/8-24f	6	25	12.2	43.2	3.2	3.2	12	
8UEL13MJ6	13G	9/16-18f	13.25	27	14.1	48.1	7.5	7.5	17	
8UEL13MJ8	13G	3/4-16f	13.25	27	15.7	51.7	9	9.9	19	
8UEL17MJ8	17G	3/4-16f	16.75	29	16.7	53.7	9.9	9.9	19	
8UEL21MJ10	21G	7/8-14f	21.25	31	19.3	58.3	14	12.3	24	
8UEL27MJ12	27G	1"1/16-12f	26.75	32	21.9	62.9	18	15.5	27	

Fittings delivered without union nut or cutting ring.

Straight Adapter Standpipe spigot 24° X Male SAE + O-Ring

S EL24D X MSAE +OR

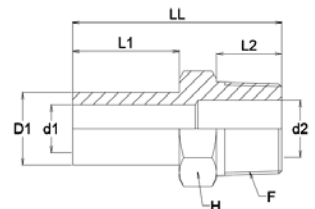
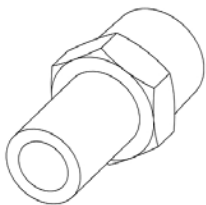
PT330	24D	SAE (F)	TUBE (D1)	L1	L2	LL	d1	d2	H	
8UEL12MS8	12L	3/4-16f	12	26	11	45	8	8	22	
8UEL20MS12	20S	1"1/16-12f	20	31	15,1	55	14	14	32	
8UEL13MS6	13G	9/16-18f	13,25	27	9,9	44	7,5	7,5	17	
8UEL13MS8	13G	3/4-16f	13,25	27	11,1	46	9	9	22	

Fittings delivered without union nut or cutting ring.

Straight Adapter Standpipe spigot 24° X Male BSP for bonded seal

S EL24D X MBSPBS

PT405	24D	BSPBS (F)	TUBE (D1)	L1	L2	LL	d1	d2	H	
8UEL17MBS12	17G	G3/4-14f	16,75	29	16	55	11	16,7	32	
8UEL18MBS12	18L	G3/4-14f	18	31	16	57	13	16,7	32	
8UEL18MBS16	18L	G1"-11f (1)	18	31	19	61	13	22,2	41	

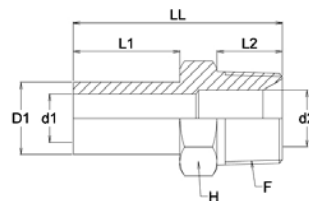
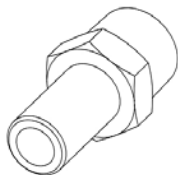
Fittings delivered without union nut or cutting ring - (1) Without cone

Straight Adapter Standpipe spigot 24° X Male BSPT

S EL24D X MR

PT407	24D	R (F)	TUBE (D1)	L1	L2	LL	d1	d2	H	
8UEL13MG4	13G	R1/4-19f	13,25	27	14	48	9	7	14	
8UEL13MG6	13G	R3/8-19f	13,25	27	15	49	9	9	17	
8UEL13MG8	13G	R1/2-14f	13,25	27	19	54	9	13	22	
8UEL13MG12	13G	R3/4-14f	13,25	27	20	56	9	18	27	

Fittings delivered without union nut or cutting ring.

Straight Adapter Standpipe spigot 24° X Male NPT

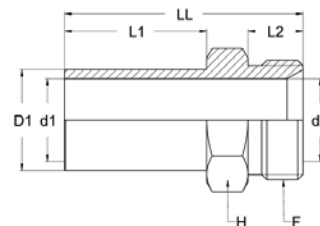
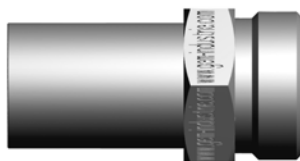
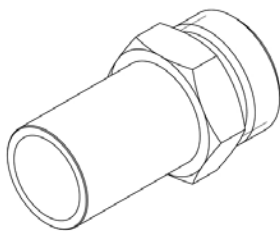


S EL24D X MNPT

PT294	24D (F)	NPT (F)	TUBE (D1)	L1	L2	LL	d1	d2	H	
8UEL6MN4	6L	1/4-18f	6	22	14,5	43,5	3,5	6	14	
8UEL8MN4	8L	1/4-18f	8	22	14,5	43,5	4	6	14	
8UEL10MN4	10L	1/4-18f	10	22	14,5	43,5	5	6	14	
8UEL12MN6	12L	3/8-18f	12	22	15	44,5	9	9	19	
8UEL15MN8	15L	1/2-14f	15	28	19	55	10	10	22	
8UEL16MN8	16S	1/2-14f	16	29	19	56	12	11	22	
8UEL18MN8	18L	1/2-14f	18	31	19	58	14	11	22	
8UEL20MN12	20S	3/4-14f	20	26	19	54,4	16	16,5	27	
8UEL22MN12	22L	3/4-14f	22	26	19	54,5	18	16,5	27	
8UEL25MN16	25S	1"-11,5f	25	26	23,5	59	20	21,5	34	
8UEL30MN20	30S	1 1/4"-11,5f	30	27	24,5	63	24	28	45	
8UEL13MN6	13G	3/8-18f	13,25	22	14,8	44,5	9	9	19	
8UEL13MN8	13G	1/2-14f	13,25	22	19	49	9	11	22	
8UEL17MN8	17G	1/2-14f	16,75	24	19	51	11	11	22	
8UEL21MN8	21G	1/2-14f	21,25	25,5	19	51	14	11	22	
8UEL27MN12	27G	3/4-14f	26,75	26	19	54	18	17	30	
8UEL33MN16	33G	1"-11,5f	33,5	27	24	61	24	21,5	34	
8UEL42MN24	42G	1 1/2"-11,5f	42,25	30	25	67	31	33,5	50	

Fittings delivered without union nut or cutting ring.

Straight Adapter Standpipe spigot 24° X Male Metric DIN (60°)

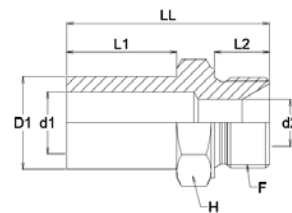
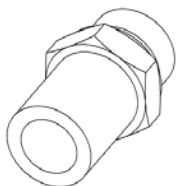


S EL24D X MDIN

PT475	24D	DIN (F)	TUBE (D1)	L1	L2	LL	d1	d2	H	
8UEL16MIC18	16S	M18X1.5	16	24	17	49	12	11	23	

Fittings delivered without union nut or cutting ring.

Straight Adapter Standpipe spigot 24° X Male DIN Bonded seal

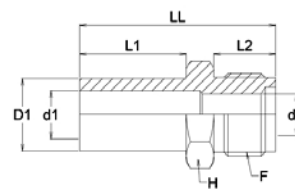
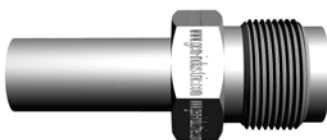
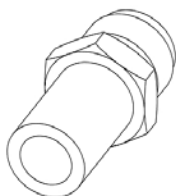


S EL24D X MDINBS

PT342	24D	DINBS (F)	TUBE (D1)	L1	L2	LL	d1	d2	H	
8UEL13MD16	13G	M16X1.5	13.25	27	12	49	9	8	22	
8UEL13MD18	13G	M18X1.5	13.25	27	12	49,5	9	10	24	
8UEL13MD20	13G	M20X1.5	13.25	27	14	52.5	9	12	27	
8UEL13MD22	13G	M22X1.5	13.25	27	14	53	9	14,1	27	

Fittings delivered without union nut or cutting ring.

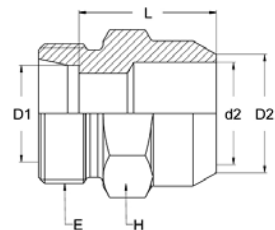
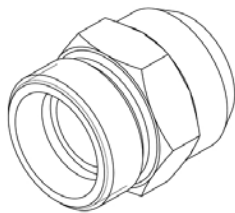
Straight Adapter Standpipe spigot 24° X Male Farm



S EL24D X MFARM

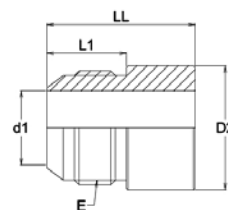
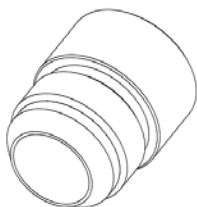
PT381	24D	FARM (F)	TUBE (D1)	L1	L2	LL	d1	d2	H	
8UEL12MFA18	12L	M18x1.5	12	26	16	50	8	8	19	
8UEL13MFA18	13G	M18X1.5	13,25	27	16	51	8	8	19	
8UEL13MFA24	13G	M24X1.5	13.25	27	18	54	9	13	27	

Fittings delivered without union nut or cutting ring.

Straight Adapter Male 24° X Butt Welding not galvanized

S M24D X BW WZ

PT339	24D (E)	TUBE (D1)	TUBE (D2)	L	d2	H				
8U6LMBW6	M12X1.5	6L	6L	14	4	12				
8U8LMBW8	M14X1.5	8L	8L	16	6	14				
8U10LMBW10	M16X1.5	10L	10L	18	8	17				
8U12LMBW12	M18X1.5	12L	12L	18	10	19				
8U18LMBW18	M26X1.5	18L	18L	23.5	15	27				
8U18LMBW22	M26X1.5	18L	22L	25.5	19	27				
8U22LMBW22	M30X2	22L	22L	28.5	19	32				
8U6SMBW6	M14x1.5	6S	6S	19	4	14				
8U8SMBW8	M16X1.5	8S	8S	21	5	17				
8U10SMBW10	M18x1.5	10S	10S	22.5	7	19				
8U12SMBW12	M20x1.5	12S	12S	24.5	8	22				
8U20SMBW20	M30X2	20S	20S	29.5	16	32				
8U25SMBW25	M36x2	25S	25S	32	20	41				

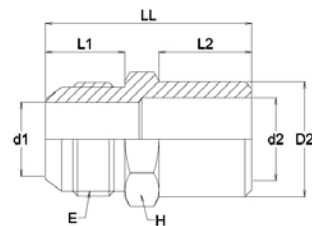
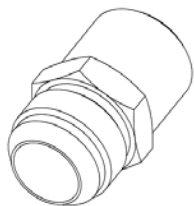
Fittings delivered without union nut or cutting ring.

Straight Adapter Male JIC X Butt Welding not galvanized

S MJIC X BW WZ

PT250	JIC (E)	BUW (D2)	L1	LL	d1					
1OX99032	7/16-20f	12	14	23	4,4					
1OX99034	1/2-20f	12	14	24	6					
1OX99038	9/16-18f	14	14	24	7,5					
1OX99042	3/4-16f	20	16.7	27	9,9					
1OX99046	7/8-14f	22	19,3	30	12,3					
1OX99052	1"1/16-12f	28	21.9	34	15,5					
1OX99054	1"5/16-12f	34	23.1	37	21.5					
1OX35130	1"5/16-12f	25	23	35	21,5					

EN-Seule la partie JIC est prise en compte

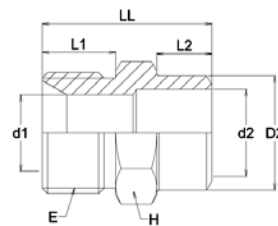
Straight Adapter Male JIC X Butt Welding not galvanized



S MJIC X BW WZ

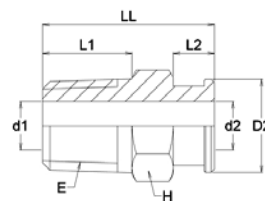
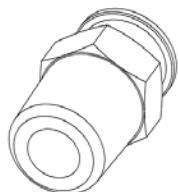
PT298	JIC (E)	BUW (D2)	L1	L2	LL	d1	d2	H		
1EX16050										
1EX17050	9/16-18f	12	14,1	23	44	7,5	7,5	17		
1EX17070	9/16-18f	13,25	14,1	22	43	7,5	7,5	17		
1EX19050	3/4-16f	12	16,7	23	47,5	9,9	8	19		
1EX19080	3/4-16f	16	16,7	24	48,5	9,9	9,9	19		
1EX19090	3/4-16f	16,75	16,7	24	49	9,9	9,9	19		
1EX19100	3/4-16f	18	16,7	24	48,5	9,9	13	19		
1EX22080	7/8-14f	16	19,3	24	51,5	12,3	10	24		
1EX22090	7/8-14f	18	19,3	24	51,5	12,3	12,3	24		
1EX22100	7/8-14f	20	19,3	26	53,5	12,3	12,3	24		
1EX22110	7/8-14f	21,25	19,3	26	53,5	12,3	14,5	22		
1EX27100	1"1/16-12f	20	21,9	26	57	15,5	12	27		
1EX27105	1"1/16-12f	25	21,9	26	57	15,5	15,5	27		
1EX27120	1"1/16-12f	26,75	21,9	26	57	15,5	18	27		
1EX34115	1"5/16-12f	25	23,1	26	59	21,5	16	36		
1EX34130	1"5/16-12f	33,5	23,1	27	60	21,5	25	34		
1EX41140	1"5/16-12f	38	23,1	27	60	21,5	28	41		
1EX45150	1"5/8-12f	42,25	24,3	30	66	27,5	31	46		
1EX50160	1"7/8-12f	48,25	27,5	35	74	33	40	50		
1EX63170	1"7/8-12f	60	27,5	35	77,5	33	40	63		
1EX65180	2"1/2-12f	60	34	35	81	45	40	65		

EN-Seule la partie JIC est prise en compte

Straight Adapter Male BSP X Butt Welding not galvanized

S MBSP X BW WZ

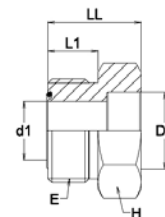
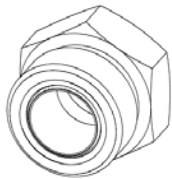
PT284	BSP (E)	BW (D2)	L1	L2	LL	d1	d2	H		
1OX15055	G1/4-19f	14	11	5	22	6	6	17		
1OX18056	G3/8-19f	16	12	6	26	9,5	9,5	17		
1OX27040	G1/2-14f (1)	18	14	10	34	12	12	27		
1OX21057	G1/2-14f	21	14	12	34	11,1	14,5	22		
1OX22058	G1/2-14f	20	14	8	31	12,5	12,5	22		
1OX30064	G5/8-14f (1)	16	16	10	36	14,3	10	30		
1OX27062	G3/4-14f	25	16	10	37	16,7	16,7	27		
1OX35110	G1"-11f	32	19	12	42	21,5	21,5	34		
1OX45115	G1"1/4-11f	41	20	14	46	27,5	27,5	42		
1OX50130	G1"1/2-11f	46	22	16	53	33,3	33,3	50		
1OX60150	G2"-11f	58	25	18	59	46	46	60		

EN-Seule la partie BSP est prise en compte

Straight Adapter Male BSPT X Butt Welding

S MR X BW

PT292	R (E)	BW (D2)	L1	L2	LL	d1	d2	H		
1OX26004	R1/4-19f	13.5	13	6	25	7	7	14		
1OX26006	R3/8-19f	17.2	15	6	28	11	11	19		
1OX26008	R1/2-14f	21.3	18	6	31	14	14	22		
1OX26012	R3/4-14f	26.9	20	6	34	19	19	27		
1OX26016	R1"-11f	33.7	22	7	37	24	24	36		
1OX26020	R1"1/4-11f	42.4	25	7	41	31	31	46		
1OX26024	R1"1/2-11f	48.3	25	8	42	37	37	50		
1OX26032	R2"-11f	60.3	29	8	48	47	47	65		

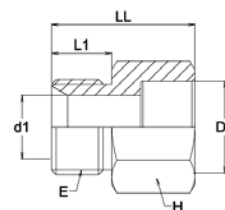
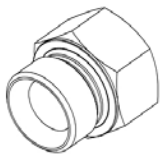
EN-Seule la partie GAZ conique est prise en compte

Straight Adapter Male ORFS X Socket Welding

S MORFS X SW

PT257	ORFS (E)	SW (D2)	L1	LL	d1	H				
1FS13005	9/16-18f	6	9,8	22	4,5	17				
1FS13010	9/16-18f	8	9,8	22	4,5	17				
1FS13130	9/16-18f	3/8 (9,52)	9,8	22	4,5	17				
1FS13015	9/16-18f	10	9,8	22	4,5	17				
1FS13020	11/16-16f	10	11,2	23,1	6,5	19				
1FS13025	11/16-16f	12	11,2	23,1	6,5	19				
1FS13145	11/16-16f	1/2 (12,7)	11,2	23,1	6,5	19				
1FS13030	13/16-16f	12	12,8	24,7	9,5	22				
1FS13040	13/16-16f	14	12,8	24,7	9,5	22				
1FS13045	13/16-16f	16 (5/8)	12,8	24,7	9,5	22				
1FS13054	1"-14f	16 (5/8)	15,5	27,4	12,5	27				
1FS13055	1"-14f	18	15,5	31,4	12,5	27				
1FS13175	1"-14f	3/4 (19,23)	15,5	31,4	12,5	27				
1FS13060	1"3/16-12f	18	17	33,7	15,5	32				
1FS13069	1"3/16-12f	20	17	33,7	15,5	32				
1FS13070	1"3/16-12f	22	17	33,7	15,5	32				
1FS13075	1"3/16-12f	25	17	33,7	15,5	32				
1FS13190	1"3/16-12f	1" (25,4)	17	35,2	15,5	32				
1FS13080	1"7/16-12f	25	17,5	37,1	20,5	41				
1FS13085	1"7/16-12f	28	17,5	38,6	20,5	41				
1FS13090	1"7/16-12f	32 (1"1/4)	17,5	38,6	20,5	41				
1FS13095	1"11/16-12f	32 (1"1/4)	17,5	38,6	26	46				
1FS13100	1"11/16-12f	35	17,5	38,6	26	46				
1FS13105	1"11/16-12f	38 (1"1/2)	17,5	38,6	26	46				
1FS13109	2"-12f	35	17,5	38,6	32	55				
1FS13110	2"-12f	38 (1"1/2)	17,5	38,6	32	55				

EN-Seule la partie ORFS est prise en compte

Straight Adapter Male BSP for bonded seal X Socket Welding not galvanized

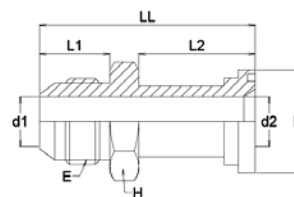
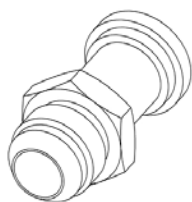


S MBSPBS X SW WZ

PT157	BSPBS (E)	SW (D2)	L1	LL	d1	H				
1OX18054	G1/4-19f	14,1	11	25	4,7	19				
1OX22059	G3/8-19f	17,55	12	26	7,9	22				
1OX27060	G1/2-14f	21,7	14	28	11,1	27				
1OX29065	G5/8-14f	22,9	17	33	14	29				
1OX32070	G3/4-14f	27,05	16	34,5	16,7	32				
1OX40090	G1"-11f	33,8	19	38,5	22,2	41				
1OX50120	G1"1/4-11f	42,5	19	36	27,6	50				
1OX60140	G1"1/2-11f	48,5	20	37	33	60				
1OX70160	G2"-11f	60,5	22	40	42	70				

EN-Seule la partie BSP est prise en compte

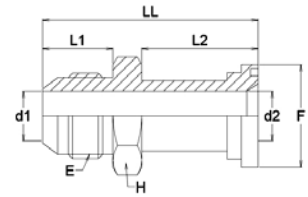
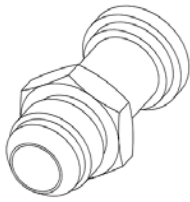
Straight Adapter Male JIC X SAE flange series 3000



S MJIC X FS3

PT428	JIC (E)	SAE (F)	L1	L2	LL	d1	d2	H		
1FA99040	3/4-16f	1/2	17	13,5	37,5	9,9	9,9	21		
1FA99050	7/8-14f	1/2	19,5	27,5	55	10	10	22		
1FA99060	1"1/16-12f	3/4	22	30,5	62	15	15	27		
1FA99070	1"5/16-12f	1"	23,5	34	66	16	16	36		
1FA99080	1"5/8-12f	1"1/4	24,5	33,5	67	26	26	42		
1FA99090	1"7/8-12f	1"1/2	27	35,5	74	32	32	50		
1FA99100	2"1/2-12f	2"	34	36	85	45	45	65		

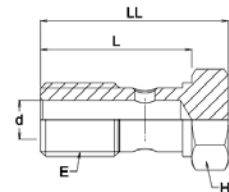
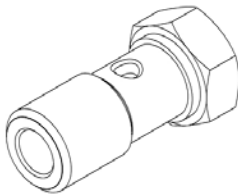
Straight Adapter Male JIC X SAE flange series 6000



S MJIC X FS6

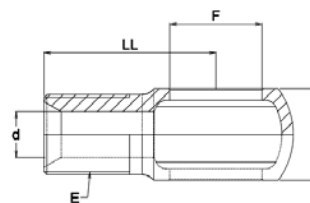
PT428B	JIC (E)	SAE (F)	L1	L2	LL	d1	d2	H		
1FA99510	7/8-14f	1/2	19,5	32	60	10	10	22		
1FA99520	1"1/16-12f	1/2	22,5	32,5	63,5	10	10	27		
1FA99530	1"1/16-12f	3/4	22	41	72,5	15	15	27		
1FA99540	1"5/16-12f	3/4	23,5	41,5	74	15	15	36		
1FA99550	1"5/16-12f	1"	23	48,5	80,5	20	20	36		
1FA99560	1"5/8-12f	1"	24	48	82	20	20	42		
1FA99570	1"5/8-12f	1"1/4	24	56,5	90,5	26	26	42		
1FA99580	1"7/8-12f	1"1/4	28	39	78,5	33,5	28	54		
1FA99590	1"7/8-12f	1"1/2	27	43	81,5	33	28	50		
1FA99600	2"1/2-12f	2"	34	48,5	97,5	45	45	65		

Straight Adapter Male BSPP X Banjo screw

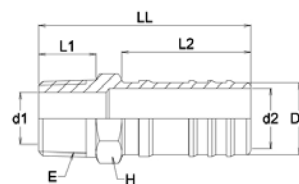


S MG X BAJVS

PT296	G (E)	BAJVS	L	LL	D	H				
1DA99011	G1/8-28f	1/8	22	27	4,5	14				
1DA99013	G1/4-19f	1/4	26	33	5	19				
1DA99017	G3/8-19f	3/8	33	41	9	22				
1DA99021	G1/2-14f	1/2	38	47	12,3	27				
1DA99025	G3/4-14f	3/4	46	56	15,5	32				

Straight Adapter Male BSP X Banjo body

S MBSP X BAJCP

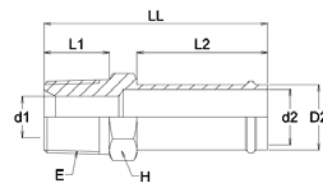
PT222	BSP (E)	BAJCP (F)	L	LL	D					
1DA99010	G1/8-28f	1/8	12	20	3.5					
1DA99012	G1/4-19f	1/4	14	25	4.7					
1DA99016	G3/8-19f	3/8	17	29	7.9					
1DA99020	G1/2-14f	1/2	22	35	11.1					
1DA99024	G3/4-14f	3/4	28	38	16.7					

Straight Adapter Male BSPT X Male tails serrated

S MR X HOSN

PT264	R (E)	HOSN (D2)	L1	L2	LL	d1	d2	H	FORM	
1QG14050	R1/8-28f	6	10	25	41	4,5	4,5	12	W	
1QG14060	R1/4-19f	6	14	25	45	7	4,5	14	W	
1QG17070	R1/4-19f	8	14	26	47	6	6	14	W	
1QG14080	R1/4-19f	10	14	32	52	7	7	14	W	
1QG17090	R1/4-19f	13	14	34	55	7	10	17	W	
1QG17110	R3/8-19f	6	15	25	47	10	4,5	17	W	
1QG19100	R3/8-19f	8	15	26	48	10	6	17	W	
1QG17100	R3/8-19f	10	15	32	54	10	8	17	W	
1QG19120	R3/8-19f	13	15	34	56	10	10	17	W	
1QG19130	R3/8-19f	16	15	38	60	10	13	19	W	
1QG22140	R1/2-14f	12,5	19	34	61	13	10	22	W	
1QG22150	R1/2-14f	16	19	38	65	13	13	22	W	
1QG22160	R1/2-14f	19	19	41	68	13	16	22	W	
1QG27140	R3/4-14f	13	27,1	34	63	18	10	27	W	
1QG30170	R3/4-14f	16	20	38	67	18	13	27	W	
1QG30180	R3/4-14f	19	20	41	70	18	16	27	W	
1QG30190	R3/4-14f	25	20	45	74	18	21	27	W	
1QG36200	R1"-11f	25	24	45	79	24	21	36	W	
1QG36210	R1"-11f	32	24	48	82	24	28	36	W	
1QG46210	R1"1/4-11f	32	25	48	85	31	28	46	W	
1QG45200	R1"1/4-11f	39	25	53	90	31	31	46	W	
1QG50220	R1"1/4-11f	32	25	48	85	38	28	50	W	
1QG50230	R1"1/2-11f	38	25	53	90	33	33	50	W	
1QG63240	R2"-11f	50	30	66	111	44	44	65	W	
1QG77250	R2"1/2-11f	63,5	36	85	141	56	56	80	W	

EN-Seule la partie GAZ conique est prise en compte

Straight Adapter Male NPT X Male tails serrated

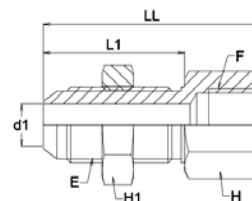
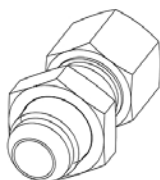


S MNPT X HOSN

PT299	NPT (E)	HOSN (D2)	L1	L2	LL	d1	d2	H	FORM	
1QH12050	1/8-27f	8	10	38	53	5	6	12	X	
1QH14070	1/4-18f	8	14,2	26	47,2	6	6	14	W	
1QH14080	1/4-18f	10	14,5	34	55,5	6	6	14	Z	
1QH19101	3/8-18f	12,7	15	22	44,5	9	9	19	Z	
1QH22110	3/8-18f	16	14,5	38	59,5	10,5	13,5	22	X	
1QH22200	1/2-14f	10,5	19	34	61	11	6	22	Z	
1QH22120	1/2-14f	13	19	34	61	11	10	22	W	
1QH22130	1/2-14f	19	19	38	65	12	16	22	X	
1QH27050	3/4-14f	19	19	41	69	16	16	27	Z	
1QH32150	3/4-14f	25	19	45	73,5	16,5	21	30	X	
1QH34190	1"-11,5f	19	24	41	75	21,5	16	36	Z	
1QH36160	1"-11,5f	25	24	38	71,5	21,5	22	34	X	
1QH45170	1"1/4-11,5f	25	24,5	38	72	28	20	45	X	
1QH45180	1"1/4-11,5f	38	24,5	53	89	28	33	45	W	
1QH95200	2"-11,5f (1)	50	26,2	66	107	44	44	65	X	

(1) Milled.

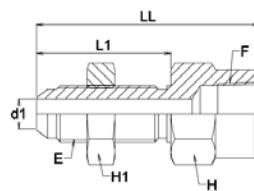
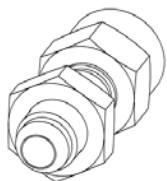
Straight Adapter Bulkhead Male JIC + Locknut X Female BSPP



S MBHJIC + LN X FG

PT172	JIC (E)	G (F)	L1	LL	d1	H	H1			
1CF21080	3/4-16f	G3/8-19f	37,6	57,6	9,9	24	24			
1CF21090	3/4-16f	G1/2-14f	37,6	62	9,9	27	24			
1CF27110	7/8-14f	G3/8-19f	41,1	60	12,3	30	30			
1CF27120	7/8-14f	G1/2-14f	41,1	65,1	12,3	30	30			

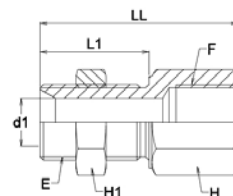
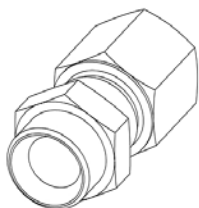
Straight Adapter Bulkhead Male JIC Locknut X Female NPT



S MBHJIC LN X FNPT

PT430	JIC (E)	NPT (F)	L1	LL	d1	H	H1			
1CR16060	7/16-20f	1/8-27f	31,5	47,5	4,4	17	17			
1CR19064	7/16-20f	1/4-18f	31,5	50,5	4,4	19	17			
1CR19066	9/16-18f	1/4-18f	33,5	52,5	7,5	22	22			
1CR24104	3/4-16f	3/8-18f	37,6	58,5	9,9	24	24			
1CR30130	7/8-14f	1/2-14f	41,1	66	12,3	30	30			
1CR36140	1"1/16-12f	3/4-14f	45,4	70,5	15,5	36	36			
1CR46150	1"1/16-12f	1"-11,5f	45,4	76,5	15,5	41	36			
1CR46160	1"5/16-12f	1"-11,5f	45,4	76,5	21,5	41	41			

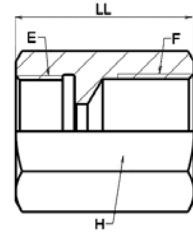
Straight Adapter Bulkhead Male BSP X Female BSPT



S MBHBSP X FR

PT415	BSP (E)	R (F)	L1	LL	d1	H	H1			
1AQ19055	G1/4-19f	R1/4-19f	29	48	4,7	19	19			
1AQ22094	G3/8-19f	R3/8-19f	31	52,5	7,9	22	22			
1AQ22096	G1/2-14f	R1/2-14f	34	55,5	11,1	27	27			
1AQ22098	G1"-11f	R1"-11f	41	68	22,2	41	41			

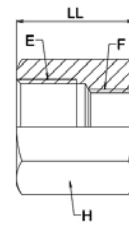
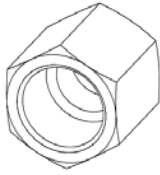
Straight Adapter Female ORFS X Female BSPP



S FORFS X FG

PT301										
1FS71004	9/16-18f	G1/4-19f	29	19						
1FS71006	11/16-16f	G3/8-19f	31	22						
1FS71008	13/16-16f	G1/2-14f	37	27						
1FS71108	1"-14f	G1/2-14f	39	30						
1FS71112	1"-14f	G3/4-14f	41	32						
1FS71210	1"3/16-12f	G5/8-14f	40.5	36						
1FS71212	1"3/16-12f	G3/4-14f	42.5	36						
1FS71616	1"7/16-12f	G1"-11f	48	41						

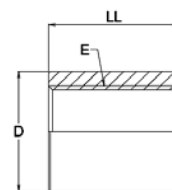
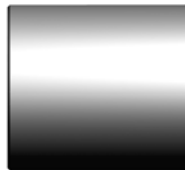
Straight Adapter Female BSPP X Female BSPP



S FG X FG

PT128	G (E)	G (F)	LL	H						
1MG14050	G1/8-28f	G1/8-28f	20	14						
1MG17510	G1/4-19f	G1/8-28f	24	19						
1MG17060	G1/4-19f	G1/4-19f	25	19						
1MG21520	G3/8-19f	G1/4-19f	27	22						
1MG21070	G3/8-19f	G3/8-19f	27	22						
1MG27530	G1/2-14f	G1/4-19f	33	27						
1MG27540	G1/2-14f	G3/8-19f	32	27						
1MG27080	G1/2-14f	G1/2-14f	35	27						
1MG32550	G3/4-14f	G1/2-14f	36	32						
1MG32090	G3/4-14f	G3/4-14f	40	32						
1MG41560	G1"-11f	G3/4-14f	45	41						
1MG41100	G1"-11f	G1"-11f	45	41						
1MG50570	G1"1/4-11f	G3/4-14f	45	50						
1MG50580	G1"1/4-11f	G1"-11f	50	50						
1MG50110	G1"1/4-11f	G1"1/4-11f	50	50						
1MG60090	G1"1/2-11f	G3/4-14f	54	55						
1MG60100	G1"1/2-11f	G1"-11f	52	55						
1MG60110	G1"1/2-11f	G1"1/4-11f	52	55						
1MG60120	G1"1/2-11f	G1"1/2-11f	55	55						
1MG70122	G2"-11f	G3/4-14f	45	70						
1MG70126	G2"-11f	G1"1/4-11f	57	70						
1MG70128	G2"-11f	G1"1/2-11f	59	70						
1MG70130	G2"-11f	G2"-11f	60	70						

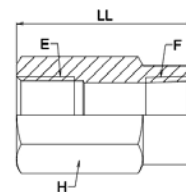
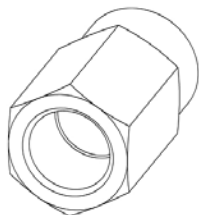
Straight Adapter Female BSPP X Female BSPP Weld-on not galvanized



S FG X FG WELD WZ

PT242	G (E)	WELD (D)	LL							
1OX99002	G1/8-28f	20	14							
1OX99004	G1/4-19f	20	25							
1OX99006	G3/8-19f	25	30							
1OX99008	G1/2-14f	30	35							
1OX99012	G3/4-14f	38	40							
1OX99016	G1"-11f	45	40							
1OX99022	G1"1/4-11f	55	45							
1OX99024	G1"1/2-11f	62	48							

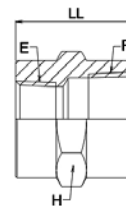
Straight Adapter Female BSPP X Female NPT



S FG X FNPT

PT247	G (E)	NPT (F)	LL	H						
1MZ16150	G1/8-28f	1/8-27f	20,5	16						
1MZ24160	G3/8-19f	3/8-18f	29	22						
1MZ24170	G1/2-14f	1/2-14f	38	30						
1MZ24180	G1"-11f	1"-11f	51	41						

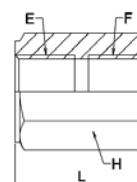
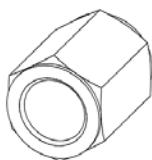
Straight Adapter Female NPT X Female NPT



S FNPT X FNPT

PT150	NPT (E)	NPT (F)	LL	H						
1MH16050	1/8-27f	1/8-27f	19	16						
1MH19510	1/8-27f	1/4-18f	23.4	19						
1MH19060	1/4-18f	1/4-18f	28.7	19						
1MH24520	1/4-18f	3/8-18f	28.4	22						
1MH29520	1/4-18f	1/2-14f	32.3	29						
1MH24070	3/8-18f	3/8-18f	28.7	22						
1MH29530	3/8-18f	1/2-14f	32.5	29						
1MH29080	1/2-14f	1/2-14f	38.1	29						
1MH36540	1/2-14f	3/4-14f	38.6	36						
1MH36090	3/4-14f	3/4-14f	38.9	36						
1MH46550	3/4-14f	1"-11,5f	42.2	41						
1MH46100	1"-11,5f	1"-11,5f	48	41						
1MH54110	1"1/4-11,5f	1"1/4-11,5f	49	50						
1MH63120	1"1/2-11,5f	1"1/2-11,5f	49	60						
1MH77130	2"-11,5f	2"-11,5f	49.8	75						

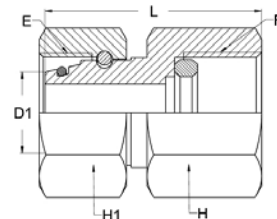
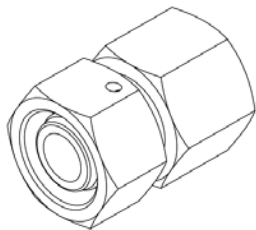
Straight Adapter Female ISO X Female ISO



S FISO X FISO

PT166	ISO (E)	ISO (F)	L	H						
1IF19040	M14X1.5	M14X1.5	30	19						
1IF21050	M16X1.5	M16X1.5	29	22						
1IF23060	M18X1.5	M18X1.5	29	24						
1IF26070	M22X1.5	M22X1.5	30.5	27						

Straight Adapter Swivel Female 24° + O-Ring X Female BSP Pressure gauge coupling

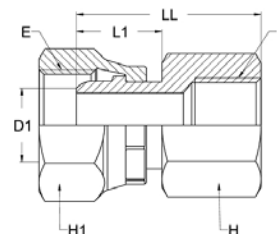
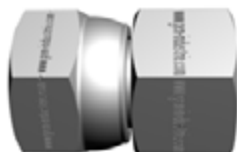
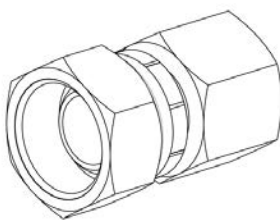


S FS24D +OR X FBSP MANO

PT163	24D (E)	BSPS (F)	TUBE (D1)	L	H	H1				
8UFT8LFBK4	M14X1.5	G1/4-19f	8L	35,5	19	17				
8UFT10LFBK4	M16X1.5	G1/4-19f	10L	36	19	19				
8UFT12LFBK4	M18X1.5	G1/4-19f	12L	36	19	22				
8UFT6SFBK4	M14X1.5	G1/4-19f	6S	35,5	19	17				
8UFT8SFBK4	M16X1.5	G1/4-19f	8S	35,5	19	19				
8UFT10SFBK4	M18X1.5	G1/4-19f	10S	36	19	22				
8UFT12SFBK4	M20X1.5	G1/4-19f	12S	39	19	24				

DKI = Metal ring

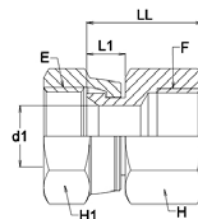
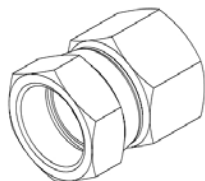
Straight Adapter Swivel Female 24° X Female BSPP



S FS24D X FG

PT464	24D (E)	G (F)	TUBE (D1)	L1	LL	H	H1			
8UFT13GFB4	M20X1.5	G1/4-19f	13G	14,5	34,5	19	27			
8UFT13GFB8	M20X1.5	G1/2-14f	13G	14,5	40	27	27			
8UFT13GFB12	M20X1.5	G3/4-14f	13G	14,5	44	32	27			

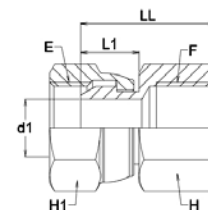
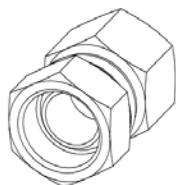
Straight Adapter Swivel Female JIC X Female BSPP



S FSJIC X FG

PT134	JIC (E)	G (F)	L1	LL	d1	H	H1			
1DC17125	7/16-20f	G1/4-19f	8,5	29,5	4,4	19	14			
1DC17126	1/2-20f	G1/4-19f	8,5	29,5	6	19	17			
1DC21273	9/16-18f	G3/8-19f	9,5	30,5	7,5	22	19			
1DC27290	3/4-16f	G1/2-14f	10,5	36,5	9,9	27	22			
1DC27300	7/8-14f	G1/2-14f	11,5	36,5	12,3	27	27			
1DC32310	1"1/16-12f	G3/4-14f	13,5	41	15,5	32	32			
1DC41448	1"5/16-12f	G1"-11f	13,5	48,5	21,5	41	41			

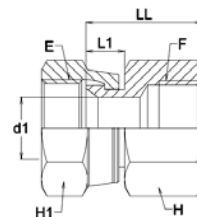
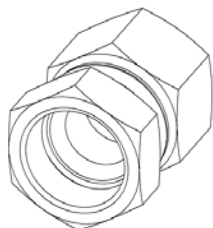
Straight Adapter Swivel Female BSP X Female BSPP



S FSBSP X FG

PT176	BSP (E)	G (F)	L1	LL	d1	H	H1			
1DA14075	G1/8-28f	G1/8-28f	10.2	26	3.5	14	14			
1DA17080	G1/4-19f	G1/4-19f	11.3	31,5	4,7	19	19			
1DA21150	G3/8-19f	G3/8-19f	12.5	33	7,9	22	22			
1DA27250	G1/2-14f	G1/2-14f	15	41	11,1	27	27			
1DA27370	G3/4-14f	G1/2-14f	15	42	16,7	27	32			
1DA32180	G3/4-14f	G3/4-14f	17.8	45	16,7	32	32			
1DA41440	G1"-11f	G1"-11f	19.5	54	22,2	41	41			
1DA50890	G1"1/4-11f	G1"1/4-11f	21.4	56	28,6	50	50			
1DA60100	G1"1/2-11f	G1"1/2-11f	22	61	33,3	55	55			
1DA70910	G2"-11f	G2"-11f	22.9	63	46	70	70			

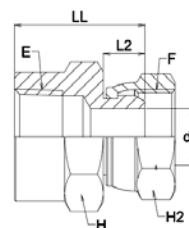
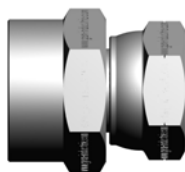
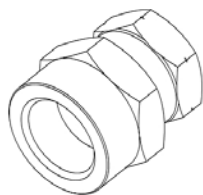
Straight Adapter Swivel Female JIC X Female NPT



S FSJIC X FNPT

PT431	JIC (E)	NPT (F)	L1	LL	d1	H	H1			
1DC29350	7/8-14f	1/2-14f	11,5	35,5	12,3	30	27			
1DC29360	7/8-14f	3/4-14f	11,5	37,5	12,3	36	27			
1DC32160	1"1/16-12f	1"-11,5f	13,5	46	15,5	41	32			
1DC46410	1"5/16-12f	1"-11,5f	13,5	44,5	21,5	41	41			

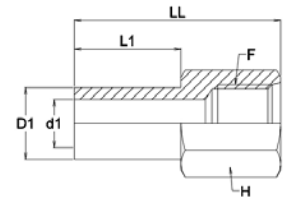
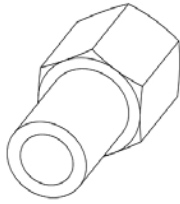
Straight Adapter Female NPT X Swivel Female NPSM



S FNPT X FSNPSM

PT362	NPT (E)	NPSM (F)	L2	LL	d2	H	H2			
1DH16410	1/8-27f	1/8-27f	10	23,5	4	16	14			
1DH19420	1/4-18f	1/4-18f	12,1	31,5	5,6	19	17			
1DH19426	1/4-18f	3/8-18f	12,6	33	8,7	19	22			
1DH24430	3/8-18f	3/8-18f	12,6	34	8,7	22	22			
1DH24436	3/8-18f	1/2-14f	13	34	11,9	22	27			
1DH29440	1/2-14f	1/2-14f	13	38	11,9	30	27			
1DH36450	3/4-14f	3/4-14f	15,5	44	16,3	36	32			
1DH46460	1"-11,5f	3/4-14f	15,5	51,5	16,3	41	32			
1DH46470	1"-11,5f	1"-11,5f	15,5	51,5	21,4	41	38			
1DH54200	1"1/4-11,5f	1"1/4-11,5f	18,8	51,5	29	50	50			
1DH63210	1"1/2-11,5f	1"1/2-11,5f	21,5	55	34,5	60	55			
1DH77230	2"-11,5f	2"-11,5f	22,5	57	46,1	75	70			

Straight Adapter Standpipe spigot 24° X Female SAE

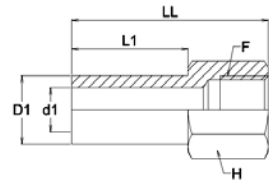
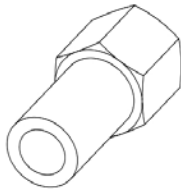


S EL24D X FSAE

PT402	24D	SAE (F)	TUBE (D1)	L1	LL	d1	H			
8UEL13FS2	13G	3/8-24f	13.25	27	37	9	14			
8UEL13FS5	13G	1/2-20f	13.25	27	39	9	17			
8UEL13FS8	13G	3/4-16f	13.25	27	51	8	24			

Fittings delivered without union nut or cutting ring.

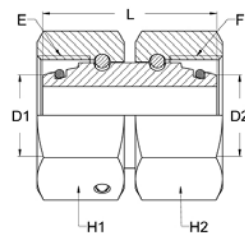
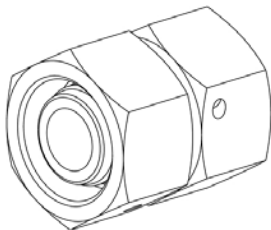
Straight Adapter Standpipe spigot 24° X Female BSPP



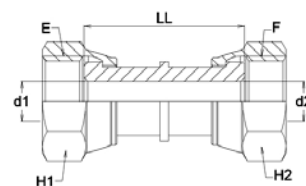
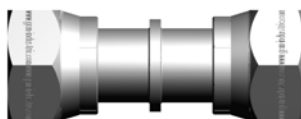
S EL24D X FG

PT401	24D	G (F)	TUBE (D1)	L1	LL	d1	H			
8UEL13FBS6	13G	G3/8-19f	13.25	27	47	9	22			
8UEL13FBS8	13G	G1/2-14f	13.25	27	53	9	27			

Fittings delivered without union nut or cutting ring.

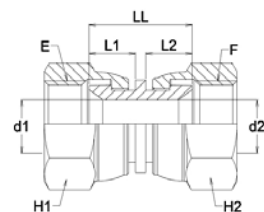
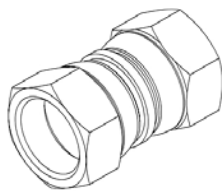
Straight Adapter Swivel Female 24° X Swivel Female 24° + O-Ring

S FS24D X FS24D +OR

PT354	24D (E,F)	D1, D2	L	H1,H2						
8UFT6L	M12X1.5	6L	32	14						
8UFT8L	M14X1.5	8L	32	17						
8UFT10L	M16X1.5	10L	34.5	19						
8UFT12L	M18X1.5	12L	36	22						
8UFT15L	M22X1.5	15L	38	27						
8UFT18L	M26X1.5	18L	38	32						
8UFT22L	M30X2	22L	42.5	36						
8UFT28L	M36X2	28L	46	46						
8UFT35L	M45X2	35L	48	50						
8UFT42L	M52X2	42L	52	60						
8UFT6S	M14X1.5	6S	32	17						
8UFT8S	M16X1.5	8S	33.5	19						
8UFT10S	M18X1.5	10S	36.5	22						
8UFT12S	M20X1.5	12S	37.5	24						
8UFT14S	M22X1.5	14S	39	27						
8UFT16S	M24X1.5	16S	39	30						
8UFT20S	M30X2	20S	46	36						
8UFT25S	M36X2	25S	46	46						
8UFT30S	M42X2	30S	52	50						
8UFT38S	M52X2	38S	52	60						

Straight Adapter Swivel Female ORFS X Swivel Female ORFS

S FSORFS X FSORFS

PT197	ORFS (E)	ORFS (F)	LL	d1	d2	H1	H2			
1FS70001	9/16-18f	9/16-18f	34	4	4	19	19			
1FS70005	11/16-16f	11/16-16f	41	6,5	6,5	22	22			
1FS70010	13/16-16f	13/16-16f	45	9	9	24	24			
1FS70015	1"-14f	1"-14f	53	11,5	11,5	30	30			
1FS70020	1"3/16-12f	1"3/16-12f	56	14	14	36	36			
1FS70025	1"7/16-12f	1"7/16-12f	60	20	20	41	41			
1FS70030	1"11/16-12f	1"11/16-12f	60	26	26	50	50			
1FS70035	2"-12f	2"-12f	61	32	32	60	60			

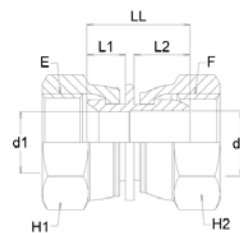
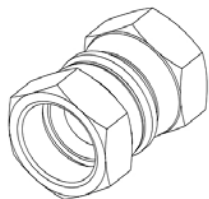
Straight Adapter Swivel Female JIC X Swivel Female JIC



S FSJIC X FSJIC

PT130	JIC (E)	JIC (F)	L1	L2	LL	d1	d2	H1	H2	
1DC12810	7/16-20f	7/16-20f	8,5	8,5	19	4,4	4,4	14	14	
1DC14812	7/16-20f	1/2-20f	8,5	8,5	19	4,4	6	14	17	
1DC14822	7/16-20f	9/16-18f	8,5	9,5	20	4,4	7,5	14	19	
1DC14820	1/2-20f	1/2-20f	8,5	8,5	19	6	6	17	17	
1DC14824	1/2-20f	9/16-18f	8,5	9,5	20	6	7,5	17	19	
1DC14830	9/16-18f	9/16-18f	9,5	9,5	21	7,5	7,5	19	19	
1DC16835	3/4-16f	9/16-18f	10,5	9,5	22	9,9	7,5	22	19	
1DC16840	3/4-16f	3/4-16f	10,5	10,5	23	9,9	9,9	22	22	
1DC21842	3/4-16f	7/8-14f	10,5	11,5	25	9,9	12,3	22	27	
1DC27842	3/4-16f	1"1/16-12f	10,5	13,5	27	9,9	15,5	22	32	
1DC21850	7/8-14f	7/8-14f	11,5	11,5	26	12,3	12,3	27	27	
1DC27844	7/8-14f	1"1/16-12f	11,5	13,5	28	12,3	15,5	27	32	
1DC27860	1"1/16-12f	1"1/16-12f	13,5	13,5	30	15,5	15,5	32	32	
1DC30862	1"1/16-12f	1"3/16-12f	13,5	13,5	30	15,5	18	32	36	
1DC32862	1"1/16-12f	1"5/16-12f	13,5	13,5	30	15,5	21,5	32	41	
1DC32870	1"5/16-12f	1"5/16-12f	13,5	13,5	30	21,5	21,5	41	41	
1DC45880	1"5/8-12f	1"5/8-12f	15,5	15,5	35	27,5	27,5	50	50	
1DC50890	1"7/8-12f	1"7/8-12f	16	16	36	33	33	55	55	
1DC70474	2"1/2-12f	2"1/2-12f	16,5	16,5	38	45	45	75	75	

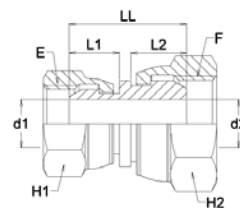
Straight Adapter Swivel Female JIC X Swivel Female BSP



S FSJIC X FSBSP

PT275	JIC (E)	BSP (F)	L1	L2	LL	d1	d2	H1	H2	
1DD17820	7/16-20f	G1/4-19f	8,5	11,3	21,8	4,4	4,4	14	19	
1DD21840	7/16-20f	G3/8-19f	8,5	12,5	23	4,4	7,1	14	22	
1DD17825	1/2-20f	G1/4-19f	8,5	11,3	21,8	6	4,5	17	19	
1DD17830	9/16-18f	G1/4-19f	9,5	11,3	22,8	7,5	4,5	19	19	
1DD21835	9/16-18f	G3/8-19f	9,5	12,5	24	7,1	7,1	19	22	
1DD27860	9/16-18f	G1/2-14f	9,5	15	27,5	7,5	9,7	19	27	
1DD21845	3/4-16f	G3/8-19f	10,5	12,5	25	9,9	7,1	22	22	
1DD21855	3/4-16f	G1/2-14f	10,5	15	28,5	9,7	9,7	22	27	
1DD32885	3/4-16f	G3/4-14f	10,5	17,8	31,3	9,9	15,5	22	32	
1DD21850	7/8-14f	G3/8-19f	11,5	12,5	27	12,3	7,1	27	22	
1DD27865	7/8-14f	G1/2-14f	11,5	15	29,5	12,3	9,7	27	27	
1DD29875	7/8-14f	G5/8-14f	11,5	14,3	28,8	12	12	27	30	
1DD27870	1"1/16-12f	G1/2-14f	13,5	15	31,5	15,5	9,7	32	27	
1DD32880	1"1/16-12f	G3/4-14f	13,5	17,8	34,3	15,5	15,5	32	32	
1DD42890	1"5/16-12f	G1"-11f	13,5	19,5	37	20,4	20,4	41	41	

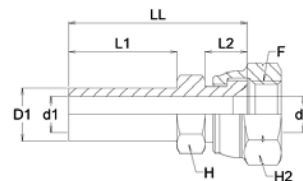
Straight Adapter Swivel Female BSP X Swivel Female BSP



S FSBSP X FSBSP

PT129	BSP (E)	BSP (F)	L1	L2	LL	d1	d2	H1	H2	
1DA14810	G1/8-28f	G1/8-28f	10,2	10,2	22,5	3,5	3,5	14	14	
1DA14812	G1/8-28f	G1/4-19f	10,2	11,3	23,5	3,5	3,5	14	19	
1DA14814	G1/8-28f	G3/8-19f	10,2	12,5	25	3,5	7,1	14	22	
1DA17820	G1/4-19f	G1/4-19f	11,3	11,3	24,5	4,7	4,7	19	19	
1DA21825	G1/4-19f	G3/8-19f	11,3	12,5	26	4,7	7,9	19	22	
1DA27830	G1/4-19f	G1/2-14f	11,3	15	29,5	4,5	9,7	19	27	
1DA32840	G1/4-19f	G3/4-14f	11,3	17,8	32	4,5	15,5	19	32	
1DA21830	G3/8-19f	G3/8-19f	12,5	12,5	27	7,9	7,9	22	22	
1DA27835	G3/8-19f	G1/2-14f	12,5	15	30,5	7,9	11,1	22	27	
1DA29830	G3/8-19f	G5/8-14f	12,5	14,3	30	7,1	12	22	30	
1DA32845	G3/8-19f	G3/4-14f	12,5	17,8	33,5	7,1	15,5	22	32	
1DA27840	G1/2-14f	G1/2-14f	15	15	33	11,1	11,1	27	27	
1DA29840	G1/2-14f	G5/8-14f	15	14,3	32,5	9,7	12	27	30	
1DA32150	G1/2-14f	G3/4-14f	15	17,8	36	11,1	16,7	27	32	
1DA42863	G1/2-14f	G1"-11f	15	19,5	38,5	11,1	22,2	27	41	
1DA29850	G5/8-14f	G5/8-14f	14,3	14,3	31,5	14,3	14,3	30	30	
1DA32855	G5/8-14f	G3/4-14f	14,3	17,8	35	12	15,5	30	32	
1DA32860	G3/4-14f	G3/4-14f	17,8	17,8	38,5	16,7	16,7	32	32	
1DA42865	G3/4-14f	G1"-11f	17,8	19,5	41,5	16,7	22,2	32	41	
1DA42870	G1"-11f	G1"-11f	19,5	19,5	43	22,2	22,2	41	41	
1DA50875	G1"-11f	G1"1/4-11f	19,5	21,4	45	20,4	26	41	50	
1DA54885	G1"-11f	G1"1/2-11f	19,5	22	45,5	22,2	33,3	41	55	
1DA50880	G1"1/4-11f	G1"1/4-11f	21,4	21,4	47	28,6	28,6	50	50	
1DA54890	G1"1/2-11f	G1"1/2-11f	22	22	48	33,3	33,3	55	55	
1DA70900	G2"-11f	G2"-11f	22,9	22,9	50	46	46	70	70	

Straight Adapter Standpipe spigot 24° X Swivel Female JIC

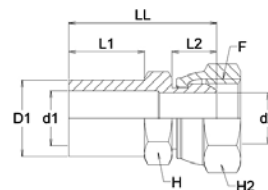
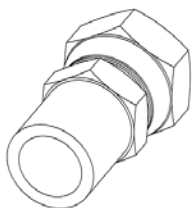


S EL24D X FSJIC

PT285	24D	JIC (F)	TUBE (D1)	L1	L2	LL	d1	d2	H	H2
8UEL10TJ5	10L	1/2-20f	10L	25	8,5	39,5	6	6	12	17
8UEL13TJ6	13G	9/16-18f	13,25	27	9,5	43,5	9	7,5	14	19
8UEL13TJ8	13G	3/4-16f	13,25	27	10,5	44,5	9	9	17	22
8UEL13TJ10	13G	7/8-14f	13,25	27	11,5	46,5	9	12,3	22	27
8UEL17TJ10	17G	7/8-14f	16,75	29	11,5	48,5	11	11	22	27
8UEL21TJ12	21G	1"1/16-12f	21,25	31	13,5	53,5	14	14	27	32
8UEL27TJ12	27G	1"1/16-12f	26,75	32	13,5	54,5	18	15,5	27	32
8UEL33TJ16	33G	1"5/16-12f	33,5	33	13,5	56,5	24	21,5	34	41

Fittings delivered without union nut or cutting ring.

Straight Adapter Standpipe spigot 24° X Swivel Female BSP

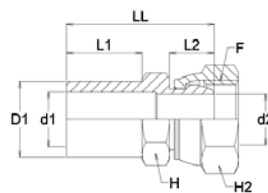
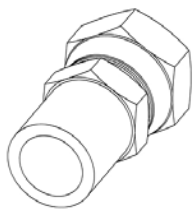


S EL24D X FSBSP

PT403	24D	BSPBS (F)	TUBE (D1)	L1	L2	LL	d1	d2	H	H2
8UEL10TBS4	10L	G1/4-19f	10	25	11,3	42,5	4,5	4,5	12	19
8UEL13TBS6	13G	G3/8-19f	13,25	27	12,5	46,5	7,1	7,1	16	22
8UEL17TBS8	17G	G1/2-14f	16,75	29	15	52	9,7	9,7	22	27
8UEL27TBS12	27G	G3/4-14f	26,75	32	17,8	59	18	15,5	27	32
8UEL33TBS16	33G	G1"-11f	33,5	33	19,5	62,5	24	20,4	34	41

Fittings delivered without union nut or cutting ring.

Straight Adapter Standpipe spigot 24° X Swivel Female Metric DIN (60°)

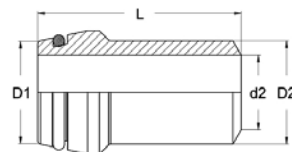
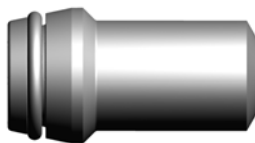
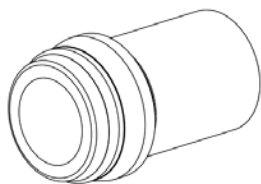


S EL24D X FSDIN

PT404	24D	DIN (F)	TUBE (D1)	L1	L2	LL	d1	d2	H	H2
8UEL13TD16	13G	M16X1.5	13.25	27	15	49	9	6	14	19
8UEL13TD18	13G	M18X1.5	13.25	27	15	49	8	8	16	22
8UEL13TD22	13G	M22x1.5	13.25	27	15,5	50,5	9	9	19	27
8UEL17TD22	17G	M22X1.5	16.75	29	15,5	52,5	10	10	19	27
8UEL21TD26	21G	M26X1.5	21.25	31	16,5	56,5	14	14	27	32

Fittings delivered without union nut or cutting ring.

Straight Adapter Swivel Female 24° X Butt Welding 24° not galvanized

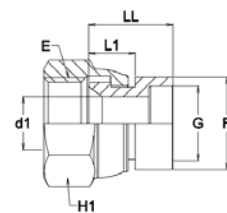
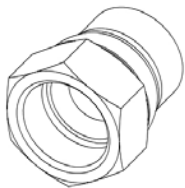


S FS24D X BW24D WZ

PT337	24D	TUBE (D1)	TUBE (D2)	L	d2					
8BW6L1.5	M12X1.5	6L	6L	30,5	3					
8BW8L2.0	M14X1.5	8L	8L	30	5					
8BW10L2.0	M16X1.5	10L	10L	32	7					
8BW12L2.0	M18X1.5	12L	12L	31	8					
8BW15L2.0	M22X1.5	15L	15L	34	10					
8BW18L2.0	M26X1.5	18L	18L	35,5	13					
8BW22L2.0	M30X2	22L	22L	38	17					
8BW28L2.5	M36X2	28L	28L	40,5	23					
8BW6S1.5	M14X1.5	6S	6S	30	2,5					
8BW8S2.0	M16X1.5	8S	8S	30,5	4					
8BW10S1.0	M18X1.5	10S	10S	32	6					
8BW12S1.5	M20X1.5	12S	12S	32	8					
8BW16S1.5	M24X1.5	16S	16S	38	11					
8BW20S2.0	M30X2	20S	20S	44,5	14					

Fittings delivered without union nut or cutting ring.

Straight Adapter Swivel Female JIC X Butt Welding + Socket Welding not galvanized

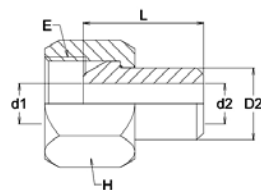
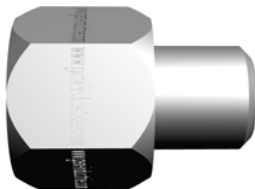
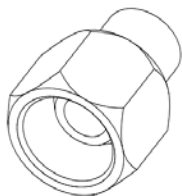


S FSJIC X BW + SW WZ

PT290	JIC (E)	BW	SW	L1	LL	d1	H1			
1OX25004	7/16-20f	9.52	6.35	8,5	15,5	4,4	14			
1OX25005	1/2-20f	12.7	9.52	8,5	16,5	6	17			
1OX25006	9/16-18f	13.25	8.0	9,5	17,5	5,5	19			
1OX25008	3/4-16f	17.2	14.1	10,5	18,5	9,9	22			
1OX25010	7/8-14f	21.3	17.55	11,5	19,5	12,3	27			
1OX25012	1"1/16-12f	26.9	21.7	13,5	24,5	15,5	32			
1OX25016	1"5/16-12f	33.7	27.05	13,5	25,5	21,5	41			
1OX25020	1"5/8-12f	42.4	33.8	15,5	29,5	27,5	50			
1OX25024	1"7/8-12f	48.3	42.55	16	32	33	55			
1OX25032	2"1/2-12f	60.3	48.65	16,5	32,5	45	75			

EN-Seule la partie JIC est prise en compte

Straight Adapter Swivel Female BSP X Butt Welding not galvanized

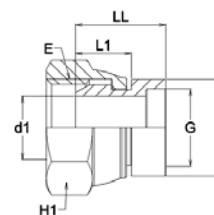
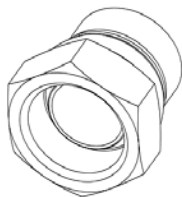


S FSBSP X BW WZ

PT220	BSP (E)	BW (D2)	L	d1	d2	H				
1OX99010	G1/4-19f	09	28	4.5	4.5	19				
1OX99020	G3/8-19f	12	29	7.1	7.1	22				
1OX99030	G1/2-14f	16	30	9.7	9.7	27				
1OX99040	G3/4-14f	20	32	15.5	15.5	32				
1OX99050	G1"-11f	26	34	20.4	20.4	41				
1OX99060	G1"1/4-11f	33	39	26	26	50				
1OX99070	G1"1/2-11f	40	48	30.8	30.8	55				
1OX99080	G2"-11f	50	48	43.5	43.5	70				

EN-Seule la partie BSP est prise en compte

Straight Adapter Swivel Female BSP X Butt Welding + Socket Welding not galvanized

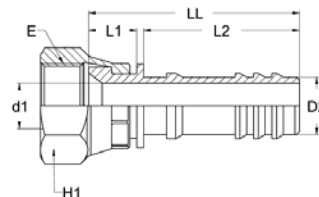
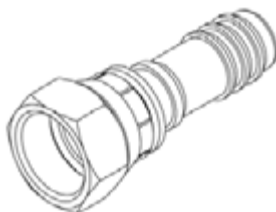


S FSBSP X BW + SW WZ

PT291	BSP (E)	BW (F)	SW (G)	L1	LL	d1	H1			
1OX28004	G1/4-19f	13.3	8	11.3	19.5	4.7	19			
1OX28006	G3/8-19f	17.2	14.1	12.5	20.5	7.9	22			
1OX28008	G1/2-14f	21.3	17.6	15	23	11.1	27			
1OX28012	G3/4-14f	26.9	21.7	17.8	27.8	16.7	32			
1OX28016	G1"-11f	33.7	27.1	19.5	31.5	22.2	41			
1OX28020	G1"1/4-11f	42.4	33.8	21.4	35.4	28.6	50			
1OX28024	G1"1/2-11f	48.3	42.6	22	38	33.3	55			
1OX28032	G2"-11f	60.3	48.7	22.9	39	46	70			

EN-Seule la partie BSP est prise en compte

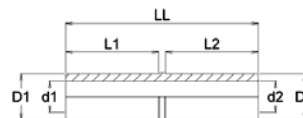
Straight Adapter Swivel Female JIC X Male tails serrated



S FSJIC X HOSN

PT451	JIC (E)	HOSN	L1	L2	LL	d1	d2	H1		
1QZ95110	9/16-18f	10	9.5	32	43.5	7.5	7.5	19		

Straight Adapter Standpipe spigot 24° X Standpipe spigot 24°



S EL24D X EL24D

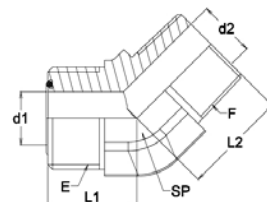
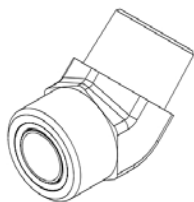
PT341	24D	24D	TUBE (D1)	TUBE (D2)	L1	L2	LL	d1	d2	
8UEL12EL12	12L	12L	12	12	26	26	52	9	9	
8UEL12EL17	12L	17G	12	16.75	26	29	57	9	11	
8UEL13EL13	13G	13G	13.25	13.25	27	27	56	9	9	
8UEL13EL17	13G	17G	13.25	16.75	27	29	59	9	11	

Fittings delivered without union nut or cutting ring.

45° elbows



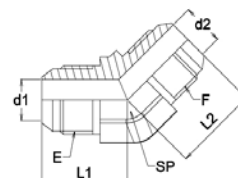
45° elbow Male ORFS X Male NPT



E45 MORFS X MNPT

PT590	ORFS (E)	NPT (F)	L1	L2	d1	d2	SP			
1FS37000	9/16-18f	1/8-27f	16	17	4,5	4,5	14			
1FS37001	9/16-18f	1/4-18f	16	21,8	4,5	6	14			
1FS37002	9/16-18f	3/8-18f	17,3	24,1	4,5	9	19			
1FS37004	11/16-16f	1/4-18f	18,8	24,1	6,5	6	19			
1FS37008	11/16-16f	3/8-18f	18,8	24,1	6,5	9	19			
1FS37006	11/16-16f	1/2-14f	19,3	29,7	6,5	12	22			
1FS37014	13/16-16f	3/8-18f	20,3	24,1	9,5	9	19			
1FS37016	13/16-16f	1/2-14f	20,9	29,7	9,5	12	22			
1FS37020	1"-14f	1/2-14f	23,4	30,5	12,5	12	27			
1FS37024	1"3/16-12f	3/4-14f	25,9	30,5	15,5	16,5	30			
1FS37028	1"7/16-12f	1"-11,5f	30	37,6	20,5	21,5	36			
1FS37036	2"-12f	1"-11,5f	36,8	43,5	32	21,5	48			

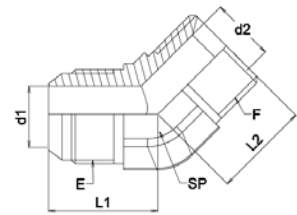
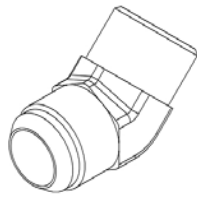
45° elbow Male JIC X Male JIC



E45 MJIC X MJIC

PT503	JIC (E)	JIC (F)	L1	L2	d1	d2	SP			
1SD99310	7/16-20f	7/16-20f	18.3	18.3	4,4	4,4	11			
1SD99320	1/2-20f	1/2-20f	19.6	19.6	6	6	13			
1SD99330	9/16-18f	9/16-18f	21.1	21.1	7,5	7,5	14			
1SD99340	3/4-16f	3/4-16f	24.9	24.9	9.9	9.9	19			
1SD99350	7/8-14f	7/8-14f	28.2	28.2	12.3	12.3	22			
1SD99360	1"1/16-12f	1"1/16-12f	32.5	32.5	15,5	15,5	27			
1SD99370	1"5/16-12f	1"5/16-12f	37.3	37.3	21,5	21,5	33			

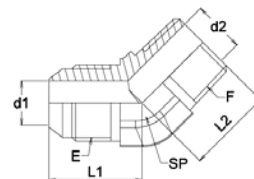
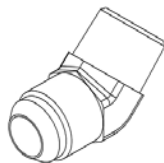
45° elbow Male JIC X Male BSP



E45 MJIC X MBSP

PT523	JIC (E)	BSP (F)	L1	L2	d1	d2	SP			
1SF99782	7/16-20f	G1/4-19f	20.8	21	4.4	4.7	14			
1SF99783	1/2-20f	G1/4-19f	20.8	21	6	4.7	14			
1SF99785	9/16-18f	G3/8-19f	22.1	24	7.5	7.9	19			
1SF99786	3/4-16f	G3/8-19f	24.9	24	9.9	7.9	19			
1SF99788	3/4-16f	G1/2-14f	25.2	27	9.9	11.1	22			
1SF99789	7/8-14f	G1/2-14f	28.2	27	12.3	11.1	22			
1SF99790	7/8-14f	G5/8-14f	28.2	30	12.3	14.3	24			
1SF99791	1"1/16-12f	G3/4-14f	32.5	32	15.5	16.7	27			
1SF99794	1"5/16-12f	G1"-11f	37.3	35	21.5	22.2	33			

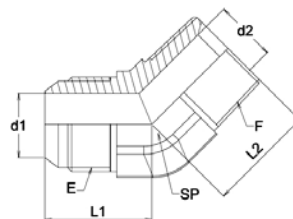
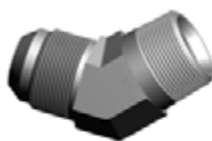
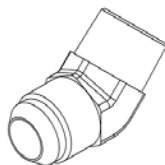
45° elbow Male JIC X Male BSPT



E45 MJIC X MR

PT572	JIC (E)	R (F)	L1	L2	d1	d2	SP			
1SD99502	5/16-24f	R1/8-28f	17,5	16	1,6	4,5	12			
1SD99500	7/16-20f	R1/8-28f	18,3	16	4,4	4,5	11			
1SD99520	7/16-20f	R1/4-19f	20,8	19	4,4	7	14			
1SD99544	7/16-20f	R3/8-19f	21,6	22	4,4	10	19			
1SD99600	7/16-20f	R1/2-14f	22,1	26	4,4	13	22			
1SD99510	1/2-20f	R1/8-28f	19,6	16	6	4,5	13			
1SD99530	1/2-20f	R1/4-19f	20,8	19	6	7	14			
1SD99546	1/2-20f	R3/8-19f	21,6	22	6	10	19			
1SD99512	9/16-18f	R1/8-28f	21,1	16	7,5	4,5	14			
1SD99540	9/16-18f	R1/4-19f	21,1	19	7,5	7	14			
1SD99570	9/16-18f	R3/8-19f	22,1	22	7,5	10	19			
1SD99606	9/16-18f	R1/2-14f	22,4	26	7,5	13	22			
1SD99534	3/4-16f	R1/4-19f	24,9	21	9,9	7	19			
1SD99580	3/4-16f	R3/8-19f	24,9	22	9,9	10	19			
1SD99610	3/4-16f	R1/2-14f	25,2	26	9,9	13	22			
1SD99590	7/8-14f	R3/8-19f	28,2	22	12,3	10	22			
1SD99614	7/8-14f	R1/2-14f	28,2	26	12,3	13	22			
1SD99620	7/8-14f	R3/4-14f	29,5	30	12,3	18	27			
1SD99630	7/8-14f	R1"-11f	33	34	12,3	24	33			
1SD99616	1"1/16-12f	R1/2-14f	32,5	29	15,5	13	27			
1SD99624	1"1/16-12f	R3/4-14f	32,5	30	15,5	18	27			
1SD99634	1"1/16-12f	R1"-11f	36	34	15,5	24	33			
1SD99626	1"5/16-12f	R3/4-14f	37,3	30	21,5	18	33			
1SD99640	1"5/16-12f	R1"-11f	37,3	34	21,5	24	33			
1SD99645	1"5/8-12f	R1"-11f	40,4	39	27,5	24	41			
1SD99650	1"5/8-12f	R1"1/4-11f	40,4	40	27,5	31	41			
1SD99660	1"7/8-12f	R1"1/2-11f	45,2	41	33	38	48			
1SD99760	2"1/2-12f	R2"-11f	56,4	50	45	49	65			

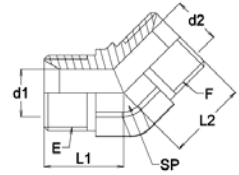
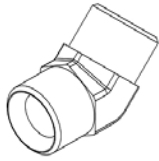
45° elbow Male JIC X Male NPT



E45 MJIC X MNPT

PT569	JIC (E)	NPT (F)	L1	L2	d1	d2	SP			
1SD99048	3/8-24f	1/8-27f	19	17	3,2	4,4	11			
1SD99066	3/8-24f	1/4-18f	22	24	3,2	8	16			
1SD99096	3/8-24f	3/8-18f	24,5	26,2	3,2	11,4	21			
1SD99122	3/8-24f	1/2-14f	30,7	28	3,2	14,3	24			
1SD99050	7/16-20f	1/8-27f	17	21,5	4,4	4,4	11			
1SD99070	7/16-20f	1/4-18f	21	22,3	4,4	6	14			
1SD99060	1/2-20f	1/8-27f	18	22,3	6	4,4	14			
1SD99080	1/2-20f	1/4-18f	21	22,3	6	6	14			
1SD99064	9/16-18f	1/8-27f	17,3	22,8	7,5	5,3	14			
1SD99090	9/16-18f	1/4-18f	21,1	21,8	7,5	6	14			
1SD99100	9/16-18f	3/8-18f	24	24	7,5	9	19			
1SD99125	9/16-18f	1/2-14f	29,5	25	7,5	12	22			
1SD99144	9/16-18f	3/4-14f	23,6	30,5	7,5	16,5	27			
1SD99095	3/4-16f	1/4-18f	22	26,8	9,9	7,2	19			
1SD99110	3/4-16f	3/8-18f	24,9	24,1	9,9	9	19			
1SD99130	3/4-16f	1/2-14f	29,5	28	9,9	12	22			
1SD99145	3/4-16f	3/4-14f	26,4	30,5	9,9	16,5	27			
1SD99120	7/8-14f	3/8-18f	30	26	12,3	8,5	22			
1SD99140	7/8-14f	1/2-14f	29,5	31	12,3	12	22			
1SD99146	7/8-14f	3/4-14f	35	32	12,3	17	27			
1SD99142	1"1/16-12f	1/2-14f	31	35,5	15,5	12	27			
1SD99150	1"1/16-12f	3/4-14f	32,5	30,5	15,5	16,5	27			
1SD99154	1"5/16-12f	3/4-16f	36,5	38,5	21,5	17	33			
1SD99160	1"5/16-12f	1"-11,5f	39	38,5	21,5	22,5	33			
1SD99164	1"5/8-12f	1"-11,5f	42,5	43	27,5	22,5	41			
1SD99170	1"5/8-12f	1"1/4-11,5f	40,4	42,4	27,5	28,5	41			
1SD99180	1"7/8-12f	1"1/2-11,5f	45,2	45	33	35	48			
1SD99210	2"1/2-12f	2"-11,5f	56,4	53,6	45	46	65			

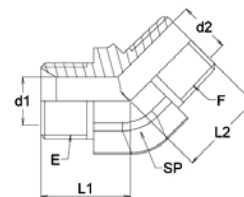
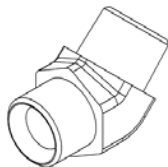
45° elbow Male BSP X Male BSP



E45 MBSP X MBSP

PT526	BSP (E)	BSP (F)	L1	L2	d1	d2	SP			
1SD99904	G1/4-19f	G1/4-19f	21	21	4,7	4,7	14			
1SD99906	G3/8-19f	G1/4-19f	24	23	7,9	4,7	19			
1SD99908	G3/8-19f	G3/8-19f	24	24	7,9	7,9	19			
1SD99910	G1/2-14f	G3/8-19f	27	25	11,1	7,9	22			
1SD99912	G1/2-14f	G1/2-14f	27	27	11,1	11,1	22			
1SD99916	G5/8-14f	G5/8-14f	30	30	14,3	14,3	24			
1SD99914	G3/4-14f	G1/2-14f	32	30	16,7	11,1	27			
1SD99917	G3/4-14f	G5/8-14f	32	32	16,7	14,3	27			
1SD99920	G3/4-14f	G3/4-14f	32	32	16,7	16,7	27			
1SD99922	G1"-11f	G3/4-14f	35	32	22,2	16,7	33			
1SD99924	G1"-11f	G1"-11f	35	35	22,2	22,2	33			

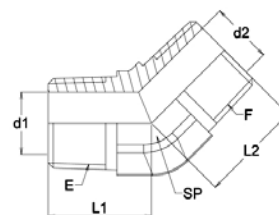
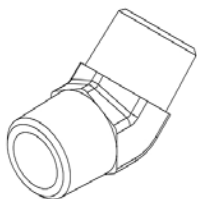
45° elbow Male BSP X Male BSPT



E45 MBSP X MR

PT548	BSP (E)	R (F)	L1	L2	d1	d2	SP			
1SD99250	G1/4-19f	R1/4-19f	21	19	4,7	7	14			
1SD99252	G1/4-19f	R3/8-19f	23	22	4,7	10	19			
1SD99254	G3/8-19f	R1/4-19f	24	21	7,9	7	19			
1SD99255	G3/8-19f	R3/8-19f	24	22	7,9	10	19			
1SD99258	G3/8-19f	R1/2-14f	25	26	7,9	13	22			
1SD99262	G1/2-14f	R3/8-19f	27	22	11,1	10	22			
1SD99260	G1/2-14f	R1/2-14f	27	26	11,1	13	22			
1SD99264	G1/2-14f	R3/4-14f	30	30	11,1	18	27			
1SD99276	G1"-11f	R3/4-14f	35	30	22,2	18	33			
1SD99274	G3/4-14f	R1"-11f	32	34	16,7	24	33			
1SD99272	G3/4-14f	R1/2-14f	32	29	16,7	13	27			
1SD99270	G3/4-14f	R3/4-14f	32	30	16,7	18	27			
1SD99275	G1"-11f	R1"-11f	35	34	22,2	24	33			
1SD99277	G1"-11f	R1"1/4-11f	36	40	22,2	31	41			
1SD99282	G1"1/4-11f	R1"-11f	37	39	28,6	24	41			
1SD99280	G1"1/4-11f	R1"1/4-11f	37	40	28,6	31	41			
1SD99283	G1"1/4-11f	R1"1/2-11f	44	41	28,6	38	48			
1SD99286	G1"1/2-11f	R1"1/4-11f	46	41	33,3	31	48			
1SD99285	G1"1/2-11f	R1"1/2-11f	46	41	33,3	38	48			
1SD99287	G1"1/2-11f	R2"-11f	54	50	33,3	49	65			
1SD99292	G2"-11f	R1"1/2-11f	57	45	46	38	65			
1SD99290	G2"-11f	R2"-11f	57	50	46	49	65			

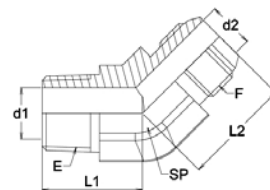
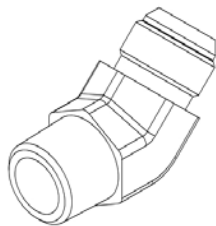
45° elbow Male BSPT X Male BSPT



E45 MR X MR

PT547	R (E)	R (F)	L1	L2	d1	d2	SP			
1SF99722	R1/4-19f	R1/4-19f	19	19	7	7	14			
1SF99725	R3/8-19f	R3/8-19f	22	22	10	10	19			
1SF99728	R1/2-14f	R1/2-14f	26	26	13	13	22			
1SF99731	R3/4-14f	R3/4-14f	30	30	18	18	27			
1SF99734	R1"-11f	R1"-11f	34	34	24	24	33			

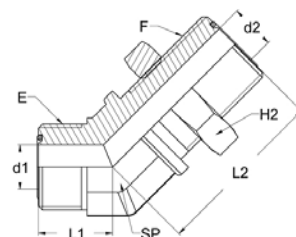
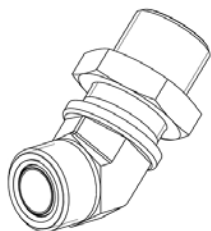
45° elbow Male BSPT X Male JIS



E45 MR X MJIS

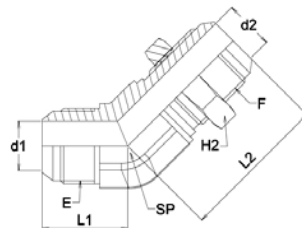
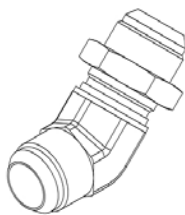
PT611	R (E)	JIS (F)	L1	L2	d1	d2	SP			
1SP99120	R1/4-19f	G1/4-19f	19	22	7	5	14			
1SP99130	R3/8-19f	G3/8-19f	22	25	10	8	19			
1SP99140	R1/2-14f	G1/2-14f	26	28	13	11	22			
1SP99150	R3/4-14f	G3/4-14f	30	32	18	16	27			
1SP99160	R1"-11f	G1"-11f	34	36	24	22	33			

45° elbow Male ORFS X Bulkhead Male ORFS + Locknut

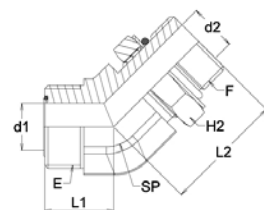
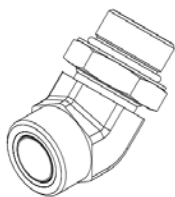


E45 MORFS X MBHORFS + LN

PT698	ORFS (E)	ORFS (F)	L1	L2	d1	d2	H2	SP		
1FS36001	9/16-18f	9/16-18f	16	44	4,5	4,5	22	14		
1FS36010	11/16-16f	11/16-16f	18,8	48,5	6,5	6,5	27	19		
1FS36020	13/16-16f	13/16-16f	20,3	51	9,5	9,5	30	19		
1FS36030	1"-14f	1"-14f	23,4	56,6	12,5	12,5	36	27		
1FS36040	1"3/16-12f	1"3/16-12f	25,9	60,7	15,5	15,5	41	30		
1FS36050	1"7/16-12f	1"7/16-12f	30	65,2	20,5	20,5	46	36		
1FS36060	1"11/16-12f	1"11/16-12f	32	67	26	26	50	41		
1FS36070	2"-12f	2"-12f	36,8	67	32	32	60	48		

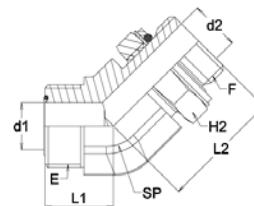
45° elbow Male JIC X Bulkhead Male JIC + Locknut

E45 MJIC X MBHJIC + LN

PT631	JIC (E)	JIC (F)	L1	L2	d1	d2	H2	SP		
1SD99410	7/16-20f	7/16-20f	18,3	38,9	4,4	4,4	17	11		
1SD99420	1/2-20f	1/2-20f	19,6	42,2	6	6	19	13		
1SD99430	9/16-18f	9/16-18f	21,1	42,4	7,5	7,5	22	14		
1SD99440	3/4-16f	3/4-16f	24,9	49,3	9,9	9,9	24	19		
1SD99450	7/8-14f	7/8-14f	28,2	55,1	12,3	12,3	30	22		
1SD99460	1"1/16-12f	1"1/16-12f	32,5	62	15,5	15,5	36	27		
1SD99470	1"5/16-12f	1"5/16-12f	37,3	65	21,5	21,5	41	33		

45° elbow Male ORFS X Adjustable Male SAE + O-Ring

E45 MORFS X ADJSAE + OR

PT591	ORFS (E)	SAE (F)	L1	L2	d1	d2	H2	SP		
1FS30001	9/16-18f	7/16-20f	18,3	26	4,5	5	17	14		
1FS30010	9/16-18f	9/16-18f	18,3	28	4,5	7,5	19	14		
1FS30012	9/16-18f	3/4-16f	20,5	31,9	4,5	9,5	24	19		
1FS30020	11/16-16f	7/16-20f	20,5	27,3	6,5	5	17	19		
1FS30030	11/16-16f	9/16-18f	20,5	29,5	6,5	7,5	19	19		
1FS30040	11/16-16f	3/4-16f	20,5	32,5	6,5	9,5	24	19		
1FS30050	13/16-16f	9/16-18f	24	33	9,5	6,5	19	19		
1FS30060	13/16-16f	3/4-16f	24	33	9,5	9,5	24	19		
1FS30070	13/16-16f	7/8-14f	24	39,5	9,5	12,5	27	22		
1FS30080	1"-14f	3/4-16f	28	34	12,5	9,5	24	27		
1FS30090	1"-14f	7/8-14f	23,4	44,7	12,5	12,5	27	27		
1FS30100	1"-14f	1"1/16-12f	28	44	12,5	15,5	32	27		
1FS30110	1"3/16-12f	7/8-14f	30,7	42	15	12,5	27	30		
1FS30120	1"3/16-12f	1"1/16-12f	30,7	45,5	15,5	15,5	32	30		
1FS30130	1"3/16-12f	1"5/16-12f	32,5	47,9	15,5	20,5	41	36		
1FS30140	1"7/16-12f	1"1/16-12f	33	47,9	20	15,1	32	36		
1FS30150	1"7/16-12f	1"5/16-12f	33	47,9	20,5	21,5	41	36		
1FS30160	1"7/16-12f	1"5/8-12f	35	48,5	20,5	26	50	41		
1FS30170	1"11/16-12f	1"5/8-12f	35,5	48,8	26	27	50	41		
1FS30175	1"11/16-12f	1"7/8-12f	38	51	26	33	55	48		
1FS30180	2"-12f	1"7/8-12f	39	52	32	32	55	50		

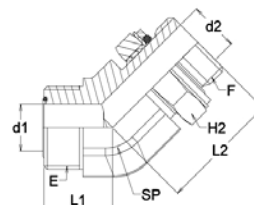
45° elbow Male ORFS X Adjustable Male BSPP + O-Ring + Retaining Ring



E45 MORFS X ADJG +OR +RR

PT592	ORFS (E)	G (F)	L1	L2	d1	d2	H2	SP		
1FS32001	9/16-18f	G1/8-28f	18.3	24,8	4,3	4,4	14	14		
1FS32010	9/16-18f	G1/4-19f	18.3	27	4,3	5,9	19	14		
1FS32020	11/16-16f	G1/4-19f	20.5	28	6,7	5,9	19	19		
1FS32030	11/16-16f	G3/8-19f	20.5	31	6,5	9,9	22	19		
1FS32040	11/16-16f	G1/2-14f	18,8	38,5	6,5	12	27	22		
1FS32050	13/16-16f	G3/8-19f	24	32	9,8	9,8	22	22		
1FS32060	1"-14f	G1/2-14f	23,4	38,5	12,5	12,3	27	27		
1FS32070	1"-14f	G3/4-14f	28	42	12	15,5	32	27		
1FS32080	1"3/16-12f	G3/4-14f	30,7	42,5	15,5	15,5	32	30		
1FS32090	1"3/16-12f	G1"-11f	31,5	44	15,5	21,5	41	33		
1FS32100	1"7/16-12f	G1"-11f	33	44,5	20,5	20	41	36		
1FS32110	1"11/16-12f	G1"1/4-11f	35,5	47,5	26	27,5	50	41		
1FS32120	2"-12f	G1"1/2-11f	37	53,5	32	33	60	47,5		

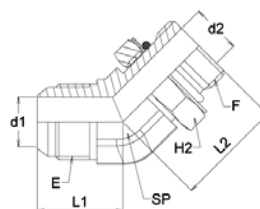
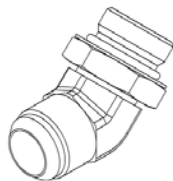
45° elbow Male ORFS X Adjustable Male ISO + O-Ring + Retaining Ring



E45 MORFS X ADJISO +OR +RR

PT593	ORFS (E)	ISO (F)	L1	L2	d1	d2	H2	SP		
1FS34001	9/16-18f	M12x1.5	18.3	28.5	5	5	16	14		
1FS34005	11/16-16f	M14x1.5	20.5	29.5	6.5	6.5	19	19		
1FS34010	11/16-16f	M16x1.5	20.5	29	6.5	7,5	22	19		
1FS34020	13/16-16f	M18x1.5	20.5	36.5	9,5	9	24	20		
1FS34040	1"3/16-12f	M27x2	25,9	50,2	15,5	15	32	30		
1FS34030	1"-14f	M22x1.5	28	38,5	11,9	12	27	27		
1FS34050	1"7/16-12f	M33x2	30	52,5	20,5	20	41	36		
1FS34060	1"11/16-12f	M42x2	32	54	26	26	50	41		
1FS34070	2"-12f	M48x2	36,8	56,5	32	32	55	48		

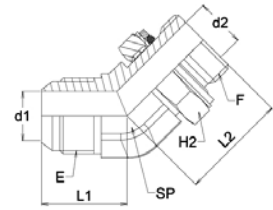
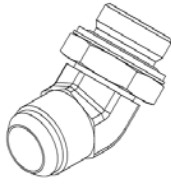
45° elbow Male JIC X Adjustable Male SAE + O-Ring



E45 MJIC X ADJSAE +OR

PT514	JIC (E)	SAE (F)	L1	L2	d1	d2	H2	SP		
1SF99050	7/16-20f	7/16-20f	18,3	26,7	4,4	4,4	14	12		
1SF99055	1/2-20f	1/2-20f	19,6	26,7	6	6	17	13		
1SF99060	9/16-18f	9/16-18f	21,1	29	7,5	7,5	17	14		
1SF99062	9/16-18f	3/4-16f	22,1	33	7,5	9,9	22	19		
1SF99064	9/16-18f	7/8-14f	22,4	38,6	7,5	12,3	27	22		
1SF99063	3/4-16f	9/16-18f	24,9	29,7	9,9	7,5	17	19		
1SF99065	3/4-16f	3/4-16f	24,9	33	9,9	9,9	22	19		
1SF99066	3/4-16f	7/8-14f	25,2	38,6	9,9	12,3	27	22		
1SF99068	7/8-14f	3/4-16f	28,2	34,5	12,3	9,9	22	22		
1SF99075	7/8-14f	7/8-14f	28,2	38,6	12,3	12,3	27	22		
1SF99082	7/8-14f	1"1/16-12f	29,5	43,9	12,3	15,5	32	27		
1SF99083	1"1/16-12f	7/8-14f	32,5	39,8	15,5	12,3	27	27		
1SF99085	1"1/16-12f	1"1/16-12f	32,5	43,9	15,5	15,5	32	27		
1SF99086	1"1/16-12f	1"5/16-12f	36	47,2	15,5	21,5	41	33		
1SF99088	1"5/16-12f	1"1/16-12f	37,3	47,2	21,5	15,5	32	33		
1SF99090	1"5/16-12f	1"5/16-12f	37,3	47,2	21,5	21,5	41	33		
1SF99092	1"5/16-12f	1"5/8-12f	39,1	48,5	21,5	27,5	50	41		
1SF99093	1"5/8-12f	1"5/16-12f	40,4	48,5	27,5	21,5	41	41		
1SF99095	1"5/8-12f	1"5/8-12f	40,4	48,5	27,5	27,5	50	41		
1SF99100	1"7/8-12f	1"7/8-12f	45,2	48,5	33	33	55	48		
1SF99110	2"1/2-12f	2"1/2-12f	56,4	47,2	45	45	70	65		

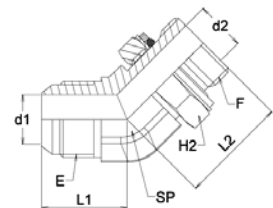
45° elbow Male JIC X Adjustable Male BSPP + O-Ring + Retaining Ring



E45 MJIC X ADJG +OR +RR

PT520	JIC (E)	G (F)	L1	L2	d1	d2	H2	SP		
1SF99118	7/16-20f	G1/8-28f	18,3	26,5	4,4	4,4	14	12		
1SF99120	7/16-20f	G1/4-19f	20,8	29	4,4	7,5	19	14		
1SF99125	1/2-20f	G1/4-19f	20,8	29	6	7,5	19	14		
1SF99127	9/16-18f	G1/4-19f	21,1	29	7,5	7,5	19	14		
1SF99130	9/16-18f	G3/8-19f	22,1	33	7,5	9,9	22	19		
1SF99132	3/4-16f	G1/4-19f	24,9	33	9,9	7,5	19	19		
1SF99135	3/4-16f	G3/8-19f	24,9	33	9,9	9,9	22	19		
1SF99140	3/4-16f	G1/2-14f	25,2	38,5	9,9	12,3	27	22		
1SF99145	7/8-14f	G1/2-14f	28,2	38,5	12,3	12,3	27	22		
1SF99144	7/8-14f	G5/8-14f	28,2	38,4	12,3	14	30	24		
1SF99146	1"1/16-12f	G1/2-14f	32,5	41	15,5	12,3	27	27		
1SF99151	1"1/16-12f	G5/8-14f	32,5	44	15,5	14	30	27		
1SF99147	1"1/16-12f	G3/4-14f	32,5	44	15,5	15,5	36	27		
1SF99150	1"5/16-12f	G3/4-14f	37,3	44	21,5	15,5	36	33		
1SF99148	1"1/16-12f	G1"-11f	36	47	15,5	21,5	41	33		
1SF99149	1"5/16-12f	G1"-11f	37,3	47	21,5	21,5	41	33		
1SF99153	1"5/8-12f	G1"1/4-11f	40,4	48	27,5	27,5	50	41		
1SF99155	1"7/8-12f	G1"1/4-11f	45,2	48	33	27,5	50	48		
1SF99157	1"7/8-12f	G1"1/2-11f	45,2	48	33	33	55	48		

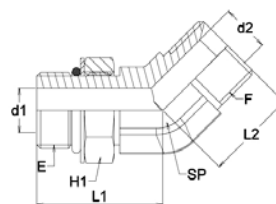
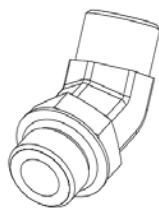
45° elbow Male JIC X Adjustable Male ISO + O-Ring + Retaining Ring



E45 MJIC X ADJISO +OR +RR

PT537	JIC (E)	ISO (F)	L1	L2	d1	d2	H2	SP		
1SF99164	7/16-20f	M10x1	18,3	26,6	4,4	4,5	14	11		
1SF99166	1/2-20f	M12x1.5	19,6	29,1	6	6	17	13		
1SF99168	9/16-18f	M14x1.5	21,1	29,1	7,5	7,5	19	14		
1SF99170	9/16-18f	M16x1.5	22,1	33,1	7,5	9	22	19		
1SF99174	3/4-16f	M18x1.5	25,2	35,3	9,9	11	24	19		
1SF99176	7/8-14f	M18x1.5	28,2	35,3	12,3	11	24	22		
1SF99178	7/8-14f	M22x1.5	28,2	36,3	12,3	14	27	22		
1SF99182	1"1/16-12f	M27X2	32,5	44,8	15,5	18	32	27		
1SF99186	1"5/16-12f	M33x2	37,3	44,3	21,5	23	41	33		

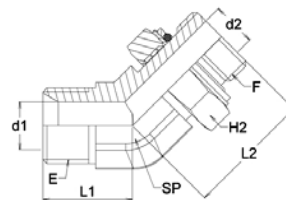
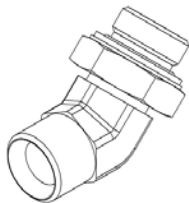
45° elbow Adjustable Male SAE + O-Ring X Male BSP



E45 ADJSAE +OR X MBSP

PT538	SAE (E)	BSP (F)	L1	L2	d1	d2	H1	SP		
1SI99010	7/16-20f	G1/8-28f	26,7	18	4,4	3,5	14	12		
1SI99018	7/16-20f	G1/4-19f	27,5	21	4,4	4,7	14	14		
1SI99014	1/2-20f	G1/8-28f	26,7	18	6	3,5	17	13		
1SI99022	1/2-20f	G1/4-19f	26	22	6	6	17	14		
1SI99026	9/16-18f	G1/4-19f	29	21	7,5	4,7	17	14		
1SI99038	9/16-18f	G3/8-19f	28	22	7,5	9	19	16		
1SI99030	3/4-16f	G1/4-19f	33	23	9,9	4,7	22	19		
1SI99042	3/4-16f	G3/8-19f	33	24	9,9	7,9	22	19		
1SI99050	3/4-16f	G1/2-14f	34,5	27	9,9	11,1	22	22		
1SI99062	3/4-16f	G3/4-14f	35,8	32	9,9	16,7	22	27		
1SI99046	7/8-14f	G3/8-19f	38,6	25	12,3	7,9	27	22		
1SI99054	7/8-14f	G1/2-14f	38,6	27	12,3	11,1	27	22		
1SI99066	7/8-14f	G3/4-14f	39,8	32	12,3	16,7	27	27		
1SI99058	1"1/16-12f	G1/2-14f	43,9	30	15,5	11,1	32	27		
1SI99070	1"1/16-12f	G3/4-14f	45,5	32,5	15,5	16,5	32	28		
1SI99078	1"1/16-12f	G1"-11f	47,2	35	15,5	22,2	32	33		
1SI99074	1"5/16-12f	G3/4-14f	47,2	32	21,5	16,7	41	33		
1SI99082	1"5/16-12f	G1"-11f	47,2	35	21,5	22,2	41	33		
1SI99090	1"5/16-12f	G1"1/4-11f	48,5	37	21,5	28,6	41	41		
1SI99086	1"5/8-12f	G1"-11f	48,5	36	27,5	22,2	50	41		
1SI99094	1"5/8-12f	G1"1/4-11f	48,5	37	27,5	28,6	50	41		

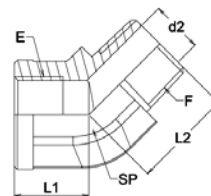
45° elbow Male BSP X Adjustable Male BSPP + O-Ring + Retaining Ring



E45 MBSP X ADJG +OR +RR

PT525	BSP (E)	G (F)	L1	L2	d1	d2	H2	SP		
1SH99020	G1/4-19f	G1/4-19f	21	32	4,7	7,5	19	14		
1SH99022	G1/4-19f	G3/8-19f	23	34	4,7	9,9	22	19		
1SH99024	G1/4-19f	G1/2-14f	24	41	4,7	12,3	27	22		
1SH99030	G3/8-19f	G3/8-19f	24	34	7,9	9,9	22	19		
1SH99032	G3/8-19f	G1/2-14f	25	41	7,9	12,3	27	22		
1SH99040	G1/2-14f	G1/2-14f	27	41	11,1	12,3	27	22		
1SH99050	G3/4-14f	G3/4-14f	32	44	16,7	15,5	36	27		
1SH99052	G3/4-14f	G1"-11f	32	48	16,7	21,5	41	33		
1SH99060	G1"-11f	G1"-11f	35	48	22,2	21,5	41	33		
1SH99070	G1"1/4-11f	G1"1/4-11f	37	49	28,6	27,5	50	41		
1SH99080	G1"1/2-11f	G1"1/2-11f	46	56	33,3	33	55	48		

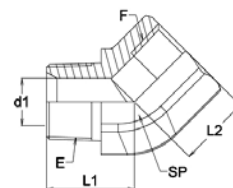
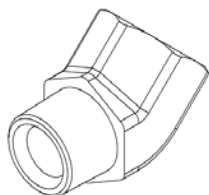
45° elbow Female BSPP X Male BSPT



E45 FG X MR

PT549	R (E)	G (F)	L1	L2	d2	SP				
1WB20160	G1/8-28f	R1/8-28f	13	18,5	4,5	14				
1WB20165	G1/4-19f	R1/4-19f	18	26	7	19				
1WB20170	G3/8-19f	R3/8-19f	19	27	10	22				
1WB20175	G1/2-14f	R1/2-14f	24	34	13	27				
1WB20180	G3/4-14f	R3/4-14f	26	35	18	33				
1WB20185	G1"-11f	R1"-11f	31	44	24	41				

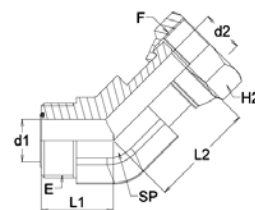
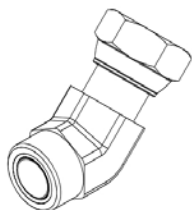
45° elbow Male NPT X Female NPT



E45 MNPT X FNPT

PT622	NPT (E)	NPT (F)	L1	L2	d1	SP				
1WB20250	1/8-27f	1/8-27f	19,8	11,9	4,5	14				
1WB20255	1/4-18f	1/4-18f	26,7	15,7	6	19				
1WB20260	3/8-18f	3/8-18f	26,9	18,3	9	22				
1WB20265	1/2-14f	1/2-14f	34	23,1	12	27				
1WB20270	3/4-14f	3/4-14f	35,1	24,6	16,5	33				
1WB20275	1"-11,5f	1"-11,5f	43,7	28,4	21,5	41				
1WB20280	1"1/4-11,5f	1"1/4-11,5f	45,7	41,4	28,5	48				
1WB20285	1"1/2-11,5f	1"1/2-11,5f	52,3	42,9	35	65				

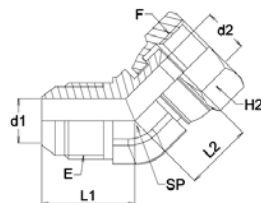
45° elbow Male ORFS X Swivel Female ORFS



E45 MORFS X FSORFS

PT594	ORFS (E)	ORFS (F)	L1	L2	d1	d2	H2	SP		
1FS28001	9/16-18f	9/16-18f	16	22	4,5	4	19	14		
1FS28010	11/16-16f	11/16-16f	18,8	25,5	6,5	6,5	22	19		
1FS28020	13/16-16f	13/16-16f	24	30	9,5	9	27	19		
1FS28030	1"-14f	1"-14f	23,4	35,5	12,5	11,5	30	27		
1FS28040	1"3/16-12f	1"3/16-12f	25,9	40,5	15,5	14	36	30		
1FS28050	1"7/16-12f	1"7/16-12f	33	45,5	20,5	20	41	36		
1FS28060	1"11/16-12f	1"11/16-12f	32	45,5	26	26	50	41		
1FS28070	2"-12f	2"-12f	36,8	47,5	32	32	60	48		

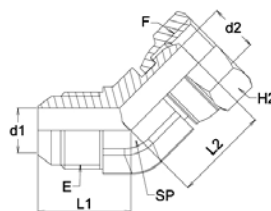
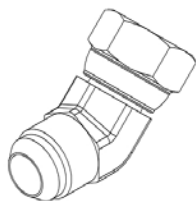
45° elbow Male JIC X Swivel Female JIC



E45 MJIC X FSJIC

PT534	JIC (E)	JIC (F)	L1	L2	d1	d2	H2	SP		
1SG99010	7/16-20f	7/16-20f	18,3	15,2	4,4	4,4	14	11		
1SG99020	1/2-20f	1/2-20f	19,6	15,9	6	6	17	13		
1SG99030	9/16-18f	9/16-18f	21,1	18,9	7,5	7,5	19	14		
1SG99040	3/4-16f	3/4-16f	24,9	21,8	9,9	9,9	22	19		
1SG99050	7/8-14f	7/8-14f	28,2	23,9	12,3	12,3	27	22		
1SG99060	1"1/16-12f	1"1/16-12f	32,5	23,8	15,5	15,5	32	27		
1SG99080	1"5/16-12f	1"5/16-12f	37,3	29,3	21,5	21,5	41	33		
1SG99090	1"5/8-12f	1"5/8-12f	40,4	35,7	27,5	27,5	50	41		
1SG99100	1"7/8-12f	1"7/8-12f	45,2	38,6	33	33	55	48		
1SG99110	2"1/2-12f	2"1/2-12f	56,4	50,1	45	45	75	65		

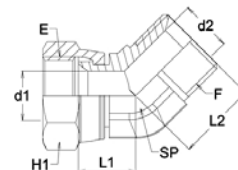
45° elbow Male JIC X Swivel Female BSP



E45 MJIC X FSBSP

PT562	JIC (E)	BSP (F)	L1	L2	d1	d2	H2	SP		
1SF99842	7/16-20f	G1/4-19f	20,8	21	4,4	4,7	19	14		
1SF99845	9/16-18f	G3/8-19f	22,1	25	7,5	7,9	22	19		
1SF99848	3/4-16f	G1/2-14f	25,2	29	9,9	11,1	27	22		
1SF99851	7/8-14f	G5/8-14f	28,2	30	12,3	14,3	30	24		
1SF99854	1"1/16-12f	G3/4-14f	32,5	30	15,5	16,7	32	27		

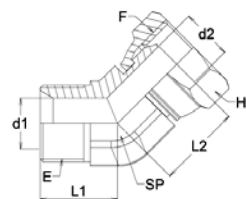
45° elbow Swivel Female JIC X Male BSP



E45 FSJIC X MBSP

PT536	JIC (E)	BSP (F)	L1	L2	d1	d2	H1	SP		
1SF99802	7/16-20f	G1/4-19f	15,2	21	4,4	4,7	14	14		
1SF99805	9/16-18f	G3/8-19f	19	24	7,5	7,9	16	19		
1SF99808	3/4-16f	G1/2-14f	21,8	27	9,9	11,1	22	22		
1SF99811	7/8-14f	G5/8-14f	23,9	28,9	12,3	14,3	27	22		
1SF99814	1"1/16-12f	G3/4-14f	23,8	32	15,5	16,7	32	27		
1SF99817	1"5/16-12f	G1"-11f	29,3	35	21,5	22,2	41	33		

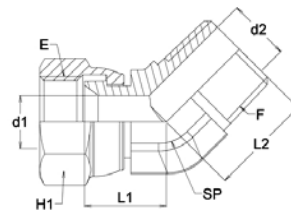
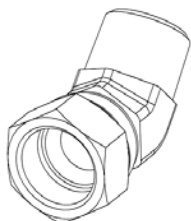
45° elbow Male BSP X Swivel Female BSP



E45 MBSP X FSBSP

PT560	BSP (E)	BSP (F)	L1	L2	d1	d2	H2	SP		
1SF99610	G1/4-19f	G1/4-19f	21	21	4,7	4,7	19	14		
1SF99620	G3/8-19f	G3/8-19f	24	25	7,9	7,9	22	19		
1SF99630	G1/2-14f	G1/2-14f	27	29	11,1	11,1	27	22		
1SF99650	G3/4-14f	G3/4-14f	32	30	16,7	16,7	32	27		
1SF99660	G1"-11f	G1"-11f	35	32	22,2	22,2	41	33		
1SF99670	G1"1/4-11f	G1"1/4-11f	37	34	28,6	28,6	50	41		
1SF99680	G1"1/2-11f	G1"1/2-11f	46	47	33,3	33,3	55	48		
1SF99690	G2"-11f	G2"-11f	57	55	46	46	70	65		

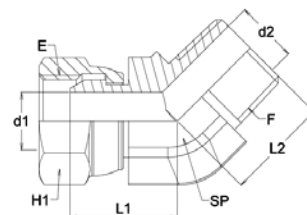
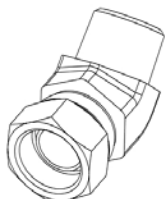
45° elbow Swivel Female JIC X Male BSPT



E45 FSJIC X MR

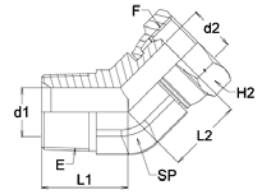
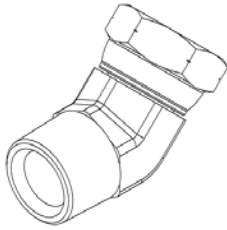
PT553	JIC (E)	R (F)	L1	L2	d1	d2	H1	SP		
1SF99822	7/16-20f	R1/4-19f	17.9	19	4,4	7	14	14		
1SF99825	9/16-18f	R3/8-19f	20.8	22	7.5	10	19	19		
1SF99828	3/4-16f	R1/2-14f	22.9	26	9,9	13	22	22		
1SF99831	7/8-14f	R1/2-14f	23.9	26	12,3	13	27	22		
1SF99834	1"1/16-12f	R3/4-14f	23.8	30	15,5	18	32	27		

45° elbow Swivel Female BSP X Male BSPT

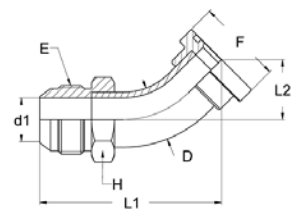
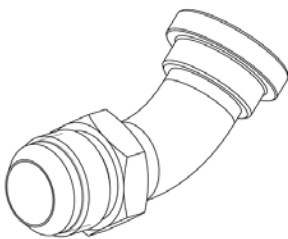


E45 FSBSP X MR

PT561	BSP (E)	R (F)	L1	L2	d1	d2	H1	SP		
1SF99740	G1/8-28f	R1/8-28f	16	16	3,5	4,5	14	12		
1SF99742	G1/4-19f	R1/4-19f	21	19	4.5	7	19	14		
1SF99745	G3/8-19f	R3/8-19f	25	22	7.1	10	22	19		
1SF99748	G1/2-14f	R1/2-14f	29	26	9.7	13	27	22		
1SF99751	G3/4-14f	R3/4-14f	30	30	15.5	18	32	27		
1SF99754	G1"-11f	R1"-11f	32	34	20.4	24	41	33		

45° elbow Male NPT X Swivel Female NPSM

E45 MNPT X FSNPSM

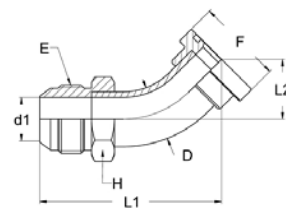
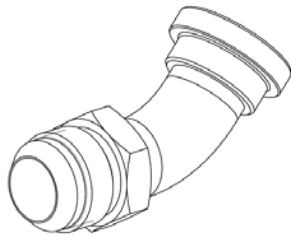
PT577	NPT (E)	NPSM (F)	L1	L2	d1	d2	H2	SP		
1DI96810	1/8-27f	1/8-27f	16.3	15.7	4.5	4	14	11		
1DI96820	1/4-18f	1/4-18f	21.8	18.5	6	5.6	17	14		
1DI96822	1/4-18f	3/8-18f	24.1	20.6	6	8.7	22	19		
1DI96824	3/8-18f	1/4-18f	24.1	20.1	9	5.6	17	19		
1DI96830	3/8-18f	3/8-18f	24.1	20.6	9	8.7	22	19		
1DI96842	3/8-18f	1/2-14f	24.9	22.4	9	11.9	27	22		
1DI96840	1/2-14f	3/8-18f	29.7	22	12	8.7	22	22		
1DI96850	1/2-14f	1/2-14f	29.7	22.4	12	11.9	27	22		
1DI96862	1/2-14f	3/4-14f	30.5	25.8	12	16.3	32	27		
1DI96860	3/4-14f	1/2-14f	30.5	23.3	16.5	11.9	27	27		
1DI96870	3/4-14f	3/4-14f	30.5	25.8	16.5	16.3	32	27		
1DI96890	3/4-14f	1"-11,5f	32.8	29.2	16.5	21.4	38	33		
1DI96880	1"-11,5f	3/4-14f	37.6	29.2	21.5	16.3	32	33		
1DI96900	1"-11,5f	1"-11,5f	37.6	29.2	21.5	21.4	38	33		
1DI96902	1"-11,5f	1"1/4-11,5f	42.6	33.5	21.5	29	50	41		
1DI96901	1"1/4-11,5f	1"-11,5f	42.4	30.2	28.5	21.4	38	41		
1DI96903	1"1/4-11,5f	1"1/4-11,5f	42.4	33.5	28.5	29	50	41		
1DI96906	1"1/2-11,5f	1"1/2-11,5f	45	35.8	35	34.5	55	48		
1DI96910	2"-11,5f	2"-11,5f	53.6	38.8	46	46.1	70	65		

45° elbow Male JIC X SAE flange series 3000

E45 MJIC X FS3

PT670	JIC (E)	SAE (F)	L1	L2	d1	D	H			
1FC99050	7/8-14f	1/2	75	40	10	14	22			
1FC99060	1"1/16-12f	3/4	70	25	15	20	27			
1FC99065	1"1/16-12f	1"	70	35	15	20	27			
1FC99075	1"1/16-12f	1"1/4	70	40	26	32	42			
1FC99070	1"5/16-12f	1"	90	45	15	20	36			
1FC99080	1"5/8-12f	1"1/4	100	40	26	32	42			
1FC99090	1"7/8-12f	1"1/2	94	30	32	38	50			
1FC99100	2"1/2-12f	2"	160	40	45	52	65			

EN-Seule la partie JIC est prise en compte

45° elbow Male JIC X SAE flange series 6000

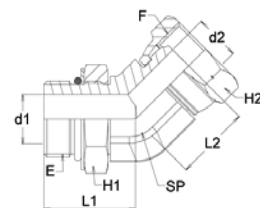
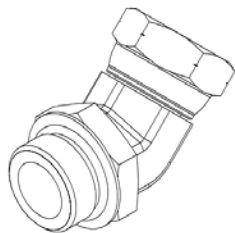


E45 MJIC X FS6

PT670B	JIC (E)	SAE (E)	L1	L2	d1	D	H			
1FC99500	7/8-14f	1/2	75	35	10	14	22			
1FC99520	1"1/16-12f	3/4	100	35	15	22	32			
1FC99530	1"5/16-12f	3/4	40	73	16	20	36			
1FC99540	1"5/16-12f	1"	103	35	21	26	36			
1FC99550	1"5/8-12f	1"	105	45	20	26	42			
1FC99560	1"5/8-12f	1"1/4	110	55	26	32	42			
1FC99580	1"7/8-12f	1"1/2	150	55	30	38	50			
1FC99590	2"1/2-12f	2"	160	40	45	52	65			

EN-Seule la partie JIC est prise en compte

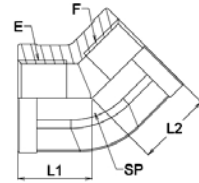
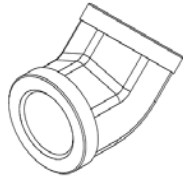
45° elbow Adjustable Male SAE + O-Ring X Swivel Female NPSM



E45 ADJSAE +OR X FSNPSM

PT582	SAE (E)	NPSM (F)	L1	L2	d1	d2	H1	H2	SP	
1SF99200	7/16-20f	1/4-18f	27.5	18.5	4.4	5.6	14	17	14	
1SF99220	9/16-18f	1/4-18f	29	18.5	7.5	5.6	17	17	14	
1SF99230	9/16-18f	3/8-18f	29.7	20.6	7.5	8.7	17	22	19	
1SF99250	3/4-16f	3/8-18f	33	20.6	9.9	8.7	22	22	19	
1SF99270	3/4-16f	1/2-14f	34.5	22.4	9.9	11.9	22	27	22	
1SF99290	3/4-16f	3/4-14f	35.8	25.8	9.9	16.3	22	32	27	
1SF99300	7/8-14f	1/2-14f	38.6	22.4	12.3	11.9	27	27	22	
1SF99320	1"1/16-12f	3/4-14f	43.9	25.8	15.5	16.3	32	32	27	
1SF99322	1"1/16-12f	1"-11,5f	47.2	29.2	21,5	21.4	41	38	33	

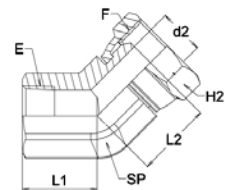
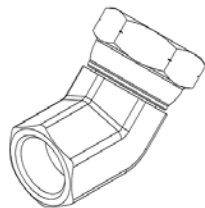
45° elbow Female BSPP X Female BSPP



E45 FG X FG

PT528	G (E)	G (F)	L1	L2	SP					
1WA20050	G1/8-28f	G1/8-28f	13	13	14					
1WA20060	G1/4-19f	G1/4-19f	18	18	19					
1WA20070	G3/8-19f	G3/8-19f	19	19	22					
1WA20080	G1/2-14f	G1/2-14f	24	24	27					
1WA20090	G3/4-14f	G3/4-14f	26	26	33					
1WA20100	G1"-11f	G1"-11f	31	31	41					

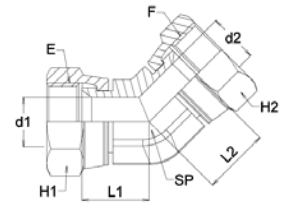
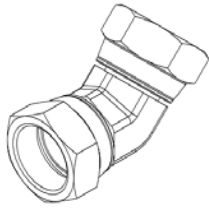
45° elbow Female NPT X Swivel Female NPSM



E45 FNPT X FSNPSM

PT575	NPT (E)	NPSM (F)	L1	L2	d2	H2	SP			
1DJ96190	1/8-27f	1/8-27f	12.7	15.7	4	14	14			
1DJ96200	1/4-18f	1/4-18f	17.5	20	5.6	17	19			
1DJ96210	3/8-18f	3/8-18f	19	22.4	8.7	22	22			
1DJ96220	1/2-14f	1/2-14f	23.9	25.8	11.9	27	27			
1DJ96230	3/4-14f	3/4-14f	25.4	26.9	16.3	32	33			
1DJ96240	1"-11,5f	1"-11,5f	30.2	32	21.4	38	41			
1DJ96250	1"1/4-11,5f	1"1/4-11,5f	36.6	36.8	29	50	48			
1DJ96260	1"1/2-11,5f	1"1/2-11,5f	37.1	42.8	34.5	55	65			

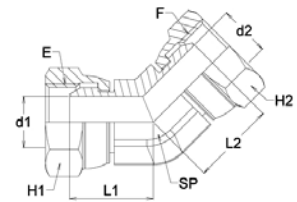
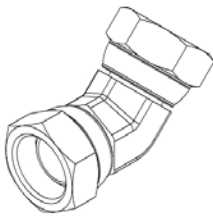
45° elbow Swivel Female JIC X Swivel Female JIC



E45 FSJIC X FSJIC

PT542	JIC (E)	JIC (F)	L1	L2	d1	d2	H1	H2	SP	
1SF99410	7/16-20f	7/16-20f	9	9	4	4	15	15	11	
1SF99420	1/2-20f	1/2-20f	9,5	9,5	4,5	4,5	17	17	11	
1SF99430	9/16-18f	9/16-18f	10,5	10,5	7	7	19	19	14	
1SF99440	3/4-16f	3/4-16f	21,8	21,8	9,9	9,9	22	22	19	
1SF99450	7/8-14f	7/8-14f	23,9	23,9	12,3	12,3	27	27	22	
1SF99460	1"1/16-12f	1"1/16-12f	23,8	23,8	15,5	15,5	32	32	27	
1SF99470	1"5/16-12f	1"5/16-12f	29,3	29,3	21,5	21,5	41	41	33	

45° elbow Swivel Female BSP X Swivel Female BSP



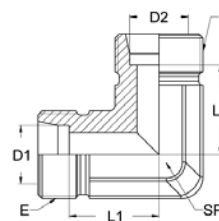
E45 FSBSP X FSBSP

PT563	BSP (E)	BSP (F)	L1	L2	d1	d2	H1	H2	SP	
1SF99762	G1/4-19f	G1/4-19f	21	21	4,7	4,7	19	19	14	
1SF99765	G3/8-19f	G3/8-19f	25	25	7,9	7,9	22	22	19	
1SF99768	G1/2-14f	G1/2-14f	29	29	11,1	11,1	27	27	22	
1SF99769	G5/8-14f	G5/8-14f	30	30	14,3	14,3	30	30	24	
1SF99771	G3/4-14f	G3/4-14f	30	30	16,7	16,7	32	32	27	
1SF99774	G1"-11f	G1"-11f	36,5	36,5	22,2	22,2	41	41	33	
1SF99776	G1"1/4-11f	G1"1/4-11f	34	34	28,6	28,6	50	50	41	

elbows



90° elbow Male 24° X Male 24°

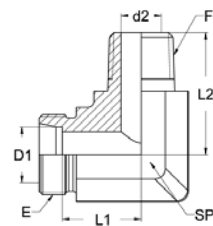
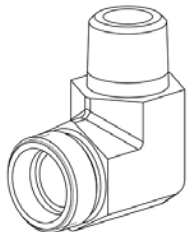


E90 M24D X M24D

PT637	24D (E)	24D (F)	TUBE (D1)	TUBE (D2)	L1, L2	SP				
8C96L	M12X1.5	M12X1.5	6L	6L	12	12				
8C98L	M14X1.5	M14X1.5	8L	8L	14	12				
8C910L	M16X1.5	M16X1.5	10L	10L	15	14				
8C912L	M18X1.5	M18X1.5	12L	12L	17	17				
8C915L	M22X1.5	M22X1.5	15L	15L	21	19				
8C918L	M26X1.5	M26X1.5	18L	18L	23.5	24				
8C922L	M30X2	M30X2	22L	22L	27.5	27				
8C928L	M36X2	M36X2	28L	28L	30.5	36				
8C935L	M45X2	M45X2	35L	35L	34.5	41				
8C942L	M52X2	M52X2	42L	42L	40	50				
8C96S	M14X1.5	M14X1.5	6S	6S	16	12				
8C98S	M16X1.5	M16X1.5	8S	8S	17	14				
8C910S	M18X1.5	M18X1.5	10S	10S	17.5	17				
8C912S	M20X1.5	M20X1.5	12S	12S	21.5	17				
8C914S	M22X1.5	M22X1.5	14S	14S	22	19				
8C916S	M24X1.5	M24X1.5	16S	16S	24.5	24				
8C920S	M30X2	M30X2	20S	20S	26.5	27				
8C925S	M36X2	M36X2	25S	25S	30	36				
8C930S	M42X2	M42X2	30S	30S	35.5	41				
8C938S	M52X2	M52X2	38S	38S	41	50				
8C921G	M30X1.5	M30X1.5	21G	21G	26.5	27				

Fittings delivered without union nut or cutting ring.

90° elbow Male 24° X Male BSPT

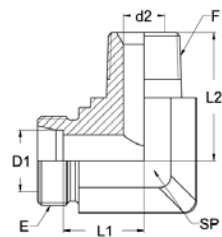
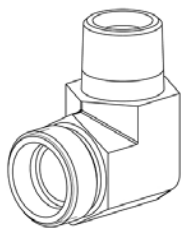


E90 M24D X MR

PT643	24D (E)	R (F)	TUBE (D1)	L1	L2	d2	SP			
8C96LMG2	M12X1.5	R1/8-28f	6L	13	21	4,5	12			
8C96LMG4	M12X1.5	R1/4-19f	6L	15.5	25.5	7	14			
8C98LMG2	M14X1.5	R1/8-28f	8L	15.5	23.5	4,5	12			
8C98LMG4	M14X1.5	R1/4-19f	8L	15.5	25.5	7	14			
8C98LMG6	M14X1.5	R3/8-19f	8L	16.5	28.5	10	16			
8C910LMG4	M16X1.5	R1/4-19f	10L	17.5	26.5	7	14			
8C910LMG6	M16X1.5	R3/8-19f	10L	17.5	28.5	10	16			
8C912LMG4	M18X1.5	R1/4-19f	12L	21	28	7	17			
8C912LMG6	M18X1.5	R3/8-19f	12L	19	30.5	10	19			
8C912LMG8	M18X1.5	R1/2-14f	12L	21	36	13	22			
8C915LMG6	M22X1.5	R3/8-19f	15L	22	32.5	10	19			
8C915LMG8	M22X1.5	R1/2-14f	15L	22	36	13	22			
8C918LMG8	M26X1.5	R1/2-14f	18L	25.5	39.5	13	24			
8C96SMG4	M14X1.5	R1/4-19f	6S	17.5	25.5	7	14			
8C98SMG4	M16X1.5	R1/4-19f	8S	18.5	26.5	7	14			
8C910SMG6	M18X1.5	R3/8-19f	10S	19.5	30.5	10	19			
8C912SMG6	M20X1.5	R3/8-19f	12S	19.5	30.5	10	19			
8C914SMG8	M22X1.5	R1/2-14f	14S	23	36	13	22			
8C916SMG8	M24X1.5	R1/2-14f	16S	24	37.3	13	24			

Fittings delivered without union nut or cutting ring.

90° elbow Male 24° X Male NPT

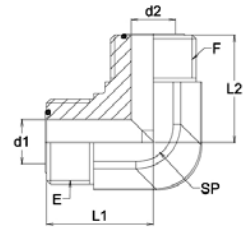


E90 M24D X MNPT

PT645	24D (E)	NPT (F)	TUBE (D1)	L1	L2	d2	SP			
8C96LLMN2	M10X1	1/8-27f	6LL	9,5	17	4,5	11			
8C96LMN4	M12X1.5	1/4-18f	6L	14	26	6	14			
8C98LMN2	M14X1.5	1/8-27f	8L	14	21,2	4,5	14			
8C98LMN4	M14X1.5	1/4-18f	8L	14	26	6	14			
8C910LMN6	M16X1.5	3/8-18f	10L	17	28	9	19			
8C912LMN6	M18X1.5	3/8-18f	12L	17	28	9	19			
8C912LMN8	M18X1.5	1/2-14f	12L	21	34	12	22			
8C915LMN8	M22X1.5	1/2-14f	15L	21	34	12	22			
8C918LMN8	M26X1.5	1/2-14f	18L	23,5	36	12	24			
8C922LMN12	M30X2	3/4-14f	22L	27,5	42	16,5	27			
8C928LMN16	M36X2	1"-11,5f	28L	30,5	48	21,5	36			
8C935LMN20	M45X2	1"1/4-11,5f	35L	34,5	54	28,5	41			
8C96SMN4	M14X1.5	1/4-18f	6S	16	26	6	14			
8C98SMN4	M16X1.5	1/4-18f	8S	17	27	6	14			
8C910SMN6	M18X1.5	3/8-18f	10S	17,5	28	9	19			
8C912SMN4	M20X1.5	1/4-18f	12S	21,5	28	6	17			
8C912SMN6	M20X1.5	3/8-18f	12S	21,5	28	9	19			
8C912SMN8	M20X1.5	1/2-14f	12S	22,5	34	12	22			
8C914SMN8	M22X1.5	1/2-14f	14S	22	34	12	22			
8C920SMN12	M30X2	3/4-14f	20S	26,5	42	16,5	27			
8C925SMN16	M36X2	1"-11,5f	25S	30	48	21,5	36			

Fittings delivered without union nut or cutting ring.

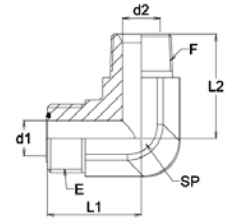
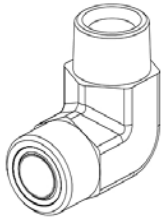
90° elbow Male ORFS X Male ORFS



E90 MORFS X MORFS

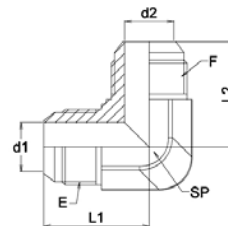
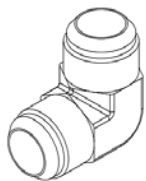
PT583	ORFS (E)	ORFS (F)	L1	L2	d1	d2	SP			
1FS17001	9/16-18f	9/16-18f	21.5	21,5	4,5	4,5	14			
1FS17005	9/16-18f	11/16-16f	23,5	25	4,5	6,5	19			
1FS17007	9/16-18f	13/16-16f	24.7	28	4.5	9,5	19			
1FS17010	11/16-16f	11/16-16f	25	25	6,5	6,5	19			
1FS17015	11/16-16f	13/16-16f	26,5	28	6,5	9,5	19			
1FS17020	13/16-16f	13/16-16f	28	28	9,5	9,5	19			
1FS17025	13/16-16f	1"3/16-12f	33,5	37,3	9,5	15,5	30			
1FS17030	1"-14f	1"-14f	33.3	33,3	12,5	12,5	27			
1FS17040	1"3/16-12f	1"3/16-12f	37.3	37,3	15,5	15,5	30			
1FS17050	1"7/16-12f	1"7/16-12f	41.7	41,7	20,5	20,5	36			
1FS17060	1"11/16-12f	1"11/16-12f	44.7	44,7	26	26	41			
1FS17070	2"-12f	2"-12f	48.8	48,8	32	32	48			

90° elbow Male ORFS X Male NPT

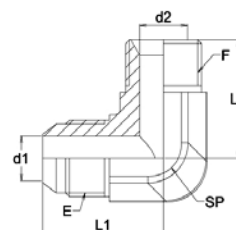
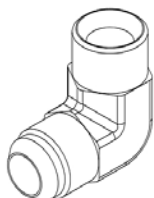


E90 MORFS X MNPT

PT585	ORFS (E)	NPT (F)	L1	L2	d1	d2	SP			
1FS18000	9/16-18f	1/8-27f	21,5	22,9	4,5	4,5	14			
1FS18001	9/16-18f	1/4-18f	21,5	27,7	4,5	6	14			
1FS18005	11/16-16f	1/8-27f	25	26,2	6,5	4,5	19			
1FS18004	11/16-16f	1/4-18f	25	31	6,5	6	19			
1FS18008	11/16-16f	3/8-18f	25	31	6,5	9	19			
1FS18006	11/16-16f	1/2-14f	29,2	37,3	6,5	12	22			
1FS18007	11/16-16f	3/4-14f	31,7	40,4	6,5	16,5	27			
1FS18009	13/16-16f	1/8-27f	28	26,2	9,5	4,5	19			
1FS18010	13/16-16f	1/4-18f	28	31	9,5	6	19			
1FS18012	13/16-16f	3/8-18f	28	31	9,5	9	19			
1FS18016	13/16-16f	1/2-14f	30,8	37,3	9,5	12	22			
1FS18018	13/16-16f	3/4-14f	33,5	40,4	9,5	16,5	27			
1FS18020	1"-14f	1/2-14f	33,3	40,4	12,5	12	27			
1FS18021	1"-14f	3/4-14f	33,3	40,4	12,5	16,5	27			
1FS18025	1"3/16-12f	3/8-18f	37,3	35,6	15,5	9	30			
1FS18026	1"3/16-12f	1/2-14f	37,3	40,4	15,5	12	30			
1FS18024	1"3/16-12f	3/4-14f	37,3	40,4	15,5	16,5	30			
1FS18027	1"3/16-12f	1"-11,5f	41,2	50	15,5	21,5	33			
1FS18030	1"7/16-12f	3/4-14f	41,7	45,2	20,5	16,5	36			
1FS18028	1"7/16-12f	1"-11,5f	41,7	50	20,5	21,5	36			
1FS18032	1"11/16-12f	1"-11,5f	44,7	59,7	26	21,5	41			
1FS18036	2"-12f	1"-11,5f	48,8	65,6	32	21,5	48			

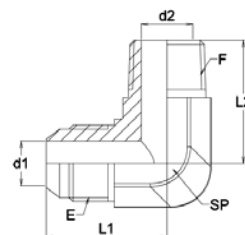
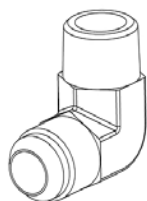
90° elbow Male JIC X Male JIC

E90 MJIC X MJIC

PT506	JIC (E)	JIC (F)	L1	L2	d1	d2	SP			
1SA99310	7/16-20f	7/16-20f	22,6	22,6	4,4	4,4	11			
1SA99320	1/2-20f	1/2-20f	24,1	24,1	6	6	13			
1SA99330	9/16-18f	9/16-18f	26,9	26,9	7,5	7,5	14			
1SA99340	3/4-16f	3/4-16f	31,8	31,8	9,9	9,9	19			
1SA99349	7/8-14f	9/16-18f	36,8	31	12,3	7,5	22			
1SA99348	7/8-14f	3/4-16f	36,8	33,8	12,3	9,9	22			
1SA99350	7/8-14f	7/8-14f	36,8	36,8	12,3	12,3	22			
1SA99360	1"1/16-12f	1"1/16-12f	42,2	42,2	15,5	15,5	27			
1SA99365	1"3/16-12f	1"3/16-12f	45,7	45,7	18	18	33			
1SA99380	1"5/16-12f	1"1/16-12f	46	45,5	21,5	15,5	33			
1SA99370	1"5/16-12f	1"5/16-12f	46	46	21,5	21,5	33			
1SA99385	1"5/8-12f	1"5/8-12f	52,3	52,3	27,5	27,5	41			
1SA99390	1"7/8-12f	1"7/8-12f	59,2	59,2	33	33	48			
1SA99391	2"1/2-12f	2"1/2-12f	77,7	77,7	45	45	65			

90° elbow Male JIC X Male BSP

E90 MJIC X MBSP

PT529	JIC (E)	BSP (F)	L1	L2	d1	d2	SP			
1SB99454	7/16-20f	G1/4-19f	26,6	26	4,4	4,7	14			
1SB99458	1/2-20f	G1/4-19f	26,6	26	6	4,7	14			
1SB99460	9/16-18f	G1/4-19f	26,9	26	7,5	4,7	14			
1SB99462	9/16-18f	G3/8-19f	29	30	7,5	7,9	19			
1SB99464	3/4-16f	G3/8-19f	31,8	30	9,9	7,9	19			
1SB99466	3/4-16f	G1/2-14f	33,8	35	9,9	11,1	22			
1SB99468	7/8-14f	G1/2-14f	36,8	35	12,3	11,1	22			
1SB99476	7/8-14f	G3/4-14f	39,2	42	12,3	16,7	27			
1SB99470	7/8-14f	G5/8-14f	36,8	38	12,3	14,3	24			
1SB99474	1"1/16-12f	G3/4-14f	42,2	42	15,5	16,7	27			
1SB99478	1"5/16-12f	G1"-11f	46	47	21,5	22,2	33			
1SB99480	1"1/16-12f	G1"-11f	44,9	47	15,5	22,2	33			
1SB99484	1"5/8-12f	G1"1/4-11f	52,3	52	27,5	28,6	41			
1SB99488	1"7/8-12f	G1"1/2-11f	59,2	60	33	33,3	48			

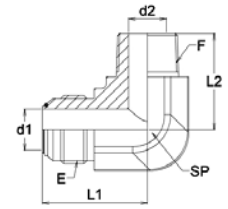
90° elbow Male JIC X Male BSPT



E90 MJIC X MR

PT554	JIC (E)	R (F)	L1	L2	d1	d2	SP			
1SA99502	5/16-24f	R1/8-28f	19,6	20	1,6	4,5	11			
1SA99500	7/16-20f	R1/8-28f	22,6	20	4,4	4,5	11			
1SA99520	7/16-20f	R1/4-19f	26,6	26	4,4	7	14			
1SA99550	7/16-20f	R3/8-19f	28,5	30	4,4	10	19			
1SA99590	7/16-20f	R1/2-14f	30,7	36	4,4	13	22			
1SA99510	1/2-20f	R1/8-28f	24,1	20	6	4,5	13			
1SA99530	1/2-20f	R1/4-19f	26,6	26	6	7	14			
1SA99555	1/2-20f	R3/8-19f	28,5	30	6	10	19			
1SA99504	9/16-18f	R1/8-28f	26,9	22	7,5	4,5	14			
1SA99540	9/16-18f	R1/4-19f	26,9	26	7,5	7	14			
1SA99560	9/16-18f	R3/8-19f	29	30	7,5	10	19			
1SA99600	9/16-18f	R1/2-14f	31	36	7,5	13	22			
1SA99545	3/4-16f	R1/4-19f	31,8	29	9,9	7	19			
1SA99580	3/4-16f	R3/8-19f	31,8	30	9,9	10	19			
1SA99610	3/4-16f	R1/2-14f	33,8	36	9,9	13	22			
1SA99635	3/4-16f	R3/4-14f	36,1	43	9,9	18	27			
1SA99585	7/8-14f	R3/8-19f	36,8	32	12,3	10	22			
1SA99620	7/8-14f	R1/2-14f	36,8	36	12,3	13	22			
1SA99640	7/8-14f	R3/4-14f	39,2	43	12,3	18	27			
1SA99675	7/8-14f	R1"-11f	41,7	50	12,3	24	33			
1SA99630	1"1/16-12f	R1/2-14f	42,2	42	15,5	13	27			
1SA99660	1"1/16-12f	R3/4-14f	42,2	43	15,5	18	27			
1SA99680	1"1/16-12f	R1"-11f	44,7	50	15,5	24	33			
1SA99670	1"5/16-12f	R3/4-14f	46	46	21,5	18	33			
1SA99690	1"5/16-12f	R1"-11f	46	50	21,5	24	33			
1SA99691	1"5/16-12f	R1"1/4-11f	51	58	21,5	31	41			
1SA99688	1"5/8-12f	R1"-11f	52,3	57	27,5	24	41			
1SA99692	1"5/8-12f	R1"1/4-11f	52,3	58	27,5	31	41			
1SA99694	1"7/8-12f	R1"1/2-11f	59,2	63	33	38	48			
1SA99696	2"1/2-12f	R2"-11f	77,7	75	45	49	65			

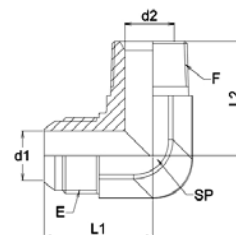
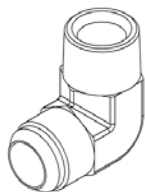
90° elbow Male JIC + O-Ring X Male BSPT



E90 MJIC +OR X MR

PT665	JIC (E)	R (F)	L1	L2	d1	d2	SP			
1SA99565.JO	7/16-20f	R1/4-19f	22.6	20	4.4	7	14			
1SA99570.JO	9/16-18f	R3/8-19f	26.9	30	7.5	10	19			
1SA99595.JO	3/4-16f	R1/2-14f	31.8	36	9.9	13	22			
1SA99585.JO	7/8-14f	R3/8-19f	36.8	30	12,3	10	22			

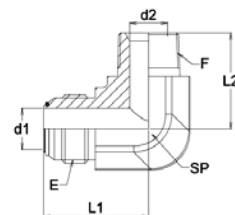
90° elbow Male JIC X Male NPT



E90 MJIC X MNPT

PT571	JIC (E)	NPT (F)	L1	L2	d1	d2	SP			
1SA99048	5/16-24f	1/8-27f	19.6	18.3	1,6	4,5	11			
1SA99097	3/8-24f	3/8-18f	26.5	31	3,2	9	19			
1SA99050	7/16-20f	1/8-27f	22.6	19.8	4,4	4,5	11			
1SA99070	7/16-20f	1/4-18f	26.6	27.7	4,4	6	14			
1SA99100	7/16-20f	3/8-18f	28.5	31	4,4	9	19			
1SA99145	7/16-20f	1/2-14f	30.7	37.3	4,4	12	22			
1SA99060	1/2-20f	1/8-27f	24.1	19.8	6	4,5	13			
1SA99080	1/2-20f	1/4-18f	26.6	27.7	6	6	14			
1SA99120	1/2-20f	3/8-18f	28.5	31	6	9	19			
1SA99147	1/2-20f	1/2-14f	30.7	37.3	6	12	22			
1SA99065	9/16-18f	1/8-27f	26.9	22.9	7,5	4,5	14			
1SA99090	9/16-18f	1/4-18f	26.9	27.7	7,5	6	14			
1SA99110	9/16-18f	3/8-18f	29	31	7,5	9	19			
1SA99150	9/16-18f	1/2-14f	31	37.3	7,5	12	22			
1SA99185	9/16-18f	3/4-14f	33.3	40.4	7,5	16,5	27			
1SA99095	3/4-16f	1/4-18f	31.8	31	9,9	6	19			
1SA99130	3/4-16f	3/8-18f	31.8	31	9,9	9	19			
1SA99160	3/4-16f	1/2-14f	33.8	37.3	9,9	12	22			
1SA99190	3/4-16f	3/4-14f	36.1	40.4	9,9	16,5	27			
1SA99140	7/8-14f	3/8-18f	36.8	32.5	12,3	9	22			
1SA99170	7/8-14f	1/2-14f	36.8	37.3	12,3	12	22			
1SA99200	7/8-14f	3/4-14f	39.2	40.4	12,3	16,5	27			
1SA99180	1"1/16-12f	1/2-14f	42.2	40.4	15,5	12	27			
1SA99210	1"1/16-12f	3/4-14f	42.2	40.4	15,5	16,5	27			
1SA99225	1"1/16-12f	1"-11,5f	44.7	50	15,5	21,5	33			
1SA99220	1"5/16-12f	3/4-14f	46	45.2	21,5	16,5	33			
1SA99230	1"5/16-12f	1"-11,5f	46	50	21,5	21,5	33			
1SA99240	1"5/16-12f	1"1/4-11,5f	51	60.5	21,5	28.5	41			
1SA99235	1"5/8-12f	1"-11,5f	52.3	59.7	27,5	21.5	41			
1SA99245	1"5/8-12f	1"1/4-11,5f	52.3	60.5	27,5	28.5	41			
1SA99255	1"5/8-12f	1"1/2-11,5f	55.9	67.1	27,5	35	48			
1SA99250	1"7/8-12f	1"1/4-11,5f	59.2	66.3	33	28.5	48			
1SA99260	1"7/8-12f	1"1/2-11,5f	59.2	67.1	33	35	48			
1SA99290	2"1/2-12f	2"-11,5f	77.7	76.2	45	46	65			
1SA99300	3"-12f	2"1/2-11,5f	96	94	58	56	80			

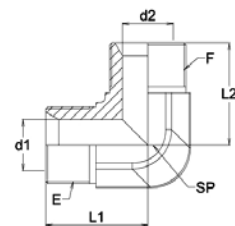
90° elbow Male JIC + O-Ring X Male NPT



E90 MJIC +OR X MNPT

PT658	JIC (E)	NPT (F)	L1	L2	d1	d2	SP			
1SA99170.JO	7/8-14f	1/2-14f	36,8	37,3	12,3	12	22			
1SA99200.JO	7/8-14f	3/4-14f	39,2	40,4	12,3	16,5	27			
1SA99220.JO	1"5/16-12f	3/4-14f	46	45,2	21,5	16,5	33			
1SA99230.JO	1"5/16-12f	1"-11,5f	46	50	21,5	21,5	33			

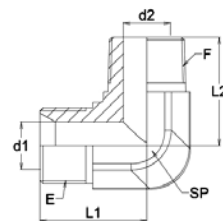
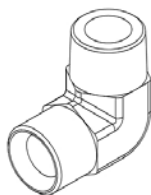
90° elbow Male BSP X Male BSP



E90 MBSP X MBSP

PT524	BSP (E)	BSP (F)	L1	L2	d1	d2	SP			
1SA99913	G1/8-28f	G1/8-28f	20	20	3,5	3,5	11			
1SA99914	G1/8-28f	G1/4-19f	23	26	3,5	4,7	14			
1SA99916	G1/4-19f	G1/4-19f	26	26	4,7	4,7	14			
1SA99917	G1/4-19f	G3/8-19f	29	30	4,7	7,9	19			
1SA99920	G3/8-19f	G3/8-19f	30	30	7,9	7,9	19			
1SA99922	G3/8-19f	G1/2-14f	33	35	7,9	11,1	22			
1SA99924	G1/2-14f	G1/2-14f	35	35	11,1	11,1	22			
1SA99930	G1/2-14f	G3/4-14f	40	42	11,1	16,7	27			
1SA99928	G5/8-14f	G5/8-14f	38	38	14,3	14,3	24			
1SA99931	G3/4-14f	G5/8-14f	42	42	16,7	14,3	27			
1SA99932	G3/4-14f	G3/4-14f	42	42	16,7	16,7	27			
1SA99934	G3/4-14f	G1"-11f	44	47	16,7	22,2	33			
1SA99936	G1"-11f	G1"-11f	47	47	22,2	22,2	33			
1SA99938	G1"-11f	G1"1/4-11f	51	52	22,2	28,6	41			
1SA99940	G1"1/4-11f	G1"1/4-11f	52	52	28,6	28,6	41			
1SA99942	G1"1/2-11f	G1"1/2-11f	60	60	33,3	33,3	48			
1SA99944	G2"-11f	G2"-11f	70	70	46	46	65			

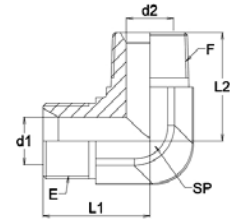
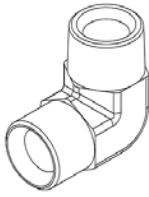
90° elbow Male BSP X Male BSPT



E90 MBSP X MR

PT551	BSP (E)	R (F)	L1	L2	d1	d2	SP			
1SB99290	G1/8-28f	R1/8-28f	20	20	3,5	4,5	11			
1SB99292	G1/8-28f	R1/4-19f	23	26	3,5	7	14			
1SB99302	G1/4-19f	R1/8-28f	26	22	4,7	4,5	14			
1SB99300	G1/4-19f	R1/4-19f	26	26	4,7	7	14			
1SB99304	G1/4-19f	R3/8-19f	29	30	4,7	10	19			
1SB99306	G1/4-19f	R1/2-14f	32	36	4,7	13	22			
1SB99310	G3/8-19f	R1/4-19f	30	29	7,9	7	19			
1SB99320	G3/8-19f	R3/8-19f	30	30	7,9	10	19			
1SB99314	G3/8-19f	R1/2-14f	33	36	7,9	13	22			
1SB99318	G3/8-19f	R3/4-14f	38	43	7,9	18	27			
1SB99330	G1/2-14f	R1/4-19f	35	31	11,1	7	22			
1SB99332	G1/2-14f	R3/8-19f	35	32	11,1	10	22			
1SB99340	G1/2-14f	R1/2-14f	35	36	11,1	13	22			
1SB99342	G1/2-14f	R3/4-14f	40	43	11,1	18	27			
1SB99344	G1/2-14f	R1"-11f	42	50	11,1	24	33			
1SB99350	G5/8-14f	R1/2-14f	38	38	14,3	13	24			
1SB99370	G3/4-14f	R3/8-19f	42	38	16,7	10	27			
1SB99372	G3/4-14f	R1/2-14f	42	42	16,7	13	27			
1SB99380	G3/4-14f	R3/4-14f	42	43	16,7	18	27			
1SB99382	G3/4-14f	R1"-11f	44	50	16,7	24	33			
1SB99388	G1"-11f	R3/4-14f	47	46	22,2	18	33			
1SB99390	G1"-11f	R1"-11f	47	50	22,2	24	33			
1SB99392	G1"-11f	R1"1/4-11f	51	58	22,2	31	41			
1SB99398	G1"1/4-11f	R1"-11f	52	56,5	27,5	23	41			
1SB99400	G1"1/4-11f	R1"1/4-11f	52	58	28,6	31	41			
1SB99402	G1"1/4-11f	R1"1/2-11f	54,5	62,5	27,5	38	48			
1SB99408	G1"1/2-11f	R1"1/4-11f	57,5	61	33,3	30	48			
1SB99410	G1"1/2-11f	R1"1/2-11f	60	63	33,3	38	48			
1SB99412	G1"1/2-11f	R2"-11f	65	75	33,3	49	63			
1SB99418	G2"-11f	R1"1/2-11f	67	72	46	38	63			
1SB99420	G2"-11f	R2"-11f	70	75	46	49	65			

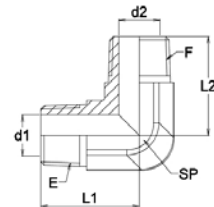
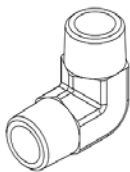
90° elbow Male BSP X Male NPT



E90 MBSP X MNPT

PT557	BSP (E)	NPT (F)	L1	L2	d1	d2	SP			
1SB99058	G1/8-28f	1/8-27f	20	19,8	3,5	4,5	11			
1SB99064	G1/4-19f	1/8-27f	26	23,2	4,7	4,5	14			
1SB99060	G1/4-19f	1/4-18f	26	27,7	4,7	6	14			
1SB99074	G3/8-19f	1/4-18f	30	31	7,9	6	19			
1SB99070	G3/8-19f	3/8-18f	30	31	7,9	9	19			
1SB99076	G3/8-19f	1/2-14f	33	37,3	7,9	12	22			
1SB99078	G3/8-19f	3/4-14f	38	40,4	7,9	16,5	27			
1SB99084	G1/2-14f	3/8-18f	35	32,5	11,1	9	22			
1SB99080	G1/2-14f	1/2-14f	35	37,3	11,1	12	22			
1SB99104	G3/4-14f	1/2-14f	42	40,4	16,7	12	27			
1SB99100	G3/4-14f	3/4-14f	42	40,4	16,7	16,5	27			
1SB99110	G1"-11f	1"-11,5f	47	50	22,2	21,5	33			
1SB99112	G1"1/4-11f	1"1/4-11,5f	52	60,5	28,6	28,5	41			
1SB99114	G1"1/2-11f	1"1/2-11,5f	60	67,1	33,3	35	48			
1SB99116	G2"-11f	2"-11,5f	70	76,2	46	46	65			

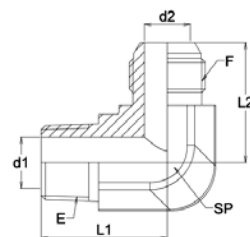
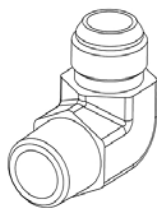
90° elbow Male BSPT X Male BSPT



E90 MR X MR

PT552	R (E)	R (F)	L1	L2	d1	d2	SP			
1SA99805	R1/8-28f	R1/8-28f	20	20	4,5	4,5	12			
1SA99810	R1/4-19f	R1/4-19f	26	26	7	7	14			
1SA99820	R3/8-19f	R3/8-19f	30	30	10	10	19			
1SA99830	R1/2-14f	R1/2-14f	36	36	13	13	22			
1SA99850	R3/4-14f	R3/4-14f	43	43	18	18	27			
1SA99860	R1"-11f	R1"-11f	50	50	24	24	33			

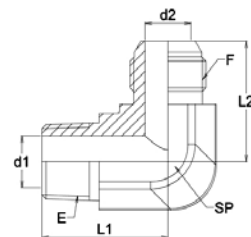
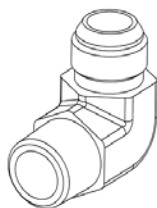
90° elbow Male BSPT X Male JIS



E90 MR X MJIS

PT609	R (E)	JIS (F)	L1	L2	d1	d2	SP			
1SP99020	R1/4-19f	G1/4-19f	26	28	7	5	14			
1SP99030	R3/8-19f	G3/8-19f	28	31.5	10	8	19			
1SP99040	R1/2-14f	G1/2-14f	36	38	13	11	22			
1SP99050	R3/4-14f	G3/4-14f	43	43	18	16	27			
1SP99060	R1"-11f	G1"-11f	50	48,5	24	22	33			

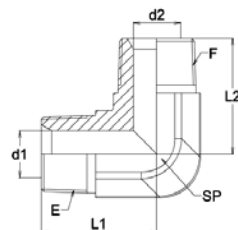
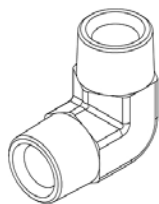
90° elbow Male BSPT X Male Komatsu



E90 MR X MKOM

PT663	R (E)	KOM (F)	L1	L2	d1	d2	SP			
1SP99220	R1/4-19f	M14X1.5	26	26.5	7	5	14			
1SP99230	R3/8-19f	M16X1.5	30	30.8	10	7	19			
1SP99240	R3/8-19f	M18X1.5	30	30.8	10	9	19			
1SP99250	R1/2-14f	M22X1.5	36	35.5	13	10,5	22			
1SP99260	R1/2-14f	M24X1.5	38	37	13	13	24			
1SP99270	R3/4-14f	M30X1.5	46	45	18	17	30			
1SP99280	R1"-11f	M33X1.5	50	50	24	19	33			

90° elbow Male NPT X Male NPT

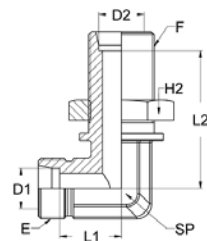


E90 MNPT X MNPT

PT556	NPT (E)	NPT (F)	L1	L2	d1	d2	SP			
1SA99700	1/8-27f	1/8-27f	19,8	19,8	4,5	4,5	11			
1SA99710	1/4-18f	1/4-18f	27,7	27,7	6	6	14			
1SA99715	1/4-18f	3/8-18f	31	31	6	9	19			
1SA99720	3/8-18f	3/8-18f	31	31	9	9	19			
1SA99730	1/2-14f	1/2-14f	37,3	37,3	12	12	22			
1SA99750	3/4-14f	3/4-14f	40,4	40,4	16,5	16,5	27			
1SA99760	1"-11,5f	1"-11,5f	50	50	21,5	21,5	33			
1SA99765	1"1/4-11,5f	1"1/4-11,5f	60,5	60,5	28,5	28,5	41			
1SA99770	1"1/2-11,5f	1"1/2-11,5f	67,1	67,1	35	35	48			
1SA99775	2"-11,5f	2"-11,5f	76,2	76,2	46	46	65			

EN-Pression majorée avec cône NPSM

90° elbow Male 24° X Bulkhead Male 24°

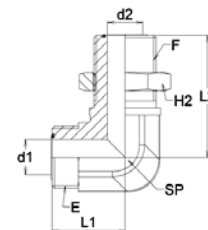


E90 M24D X MBH24D

PT596	24D (E)	24D (F)	TUBE (D1)	TUBE (D2)	L1	L2	H2	SP		
8C918LCL	M26X1.5	M26X1.5	18L	18L	23.5	56.5	36	24		
8C922LCL	M30X2	M30X2	22L	22L	27.5	64.5	41	27		

Fittings delivered without union nut or cutting ring.

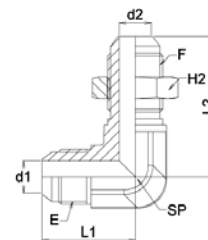
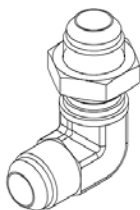
90° elbow Male ORFS X Bulkhead Male ORFS + Locknut



E90 MORFS X MBHORFS + LN

PT584	ORFS (E)	ORFS (F)	L1	L2	d1	d2	H2	SP		
1FS27001	9/16-18f	9/16-18f	22,5	47	4,5	4,5	22	14		
1FS27010	11/16-16f	11/16-16f	26	52	6,5	6,5	27	19		
1FS27020	13/16-16f	13/16-16f	29	55,5	9,5	9,5	30	19		
1FS27030	1"-14f	1"-14f	34,5	63	12,5	12,5	36	27		
1FS27040	1"3/16-12f	1"3/16-12f	38,5	67,2	15,5	15,5	38	30		
1FS27050	1"7/16-12f	1"7/16-12f	42,5	71,2	20,5	20,5	46	36		
1FS27060	1"11/16-12f	1"11/16-12f	45,5	75,5	26	26	50	41		
1FS27070	2"-12f	2"-12f	49,5	79,5	32	32	60	48		

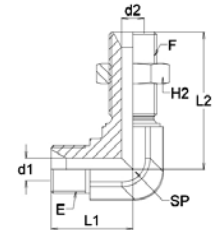
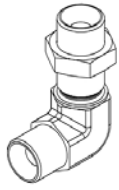
90° elbow Male JIC X Bulkhead Male JIC + Locknut



E90 MJIC X MBHJIC + LN

PT507	JIC (E)	JIC (F)	L1	L2	d1	d2	H2	SP		
1SA99410	7/16-20f	7/16-20f	24,6	40,4	4,4	4,4	17	11		
1SA99420	1/2-20f	1/2-20f	26,9	43,7	6	6	19	13		
1SA99430	9/16-18f	9/16-18f	27,7	46	7,5	7,5	22	14		
1SA99440	3/4-16f	3/4-16f	34,5	53,6	9,9	9,9	24	19		
1SA99450	7/8-14f	7/8-14f	39,6	60,7	12,3	12,3	30	22		
1SA99460	1"1/16-12f	1"1/16-12f	45,2	67,8	15,5	15,5	36	27		
1SA99470	1"5/16-12f	1"5/16-12f	49,3	71,1	21,5	21,5	41	33		
1SA99472	1"5/8-12f	1"5/8-12f	55,1	79,2	27,5	27,5	50	41		
1SA99474	1"7/8-12f	1"7/8-12f	59,4	86,9	33	33	55	48		

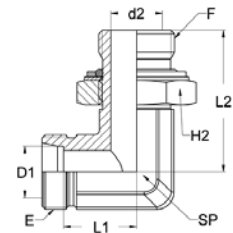
90° elbow Male BSP X Bulkhead Male BSP + Locknut



E90 MBSP X MBHBSP + LN

PT633	BSP (E)	BSP (F)	L1	L2	d1	d2	H2	SP		
1SA99980	G1/8-28f	G1/8-28f	20	37	3,5	3,5	14	11		
1SA99982	G1/4-19f	G1/4-19f	26	44	4,7	4,7	19	14		
1SA99983	G3/8-19f	G3/8-19f	30	49	7.9	7.9	22	19		
1SA99984	G1/2-14f	G1/2-14f	35	55	11,1	11,1	27	22		
1SA99986	G3/4-14f	G3/4-14f	42	63	16,7	16,7	32	27		
1SA99987	G1"-11f	G1"-11f	47	69	22.2	22.2	41	33		

90° elbow Male 24° X Adjustable Male BSPP + O-Ring + Retaining Ring

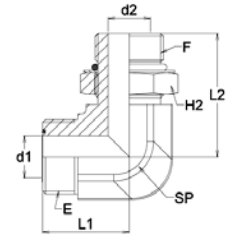


E90 M24D X ADJG +OR +RR

PT639	24D (E)	G (F)	TUBE (D1)	L1	L2	d2	H2	SP		
8C96LMBJ2	M12X1.5	G1/8-28f	6L	12	26.2	4	14	11		
8C98LMBJ4	M14X1.5	G1/4-19f	8L	15.5	31.3	6	19	14		
8C98LMBJ6	M14X1.5	G3/8-19f	8L	17	36.2	10	22	16		
8C910LMBJ4	M16X1.5	G1/4-19f	10L	17.5	32.5	6	19	14		
8C910LMBJ6	M16X1.5	G3/8-19f	10L	17.5	35.8	9	22	16		
8C912LMBJ4	M18X1.5	G1/4-19f	12L	19,7	34,8	6	19	19		
8C912LMBJ6	M18X1.5	G3/8-19f	12L	19	36,8	9	22	19		
8C912LMBJ8	M18X1.5	G1/2-14f	12L	21,7	42,5	12,5	27	22		
8C915LMBJ6	M22X1.5	G3/8-19f	15L	22,2	40,6	10	22	22		
8C915LMBJ8	M22X1.5	G1/2-14f	15L	21	43,2	14	27	22		
8C918LMBJ8	M26X1.5	G1/2-14f	18L	23,5	46	14	27	27		
8C918LMBJ12	M26X1.5	G3/4-14f	18L	25,5	49,3	18	36	27		
8C922LMBJ12	M30X2	G3/4-14f	22L	27,5	52	18	36	30		
8C928LMBJ16	M36X2	G1"-11f	28L	30,5	56	23	41	36		
8C96SMBJ4	M14X1.5	G1/4-19f	6S	16	31,3	5	19	14		
8C98SMBJ4	M16X1.5	G1/4-19f	8S	17	32,5	5	19	14		
8C98SMBJ6	M16X1.5	G3/8-19f	8S	18,5	36	10	22	16		
8C910SMBJ6	M18X1.5	G3/8-19f	10S	17,5	36,8	8	22	19		
8C912SMBJ6	M20X1.5	G3/8-19f	12S	21,5	36,8	8	22	19		
8C912SMBJ8	M20X1.5	G1/2-14f	12S	21	43	12,5	27	22		
8C914SMBJ8	M22X1.5	G1/2-14f	14S	23	43,2	12	27	22		
8C916SMBJ8	M24X1.5	G1/2-14f	16S	24,5	43	12	27	24		
8C925SMBJ16	M36X2	G1"-11f	25S	30	56	20	41	36		

Fittings delivered without union nut or cutting ring.

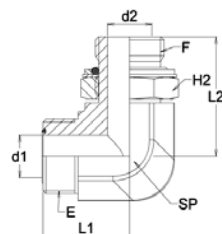
90° elbow Male ORFS X Adjustable Male SAE + O-Ring



E90 MORFS X ADJSAE +OR

PT588	ORFS (E)	SAE (F)	L1	L2	d1	d2	H2	SP		
1FS21001	9/16-18f	7/16-20f	21.5	32.7	4,5	5	14	14		
1FS21010	9/16-18f	9/16-18f	23.5	36.8	4,5	6.5	17	19		
1FS21020	11/16-16f	7/16-20f	25	34.8	6,5	5	14	19		
1FS21030	11/16-16f	9/16-18f	25	36.8	6,5	6.5	17	19		
1FS21040	11/16-16f	3/4-16f	26.5	40.6	6,5	9.5	22	19		
1FS21050	13/16-16f	9/16-18f	28	36.5	9,5	6.5	17	19		
1FS21060	13/16-16f	3/4-16f	28	40.6	9,5	9.5	22	19		
1FS21070	13/16-16f	7/8-14f	30.8	50	9,5	12,5	27	22		
1FS21074	13/16-16f	1"1/16-12f	33.5	55.1	9,5	15,5	32	30		
1FS21076	1"-14f	9/16-18f	33.3	41.6	12,5	6.5	17	27		
1FS21080	1"-14f	3/4-16f	33.3	45.7	12,5	9.5	22	27		
1FS21090	1"-14f	7/8-14f	33.3	50	12,5	12,5	27	27		
1FS21100	1"-14f	1"1/16-12f	35.8	55.1	12,5	15,5	32	30		
1FS21110	1"3/16-12f	7/8-14f	37.3	51	15,5	12	27	30		
1FS21120	1"3/16-12f	1"1/16-12f	37.3	55.1	15,5	15,5	32	30		
1FS21130	1"3/16-12f	1"5/16-12f	41.2	59.7	15,5	20.5	41	36		
1FS21140	1"7/16-12f	1"1/16-12f	41.7	59	20,5	15,5	32	36		
1FS21150	1"7/16-12f	1"5/16-12f	41.7	59.7	20,5	20.5	41	36		
1FS21160	1"7/16-12f	1"5/8-12f	44.7	62.2	20,5	26	50	41		
1FS21170	1"11/16-12f	1"5/16-12f	44.7	62.2	26	20.5	41	41		
1FS21180	1"11/16-12f	1"5/8-12f	44.7	62.2	26	26	50	41		
1FS21190	1"11/16-12f	1"7/8-12f	48.8	65.8	26	32	55	48		
1FS21200	2"-12f	1"7/8-12f	48.8	65.8	32	32	55	48		

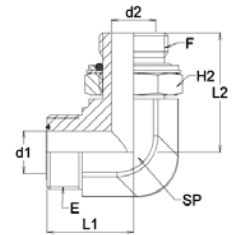
90° elbow Male ORFS X Adjustable Male BSPP + O-Ring + Retaining Ring



E90 MORFS X ADJG +OR +RR

PT586	ORFS (E)	G (F)	L1	L2	d1	d2	H2	SP		
1FS23001	9/16-18f	G1/8-28f	21.5	26.5	4,5	4,4	14	14		
1FS23010	9/16-18f	G1/4-19f	21.5	32	4,5	5	19	14		
1FS23020	9/16-18f	G3/8-19f	24.7	37	4,5	8	22	19		
1FS23030	11/16-16f	G1/4-19f	25	37	6,5	5	19	19		
1FS23040	11/16-16f	G3/8-19f	26.5	37	6,5	8	22	19		
1FS23050	11/16-16f	G1/2-14f	29.2	43	6,5	12,3	27	22		
1FS23060	13/16-16f	G1/4-19f	28	37	9,5	5	19	19		
1FS23070	13/16-16f	G3/8-19f	28	37	9,5	8	22	19		
1FS23080	13/16-16f	G1/2-14f	30.8	43	9,5	12	27	22		
1FS23090	1"-14f	G3/8-19f	33.3	43	12,5	8	22	27		
1FS23100	1"-14f	G1/2-14f	33.3	49.5	12,5	12	27	27		
1FS23105	1"-14f	G5/8-14f	35.8	49.5	12,5	14	30	27		
1FS23110	1"-14f	G3/4-14f	35.8	49.5	12,5	16	36	27		
1FS23120	1"3/16-12f	G1/2-14f	37.3	49.5	15,5	12	27	30		
1FS23130	1"3/16-12f	G3/4-14f	37.3	49.5	15,5	16	36	30		
1FS23140	1"3/16-12f	G1"-11f	41.2	52	15,5	20	41	33		
1FS23150	1"7/16-12f	G3/4-14f	41.7	52.5	20,5	16	36	36		
1FS23160	1"7/16-12f	G1"-11f	41.7	57	20,5	20	41	36		
1FS23170	1"7/16-12f	G1"1/4-11f	44.7	57	20,5	25	50	41		
1FS23180	1"11/16-12f	G1"-11f	44.7	57	26	20	41	41		
1FS23190	1"11/16-12f	G1"1/4-11f	44.7	57	26	25	50	41		
1FS23200	1"11/16-12f	G1"1/2-11f	48.8	60.5	26	32	55	48		
1FS23210	2"-12f	G1"1/2-11f	48.8	60.5	32	32	55	48		

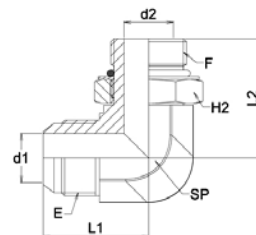
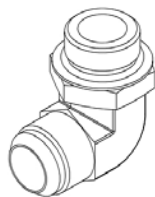
90° elbow Male ORFS X Adjustable Male ISO + O-Ring + Retaining Ring



E90 MORFS X ADJISO +OR +RR

PT587	ORFS (E)	ISO (F)	L1	L2	d1	d2	H2	SP		
1FS25001	9/16-18f	M12x1.5	23	32	4,5	4	17	14		
1FS25005	11/16-16f	M14x1.5	27	35,5	6,5	6	19	19		
1FS25010	11/16-16f	M16X1.5	27	36	6,5	6,5	22	19		
1FS25020	13/16-16f	M18x1.5	28	41	9,5	11	24	19		
1FS25030	1"-14f	M22x1.5	36,5	43,5	12,5	12	27	27		
1FS25040	1"3/16-12f	M27x2	40,3	60	15,5	18	32	30		
1FS25050	1"7/16-12f	M33x2	42,3	60	20,5	20	41	37		
1FS25060	1"11/16-12f	M42x2	44,7	63	26	27,5	50	41		
1FS25070	2"-12f	M48x2	48,8	71,5	32	32	55	48		

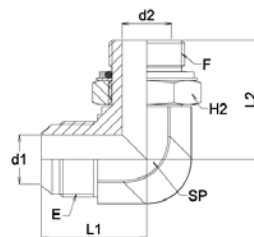
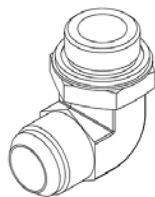
90° elbow Male JIC X Adjustable Male SAE + O-Ring



E90 MJIC X ADJSAE +OR

PT502	JIC (E)	SAE (F)	L1	L2	d1	d2	H2	SP		
1SE99225	7/16-20f	7/16-20f	22,6	26,2	4,4	4,4	14	11		
1SE99228	7/16-20f	1/2-20f	24,1	28,7	4,4	6	17	13		
1SE99229	7/16-20f	9/16-18f	26,6	31,8	4,4	7,5	17	14		
1SE99227	1/2-20f	7/16-20f	24,1	28,7	6	4,4	14	13		
1SE99230	1/2-20f	1/2-20f	24,1	28,7	6	6	17	13		
1SE99232	1/2-20f	9/16-18f	26,6	31,8	6	7,5	17	14		
1SE99233	9/16-18f	7/16-20f	26,9	30,3	7,5	4,4	14	14		
1SE99234	9/16-18f	1/2-20f	26,9	30,3	7,5	6	17	14		
1SE99235	9/16-18f	9/16-18f	26,9	31,8	7,5	7,5	17	14		
1SE99236	9/16-18f	3/4-16f	29	36,8	7,5	9,9	22	19		
1SE99237	9/16-18f	7/8-14f	31	43,2	7,5	12,3	27	22		
1SE99238	3/4-16f	9/16-18f	31,8	33,5	9,9	7,5	17	19		
1SE99240	3/4-16f	3/4-16f	31,8	36,8	9,9	9,9	22	19		
1SE99244	3/4-16f	7/8-14f	33,8	43,2	9,9	12,3	27	22		
1SE99249	3/4-16f	1"1/16-12f	36,1	49,3	9,9	15,5	32	27		
1SE99243	7/8-14f	3/4-16f	36,8	39,1	12,3	9,9	22	22		
1SE99245	7/8-14f	7/8-14f	36,8	43,2	12,3	12,3	27	22		
1SE99246	7/8-14f	1"1/16-12f	39,2	49,3	12,3	15,5	32	27		
1SE99247	1"1/16-12f	3/4-16f	42,2	41,2	15,5	9,9	22	27		
1SE99248	1"1/16-12f	7/8-14f	42,2	45,2	15,5	12,3	27	27		
1SE99250	1"1/16-12f	1"1/16-12f	42,2	49,3	15,5	15,5	32	27		
1SE99252	1"1/16-12f	1"5/16-12f	44,7	52,1	15,5	21,5	41	33		
1SE99251	1"3/16-12f	1"3/16-12f	45,7	50,8	18	18	36	33		
1SE99254	1"5/16-12f	7/8-14f	46	48	21,5	12,3	27	33		
1SE99256	1"5/16-12f	1"1/16-12f	46	52,1	21,5	15,5	32	33		
1SE99260	1"5/16-12f	1"5/16-12f	46	52,1	21,5	21,5	41	33		
1SE99262	1"5/16-12f	1"5/8-12f	51	57,2	21,5	27,5	50	41		
1SE99263	1"5/8-12f	1"5/16-12f	52,3	57,2	27,5	21,5	41	41		
1SE99265	1"5/8-12f	1"5/8-12f	52,3	57,2	27,5	27,5	50	41		
1SE99267	1"7/8-12f	1"5/8-12f	59,2	60,7	33	27,5	50	48		
1SE99270	1"7/8-12f	1"7/8-12f	59,2	60,7	33	33	55	48		
1SE99300	2"1/2-12f	2"1/2-12f	77,7	73,4	45	45	70	65		

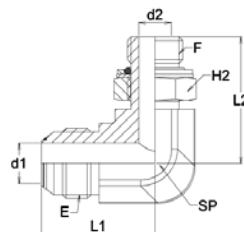
90° elbow Male JIC X Adjustable Male BSPP + O-Ring + Retaining Ring



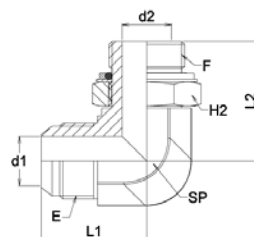
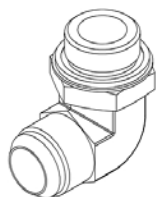
E90 MJIC X ADJG +OR +RR

PT501	JIC (E)	G (F)	L1	L2	d1	d2	H2	SP		
1SB99205	7/16-20f	G1/8-28f	22,6	26,5	4,4	4,4	14	11		
1SB99206	7/16-20f	G1/4-19f	26,6	32	4,4	7,5	19	14		
1SB99212	7/16-20f	G3/8-19f	28,5	37	4,4	9,9	22	19		
1SB99207	1/2-20f	G1/8-28f	24,1	26,5	6	4,4	14	14		
1SB99208	1/2-20f	G1/4-19f	26,6	32	6	7,5	19	14		
1SB99209	1/2-20f	G3/8-19f	28,5	37	6	9,9	22	19		
1SB99210	9/16-18f	G1/4-19f	26,9	32	7,5	7,5	19	14		
1SB99214	9/16-18f	G3/8-19f	29	37	7,5	9,9	22	19		
1SB99215	9/16-18f	G1/2-14f	31	43	7,5	12,3	27	22		
1SB99216	3/4-16f	G1/4-19f	31,8	34,2	9,9	7,5	19	19		
1SB99218	3/4-16f	G3/8-19f	31,8	37	9,9	9,9	22	19		
1SB99220	3/4-16f	G1/2-14f	33,8	43	9,9	12,3	27	22		
1SB99219	3/4-16f (P)	G1/2-14f	33,8	78	9,9	12,3	27	22		
1SB99221	3/4-16f	G3/4-14f	36,1	49,5	9,9	15,5	36	27		
1SB99222	7/8-14f	G3/8-19f	36,8	37	12,3	9,9	22	22		
1SB99224	7/8-14f	G1/2-14f	36,8	43	12,3	12,3	27	22		
1SB99225	7/8-14f	G5/8-14f	39,2	43,5	12,3	14	30	24		
1SB99226	7/8-14f	G3/4-14f	39,2	49,5	12,3	15,5	36	27		
1SB99228	1"1/16-12f	G1/2-14f	42,2	49,5	15,5	12,3	27	27		
1SB99229	1"1/16-12f	G5/8-14f	42,2	49,5	15,5	14	30	27		
1SB99230	1"1/16-12f	G3/4-14f	42,2	49,5	15,5	15,5	36	27		
1SB99232	1"1/16-12f	G1"-11f	44,7	52	15,5	21,5	41	33		
1SB99234	1"5/16-12f	G3/4-14f	46	49,5	21,5	15,5	36	33		
1SB99236	1"5/16-12f	G1"-11f	46	52	21,5	21,5	41	33		
1SB99238	1"5/16-12f	G1"1/4-11f	51	57	21,5	27,5	50	41		
1SB99240	1"5/8-12f	G1"-11f	52,3	57	27,5	21,5	41	41		
1SB99242	1"5/8-12f	G1"1/4-11f	52,3	57	27,5	27,5	50	41		
1SB99244	1"7/8-12f	G1"1/4-11f	59,2	60,5	33	27,5	50	48		
1SB99246	1"7/8-12f	G1"1/2-11f	59,2	60,5	33	33	55	48		

(P) Extension.

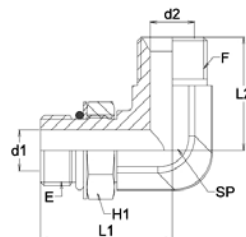
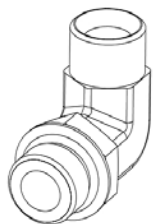
90° elbow Male JIC + O-Ring X Adjustable Male BSPP + O-Ring

E90 MJIC +OR X ADJG +OR

PT666	JIC (E)	G (F)	L1	L2	d1	d2	H2	SP		
1SB99222.JO	7/8-14f	G3/8-19f	36,8	37	12,3	9,9	22	22		
1SB99224.JO	7/8-14f	G1/2-14f	36,8	43	12,3	12,3	27	22		
1SB99226.JO	7/8-14f	G3/4-14f	39,2	49,5	12,3	15,5	36	27		
1SB99234.JO	1"5/16-12f	G3/4-14f	46	49,5	21,5	15,5	36	33		
1SB99236.JO	1"5/16-12f	G1"-11f	46	52	21,5	21,5	41	33		
1SB99238.JO	1"5/16-12f	G1"1/4-11f	51	57	21,5	27,5	50	41		
1SB99242.JO	1"5/8-12f	G1"1/4-11f	52,3	57	27,5	27,5	50	41		

90° elbow Male JIC X Adjustable Male ISO + O-Ring + Retaining Ring

E90 MJIC X ADJISO +OR +RR

PT531	JIC (E)	ISO (F)	L1	L2	d1	d2	H2	SP		
1SA99475	7/16-20f	M10x1	22.6	26.6	4.4	4.5	14	11		
1SA99476	7/16-20f	M12x1.5	22.6	31.6	4.4	6	17	13		
1SA99478	1/2-20f	M10x1	24.1	27.6	6	4.5	14	13		
1SA99477	1/2-20f	M12x1.5	24.1	31.6	6	6	17	13		
1SA99480	9/16-18f	M14x1.5	26.9	34.6	7.5	7.5	19	14		
1SA99482	9/16-18f	M16x1.5	29	38.1	7.5	9	22	19		
1SA99485	3/4-16f	M16x1.5	31.8	38.1	9.9	9	22	19		
1SA99486	3/4-16f	M18x1.5	31.8	39.1	9.9	11	24	19		
1SA99487	7/8-14f	M18x1.5	36.8	40.3	12.3	11	24	22		
1SA99488	7/8-14f	M20x1.5	36.8	41.3	12.3	12	27	22		
1SA99489	7/8-14f	M22x1.5	36.8	41.3	12.3	14	27	22		
1SA99491	1"1/16-12f	M22x1.5	42.2	44.8	15.5	14	27	27		
1SA99493	1"1/16-12f	M27X2	42.2	49.8	15.5	18	32	27		
1SA99494	1"5/16-12f	M27X2	46	51.8	21.5	18	32	33		
1SA99495	1"5/16-12f	M33x2	46	51.8	21.5	23	41	33		
1SA99497	1"5/8-12f	M42x2	52.3	56.3	27.5	30	50	41		

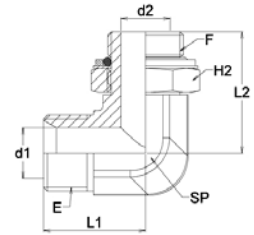
90° elbow Adjustable Male SAE + O-Ring X Male BSP



E90 ADJSAE +OR X MBSP

PT527	SAE (E)	BSP (F)	L1	L2	d1	d2	H1	SP		
1SI99110	7/16-20f	G1/8-28f	26,2	20	4,4	3,5	14	11		
1SI99118	7/16-20f	G1/4-19f	30,3	26	4,4	4,7	14	14		
1SI99134	7/16-20f	G3/8-19f	32	30	4,4	7,9	14	19		
1SI99114	1/2-20f	G1/8-28f	28,7	23	6	3,5	17	13		
1SI99122	1/2-20f	G1/4-19f	30,3	26	6	4,7	17	14		
1SI99126	9/16-18f	G1/4-19f	31,8	26	7,5	4,7	17	14		
1SI99138	9/16-18f	G3/8-19f	33,5	30	7,5	7,9	17	19		
1SI99130	3/4-16f	G1/4-19f	36,8	29	9,9	4,7	22	19		
1SI99142	3/4-16f	G3/8-19f	36,8	30	9,9	7,9	22	19		
1SI99150	3/4-16f	G1/2-14f	39,1	35	9,9	11,1	22	22		
1SI99166	3/4-16f	G3/4-14f	41,2	42	9,9	16,7	22	27		
1SI99146	7/8-14f	G3/8-19f	43,2	33	12,3	7,9	27	22		
1SI99154	7/8-14f	G1/2-14f	43,2	35	12,3	11,1	27	22		
1SI99162	7/8-14f	G5/8-14f	43,2	38	12,3	14,3	27	24		
1SI99170	7/8-14f	G3/4-14f	45,2	42	12,3	16,7	27	27		
1SI99158	1"1/16-12f	G1/2-14f	49,3	40	15,5	11,1	32	27		
1SI99174	1"1/16-12f	G3/4-14f	49,3	42	15,5	16,7	32	27		
1SI99182	1"1/16-12f	G1"-11f	52,1	47	15,5	22,2	32	33		
1SI99178	1"5/16-12f	G3/4-14f	52,1	44	21,5	16,7	41	33		
1SI99186	1"5/16-12f	G1"-11f	52,1	47	21,5	22,2	41	33		
1SI99194	1"5/16-12f	G1"1/4-11f	57,2	52	21,5	28,6	41	41		
1SI99190	1"5/8-12f	G1"-11f	57,2	51	27,5	22,2	50	41		
1SI99198	1"5/8-12f	G1"1/4-11f	59,5	50,5	27,5	30	50	41		

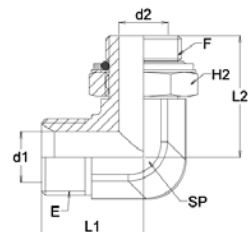
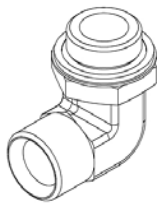
90° elbow Male BSP X Adjustable Male BSPP + O-Ring + Retaining Ring



E90 MBSP X ADJG +OR +RR

PT522	BSP (E)	G (F)	L1	L2	d1	d2	H2	SP		
1SA99962	G1/4-19f	G1/4-19f	26	35	4,7	7,5	19	14		
1SA99961	G1/4-19f	G3/8-19f	29	36	4,7	9,9	22	19		
1SA99971	G1/4-19f	G1/2-14f	32	43	4,7	12,3	27	22		
1SA99972	G3/8-19f	G1/4-19f	30	36	7,9	7,5	19	19		
1SA99963	G3/8-19f	G3/8-19f	30	36	7,9	9,9	22	19		
1SA99973	G3/8-19f	G1/2-14f	33	43	7,9	12,3	27	22		
1SA99964	G1/2-14f	G1/2-14f	35	43	11,1	12,3	27	22		
1SA99974	G1/2-14f	G3/4-14f	40	47	11,1	15,5	36	27		
1SA99966	G3/4-14f	G3/4-14f	42	47	16,7	15,5	36	27		
1SA99976	G3/4-14f	G1"-11f	44	54	16,7	21,5	41	33		
1SA99967	G1"-11f	G1"-11f	47	54	22,2	21,5	41	33		
1SA99977	G1"1/4-11f	G1"-11f	52	59	28,6	21,5	41	41		
1SA99968	G1"1/4-11f	G1"1/4-11f	52	59	28,6	27,5	50	41		
1SA99969	G1"1/2-11f	G1"1/2-11f	60	70	33,3	33	55	48		
1SA99970	G2"-11f	G2"-11f	70	87,5	46	45	70	65		

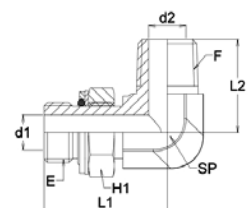
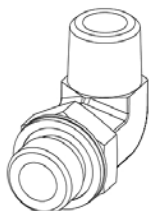
90° elbow Male BSP X Adjustable Male ISO + O-Ring + Retaining Ring



E90 MBSP X ADJISO +OR +RR

PT530	BSP (E)	ISO (F)	L1	L2	d1	d2	H2	SP		
1SB99002	G1/8-28f	M10x1	20	26	3.5	4.5	14	11		
1SB99004	G1/8-28f	M12X1.5	23	35	3.5	6	17	13		
1SB99006	G1/4-19f	M12X1.5	26	35	4.7	6	17	14		
1SB99008	G1/4-19f	M14X1.5	26	35	4.7	7.5	19	14		
1SB99010	G1/4-19f	M16X1.5	29	36	4.7	9	22	19		
1SB99012	G3/8-19f	M14X1.5	30	35.5	7.9	7.5	19	19		
1SB99014	G3/8-19f	M16X1.5	30	36	7.9	9	22	19		
1SB99016	G3/8-19f	M18X1.5	33	40	7.9	11	24	19		
1SB99018	G3/8-19f	M22X1.5	34	46	7.9	14	27	22		
1SB99020	G1/2-14f	M18X1.5	35	40	11.1	11	24	22		
1SB99022	G1/2-14f	M20X1.5	36	43	11.1	12	27	22		
1SB99024	G1/2-14f	M22X1.5	36	43	11.1	14	27	24		
1SB99026	G5/8-14f	M20X1.5	38	46	14.3	12	27	24		
1SB99028	G5/8-14f	M22X1.5	38	43	14.3	14	27	24		
1SB99030	G3/4-14f	M22X1.5	42	43	16.7	14	27	27		
1SB99032	G3/4-14f	M26X1.5	42	47.5	16.7	16	32	27		
1SB99034	G3/4-14f	M27x2	42	47.5	16.7	18	32	27		
1SB99036	G1"-11f	M27x2	47	57	22.2	18	32	33		
1SB99038	G1"-11f	M33x2	47	52	22.2	23	41	33		
1SB99040	G1"1/4-11f	M42x2	52	61	28.6	30	50	41		
1SB99042	G1"1/4-11f	M48x2	58	69	28.6	36	55	48		

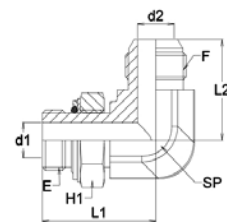
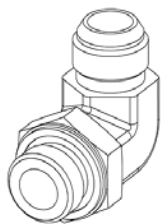
90° elbow Adjustable Male BSPP + O-Ring + Retaining Ring X Male BSPT



E90 ADJG +OR +RR X MR

PT662	G (E)	R (F)	L1	L2	d1	d2	H1	SP		
1SB99268	G3/8-19f	R1/2-14f	36,5	32,5	8	10	22	24		

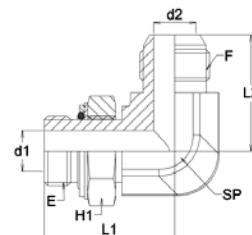
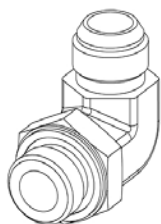
90° elbow Adjustable Male BSPP + O-Ring + Retaining Ring X Male JIS



E90 ADJG +OR +RR X MJIS

PT610	G (E)	JIS (F)	L1	L2	d1	d2	H1	SP		
1SP99320	G1/8-28f	G1/8-28f	26,2	21,8	4	3	11	14		
1SP99330	G1/4-19f	G1/4-19f	32	28	6	5	19	14		
1SP99340	G3/8-19f	G3/8-19f	37	31,5	9	8	22	19		
1SP99350	G1/2-14f	G1/2-14f	43	38	14	11	27	22		
1SP99360	G3/4-14f	G3/4-14f	49,5	43	18	16	36	27		
1SP99370	G1"-11f	G1"-11f	52	48,5	53	22	41	33		
1SP99380	G1"1/4-11f	G1"1/4-11f	57	57	30	28	50	41		
1SP99390	G1"1/2-11f	G1"1/2-11f	60,5	61	36	34	55	48		

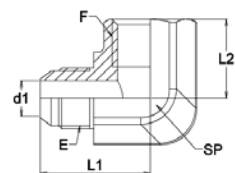
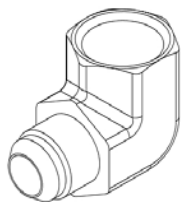
90° elbow Adjustable Male BSPP + O-Ring + Retaining Ring X Male Komatsu



E90 ADJG +OR +RR X MKOM

PT664	G (E)	KOM (F)	L1	L2	d1	d2	H1	SP		
1SP99420	G1/4-19f	M14X1.5	32	26,5	6	5	19	14		
1SP99425	G3/8-19f	M16X1.5	37	30,8	9	7	22	19		
1SP99430	G3/8-19f	M18X1.5	37	30,8	9	9	22	19		
1SP99435	G1/2-14f	M22X1.5	43	35,5	12,3	10,5	27	22		
1SP99440	G3/4-14f	M30X1.5	49,5	45	18	17	36	30		
1SP99445	G1"-11f	M33X1.5	52	50	21,5	21	41	33		

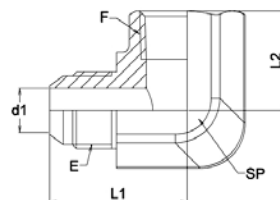
90° elbow Male JIC X Female BSPP



E90 MJIC X FG

PT661	JIC (E)	G (F)	L1	L2	d1	SP				
1SA99874	1/2-20f	G1/4-19f	30,9	22	6	19				
1SA99877	3/4-16f	G1/2-14f	38,7	32	9,9	27				

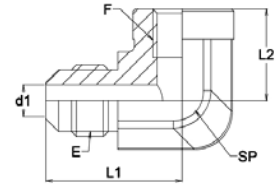
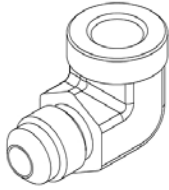
90° elbow Male JIC X Female NPT



E90 MJIC X FNPT

PT579	JIC (E)	NPT (F)	L1	L2	d1	SP				
1SA99870	7/16-20f	1/8-27f	27,4	16,8	4,4	14				
1SA99872	7/16-20f	1/4-18f	30,9	22,4	4,4	19				
1SA99873	1/2-20f	1/4-18f	30,9	22,4	6	19				
1SA99876	9/16-18f	1/4-18f	31,2	22,4	7,5	19				
1SA99879	9/16-18f	3/8-18f	33,3	25,9	7,5	22				
1SA99882	3/4-16f	3/8-18f	36,1	25,9	9,9	22				
1SA99885	3/4-16f	1/2-14f	38,7	31,2	9,9	27				
1SA99887	7/8-14f	1/2-14f	41,7	31,2	12,3	27				
1SA99890	1"1/16-12f	1/2-14f	48	34,2	15,5	27				
1SA99893	1"1/16-12f	3/4-14f	48	34,5	15,5	33				
1SA99896	1"5/16-12f	1"-11,5f	55,1	41,1	21,5	41				
1SA99899	1"5/8-12f	1"1/4-11,5f	59,2	43,2	27,5	48				
1SA99902	1"7/8-12f	1"1/2-11,5f	73,4	52,8	33	65				
1SA99905	2"1/2-12f	2"	83,8	60,7	45	65				

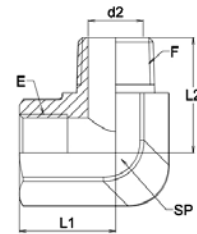
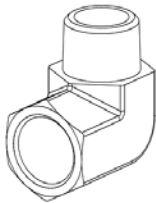
90° elbow Male SAE 90° cone X Female BSPP



E90 MSAE 90CO X FG

PT605	SAE (E)	G (F)	L1	L2	d1	SP				
1SA99875	5/8-18f	G1/4-19f	27,7	22	7	19				

90° elbow Female BSPP X Male BSPT

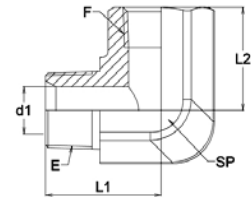
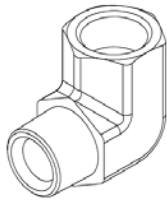


E90 FG X MR

PT568	G (E)	R (F)	L1	L2	d2	SP				
1WA10160	G1/8-28f	R1/8-28f	17	20	4,5	14				
1WA10161	R1/8-28f (1)	R1/8-28f	9	21	5	22				
1WA10160A	G1/8-28f (2)	R1/8-28f	8	22	4	14				
1WA10165	G1/4-19f	R1/4-19f	22	28	7	19				
1WA10166	R1/4-19f (1)	R1/4-19f	22	28	7	19				
1WA10170	G3/8-19f	R3/8-19f	26	31	10	22				
1WA10180	G1/2-14f	R1/2-14f	32	37,5	13	27				
1WA10190	G3/4-14f	R3/4-14f	36	43	18	33				
1WA10200	G1"-11f	R1"-11f	42	50	24	41				

(1) Hexagonal body, BSPT Female - (2) Square body.

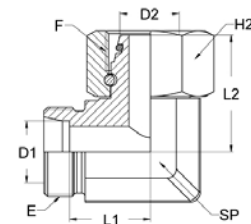
90° elbow Male NPT X Female NPT



E90 MNPT X FNPT

PT581	NPT (E)	NPT (F)	L1	L2	d1	SP				
1WB10145	1/8-27f	1/8-27f	19.8	16.8	4.5	14				
1WB10150	1/4-18f	1/8-27f	27.7	17.1	6	19				
1WB10160	1/4-18f	1/4-18f	27.7	22.4	6	19				
1WB10170	3/8-18f	3/8-18f	31	25.9	9	22				
1WB10180	1/2-14f	1/2-14f	37.3	31.2	12	27				
1WB10200	3/4-14f	3/4-14f	40.4	34.5	16.5	33				
1WB10210	1"-11,5f	1"-11,5f	50	41,1	21,5	41				
1WB10215	1"1/4-11,5f	1"1/4-11,5f	60.5	43,2	28.5	48				
1WB10220	1"1/2-11,5f	1"1/2-11,5f	67.1	52,8	35	65				
1WB10225	2"-11,5f	2"-11,5f	76.2	60.7	46	70				

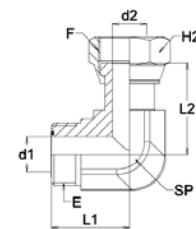
90° elbow Male 24° X Swivel Female 24° + O-Ring



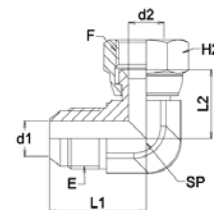
E90 M24D X FS24D +OR

PT346	24D (E)	24D (F)	TUBE (D1)	TUBE (D2)	L1	L2	H2	SP		
8C96LFT6	M12X1.5	M12X1.5	6L	6L	12	26	14	12		
8C98LFT8	M14X1.5	M14X1.5	8L	8L	14	27.5	17	12		
8C910LFT10	M16X1.5	M16X1.5	10L	10L	15	29	19	14		
8C912LFT12	M18X1.5	M18X1.5	12L	12L	17	29.5	22	17		
8C915LFT15	M22X1.5	M22X1.5	15L	15L	21	32.5	27	19		
8C918LFT18	M26X1.5	M26X1.5	18L	18L	23,5	35.5	32	24		
8C922LFT22	M30X2	M30X2	22L	22L	27,5	38.5	36	27		
8C928LFT28	M36X2	M36X2	28L	28L	30,5	41.5	41	36		
8C935LFT35	M45X2	M45X2	35L	35L	34,5	51	50	41		
8C942LFT42	M52X2	M52X2	42L	42L	40	56	60	50		
8C96SFT6	M14X1.5	M14X1.5	6S	6S	16	27	17	12		
8C98SFT8	M16X1.5	M16X1.5	8S	8S	17	27.5	19	14		
8C910SFT10	M18X1.5	M18X1.5	10S	10S	17,5	30	22	17		
8C912SFT12	M20X1.5	M20X1.5	12S	12S	21,5	31	24	17		
8C914SFT14	M22X1.5	M22X1.5	14S	14S	22	35	27	19		
8C916SFT16	M24X1.5	M24X1.5	16S	16S	24,5	36.5	30	24		
8C920SFT20	M30X2	M30X2	20S	20S	26,5	44.5	36	27		
8C925SFT25	M36X2	M36X2	25S	25S	30	50	46	36		
8C930SFT30	M42X2	M42X2	30S	30S	35,5	55	50	41		
8C938SFT38	M52X2	M52X2	38S	38S	41	63	60	50		

Fittings delivered without union nut or cutting ring.

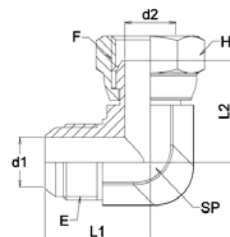
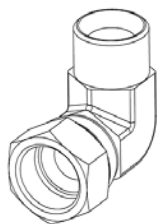
90° elbow Male ORFS X Swivel Female ORFS

E90 MORFS X FSORFS

PT589	ORFS (E)	ORFS (F)	L1	L2	d1	d2	H2	SP		
1FS19001	9/16-18f	9/16-18f	21.5	26.4	4,5	4	19	14		
1FS19010	11/16-16f	11/16-16f	25	29.2	6,5	6,5	22	19		
1FS19020	13/16-16f	13/16-16f	28	37.9	9,5	9	24	19		
1FS19030	1"-14f	1"-14f	33.3	41.2	12.5	11,5	30	27		
1FS19040	1"3/16-12f	1"3/16-12f	37.3	46.3	15,5	14	36	30		
1FS19050	1"7/16-12f	1"7/16-12f	41.7	53.3	20,5	20	41	36		
1FS19060	1"11/16-12f	1"11/16-12f	44.7	58.2	26	26	50	41		
1FS19070	2"-12f	2"-12f	48.8	61.2	32	32	60	48		

90° elbow Male JIC X Swivel Female JIC

E90 MJIC X FSJIC

PT516	JIC (E)	JIC (F)	L1	L2	d1	d2	H2	SP		
1SE99478	3/8-24f	3/8-24f	21.1	17.1	3.2	3.2	14	11		
1SE99480	7/16-20f	7/16-20f	22,6	16,7	4,4	4,4	14	11		
1SE99490	1/2-20f	1/2-20f	24,1	17,4	6	6	17	13		
1SE99500	9/16-18f	9/16-18f	26,9	22,3	7,5	7,5	19	14		
1SE99504	9/16-18f	3/4-16f	29	24,4	7,5	9,9	22	19		
1SE99506	3/4-16f	9/16-18f	31,8	23,4	9,9	7,5	19	19		
1SE99510	3/4-16f	3/4-16f	31,8	24,4	9,9	9,9	22	19		
1SE99520	7/8-14f	7/8-14f	36,8	28,4	12,3	12,3	27	22		
1SE99530	1"1/16-12f	1"1/16-12f	42,2	30,1	15,5	15,5	32	27		
1SE99540	1"5/16-12f	1"5/16-12f	46	35,7	21,5	21,5	41	33		
1SE99550	1"5/8-12f	1"5/8-12f	52,3	42,8	27,5	27,5	50	41		
1SE99560	1"7/8-12f	1"7/8-12f	59,2	47,2	33	33	55	48		
1SE99570	2"1/2-12f	2"1/2-12f	77,7	62,1	45	45	75	65		

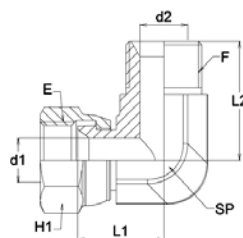
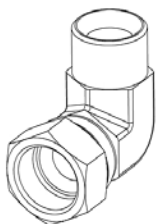
90° elbow Male JIC X Swivel Female BSP



E90 MJIC X FSBSP

PT564	JIC (E)	BSP (F)	L1	L2	d1	d2	H2	SP		
1SE99804	7/16-20f	G1/4-19f	26,6	26	4,4	4,7	19	14		
1SE99808	9/16-18f	G3/8-19f	26	29	7,9	7,5	22	19		
1SE99812	3/4-16f	G1/2-14f	33,8	35	9,9	9,7	27	22		
1SE99816	7/8-14f	G5/8-14f	36	38	14,3	12,3	30	24		
1SE99820	1"1/16-12f	G3/4-14f	40,3	42,2	16,7	15,5	32	27		

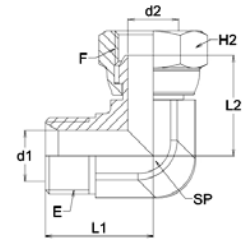
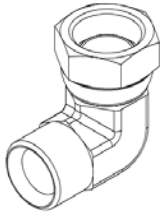
90° elbow Swivel Female JIC X Male BSP



E90 FSJIC X MBSP

PT532	JIC (E)	BSP (F)	L1	L2	d1	d2	H1	SP		
1SE99884	7/16-20f	G1/4-19f	22	26	4,4	4,7	14	14		
1SE99888	9/16-18f	G3/8-19f	21,6	30	7,5	7,9	19	19		
1SE99892	3/4-16f	G1/2-14f	24,5	35,2	9,9	11,1	22	22		
1SE99896	7/8-14f	G5/8-14f	28,4	38	12,3	14,3	27	22		
1SE99900	1"1/16-12f	G3/4-14f	30,1	42	15,5	16,7	32	27		

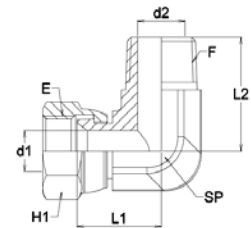
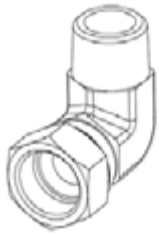
90° elbow Male BSP X Swivel Female BSP



E90 MBSP X FSBSP

PT510	BSP (E)	BSP (F)	L1	L2	d1	d2	H2	SP		
1SE99600	G1/8-28f	G1/8-28f	20	20	3,5	3,5	14	11		
1SE99610	G1/4-19f	G1/4-19f	26	26	4,7	4,7	19	14		
1SE99620	G3/8-19f	G3/8-19f	30	30	7,9	7,9	22	19		
1SE99630	G1/2-14f	G1/2-14f	35	35	11,1	11,1	27	22		
1SE99640	G5/8-14f	G5/8-14f	38	38	14,3	14,3	30	24		
1SE99650	G3/4-14f	G3/4-14f	42	42	16,7	16,7	32	27		
1SE99660	G1"-11f	G1"-11f	47	44	22,2	22,2	41	33		
1SE99670	G1"1/4-11f	G1"1/4-11f	52	49	28,6	28,6	50	41		
1SE99680	G1"1/2-11f	G1"1/2-11f	60	61	33,3	33,3	55	48		
1SE99690	G2"-11f	G2"-11f	70	68	46	46	70	65		

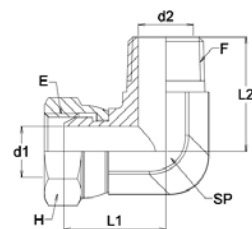
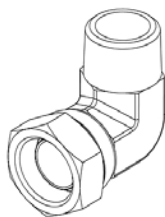
90° elbow Swivel Female JIC X Male BSPT



E90 FSJIC X MR

PT550	JIC (E)	R (F)	L1	L2	d1	d2	H1	SP		
1SE99840	7/16-20f	R1/4-19f	21	26,1	4,4	7	14	14		
1SE99844	9/16-18f	R3/8-19f	21,1	30	7,5	10	19	19		
1SE99848	3/4-16f	R1/2-14f	27	36	9,9	13	22	22		
1SE99852	7/8-14f	R1/2-14f	28,4	36	12,3	13	27	22		
1SE99856	1"1/16-12f	R3/4-14f	30,1	43	15,5	18	32	27		

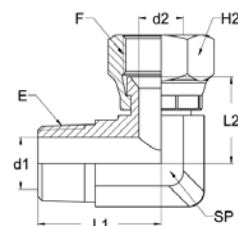
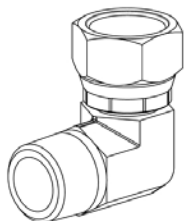
90° elbow Swivel Female BSP X Male BSPT



E90 FSBSP X MR

PT567	BSP (E)	R (F)	L1	L2	d1	d2	H	SP		
1SE99922	G1/8-28f	R1/8-28f	20	20	3,5	4,5	14	11		
1SE99924	G1/4-19f	R1/4-19f	26	26	4,7	7	19	14		
1SE99928	G3/8-19f	R3/8-19f	30	30	7,9	10	22	19		
1SE99932	G1/2-14f	R1/2-14f	35	36	11,1	13	27	22		
1SE99936	G3/4-14f	R3/4-14f	42	43	16,7	18	32	27		
1SE99940	G1"-11f	R1"-11f	44	50	22,2	24	41	33		
1SE99942	G1"1/4-11f	R1"1/4-11f	49	58	28,6	31	50	41		
1SE99944	G1"1/2-11f	R1"1/2-11f	61	63	33,3	38	55	48		

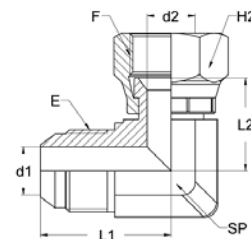
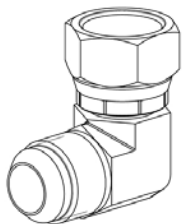
90° elbow Male BSPT X Swivel Female JIS



E90 MR X FSJIS

PT693	R (E)	JIS (F)	L1	L2	d1	d2	H2	SP		
1SP99080	R1/4-19f	G1/4-19f	26	19	7	5	19	14		
1SP99084	R3/8-19f	G3/8-19f	30	21	10	8	22	19		
1SP99088	R1/2-14f	G1/2-14f	36	26	13	11	27	22		
1SP99092	R3/4-14f	G3/4-14f	43	30	18	16	32	27		
1SP99094	R1"-11f	G1"-11f	50	35	24	22	41	33		

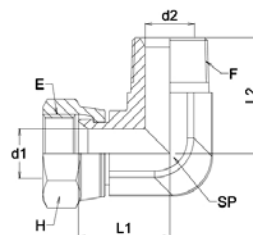
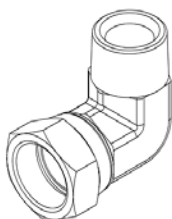
90° elbow Male JIS X Swivel Female JIS



E90 MJIS X FSJIS

PT694	JIS (E)	JIS (F)	L1	L2	d1	d2	H2	SP		
1SP99460	G1/4-19f	G1/4-19f	28	19	5	5	19	14		
1SP99465	G3/8-19f	G3/8-19f	31.5	21	8	8	22	19		
1SP99470	G1/2-14f	G1/2-14f	38	26	11	11	27	22		
1SP99475	G3/4-14f	G3/4-14f	43	30	16	16	32	27		
1SP99480	G1"-11f	G1"-11f	48.5	35	22	22	41	33		

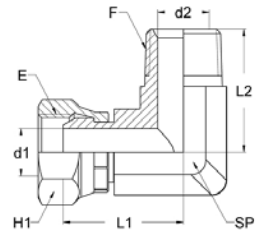
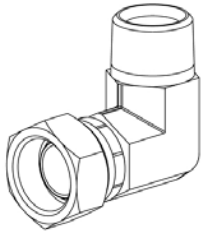
90° elbow Swivel Female JIC X Male NPT



E90 FSJIC X MNPT

PT555	JIC (E)	NPT (F)	L1	L2	d1	d2	H	SP		
1SA99291	7/16-20f	1/8-27f	16.7	19.8	4.4	4,5	14	11		
1SA99294	7/16-20f	1/4-18f	22	27.7	4.4	6	14	14		
1SA99292	1/2-20f	1/8-27f	17.4	19.8	6	4,5	17	13		
1SA99296	9/16-18f	1/4-18f	22.3	27.7	7.5	6	19	14		
1SA99298	9/16-18f	3/8-18f	21.6	31	7.5	9	19	19		
1SA99302	3/4-16f	3/8-18f	24,4	31	9,9	9	22	19		
1SA99304	7/8-14f	1/2-14f	28,4	37,3	12,3	12	27	22		
1SA99306	1"1/16-12f	3/4-14f	30.1	40.4	15.5	16.5	32	27		
1SA99308	1"5/16-12f	1"-11,5f	35.7	50	21.5	21.5	41	33		

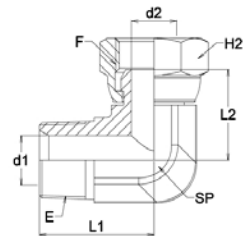
90° elbow Swivel Female BSP X Male NPT



E90 FSBSP X MNPT

PT683	BSP (E)	NPT (F)	L1	L2	d1	d2	H1	SP		
1SB99900	G1"-11f	1"-11,5f	44	50	20.4	21.5	41	33		

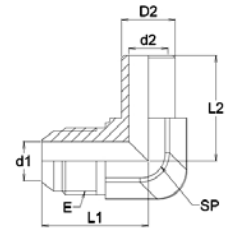
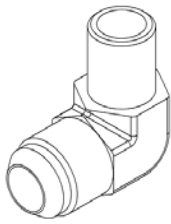
90° elbow Male NPT X Swivel Female NPSM



E90 MNPT X FSNPSM

PT578	NPT (E)	NPSM (F)	L1	L2	d1	d2	H2	SP		
1DI96050	1/8-27f	1/8-27f	19.8	17.8	4.5	4	14	11		
1DI96056	1/8-27f	1/4-18f	23.2	22.4	4.5	5.6	17	14		
1DI96058	1/4-18f	1/8-27f	27.7	20.3	6	4	14	14		
1DI96060	1/4-18f	1/4-18f	27.7	22.4	6	5.6	17	14		
1DI96090	1/4-18f	3/8-18f	31	25.1	6	8.7	22	19		
1DI96070	3/8-18f	1/4-18f	31	24.6	9	5.6	17	19		
1DI96100	3/8-18f	3/8-18f	31	25.1	9	8.7	22	19		
1DI96120	3/8-18f	1/2-14f	32.5	27.4	9	11.9	27	22		
1DI96080	1/2-14f	1/4-18f	37.3	26.5	12	5.6	17	22		
1DI96110	1/2-14f	3/8-18f	37.3	27	12	8.7	22	22		
1DI96130	1/2-14f	1/2-14f	37.3	27.4	12	11.9	27	22		
1DI96150	1/2-14f	3/4-14f	40.4	33	12	16.3	32	27		
1DI96140	3/4-14f	1/2-14f	40.4	30.5	16.5	11.9	27	27		
1DI96160	3/4-14f	3/4-14f	40.4	33	16.5	16.3	32	27		
1DI96175	3/4-14f	1"-11,5f	45.1	37.2	16.5	21.4	38	33		
1DI96170	1"-11,5f	3/4-14f	50	37.2	21.5	16.3	32	33		
1DI96180	1"-11,5f	1"-11,5f	50	37.2	21.5	21.4	38	33		
1DI96182	1"-11,5f	1"1/4-11,5f	59.8	44.7	21.5	29	50	41		
1DI96190	1"1/4-11,5f	1"1/4-11,5f	60.5	44.7	28.5	29	50	41		
1DI96194	1"1/2-11,5f	1"1/4-11,5f	67.1	48.6	35	29	50	48		
1DI96195	1"1/4-11,5f	1"1/2-11,5f	66.3	51.3	28.5	34.5	55	48		
1DI96200	1"1/2-11,5f	1"1/2-11,5f	67.1	51.3	35	34.5	55	48		
1DI96210	2"-11,5f	2"-11,5f	76.2	63.5	46	46.1	70	65		

90° elbow Male JIC X Butt Welding not galvanized

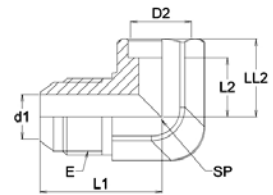
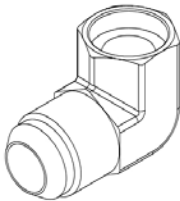


E90 MJIC X BW WZ

PT660	JIC (E)	BUW (D2)	L1	L2	d1	d2	SP			
1SW14013	7/16-20f	6.35	22.6	22,5	4,4	3,6	11			
1SW14014	9/16-18f	9.52	26.9	22,5	7,5	4,7	14			
1SW19024	3/4-16f	10	31,8	22	22	9,9	19			
1SW22035	7/8-14f	15.87	36.8	31	12,3	9,7	22			
1SW27045	1"1/16-12f	19.05	42.2	34,5	15,5	13	27			
1SW34055	1"5/16-12f	25.40	46	41	21,5	17,5	33			
1SW42065	1"5/8-12f	31.75	52.3	43	27,5	25	41			
1SW50075	1"7/8-12f	38.10	59.2	53	33	30	48			

EN-Seule la partie JIC est prise en compte

90° elbow Male JIC X Socket Welding not galvanized

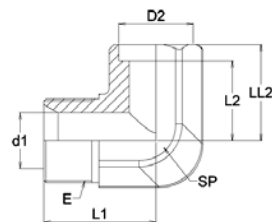
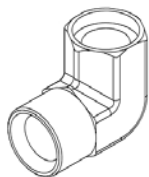


E90 MJIC X SW WZ

PT659	JIC (E)	SOW (D2)	L1	L2	LL2	d1	SP			
1SW14012	1/2-20f	6	24,1	20	20	6	14			
1SW14016	9/16-18f	7,5	26,9	20	20	7,5	14			
1SW22034	7/8-14f	12,5	36,8	26	26	12,3	22			

EN-Seule la partie JIC est prise en compte

90° elbow Male BSP x Socket Welding

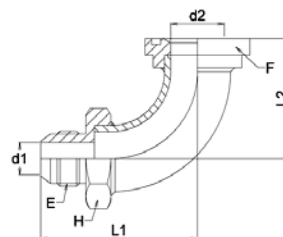
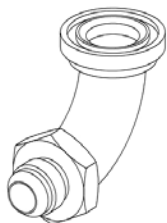


E90 MBSP x SW

PT515	BSP (E)	SOW (D2)	L1	L2	LL2	d1	SP			
1SW14010	G1/4-19f	6	26	20	20	4.7	14			
1SW19020	G3/8-19f	10	30	22	22	7.9	19			
1SW22030	G1/2-14f	12.5	35	28	28	11.1	22			
1SW22060	G1"-11f	21.5	47	36	36	22.2	33			

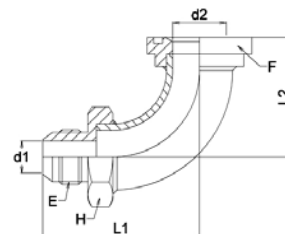
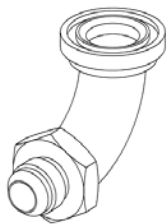
EN-Seule la partie BSP est prise en compte

90° elbow Male JIC X SAE flange series 3000



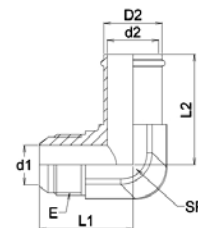
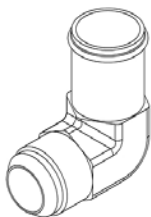
E90 MJIC X FS3

PT632	JIC (E)	SAE (F)	L1	L2	d1	d2	H			
1FB99500	7/8-14f	1/2	53	58	12,3	10	22			
1FB99050	7/8-14f	1/2	48	59	10	10	22			
1FB99060	1"1/16-12f	3/4	65	47	15,5	15	27			
1FB99510	1"1/16-12f	1/2	52	61	10	10	27			
1FB99066	1"1/16-12f	1"1/4	76	58	26	26	42			
1FB99070	1"5/16-12f	1"	74	58	20	20	36			
1FB99080	1"5/8-12f	1"1/4	78	58	26	26	46			
1FB99085	1"5/8-12f	1"1/2	97	77,5	26	32	46			
1FB99090	1"7/8-12f	1"1/2	101	76	32	32	50			
1FB99100	2"1/2-12f	2"	126	102	44	44	65			

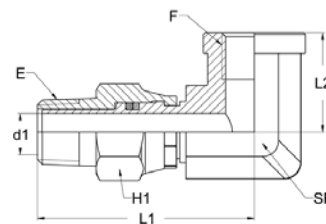
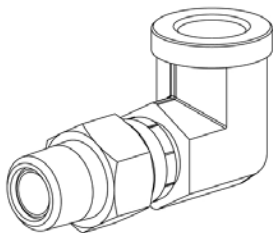
90° elbow Male JIC X SAE flange series 6000

E90 MJIC X FS6

PT632B	JIC (E)	SAE (F)	L1	L2	d1	d2	H			
1FB99520	1"1/16-12f	3/4	63	52	16	16	27			
1FB99530	1"5/16-12f	3/4	65	78	16	16	36			
1FB99540	1"5/16-12f	1"	75	61	20	20	36			
1FB99550	1"5/8-12f	1"	76	63	20	20	42			
1FB99560	1"5/8-12f	1"1/4	88	78	32	32	50			
1FB99570	1"7/8-12f	1"1/4	95	76	26	26	50			
1FB99580	1"7/8-12f	1"1/2	98	88	32	32	50			
1FB99590	2"1/2-12f	2"	188	118	44	44	65			

EN-Seule la partie JIC est prise en compte

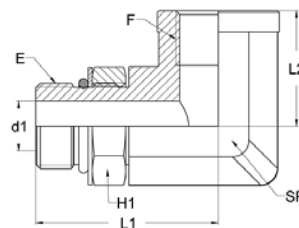
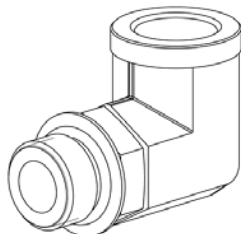
90° elbow Male JIC X Male tails serrated

E90 MJIC X HOSN

PT626	JIC (E)	HOSN (D2)	L1	L2	d1	d2	SP	FORM		
1QX96600	7/8-14f	19	36.8	55	12.3	15	22	X		
1QX96610	1"1/16-12f	25	42.2	58	15.5	21	27	X		
1QX96622	1"5/16-12f	32	46	71	21.5	28	33	X		

90° elbow Swivel Male BSPT X Female BSPP

E90 MSR X FG

PT668	R (E)	G (F)	L1	L2	d1	H1	SP			
1WA10162	R1/8-28f	G1/8-28f	25	7	7.3	12	14			

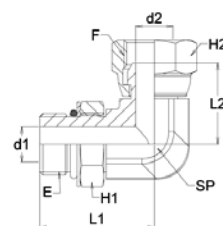
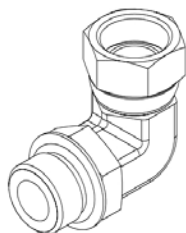
90° elbow Adjustable Male SAE + O-Ring X Female BSPT



E90 ADJSAE +OR X FR

PT669	SAE (E)	R (F)	L1	L2	d1	H1	SP			
1SB99700	3/4-16f	R3/8-19f	39,8	15,5	11	25	30			
1SB99705	7/8-14f	R3/8-19f	42	16	12	27	30			
1SB99710	7/8-14f	R3/4-14f	45	19,2	12,3	27	32			
1SB99715	1"1/16-12f	R3/4-14f	54,6	20,5	15,8	32	35			

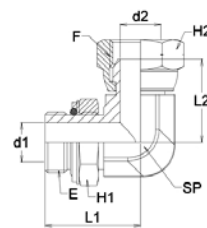
90° elbow Adjustable Male SAE + O-Ring X Swivel Female NPSM



E90 ADJSAE +OR X FSNPSM

PT580	SAE (E)	NPSM (F)	L1	L2	d1	d2	H1	H2	SP	
1SE99050	7/16-20f	1/4-18f	30.3	22.4	4,4	5,6	14	17	14	
1SE99060	9/16-18f	1/4-18f	31	22,4	7,5	5,6	19	17	14	
1SE99065	9/16-18f	3/8-18f	33.5	25.1	7,5	8.7	17	22	19	
1SE99070	3/4-16f	1/2-14f	39.1	27.4	9.9	11.9	22	27	22	
1SE99080	3/4-16f	3/4-14f	41,2	33	9.9	16.3	22	32	27	
1SE99090	7/8-14f	3/8-18f	43.2	27	12,3	8.7	27	22	22	
1SE99100	7/8-14f	1/2-14f	43.2	27.4	12.3	11.9	27	27	22	
1SE99110	7/8-14f	3/4-14f	45.2	33	12,3	16.3	27	32	27	
1SE99130	1"1/16-12f	1/2-14f	50	30,5	15,5	11,9	32	27	27	
1SE99140	1"1/16-12f	3/4-14f	51	39,5	16,5	15,5	32	32	27	
1SE99150	1"5/16-12f	1"-11,5f	52.1	37.2	21,5	21.4	41	38	33	

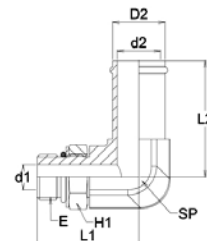
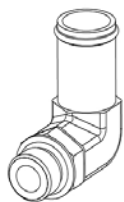
90° elbow Swivel Female BSP X Adjustable Male BSPP + O-Ring + Retaining Ring



E90 FSBSP X ADJG +OR +RR

PT504	BSPS (E)	G (F)	L1	L2	d1	d2	H1	H2	SP	
1SE99005	G1/4-19f	G1/4-19f	31.5	23	7.5	4.7	19	19	14	
1SE99010	G3/8-19f	G3/8-19f	35.8	26	9.9	7.9	19	19	16	
1SE99015	G1/2-14f	G1/2-14f	43.2	31.5	12.3	11.1	27	27	22	
1SE99020	G3/4-14f	G3/4-14f	49.3	40.3	15.5	16.7	32	32	27	
1SE99025	G1"-11f	G1"-11f	53	44.5	21.5	22.2	41	41	33	

90° elbow Adjustable Male SAE + O-Ring X Male tails serrated

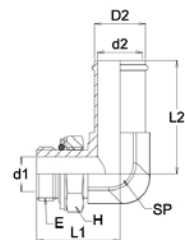
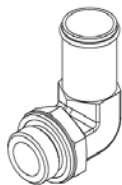


E90 ADJSAE +OR X HOSN

PT655	SAE (E)	HOSN (D2)	L1	L2	d1	d2	H1	SP	FORM	
1QX96045	7/16-20f	5	26,2	27,7	4,4	3	14	12	X	
1QX96055	9/16-18f	8	31,8	35,7	7,5	6	17	14	X	
1QX96057	3/4-16f	10	36,8	37,9	9,9	7	22	19	X	
1QX96060	3/4-16f	19	34,5	50,5	9,9	15	23	24	X	
1QX96065	7/8-14f	13	43,2	40,8	12,3	9,5	27	22	X	
1QX96070	7/8-14f (1)	19	43	49,5	15,8	16	27	24	X	
1QX96075	7/8-14f (1)	19	52,8	51	12,3	16	27	27	X	
1QX96080	7/8-14f (1)	25	50	58,5	16	20	27	35	X	
1QX96085	1"1/16-12f	16	49,3	50,3	15,5	12	32	27	X	
1QX96090	1"1/16-12f	19	44	53	15,5	15	32	30	X	
1QX96100	1"1/16-12f	25	49,3	56,3	15,5	21	32	27	X	
1QX96105	1"5/16-12f	19	51,2	55	21,5	15	41	35	X	
1QX96110	1"5/16-12f	25	51,5	56	21,5	20	41	41	X	
1QX96115	1"5/16-12f	32	47,5	60	21,5	27,5	41	35	X	
1QX96116	1"5/16-12f	38	50	56	24,5	34,5	41	40	X	
1QX96118	1"5/8-12f	25	57	60	27,5	21	50	46	X	

EN-Seule la partie SAE est prise en compte

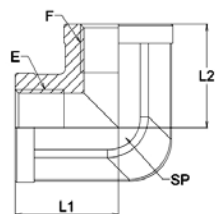
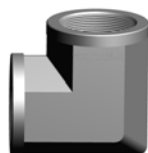
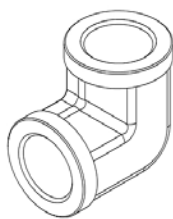
90° elbow Adjustable Male BSPP + O-Ring + Retaining Ring X Male tails serrated



E90 ADJG +OR +RR X HOSN

PT627	G (E)	HOSN (D2)	L1	L2	d1	d2	H	SP	FORM	
1QX96400	G3/4-14f	25	47	54	16,7	21	32	32	X	
1QX96490	G1"-11f	32	57	60	23	28	41	33	X	
1QX96500	G1"1/4-11f	32	59	68	28	28	50	45	X	

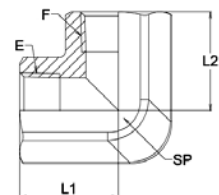
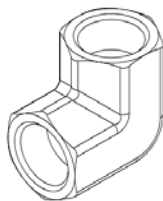
90° elbow Female BSPP X Female BSPP



E90 FG X FG

PT521	G (E)	G (F)	L1	L2	SP					
1WA10050	G1/8-28f	G1/8-28f	17	17	14					
1WA10060	G1/4-19f	G1/4-19f	22	22	19					
1WA10070	G3/8-19f	G3/8-19f	26	26	22					
1WA10080	G1/2-14f	G1/2-14f	32	32	27					
1WA10085	G5/8-14f	G5/8-14f	34	34	30					
1WA10090	G3/4-14f	G3/4-14f	36	36	33					
1WA10100	G1"-11f	G1"-11f	42	42	41					
1WA10110	G1"1/4-11f	G1"1/4-11f	46	46	50					
1WA10120	G1"1/2-11f	G1"1/2-11f	52	52	60					
1WA10130	G2"-11f	G2"-11f	60	60	70					

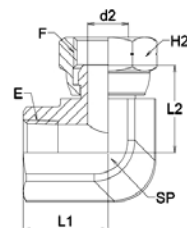
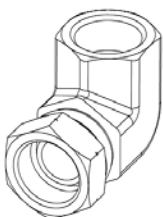
90° elbow Female NPT X Female NPT



E90 FNPT X FNPT

PT573	NPT (E)	NPT (F)	L1	L2	SP					
1SC99010	1/8-27f	1/8-27f	16,8	16,8	14					
1SC99015	1/4-18f	1/4-18f	22,4	22,4	19					
1SC99020	3/8-18f	3/8-18f	25,9	25,9	22					
1SC99025	1/2-14f	1/2-14f	31,2	31,2	27					
1SC99030	3/4-14f	3/4-14f	34,5	34,5	33					
1SC99035	1"-11,5f	1"-11,5f	41,1	41,1	41					
1SC99040	1"1/4-11,5f	1"1/4-11,5f	43,2	43,2	48					
1SC99045	1"1/2-11,5f	1"1/2-11,5f	52,8	52,8	65					
1SC99050	2"-11,5f	2"-11,5f	60,7	60,7	70					

90° elbow Female NPT X Swivel Female NPSM

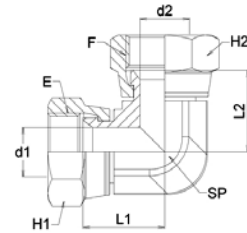


E90 FNPT X FSNPSM

PT614	NPT (E)	NPSM (F)	L1	L2	d2	H2	SP			
1DI96400	1/8-27f	1/8-27f	16,8	20,3	4	14	14			
1DI96410	1/4-18f	1/4-18f	22,4	25,1	5,6	17	19			
1DI96420	3/8-18f	3/8-18f	25,9	26,9	8,7	22	22			
1DI96430	1/2-14f	1/2-14f	31,2	31,5	11,9	27	27			
1DI96440	3/4-14f	3/4-14f	34,5	37,3	16,3	32	33			
1DI96445	1"-11,5f (1)	3/4-14f	41,1	43,9	16,3	32	41			
1DI96450	1"-11,5f	1"-11,5f	41,1	43,9	21,4	38	41			
1DI96460	1"1/4-11,5f	1"1/4-11,5f	43,2	47,1	29	50	48			
1DI96464	1"1/2-11,5f	1"1/2-11,5f	52,8	61,2	34,5	55	65			

(1) Hexagonal body mechanically brazed.

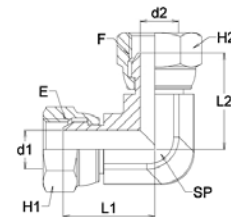
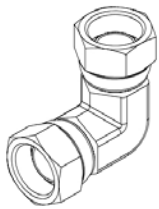
90° elbow Swivel Female JIC X Swivel Female JIC



E90 FSJIC X FSJIC

PT535	JIC (E)	JIC (F)	L1	L2	d1	d2	H1	H2	SP	
1SE99410	7/16-20f	7/16-20f	16,7	16,7	4,4	4,4	15	15	11	
1SE99420	1/2-20f	1/2-20f	17,4	17,4	6	6	17	17	13	
1SE99430	9/16-18f	9/16-18f	22,3	22,3	7,5	7,5	19	19	14	
1SE99440	3/4-16f	3/4-16f	24,4	24,4	9,9	9,9	19	22	22	
1SE99450	7/8-14f	7/8-14f	28,4	28,4	12,3	12,3	27	27	22	
1SE99460	1"1/16-12f	1"1/16-12f	30,1	30,1	15,5	15,5	32	32	27	
1SE99470	1"5/16-12f	1"5/16-12f	30,5	30,5	21,2	21,2	41	41	30	

90° elbow Swivel Female BSP X Swivel Female BSP



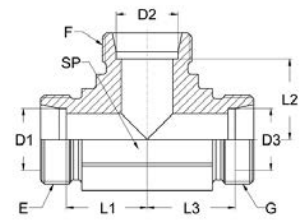
E90 FSBSP X FSBSP

PT565	BSP (E)	BSP (F)	L1	L2	d1	d2	H1	H2	SP	
1SE99700	G1/8-28f	G1/8-28f	20	20	3,5	3,5	14	14	11	
1SE99710	G1/4-19f	G1/4-19f	26	26	4,7	4,7	19	19	14	
1SE99720	G3/8-19f	G3/8-19f	30	30	7,9	7,9	22	22	19	
1SE99730	G1/2-14f	G1/2-14f	35	35	11,1	11,1	27	27	22	
1SE99740	G5/8-14f	G5/8-14f	38	38	14,3	14,3	30	30	24	
1SE99750	G3/4-14f	G3/4-14f	42	42	16,7	16,7	32	32	27	
1SE99760	G1"-11f	G1"-11f	44	44	22,2	22,2	41	41	33	
1SE99770	G1"1/4-11f	G1"1/4-11f	49	49	28,6	28,6	50	50	41	
1SE99780	G1"1/2-11f	G1"1/2-11f	61	61	33,3	33,3	55	55	48	
1SE99790	G2"-11f	G2"-11f	68	68	46	46	70	70	65	

Tees



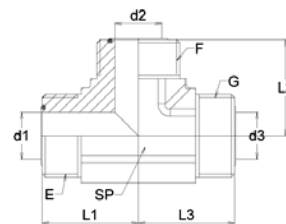
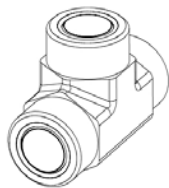
Tee Male 24° X Male 24° X Male 24°



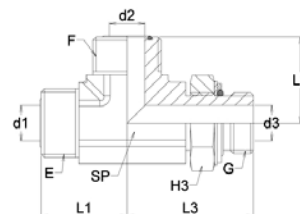
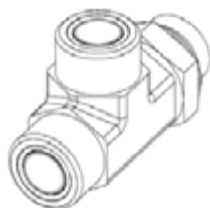
T M24D X M24D X M24D

PT635	24D (E)	24D (F)	24D (G)	d1	d2	d3	L1	L2	L3	SP
8T6L	M12X1.5	M12X1.5	M12X1.5	6L	6L	6L	12	12	12	12
8TM8L6	M14X1.5	M12X1.5	M14X1.5	8L	6L	8L	14	14	14	14
8T8L	M14X1.5	M14X1.5	M14X1.5	8L	8L	8L	14	14	14	12
8TM10L6	M16X1.5	M12X1.5	M16X1.5	10L	6L	10L	15	15	15	19
8TM10L8	M16X1.5	M14X1.5	M16X1.5	10L	8L	10L	15	15	15	19
8T10L	M16X1.5	M16X1.5	M16X1.5	10L	10L	10L	15	15	15	14
8TM12L8	M18X1.5	M14X1.5	M18X1.5	12L	8L	12L	17	17	17	17
8T12L	M18X1.5	M18X1.5	M18X1.5	12L	12L	12L	17	17	17	17
8TM15L10	M22X1.5	M16X1.5	M22X1.5	15L	10L	15L	21	21	21	19
8TM15L12	M22X1.5	M18X1.5	M22X1.5	15L	12L	15L	21	21	21	19
8T15L	M22X1.5	M22X1.5	M22X1.5	15L	15L	15L	21	21	21	19
8TM18L12	M26X1.5	M18X1.5	M26X1.5	18L	12L	18L	23.5	24	23.5	24
8TM18L15	M26X1.5	M22X1.5	M26X1.5	18L	15L	18L	24	24	24	24
8T18L	M26X1.5	M26X1.5	M26X1.5	18L	18L	18L	23.5	23.5	23.5	24
8TM22L15	M30X2	M22X1.5	M30X2	22L	15L	22L	27.5	28	27.5	27
8TM22L18	M30X2	M26X1.5	M30X2	22L	18L	22L	27.5	27.5	27.5	27
8T22L	M30X2	M30X2	M30X2	22L	22L	22L	27.5	27.5	27.5	27
8TM28L18	M36X2	M26X1.5	M36X2	28L	18L	28L	30.5	30.5	30.5	36
8TM28L22	M36X2	M30X2	M36X2	28L	22L	28L	30.5	30.5	30.5	36
8T28L	M36X2	M36X2	M36X2	28L	28L	28L	30.5	30.5	30.5	36
8T35L	M45X2	M45X2	M45X2	35L	35L	35L	34.5	34.5	34.5	41
8T42L	M52X2	M52X2	M52X2	42L	42L	42L	40	40	40	50
8T6S	M14X1.5	M14X1.5	M14X1.5	6S	6S	6S	16	16	16	12
8T8S	M16X1.5	M16X1.5	M16X1.5	8S	8S	8S	17	17	17	14
8T10S	M18X1.5	M18X1.5	M18X1.5	10S	10S	10S	17.5	17.5	17.5	17
8TM12S8	M20X1.5	M16X1.5	M20X1.5	12S	8S	12S	21.5	22	21.5	17
8TM12S10	M20X1.5	M18X1.5	M20X1.5	12S	10S	12S	21.5	21.5	21.5	17
8T12S	M20X1.5	M20X1.5	M20X1.5	12S	12S	12S	21.5	21.5	21.5	17
8T14S	M22X1.5	M22X1.5	M22X1.5	14S	14S	14S	22	22	22	19
8TM16S10	M24X1.5	M18X1.5	M24X1.5	16S	10S	16S	24.5	25.5	24.5	24
8TM16S12	M24X1.5	M20X1.5	M24X1.5	16S	12S	16S	24.5	25.5	24.5	24
8T16S	M24X1.5	M24X1.5	M24X1.5	16S	16S	16S	24.5	24.5	24.5	24
8TM20S12	M30X2	M20X1.5	M30X2	20S	12S	20S	26.5	29.5	26.5	27
8TM20S16	M30X2	M24X1.5	M30X2	20S	16S	20S	26.5	28.5	26.5	27
8T20S	M30X2	M30X2	M30X2	20S	20S	20S	26.5	26.5	26.5	27
8TM25S16	M36X2	M24X1.5	M36X2	25S	16S	25S	30	33.5	30	36
8TM25S20	M36X2	M30X2	M36X2	25S	20S	25S	30	31.5	30	36
8T25S	M36X2	M36X2	M36X2	25S	25S	25S	30	30	30	36
8T30S	M42X2	M42X2	M42X2	30S	30S	30S	35.5	35.5	35.5	41
8T38S	M52X2	M52X2	M52X2	38S	38S	38S	41	41	41	50
8T21G	M30X1.5	M30X1.5	M30X1.5	21G	21G	21G	26.5	26.5	26.5	27

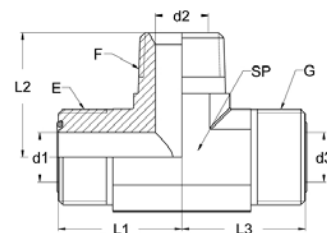
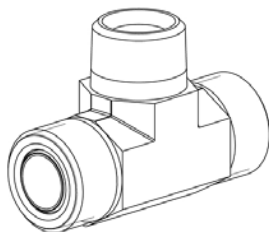
Fittings delivered without union nut or cutting ring.

Tee Male ORFS X Male ORFS X Male ORFS

T MORFS X MORFS X MORFS

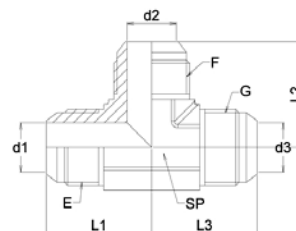
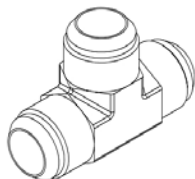
PT595	ORFS (E)	ORFS (F)	ORFS (G)	L1	L2	L3	D1,D2	D3	SP	
1FS40001	9/16-18f	9/16-18f	9/16-18f	21,5	21,5	21,5	4,5	4,5	14	
1FS40010	11/16-16f	11/16-16f	11/16-16f	25	25	25	6,5	6,5	19	
1FS40020	13/16-16f	13/16-16f	13/16-16f	28	28	28	9,5	9,5	19	
1FS40030	1"-14f	1"-14f	1"-14f	33,3	33,3	33,3	12,5	12,5	27	
1FS40040	1"3/16-12f	1"3/16-12f	1"3/16-12f	37,3	37,3	37,3	15,5	15,5	30	
1FS40050	1"7/16-12f	1"7/16-12f	1"7/16-12f	41,7	41,7	41,7	20,5	20,5	36	
1FS40060	1"11/16-12f	1"11/16-12f	1"11/16-12f	44,7	44,7	44,7	26	26	41	
1FS40070	2"-12f	2"-12f	2"-12f	48,8	48,8	48,8	32	32	48	

Tee Male ORFS X Male ORFS X Male BSPP + O-Ring + Retaining Ring

T MORFS X MORFS X MG +OR +RR

PT597	ORFS (E)	ORFS (F)	G (G)	L1	L2	L3	D1, D2	D3	H3	SP
1FS50001	9/16-18f	9/16-18f	G1/8-28f	21.5	21.5	30	4,4	4,4	14	15
1FS50010	9/16-18f	9/16-18f	G1/4-19f	23	23	31.3	4,4	5,8	19	14
1FS50020	11/16-16f	11/16-16f	G1/4-19f	27	27	33.5	6,5	5,6	19	20
1FS50030	11/16-16f	11/16-16f	G3/8-19f	27.5	27.5	36.8	6,6	9,5	22	19
1FS50040	13/16-16f	13/16-16f	G3/8-19f	31	31	39.5	9,4	9,7	22	22
1FS50050	13/16-16f	13/16-16f	G1/2-14f	31	31	43.2	9,4	12	27	22
1FS50060	1"-14f	1"-14f	G1/2-14f	33.5	33.5	48	12,2	12,5	27	28
1FS50070	1"-14f	1"-14f	G3/4-14f	36.5	36.5	49.3	12	15,5	32	28
1FS50080	1"3/16-12f	1"3/16-12f	G3/4-14f	37,3	37,3	49,5	15,5	15,5	36	30
1FS50090	1"3/16-12f	1"3/16-12f	G1"-11f	37,3	37,3	52	15,5	21,5	41	33
1FS50100	1"7/16-12f	1"7/16-12f	G1"-11f	48	48	58	20,6	21,5	41	36
1FS50110	1"11/16-12f	1"11/16-12f	G1"1/4-11f	44,7	44,7	57	26	27,5	50	41
1FS50120	2"-12f	2"-12f	G1"1/2-11f	49	49	64.5	32,2	32,2	60	48

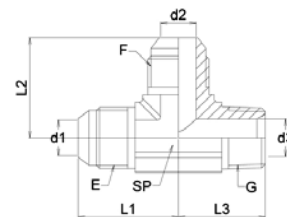
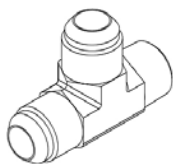
Tee Male ORFS X Male NPT X Male ORFS

T MORFS X MNPT X MORFS

PT700	ORFS (E)	NPT (F)	ORFS (G)	L1,L3	L2	D1,D3	d2	SP		
1FS40100	9/16-18f	1/4-18f	9/16-18f	21,5	27,7	4,5	6	14		
1FS40110	11/16-16f	1/4-18f	11/16-16f	25	31	6,5	6	19		
1FS40105	11/16-16f	3/8-18f	11/16-16f	25	31	6,5	9	19		
1FS40120	11/16-16f	1/2-14f	11/16-16f	26,5	37,3	6,5	12	22		
1FS40130	13/16-16f	1/2-14f	13/16-16f	28	37,3	9,5	12	22		
1FS40140	1"-14f	1/2-14f	1"-14f	33,3	40,4	12,5	12	27		
1FS40145	1"3/16-12f	3/4-14f	1"3/16-12f	37,3	40,4	15,5	16,5	30		
1FS40155	1"7/16-12f	1"-11,5f	1"7/16-12f	41,7	50	20,5	21,5	36		

Tee Male JIC X Male JIC X Male JIC

T MJIC X MJIC X MJIC

PT508	JIC (E)	JIC (F)	JIC (G)	L1	L2	L3	D1,D2	D3	SP	
1SR99120	7/16-20f	7/16-20f	7/16-20f	22,6	22,6	22,6	4,4	4,4	11	
1SR99130	1/2-20f	1/2-20f	1/2-20f	24,1	24,1	24,1	6	6	13	
1SR99140	9/16-18f	9/16-18f	9/16-18f	26,9	26,9	26,9	7,5	7,5	14	
1SR99144	9/16-18f	9/16-18f	3/4-16f	29	29	31,8	7,5	9,9	19	
1SR99146	3/4-16f	3/4-16f	9/16-18f	31,8	31,8	29	9,9	7,5	19	
1SR99150	3/4-16f	3/4-16f	3/4-16f	31,8	31,8	31,8	9,9	9,9	19	
1SR99160	7/8-14f	7/8-14f	7/8-14f	36,8	36,8	36,8	12,3	12,3	22	
1SR99170	1"1/16-12f	1"1/16-12f	1"1/16-12f	42,2	42,2	42,2	15,5	15,5	27	
1SR99180	1"5/16-12f	1"5/16-12f	1"5/16-12f	46	46	46	21,5	21,5	33	
1SR99182	1"5/8-12f	1"5/8-12f	1"5/8-12f	52,3	52,3	52,3	27,5	27,5	41	
1SR99183	1"7/8-12f	1"7/8-12f	1"7/8-12f	59,2	59,2	59,2	33	33	48	

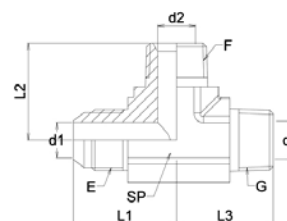
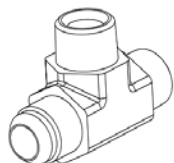
Tee Male JIC X Male JIC X Male NPT



T MJIC X MJIC X MNPT

PT558	JIC (E)	JIC (F)	NPT (G)	L1	L2	L3	D1,D2	D3	SP	
1SR99050	7/16-20f	7/16-20f	1/8-27f	22,6	22,6	19,8	4,4	4,5	11	
1SR99052	7/16-20f	7/16-20f	1/4-18f	26,6	26,6	27,7	4,4	6	14	
1SR99054	1/2-20f	1/2-20f	1/8-27f	24,1	24,1	19,8	6	4,5	13	
1SR99060	9/16-18f	9/16-18f	1/8-27f	26,9	26,9	22,9	7,5	4,5	14	
1SR99070	9/16-18f	9/16-18f	1/4-18f	26,9	26,9	27,7	7,5	6	14	
1SR99072	9/16-18f	9/16-18f	3/8-18f	29	29	31	7,5	9	19	
1SR99080	3/4-16f	3/4-16f	3/8-18f	31,8	31,8	31	9,9	9	19	
1SR99082	3/4-16f	3/4-16f	1/2-14f	33,8	33,8	37,3	9,9	12	22	
1SR99090	7/8-14f	7/8-14f	1/2-14f	36,8	36,8	37,3	12,3	12	22	
1SR99095	7/8-14f	7/8-14f	3/4-14f	39,2	39,2	40,4	12,3	16,5	27	
1SR99100	1"1/16-12f	1"1/16-12f	3/4-14f	42,2	42,2	40,4	15,5	16,5	27	
1SR99110	1"5/16-12f	1"5/16-12f	1"-11,5f	46	46	50	21,5	21,5	33	
1SR99112	1"5/8-12f	1"5/8-12f	1"1/4-11,5f	52,3	52,3	60,5	27,5	28,5	41	

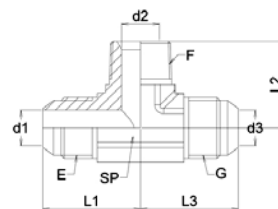
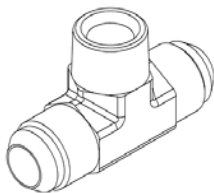
Tee Male JIC X Male NPT X Male NPT



T MJIC X MNPT X MNPT

PT625	JIC (E)	NPT (F)	NPT (G)	L1	L2	L3	d1	d2	d3	SP
1SR99260	7/8-14f	1/2-14f	1/2-14f	36,8	37,3	37,3	12,3	12	12	22

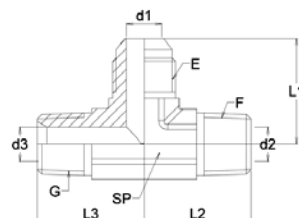
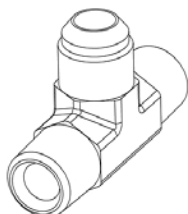
Tee Male JIC X Male NPT X Male JIC



T MJIC X MNPT X MJIC

PT634	JIC (E)	NPT (F)	JIC (G)	L1	L2	L3	D1,D3	d2	SP	
1SR99190	7/16-20f	1/8-27f	7/16-20f	22,6	19,8	22,6	4,4	4,5	11	
1SR99192	7/16-20f	1/4-18f	7/16-20f	26,6	27,7	26,6	4,4	6	14	
1SR99195	1/2-20f	1/8-27f	1/2-20f	24,1	19,8	24,1	6	4,5	13	
1SR99197	1/2-20f	1/4-18f	1/2-20f	26,6	27,7	26,6	6	6	14	
1SR99200	9/16-18f	1/4-18f	9/16-18f	26,9	27,7	26,9	7,5	6	14	
1SR99205	9/16-18f	3/8-18f	9/16-18f	29	31	29	7,5	9	19	
1SR99206	9/16-18f	1/2-14f	9/16-18f	31	37,3	31	7,5	12	22	
1SR99210	3/4-16f	3/8-18f	3/4-16f	31,8	31	31,8	9,9	9	19	
1SR99212	3/4-16f	1/2-14f	3/4-16f	33,8	37,3	33,8	9,9	12	22	
1SR99220	7/8-14f	1/2-14f	7/8-14f	36,8	37,3	36,8	12,3	12	22	
1SR99225	7/8-14f	3/4-14f	7/8-14f	39,2	40,4	39,2	12,3	16,5	27	
1SR99230	1"1/16-12f	3/4-14f	1"1/16-12f	42,2	40,4	42,2	15,5	16,5	27	
1SR99240	1"5/16-12f	1"-11,5f	1"5/16-12f	46	50	46	21,5	21,5	33	
1SR99244	1"5/8-12f	1"1/4-11,5f	1"5/8-12f	52,3	60,5	52,3	27,5	28,5	41	
1SR99246	1"7/8-12f	1"1/2-11,5f	1"7/8-12f	59,2	67,1	59,2	33	35	48	

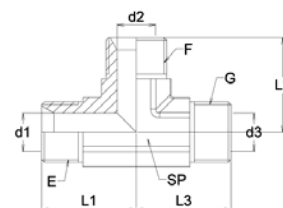
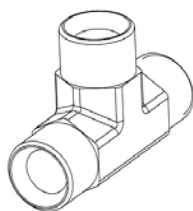
Tee Male NPT X Male JIC X Male NPT



T MNPT X MJIC X MNPT

PT656	NPT (F)	JIC (E)	NPT (G)	L1	L2	L3	d1	D2, D3	SP	
1SR99250	1/4-18f	9/16-18f	1/4-18f	26,9	27,7	27,7	7,5	6	14	
1SR99270	3/8-18f	9/16-18f	3/8-18f	26,9	31	31	7,5	9	19	
1SR99280	1/2-14f	7/8-14f	1/2-14f	36,8	37,3	37,3	12,3	12	22	
1SR99290	3/4-14f	7/8-14f	3/4-14f	39,2	40,4	40,4	12,3	16,5	27	

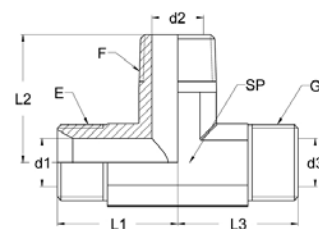
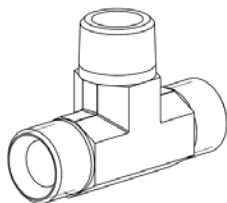
Tee Male BSP X Male BSP X Male BSP



T MBSP X MBSP X MBSP

PT519	BSP (E)	BSP (F)	BSP (G)	L1	L2	L3	D1,D2	D3	SP	
1SV99100	G1/8-28f	G1/8-28f	G1/8-28f	20	20	20	3,5	3,5	11	
1SV99110	G1/4-19f	G1/4-19f	G1/4-19f	26	26	26	4,7	4,7	14	
1SV99115	G3/8-19f	G3/8-19f	G1/4-19f	30	30	29	7,9	4,7	19	
1SV99120	G3/8-19f	G3/8-19f	G3/8-19f	30	30	30	7,9	7,9	19	
1SV99125	G1/2-14f	G1/2-14f	G3/8-19f	35	35	33	11,1	7,9	22	
1SV99130	G1/2-14f	G1/2-14f	G1/2-14f	35	35	35	11,1	11,1	22	
1SV99140	G5/8-14f	G5/8-14f	G5/8-14f	38	38	38	14,3	14,3	24	
1SV99145	G3/4-14f	G3/4-14f	G1/2-14f	42	42	40	16,7	11,1	27	
1SV99150	G3/4-14f	G3/4-14f	G3/4-14f	42	42	42	16,7	16,7	27	
1SV99155	G1"-11f	G1"-11f	G3/4-14f	47	47	44	22,2	16,7	33	
1SV99160	G1"-11f	G1"-11f	G1"-11f	47	47	47	22,2	22,2	33	
1SV99170	G1"1/4-11f	G1"1/4-11f	G1"1/4-11f	52	52	52	28,6	28,6	41	
1SV99180	G1"1/2-11f	G1"1/2-11f	G1"1/2-11f	60	60	60	33,3	33,3	48	
1SV99190	G2"-11f	G2"-11f	G2"-11f	70	70	70	46	46	65	

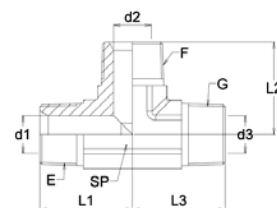
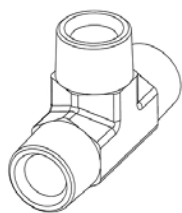
Tee Male BSP X Male BSPT X Male BSP



T MBSP X MR X MBSP

PT682	BSP (E)	R (F)	BSP (G)	L1	L2	L3	d1	d2	d3	SP
1SV99208	G1/2-14f	R1/2-14f	G1/2-14f	35	36	35	11,1	13	11,1	22

Tee Male NPT X Male NPT X Male NPT

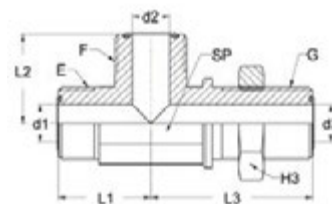
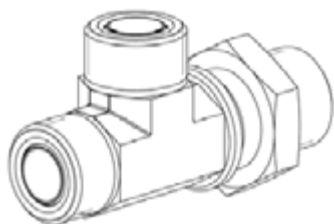


T MNPT X MNPT X MNPT

PT559	NPT (E)	NPT (F)	NPT (G)	L1	L2	L3	D1,D2,	SP		
1SV99039	1/8-27f	1/8-27f	1/8-27f	19,8	19,8	19,8	4,5	11		
1SV99041	1/4-18f	1/4-18f	1/4-18f	27,7	27,7	27,7	6	14		
1SV99043	3/8-18f	3/8-18f	3/8-18f	31	31	31	9	19		
1SV99045	1/2-14f	1/2-14f	1/2-14f	37,3	37,3	37,3	12	22		
1SV99047	3/4-14f	3/4-14f	3/4-14f	40,4	40,4	40,4	16,5	27		
1SV99048	1"-11,5f	1"-11,5f	1"-11,5f	50	50	50	21,5	33		
1SV99049	1"1/4-11,5f	1"1/4-11,5f	1"1/4-11,5f	60,5	60,5	60,5	28,5	41		

EN-Pression majorée avec cône NPSM

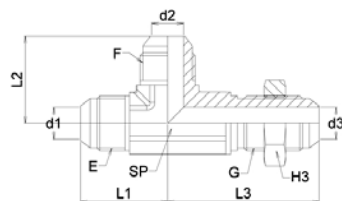
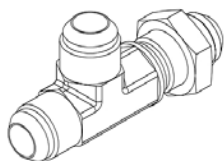
Tee Male ORFS X Male ORFS X Bulkhead Male ORFS + Locknut



T MORFS X MORFS X MBHORFS + LN

PT699	ORFS (E)	ORFS (F)	ORFS (G)	L1,L2	L3	D1,D2	D3	H3	SP	
1FS43001	9/16-18f	9/16-18f	9/16-18f	21,5	47,0	4,5	4,5	22	14	
1FS43010	11/16-16f	11/16-16f	11/16-16f	25	52,0	6,5	6,5	27	19	
1FS43020	13/16-16f	13/16-16f	13/16-16f	28	55,5	9,5	9,5	30	19	
1FS43030	1"-14f	1"-14f	1"-14f	33,3	63	12,5	12,5	36	27	
1FS43040	1"3/16-12f	1"3/16-12f	1"3/16-12f	37,3	67,2	15,5	15,5	41	30	
1FS43050	1"7/16-12f	1"7/16-12f	1"7/16-12f	41,7	71,2	20,5	20,5	46	36	
1FS43060	1"11/16-12f	1"11/16-12f	1"11/16-12f	44,7	75,5	26	26	50	41	

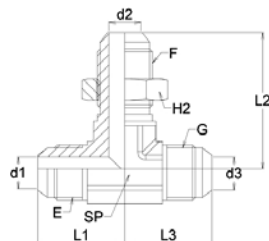
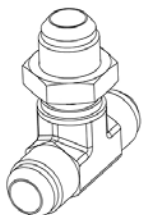
Tee Male JIC X Male JIC X Bulkhead Male JIC + Locknut



T MJIC X MJIC X MBHJIC + LN

PT629	JIC (E)	JIC (F)	JIC (G)	L1	L2	L3	D1,D2	D3	H3	SP
1SR99340	7/16-20f	7/16-20f	7/16-20f	24,6	24,6	40,4	4,4	4,4	17	11
1SR99342	9/16-18f	9/16-18f	9/16-18f	27,7	27,7	46	7,5	7,5	22	14
1SR99344	3/4-16f	3/4-16f	3/4-16f	34,5	34,5	53,6	9,9	9,9	24	19
1SR99346	7/8-14f	7/8-14f	7/8-14f	39,6	39,6	60,7	12,3	12,3	30	22
1SR99348	1"1/16-12f	1"1/16-12f	1"1/16-12f	45,2	45,2	67,8	15,5	15,5	36	27

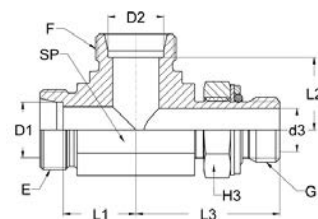
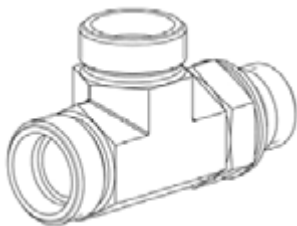
Tee Male JIC X Bulkhead Male JIC + Locknut X Male JIC



T MJIC X MBHJIC + LN X MJIC

PT630	JIC (E)	JIC (F)	JIC (G)	L1	L2	L3	D1, D3	d2	H2	SP
1SR99322	7/16-20f	7/16-20f	7/16-20f	24,6	40,4	24,6	4,4	4,4	17	11
1SR99324	9/16-18f	9/16-18f	9/16-18f	26,9	46	26,9	7,5	7,5	22	14
1SR99326	3/4-16f	3/4-16f	3/4-16f	34,5	53,6	34,5	9,9	9,9	24	19
1SR99328	7/8-14f	7/8-14f	7/8-14f	37,8	60,7	37,8	12,5	12,5	30	22
1SR99330	1"1/16-12f	1"1/16-12f	1"1/16-12f	45,2	67,8	45,2	15,5	15,5	36	27

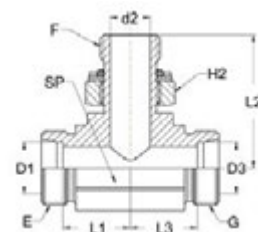
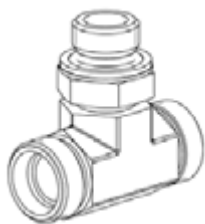
Tee Male 24° X Male 24° X Adjustable Male BSPP + O-Ring + Retaining Ring



T M24D X M24D X ADJG +OR + RR

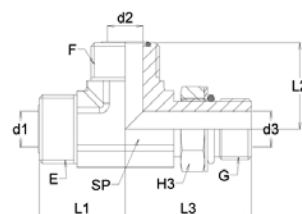
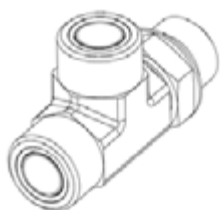
PT648	24D (E,F)	G (G)	D1, D2	L1, L2	L3	H3	SP			
8TRV6LMBJ2	M12X1.5	G1/8-28f	6L	13	26.2	14	11			
8TRV8LMBJ4	M14X1.5	G1/4-19f	8L	15.5	31.3	19	14			
8TRV10LMBJ4	M16X1.5	G1/4-19f	10L	17.5	32.5	19	16			
8TRV12LMBJ6	M18X1.5	G3/8-19f	12L	19	36.8	22	19			
8TRV15LMBJ8	M22X1.5	G1/2-14f	15L	22	43.2	27	22			
8TRV18LMBJ8	M26X1.5	G1/2-14f	18L	25.5	46.5	27	27			
8TRV22LMBJ12	M30X2	G3/4-14f	22L	29.3	52	32	30			
8TRV28LMBJ16	M36X2	G1"-11f	28L	33.3	56	41	36			
8TRV35LMBJ20	M45X2	G1"1/4-11f	35L	39.2	63	50	48			
8TRV6SMBJ4	M14X1.5	G1/4-19f	6S	17.5	31.3	19	14			
8TRV8SMBJ4	M16X1.5	G1/4-19f	8S	18.7	32.5	19	16			
8TRV10SMBJ6	M18X1.5	G3/8-19f	10S	19.5	36.8	22	19			
8TRV12SMBJ6	M20X1.5	G3/8-19f	12S	19.5	36.8	22	19			
8TRV14SMBJ8	M22X1.5	G1/2-14f	14S	23	43.2	27	22			
8TRV16SMBJ8	M24X1.5	G1/2-14f	16S	24	44	27	24			
8TRV20SMBJ12	M30X2	G3/4-14f	20S	28.3	52	32	30			
8TRV25SMBJ16	M36X2	G1"-11f	25S	32.8	56	41	36			
8TRV30SMBJ20	M42X2	G1"1/4-11f	30S	36.2	58	50	41			

Fittings delivered without union nut or cutting ring.

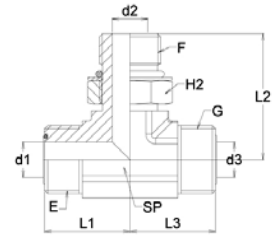
Tee Male 24° X Adjustable Male BSPP + O-Ring + Retaining Ring X Male 24°

T M24D X ADJG +OR +RR X M24D

PT649	24D (E,G)	G (F)	D1, D3	L1, L3	L2	d2	H2	SP		
8TM6LMBJ2	M12X1.5	G1/8-28f	6L	13	26.2	4.4	14	11		
8TM8LMBJ4	M14X1.5	G1/4-19f	8L	15.5	31.3	7.5	19	14		
8TM10LMBJ4	M16X1.5	G1/4-19f	10L	17.5	32.5	7.5	19	16		
8TM12LMBJ6	M18X1.5	G3/8-19f	12L	19	36.8	9.9	22	19		
8TM15LMBJ8	M22X1.5	G1/2-14f	15L	22	43.2	12.3	27	22		
8TM18LMBJ8	M26X1.5	G1/2-14f	18L	25.5	46.5	12.3	27	27		
8TM22LMBJ12	M30X2	G3/4-14f	22L	29.3	52	15.5	32	30		
8TM28LMBJ16	M36X2	G1"-11f	28L	33.3	56	21.5	41	36		
8TM35LMBJ20	M45X2	G1"1/4-11f	35L	39.2	63	27.5	50	48		
8TM6SMBJ4	M14X1.5	G1/4-19f	6S	17.5	31.3	7.5	19	14		
8TM8SMBJ4	M16X1.5	G1/4-19f	8S	18.7	32.5	7.5	19	16		
8TM10SMBJ6	M18X1.5	G3/8-19f	10S	19.5	36.8	9.9	22	19		
8TM12SMBJ6	M20X1.5	G3/8-19f	12S	19.5	36.8	9.9	22	19		
8TM14SMBJ8	M22X1.5	G1/2-14f	14S	23	43.2	12.3	27	22		
8TM16SMBJ8	M24X1.5	G1/2-14f	16S	24	44	12.3	27	24		
8TM20SMBJ12	M30X2	G3/4-14f	20S	28.3	52	15.5	32	30		
8TM25SMBJ16	M36X2	G1"-11f	25S	32.8	56	21.5	41	36		
8TM30SMBJ20	M42X2	G1"1/4-11f	30S	36.2	58	27.5	50	41		

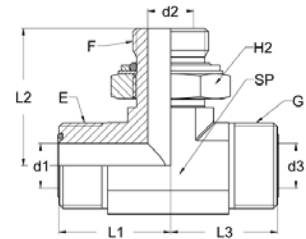
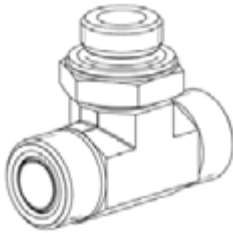
Fittings delivered without union nut or cutting ring.

Tee Male ORFS X Male ORFS X Adjustable Male SAE + O-Ring

T MORFS X MORFS X ADJSAE +OR

PT598	ORFS (E)	ORFS (F)	SAE (G)	L1	L2	L3	D1, D2	D3	H3	SP
1FS48001	9/16-18f	9/16-18f	7/16-20f	21.5	21.5	32.7	4,5	4,5	14	14
1FS48010	11/16-16f	11/16-16f	9/16-18f	25	25	36.8	6,5	6,5	17	19
1FS48020	13/16-16f	13/16-16f	3/4-16f	28	28	40.6	9,5	9,5	22	19
1FS48030	1"-14f	1"-14f	7/8-14f	33.3	33.3	50	12,5	12,5	27	27
1FS48040	1"3/16-12f	1"3/16-12f	1"1/16-12f	37.3	37.3	55.1	15,5	15,5	32	30
1FS48050	1"7/16-12f	1"7/16-12f	1"5/16-12f	41.7	41.7	59.7	20,5	20,5	41	36
1FS48060	1"11/16-12f	1"11/16-12f	1"5/8-12f	44.7	44.7	62.2	26	26	50	41
1FS48070	2"-12f	2"-12f	1"7/8-12f	48.8	48.8	65.8	32	32	55	48

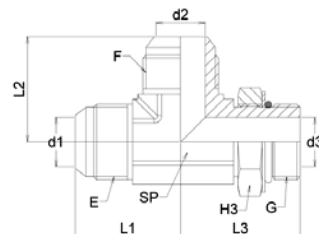
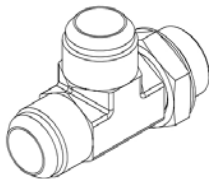
Tee Male ORFS X Adjustable Male SAE + O-Ring X Male ORFS

T MORFS X ADJSAE +OR X MORFS

PT599	ORFS (E)	SAE (F)	ORFS (G)	L1	L2	L3	D1,D3	d2	H2	SP
1FS41001	9/16-18f	7/16-20f	9/16-18f	23	30,3	23	4,5	4,5	17	14
1FS41010	11/16-16f	9/16-18f	11/16-16f	27,5	35,5	27,5	6,5	7,5	19	19
1FS41020	13/16-16f	3/4-16f	13/16-16f	31	40,5	31	9,5	9,5	24	22
1FS41030	1"-14f	7/8-14f	1"-14f	34,5	50	34,5	12,5	12,5	27	27
1FS41040	1"3/16-12f	1"1/16-12f	1"3/16-12f	40,3	55,3	40,3	15,5	15,5	32	30
1FS41050	1"7/16-12f	1"5/16-12f	1"7/16-12f	41,5	59,3	41,5	20,5	20,5	41	36
1FS41060	1"11/16-12f	1"5/8-12f	1"11/16-12f	47,5	60,5	47,5	26	27,5	50	41
1FS41070	2"-12f	1"7/8-12f	2"-12f	53,5	68	53,5	32	33	55	50

Tee Male ORFS X Adjustable Male BSPP + O-Ring + Retaining Ring X Male ORFS

T MORFS X ADJG +OR +RR X MORFS

PT696	ORFS (E)	G (F)	ORFS (G)	L1	L2	L3	D1,D3	d2	H2	SP
1FS42001	9/16-18f	G1/8-28f	9/16-18f	22,5	26,5	22,5	4,5	4,4	14	14
1FS42010	9/16-18f	G1/4-19f	9/16-18f	22,5	32	22,5	4,5	7,5	19	14
1FS42020	11/16-16f	G1/4-19f	11/16-16f	26	32	26	6,5	7,5	19	19
1FS42030	11/16-16f	G3/8-19f	11/16-16f	26	37	26	6,5	9,9	22	19
1FS42040	13/16-16f	G3/8-19f	13/16-16f	29	37	29	9,5	9,9	22	19
1FS42050	13/16-16f	G1/2-14f	13/16-16f	29	43	29	9,5	12,3	27	22
1FS42060	1"-14f	G1/2-14f	1"-14f	34,5	43	34,5	12,5	12,3	27	27
1FS42070	1"-14f	G3/4-14f	1"-14f	34,5	49,5	34,5	12,5	15,5	36	27
1FS42080	1"3/16-12f	G3/4-14f	1"3/16-12f	38,5	49,5	38,5	15,5	15,5	36	30
1FS42090	1"7/16-12f	G1"-11f	1"7/16-12f	42,5	52	42,5	20,5	21,5	41	36
1FS42100	1"11/16-12f	G1"1/4-11f	1"11/16-12f	45,5	57	45,5	26	27,5	50	41
1FS42110	2"-12f	G1"1/2-11f	2"-12f	49,5	60,5	49,5	32	33	55	48

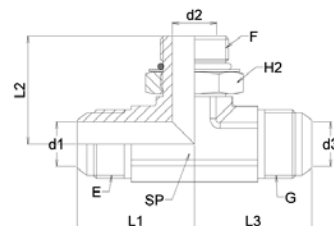
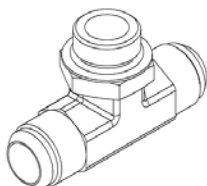
Tee Male JIC X Male JIC X Adjustable Male SAE + O-Ring



T MJIC X MJIC X ADJSAE +OR

PT513	JIC (E)	JIC (F)	SAE (G)	L1	L2	L3	D1,D2	D3	H3	SP
1SS99050	7/16-20f	7/16-20f	7/16-20f	22,6	22,6	26,2	4,4	4,4	14	11
1SS99060	1/2-20f	1/2-20f	1/2-20f	24,1	24,1	28,7	6	6	17	13
1SS99062	9/16-18f	9/16-18f	9/16-18f	26,9	26,9	31,8	7,5	7,5	17	14
1SS99064	3/4-16f	3/4-16f	3/4-16f	31,8	31,8	36,8	9,9	9,9	22	19
1SS99066	7/8-14f	7/8-14f	7/8-14f	36,8	36,8	43,2	12,3	12,3	27	22
1SS99068	1"1/16-12f	1"1/16-12f	1"1/16-12f	42,2	42,2	49,3	15,5	15,5	32	27
1SS99072	1"5/16-12f	1"5/16-12f	1"5/16-12f	46	46	52,1	21,5	21,5	41	33
1SS99074	1"5/8-12f	1"5/8-12f	1"5/8-12f	52,3	52,3	57,2	27,5	27,5	50	41
1SS99076	1"7/8-12f	1"7/8-12f	1"7/8-12f	59,2	59,2	60,7	33	33	55	48

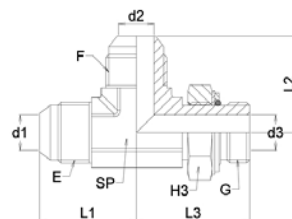
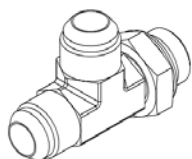
Tee Male JIC X Adjustable Male SAE + O-Ring X Male JIC



T MJIC X ADJSAE +OR X MJIC

PT543	JIC (E)	SAE (F)	JIC (G)	L1	L2	L3	D1,D2	D3	H2	SP
1SS99100	7/16-20f	7/16-20f	7/16-20f	22,6	26,2	22,6	4,4	4,4	14	11
1SS99104	1/2-20f	1/2-20f	1/2-20f	24,1	28,7	24,1	6	6	17	13
1SS99108	9/16-18f	9/16-18f	9/16-18f	26,9	31,8	26,9	7,5	7,5	17	14
1SS99109	9/16-18f	3/4-16f	9/16-18f	29	36,8	29	7,5	9,9	22	19
1SS99112	3/4-16f	3/4-16f	3/4-16f	31,8	36,8	31,8	9,9	9,9	22	19
1SS99116	7/8-14f	7/8-14f	7/8-14f	36,8	43,2	36,8	12,3	12,3	27	22
1SS99120	1"1/16-12f	1"1/16-12f	1"1/16-12f	42,2	49,3	42,2	15,5	15,5	32	27
1SS99122	1"3/16-12f	1"3/16-12f	1"3/16-12f	45,7	50,8	45,7	18	18	36	33
1SS99124	1"5/16-12f	1"5/16-12f	1"5/16-12f	46	52,1	46	21,5	21,5	41	33
1SS99126	1"5/8-12f	1"5/8-12f	1"5/8-12f	52,3	57,2	52,3	27,5	27,5	50	41
1SS99128	1"7/8-12f	1"7/8-12f	1"7/8-12f	59,2	60,7	59,2	33	33	55	48

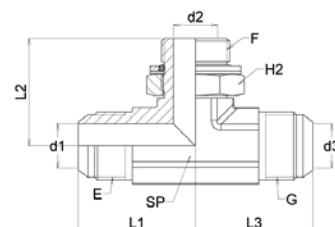
Tee Male JIC X Male JIC X Adjustable Male BSPP + O-Ring + Retaining Ring



T MJIC X MJIC X ADJG +OR + RR

PT500	JIC (E)	JIC (F)	G (G)	L1	L2	L3	D1,D2	D3	H3	SP
1SR99430	7/16-20f	7/16-20f	G1/8-28f	22,6	22,6	26,5	4,4	4,4	14	11
1SR99432	1/2-20f	1/2-20f	G1/8-28f	24,1	24,1	26,5	6	4,4	14	13
1SR99433	1/2-20f	1/2-20f	G1/4-19f	26,6	26,6	32	6	7,5	19	14
1SR99434	9/16-18f	9/16-18f	G1/4-19f	26,9	26,9	32	7,5	7,5	19	14
1SR99436	9/16-18f	9/16-18f	G3/8-19f	29	29	37	7,5	9,9	22	19
1SR99438	3/4-16f	3/4-16f	G3/8-19f	32	32	36,8	9,9	9,5	22	19
1SR99439	3/4-16f	3/4-16f	G1/2-14f	33,8	33,8	43	9,9	12,3	27	22
1SR99440	7/8-14f	7/8-14f	G1/2-14f	36,8	36,8	43	12,3	12,3	27	22
1SR99444	1"1/16-12f	1"1/16-12f	G3/4-14f	42,2	42,2	49,5	15,5	15,5	36	27
1SR99445	1"1/16-12f	1"1/16-12f	G1"-11f	44,7	44,7	52	15,5	21,5	41	33
1SR99446	1"5/16-12f	1"5/16-12f	G1"-11f	46	46	52	21,5	21,5	41	33
1SR99448	1"5/8-12f	1"5/8-12f	G1"1/4-11f	52,3	52,3	57	27,5	27,5	50	41
1SR99450	1"7/8-12f	1"7/8-12f	G1"1/2-11f	59,2	59,2	60,5	33	33	55	48

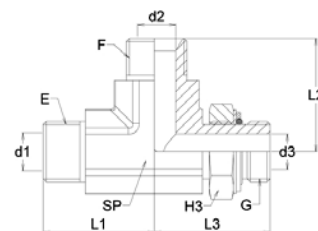
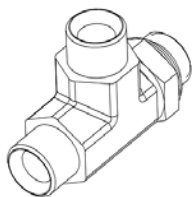
Tee Male JIC X Adjustable Male BSPP + O-Ring + Retaining Ring X Male JIC



T MJIC X ADJG +OR +RR X MJIC

PT545	JIC (E)	G (F)	JIC (G)	L1	L2	L3	D1, D3	d2	H2	SP
1SR99400	7/16-20f	G1/8-28f	7/16-20f	22,6	26,5	22,6	4,4	4,4	14	11
1SR99401	7/16-20f	G1/4-19f	7/16-20f	26,6	31,8	26,6	4,4	6	19	14
1SR99402	1/2-20f	G1/8-28f	1/2-20f	24,1	26,5	24,1	6	4,4	14	13
1SR99403	1/2-20f	G1/4-19f	1/2-20f	26,6	31,8	26,6	6	6	19	14
1SR99404	9/16-18f	G1/4-19f	9/16-18f	26,9	32	26,9	7,5	7,5	19	14
1SR99406	9/16-18f	G3/8-19f	9/16-18f	29	37	29	7,5	9,9	22	19
1SR99408	3/4-16f	G3/8-19f	3/4-16f	33	37	33	9,9	9,9	22	19
1SR99409	3/4-16f	G1/2-14f	3/4-16f	33,8	43	33,8	9,9	12,3	27	22
1SR99410	7/8-14f	G1/2-14f	7/8-14f	37,8	43,5	37,8	12,3	12,3	27	22
1SR99414	1"1/16-12f	G3/4-14f	1"1/16-12f	44,2	51	44,2	15,5	15,5	32	27
1SR99416	1"5/16-12f	G1"-11f	1"5/16-12f	46	52	46	21,5	21,5	41	33
1SR99418	1"5/8-12f	G1"1/4-11f	1"5/8-12f	52,3	57	52,3	27,5	27,5	50	41

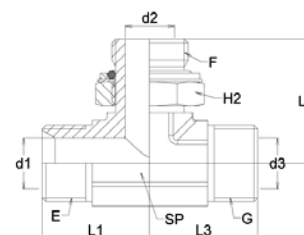
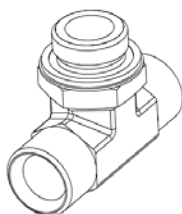
Tee Male BSP X Male BSP X Adjustable Male BSPP + O-Ring + Retaining Ring



T MBSP X MBSP X ADJG +OR +RR

PT539	BSP (E)	BSP (F)	G (G)	L1	L2	L3	D1,D2	D3	H3	SP
1SR99600	G1/8-28f	G1/8-28f	G1/8-28f	20	20	26	3,5	4,4	14	11
1SR99603	G1/4-19f	G1/4-19f	G1/4-19f	26	26	35	4,7	7,5	19	14
1SR99606	G3/8-19f	G3/8-19f	G3/8-19f	30	30	36	7,9	9,9	22	19
1SR99609	G1/2-14f	G1/2-14f	G1/2-14f	35	35	43	11,1	11,1	27	22
1SR99612	G3/4-14f	G3/4-14f	G3/4-14f	42	42	47	15,5	15,5	36	27
1SR99615	G1"-11f	G1"-11f	G1"-11f	47	47	54	21,5	21,5	41	33

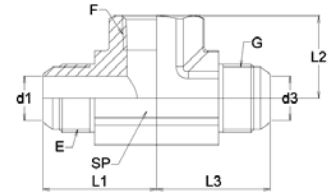
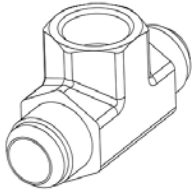
Tee Male BSP X Adjustable Male BSPP + O-Ring + Retaining Ring X Male BSP



T MBSP X ADJG +OR +RR X MBSP

PT540	BSP (E)	G (F)	BSP (G)	L1	L2	L3	D1,D3	d2	H2	SP
1SR99630	G1/8-28f	G1/8-28f	G1/8-28f	20	26	20	3,5	4,4	14	11
1SR99633	G1/4-19f	G1/4-19f	G1/4-19f	26	35	26	4,7	7,5	19	14
1SR99636	G3/8-19f	G3/8-19f	G3/8-19f	30	36	30	7,9	9,9	22	19
1SR99639	G1/2-14f	G1/2-14f	G1/2-14f	35	43	35	11,1	12,3	27	22
1SR99642	G3/4-14f	G3/4-14f	G3/4-14f	42	47	42	16,7	15,5	36	27
1SR99645	G1"-11f	G1"-11f	G1"-11f	47	54	47	22,2	21,5	41	33

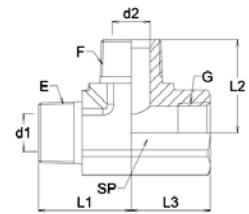
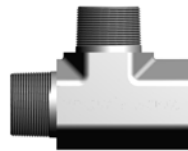
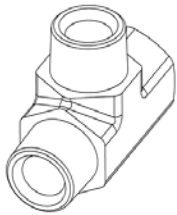
Tee Male JIC X Female NPT X Male JIC



T MJIC X FNPT X MJIC

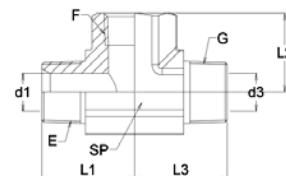
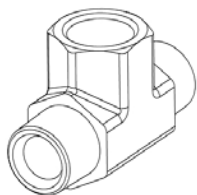
PT612	JIC (E)	NPT (F)	JIC (G)	L1	L2	L3	d1	d3	SP	
1SV99002	1/2-20f	1/4-18f	1/2-20f	30.9	22.4	30.9	6	6	19	
1SV99003	9/16-18f	1/4-18f	9/16-18f	31.2	22.4	31.2	7,5	7,5	19	
1SV99005	9/16-18f	1/2-14f	9/16-18f	35.9	31.2	35.9	7.5	7.5	27	
1SV99010	3/4-16f	1/2-14f	3/4-16f	38.7	31.2	38.7	9,9	9,9	27	

Tee Male NPT X Male NPT X Female NPT

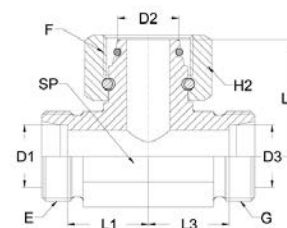
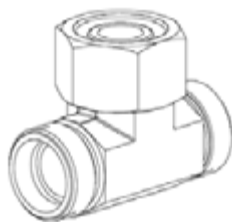


T MNPT X MNPT X FNPT

PT619	NPT (E)	NPT (F)	NPT (G)	L1	L2	L3	d1	d2	SP	
1SV99060	1/8-27f	1/8-27f	1/8-27f	19.8	19.8	16.8	4.5	4.5	14	
1SV99061	1/4-18f	1/4-18f	1/4-18f	27,7	27,7	22,4	6	6	19	
1SV99063	3/8-18f	3/8-18f	3/8-18f	31	31	25,9	9	9	22	
1SV99065	1/2-14f	1/2-14f	1/2-14f	37.3	37.3	31.2	12	12	27	
1SV99067	3/4-14f	3/4-14f	3/4-14f	40.4	40.4	34,5	16.5	16.5	33	
1SV99068	1"-11,5f	1"-11,5f	1"-11,5f	50	50	41.1	21.5	21.5	41	
1SV99069	1"1/4-11,5f	1"1/4-11,5f	1"1/4-11,5f	60.5	60.5	43,2	28,5	28,5	48	

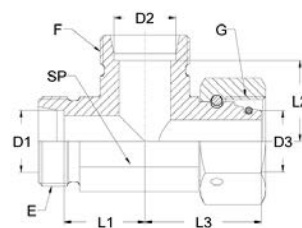
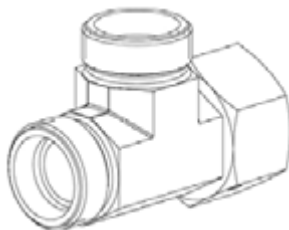
Tee Male NPT X Female NPT X Male NPT

T MNPT X FNPT X MNPT

PT620	NPT (E)	NPT (F)	NPT (G)	L1	L2	L3	d1	d3	SP	
1SV99050	1/8-27f	1/8-27f	1/8-27f	19.8	16.8	19.8	4.5	4.5	14	
1SV99051	1/4-18f	1/4-18f	1/4-18f	27.7	22.4	27.7	6	6	19	
1SV99053	3/8-18f	3/8-18f	3/8-18f	33.5	25	33.5	9	9	24	
1SV99055	1/2-14f	1/2-14f	1/2-14f	37.3	31.2	37.3	12	12	27	
1SV99057	3/4-14f	3/4-14f	3/4-14f	40.4	34.5	40.4	16.5	16.5	33	
1SV99058	1"-11,5f	1"-11,5f	1"-11,5f	50	41.1	50	21.5	21.5	41	
1SV99059	1"1/4-11,5f	1"1/4-11,5f	1"1/4-11,5f	60.5	43.2	60.5	28.5	28.5	48	

Tee Male 24° X Swivel Female 24° + O-Ring X Male 24°

T M24D X FS24D +OR X M24D

PT651	24D (E,G)	24D (F)	D1, D3	d2	L1, L3	L2	SP	H2		
8TM6LFT6	M12X1.5	M12X1.5	6L	6L	12	24.4	12	14		
8TM8LFT8	M14X1.5	M14X1.5	8L	8L	14	25.9	12	17		
8TM10LFT10	M16X1.5	M16X1.5	10L	10L	15	29	14	19		
8TM12LFT12	M18X1.5	M18X1.5	12L	12L	17	28.4	17	22		
8TM15LFT15	M22X1.5	M22X1.5	15L	15L	36	32.5	19	27		
8TM18LFT18	M26X1.5	M26X1.5	18L	18L	23.5	33.9	24	32		
8TM22LFT22	M30X2	M30X2	22L	22L	27.5	36.9	27	36		
8TM28LFT28	M36X2	M36X2	28L	28L	47	41.5	36	41		
8TM35LFT35	M45X2	M45X2	35L	35L	34.5	48	41	50		
8TM42LFT42	M52X2	M52X2	42L	42L	40	52.5	50	60		
8TM6SFT6	M14X1.5	M14X1.5	6S	6S	31	27	12	17		
8TM8SFT8	M16X1.5	M16X1.5	8S	8S	32	27.5	14	19		
8TM10SFT10	M18X1.5	M18X1.5	10S	10S	34	30	17	22		
8TM12SFT12	M20X1.5	M20X1.5	12S	12S	38	31	17	24		
8TM16SFT16	M24X1.5	M24X1.5	16S	16S	43	36.5	24	30		
8TM20SFT20	M30X2	M30X2	20S	20S	48	44.5	27	36		
8TM25SFT25	M36X2	M36X2	25S	25S	54	50	36	46		
8TM30SFT30	M42X2	M42X2	30S	30S	62	55	41	50		
8TM38SFT38	M52X2	M52X2	38S	38S	72	63	50	60		

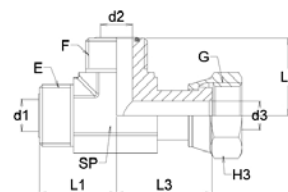
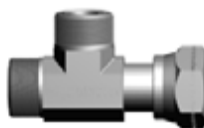
Fittings delivered without union nut or cutting ring.

Tee Male 24° X Male 24° X Swivel Female 24° + O-Ring


T M24D X M24D X FS24D +OR

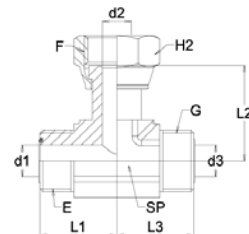
PT653	24D (E,F)	24D (G)	D1, D2	D3	L1, L2	L3	S1			
8TRV6LFT6	M12X1.5	M12X1.5	6L	6L	27	26	12			
8TRV8LFT8	M14X1.5	M14X1.5	8L	8L	29	27.5	12			
8TRV10LFT10	M16X1.5	M16X1.5	10L	10L	30	29	14			
8TRV12LFT12	M18X1.5	M18X1.5	12L	12L	32	29.5	17			
8TRV15LFT15	M22X1.5	M22X1.5	15L	15L	36	32.5	19			
8TRV18LFT18	M26X1.5	M26X1.5	18L	18L	40	35.5	24			
8TRV22LFT22	M30X2	M30X2	22L	22L	44	38.5	27			
8TRV28LFT28	M36X2	M36X2	28L	28L	47	41.5	36			
8TRV35LFT35	M45X2	M45X2	35L	35L	56	51	41			
8TRV42LFT42	M52X2	M52X2	42L	42L	63	56	50			
8TRV6SFT6	M14X1.5	M14X1.5	6S	6S	31	27	12			
8TRV8SFT8	M16X1.5	M16X1.5	8S	8S	32	27.5	14			
8TRV10SFT10	M18X1.5	M18X1.5	10S	10S	34	30	17			
8TRV12SFT12	M20X1.5	M20X1.5	12S	12S	38	31	17			
8TRV16SFT16	M24X1.5	M24X1.5	16S	16S	43	36.5	24			
8TRV20SFT20	M30X2	M30X2	20S	20S	48	44.5	27			
8TRV25SFT25	M36X2	M36X2	25S	25S	54	50	36			
8TRV30SFT30	M42X2	M42X2	30S	30S	62	55	41			

Fittings delivered without union nut or cutting ring.

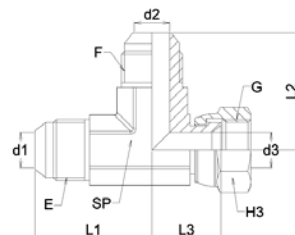
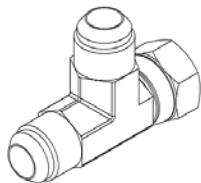
Tee Male ORFS X Male ORFS X Swivel Female ORFS


T MORFS X MORFS X FSORFS

PT600	ORFS (E)	ORFS (F)	ORFS (G)	L1	L2	L3	D1,D2	D3	H3	SP
1FS44001	9/16-18f	9/16-18f	9/16-18f	21.5	21.5	26.4	4,5	4	19	14
1FS44010	11/16-16f	11/16-16f	11/16-16f	25	25	29.2	6,5	6,5	22	19
1FS44020	13/16-16f	13/16-16f	13/16-16f	28	28	37.9	9,5	9	24	19
1FS44030	1"-14f	1"-14f	1"-14f	33.3	33.3	41.2	12,5	11,5	30	27
1FS44040	1"3/16-12f	1"3/16-12f	1"3/16-12f	37.3	37.3	46.3	15,5	14	36	30
1FS44050	1"7/16-12f	1"7/16-12f	1"7/16-12f	41,7	41,7	53,3	20,5	20	41	36
1FS44060	1"11/16-12f	1"11/16-12f	1"11/16-12f	44,7	44,7	58,2	26	26	50	41
1FS44070	2"-12f	2"-12f	2"-12f	48,8	48,8	61.2	32	32	60	48

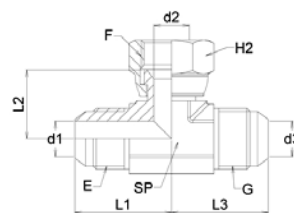
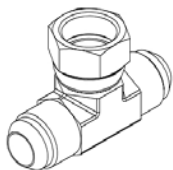
Tee Male ORFS X Swivel Female ORFS X Male ORFS

T MORFS X FSORFS X MORFS

PT601	ORFS (E)	ORFS (F)	ORFS (G)	L1	L2	L3	D1,D3	d2	H2	SP
1FS46001	9/16-18f	9/16-18f	9/16-18f	21.5	26.4	21.5	4,5	4	19	14
1FS46010	11/16-16f	11/16-16f	11/16-16f	25	29.2	25	6,5	6,5	22	19
1FS46020	13/16-16f	13/16-16f	13/16-16f	28	37.9	28	9,5	9	24	19
1FS46030	1"-14f	1"-14f	1"-14f	33.3	41.2	33.3	12,5	11,5	30	27
1FS46040	1"3/16-12f	1"3/16-12f	1"3/16-12f	37.3	46.3	37.3	15,5	14	36	30
1FS46050	1"7/16-12f	1"7/16-12f	1"7/16-12f	41.7	53.3	41.7	20,5	20	41	36
1FS46060	1"11/16-12f	1"11/16-12f	1"11/16-12f	44.7	58.2	44.7	26	26	50	41
1FS46070	2"-12f	2"-12f	2"-12f	48.8	61.2	48.8	32	32	60	48

Tee Male JIC X Male JIC X Swivel Female JIC

T MJIC X MJIC X FSJIC

PT512	JIC (E)	JIC (F)	JIC (G)	L1	L2	L3	D1,D3	d2	H3	SP
1SU99180	7/16-20f	7/16-20f	7/16-20f	22,6	22,6	16,7	4,4	4,4	14	11
1SU99185	1/2-20f	1/2-20f	1/2-20f	24,1	24,1	17,4	6	6	17	13
1SU99190	9/16-18f	9/16-18f	9/16-18f	26,9	26,9	22,3	7,5	7,5	19	14
1SU99200	9/16-18f	3/8-24f	9/16-18f	26,9	21,1	22,3	7,5	3,2	19	14
1SU99210	3/4-16f	3/4-16f	3/4-16f	31,8	31,8	24,4	9,9	9,9	22	19
1SU99220	7/8-14f	7/8-14f	7/8-14f	36,8	36,8	28,4	12,3	12,3	27	22
1SU99230	1"1/16-12f	1"1/16-12f	1"1/16-12f	42,2	42,2	30,1	15,5	15,5	32	27
1SU99250	1"3/16-12f	1"3/16-12f	1"3/16-12f	45,7	45,7	30,5	18	18	36	33
1SU99300	1"5/16-12f	1"5/16-12f	1"5/16-12f	46	46	35,7	21,5	21,5	41	33
1SU99310	1"5/8-12f	1"5/8-12f	1"5/8-12f	52,3	52,3	42,8	27,5	27,5	50	41
1SU99320	1"7/8-12f	1"7/8-12f	1"7/8-12f	59,2	59,2	47,2	33	33	55	48

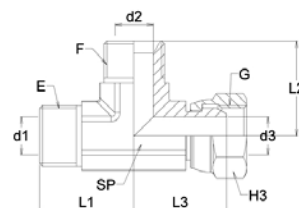
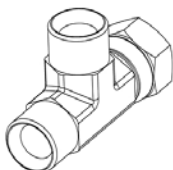
Tee Male JIC X Swivel Female JIC X Male JIC



T MJIC X FSJIC X MJIC

PT517	JIC (E)	JIC (F)	JIC (G)	L1	L2	L3	D1,D3	d2	H2	SP
1SU99060	7/16-20f	7/16-20f	7/16-20f	22,6	16,7	22,6	4,4	4,4	14	11
1SU99070	1/2-20f	1/2-20f	1/2-20f	24,1	17,4	24,1	6	6	17	13
1SU99080	9/16-18f	9/16-18f	9/16-18f	26,9	22,3	26,9	7,5	7,5	19	14
1SU99090	3/4-16f	3/4-16f	3/4-16f	31,8	24,4	31,8	9,9	9,9	22	19
1SU99100	7/8-14f	7/8-14f	7/8-14f	36,8	28,4	36,8	12,3	12,3	27	22
1SU99110	1"1/16-12f	1"1/16-12f	1"1/16-12f	42,2	30,1	42,2	15,5	15,5	32	27
1SU99120	1"5/16-12f	1"5/16-12f	1"5/16-12f	46	35,7	46	21,5	21,5	41	33
1SU99130	1"5/8-12f	1"5/8-12f	1"5/8-12f	52,3	42,8	52,3	27,5	27,5	50	41
1SU99140	1"7/8-12f	1"7/8-12f	1"7/8-12f	59,2	47,2	59,2	33	33	55	48

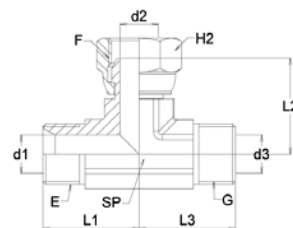
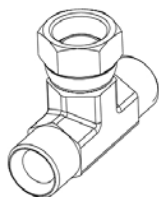
Tee Male BSP X Male BSP X Swivel Female BSP



T MBSP X MBSP X FSBSP

PT511	BSP (E)	BSP (F)	BSP (G)	L1	L2	L3	d1	d2	d3	H3
1SU99442	G1/8-28f	G1/8-28f	G1/8-28f	20	20	20	3,5	3,5	3,5	14
1SU99444	G1/4-19f	G1/4-19f	G1/4-19f	26	26	26	4,7	4,7	4,7	19
1SU99446	G3/8-19f	G3/8-19f	G3/8-19f	30	30	30	7,9	7,9	7,9	22
1SU99447	G1/2-14f	G3/8-19f	G1/2-14f	35	33	35	11,1	7,9	11,1	27
1SU99448	G1/2-14f	G1/2-14f	G1/2-14f	35	35	35	11,1	11,1	11,1	27
1SU99449	G5/8-14f	G5/8-14f	G5/8-14f	38	38	38	14,3	14,3	14,3	30
1SU99445	G3/4-14f	G1/4-19f	G3/4-14f	42	37	42	15,5	4,7	15,5	32
1SU99450	G3/4-14f	G3/8-19f	G3/4-14f	42	38	42	16,7	7,9	16,7	32
1SU99451	G3/4-14f	G1/2-14f	G3/4-14f	42	40	42	16,7	11,1	16,7	32
1SU99452	G3/4-14f	G3/4-14f	G3/4-14f	42	42	42	16,7	16,7	16,7	32
1SU99454	G1"-11f	G1"-11f	G1"-11f	47	47	44	22,2	22,2	22,2	41
1SU99456	G1"1/4-11f	G1"1/4-11f	G1"1/4-11f	52	52	49	28,6	28,6	28,6	50
1SU99458	G1"1/2-11f	G1"1/2-11f	G1"1/2-11f	60	60	63	33,3	33,3	30,8	55
1SU99460	G2"-11f	G2"-11f	G2"-11f	70	70	68	46	46	46	70

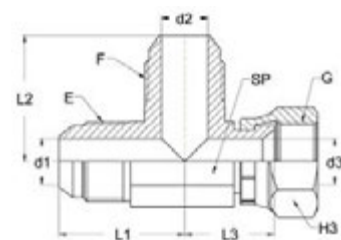
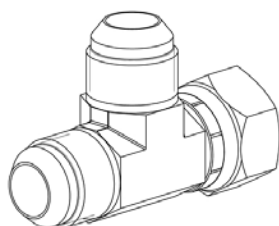
Tee Male BSP X Swivel Female BSP X Male BSP



T MBSP X FSBSP X MBSP

PT604	BSP (E)	BSP (F)	BSP (G)	L1	L2	L3	D1,D2	D3	H2	SP
1SU99402	G1/8-28f	G1/8-28f	G1/8-28f	20	20	20	3,5	3,5	14	11
1SU99404	G1/4-19f	G1/4-19f	G1/4-19f	26	26	26	4,7	4,5	19	14
1SU99406	G3/8-19f	G3/8-19f	G3/8-19f	30	30	30	7,9	7,1	22	19
1SU99408	G1/2-14f	G1/2-14f	G1/2-14f	35	35	35	11,1	9,7	27	22
1SU99410	G5/8-14f	G5/8-14f	G5/8-14f	38	38	38	14,3	12	30	24
1SU99412	G3/4-14f	G3/4-14f	G3/4-14f	42	44	42	16,7	15,5	32	27
1SU99414	G1"-11f	G1"-11f	G1"-11f	47	49	47	22,2	20,4	41	33
1SU99416	G1"1/4-11f	G1"1/4-11f	G1"1/4-11f	52	54	52	28,6	26	50	41
1SU99418	G1"1/2-11f	G1"1/2-11f	G1"1/2-11f	60	58	60	33,3	30,8	55	48
1SU99420	G2"-11f	G2"-11f	G2"-11f	70	68	70	46	43,5	70	65

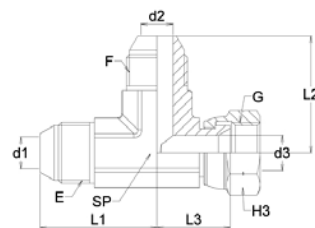
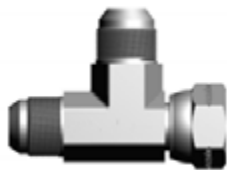
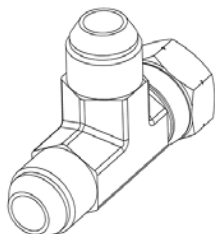
Tee Male JIS X Male JIS X Swivel Female JIS



T MJIS X MJIS X FSJIS

PT695	JIS (E)	JIS (F)	JIS (G)	L1,L2	L3	D1,D2	D3	H3	SP	
1SP99510	G1/4-19f	G1/4-19f	G1/4-19f	28	19	5	5	19	14	
1SP99515	G3/8-19f	G3/8-19f	G3/8-19f	31,5	21	8	8	22	19	
1SP99520	G1/2-14f	G1/2-14f	G1/2-14f	38	26	11	11	27	22	
1SP99525	G3/4-14f	G3/4-14f	G3/4-14f	43	30	16	16	32	27	
1SP99530	G1"-11f	G1"-11f	G1"-11f	48,5	35	22	22	41	33	

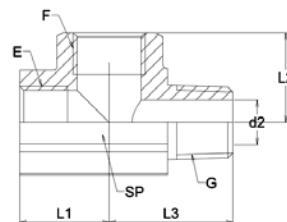
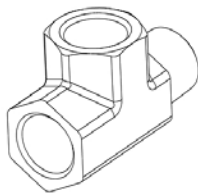
Tee Male Komatsu X Male Komatsu X Swivel Female Komatsu



T MKOM X MKOM X FSKOM

PT657	KOM (E)	KOM (F)	KOM (G)	L1	L2	L3	D1, D2	D3	H3	SP
1SU99510	M14X1.5	M14X1.5	M14x1.5	26,5	26,5	26,5	5	4,5	19	14
1SU99514	M16X1.5	M16X1.5	M16X1.5	30,8	30,8	21	7	7	22	19
1SU99518	M18X1.5	M18X1.5	M18x1.5	30,8	30,8	23	9	8	24	19
1SU99522	M22X1.5	M22X1.5	M22X1.5	35,5	35,5	26	10,5	10,5	27	22
1SU99526	M24X1.5	M24X1.5	M24X1.5	37	37	27,5	13	13	32	24
1SU99530	M30X1.5	M30X1.5	M30X1.5	45	45	34	17	17	36	30
1SU99534	M33X1.5	M33X1.5	M33X1.5	50	50	34	19	19	41	33

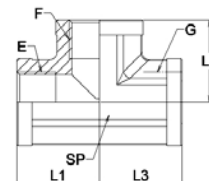
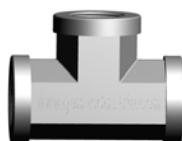
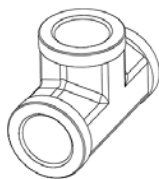
Tee Female BSPP X Female BSPP X Male BSPT



T FG X FG X MR

PT518	G (E)	G (F)	R (G)	L1	L2	L3	d2	SP		
1WA50200	G1/4-19f	G1/4-19f	R1/4-19f	22	22	28	6,5	22		
1WA50230	G1/2-14f	G1/2-14f	R1/2-14f	32	32	36	13	27		
1WA50250	G1"-11f	G1"-11f	R1"-11f	42	42	50	24	41		

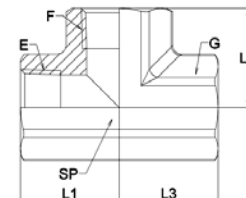
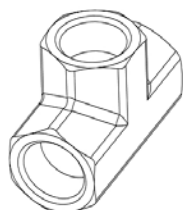
Tee Female BSPP X Female BSPP X Female BSPP



T FG X FG X FG

PT546	G (E)	G (F)	G (H)	L1	L2	L3	SP			
1WA50050	G1/8-28f	G1/8-28f	G1/8-28f	17	17	17	14			
1WA50060	G1/4-19f	G1/4-19f	G1/4-19f	22	22	22	19			
1WA50070	G3/8-19f	G3/8-19f	G3/8-19f	26	26	26	22			
1WA50080	G1/2-14f	G1/2-14f	G1/2-14f	32	32	32	27			
1WA50084	G5/8-14f	G5/8-14f	G5/8-14f	33	33	33	30			
1WA50090	G3/4-14f	G3/4-14f	G3/4-14f	36	36	36	33			
1WA50100	G1"-11f	G1"-11f	G1"-11f	42	42	42	41			
1WA50110	G1"1/4-11f	G1"1/4-11f	G1"1/4-11f	46	46	46	50			
1WA50120	G1"1/2-11f	G1"1/2-11f	G1"1/2-11f	52	52	52	60			
1WA50130	G2"-11f	G2"-11f	G2"-11f	60	60	60	70			

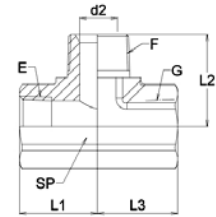
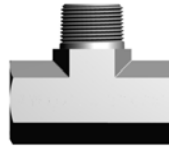
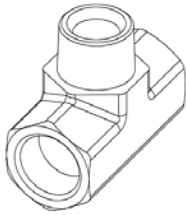
Tee Female NPT X Female NPT X Female NPT



T FNPT X FNPT X FNPT

PT617	NPT (E)	NPT (F)	NPT (G)	L1	L2	L3	SP			
1SV99080	1/8-27f	1/8-27f	1/8-27f	16,8	16,8	16,8	14			
1SV99081	1/4-18f	1/4-18f	1/4-18f	22,4	22,4	22,4	19			
1SV99083	3/8-18f	3/8-18f	3/8-18f	25,9	25,9	25,9	22			
1SV99084	1/2-14f	1/2-14f	1/2-14f	31,2	31,2	31,2	27			
1SV99087	3/4-14f	3/4-14f	3/4-14f	34,5	34,5	34,5	33			
1SV99089	1"-11,5f	1"-11,5f	1"-11,5f	41,1	41,1	41,1	41			
1SV99090	1"1/4-11,5f	1"1/4-11,5f	1"1/4-11,5f	43,2	43,2	43,2	48			
1SV99091	1"1/2-11,5f	1"1/2-11,5f	1"1/2-11,5f	52,8	52,8	52,8	65			

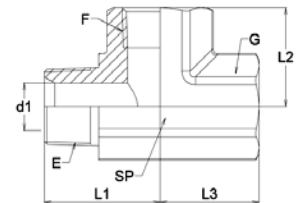
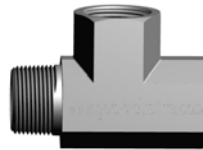
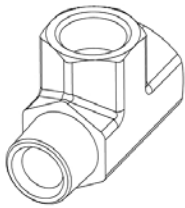
Tee Female NPT X Male NPT X Female NPT



T FNPT X MNPT X FNPT

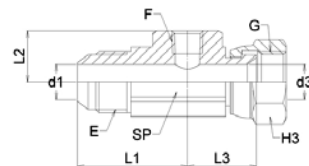
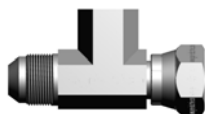
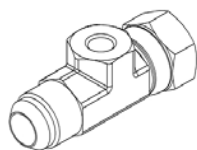
PT618	NPT (E)	NPT (F)	NPT (G)	L1	L2	L3	d2	SP		
1SV99071	1/8-27f	1/8-27f	1/8-27f	16,8	19,8	16,8	4,5	14		
1SV99072	1/4-18f	1/4-18f	1/4-18f	22,4	27,7	22,4	6	19		
1SV99073	3/8-18f	3/8-18f	3/8-18f	25,9	31	25,9	9	22		
1SV99074	1/2-14f	1/2-14f	1/2-14f	31,2	37,3	31,2	12	27		
1SV99077	3/4-14f	3/4-14f	3/4-14f	34,5	40,4	34,5	16,5	33		
1SV99078	1"-11,5f	1"-11,5f	1"-11,5f	41,1	50	41,1	21,5	41		
1SV99079	1"1/4-11,5f	1"1/4-11,5f	1"1/4-11,5f	43,2	60,5	43,2	28,5	48		

Tee Male NPT X Female NPT X Female NPT

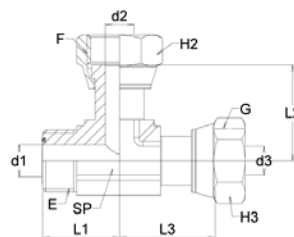


T MNPT X FNPT X FNPT

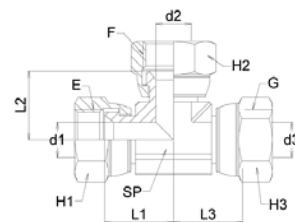
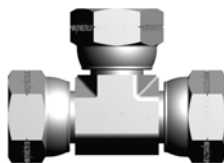
PT621	NPT (E)	NPT (F)	NPT (G)	L1	L2	L3	d1	SP		
1SV99092	1/8-27f	1/8-27f	1/8-27f	19,8	16,8	16,8	4,5	14		
1SV99093	1/4-18f	1/4-18f	1/4-18f	29	23,3	23,3	6	19		
1SV99094	3/8-18f	3/8-18f	3/8-18f	31	25,9	25,9	9	22		
1SV99095	1/2-14f	1/2-14f	1/2-14f	37,3	31,2	31,2	12	27		
1SV99096	3/4-14f	3/4-14f	3/4-14f	40,4	34,5	34,5	16,5	33		
1SV99098	1"-11,5f	1"-11,5f	1"-11,5f	50	41,1	41,1	21,5	41		
1SV99099	1"1/4-11,5f	1"1/4-11,5f	1"1/4-11,5f	60,5	43,2	43,2	28,5	48		

Tee Male JIC X Female NPT X Swivel Female JIC

T MJIC X FNPT X FSJIC

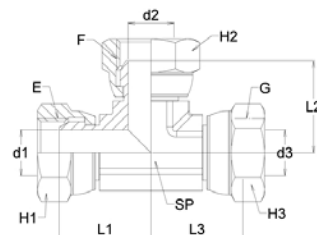
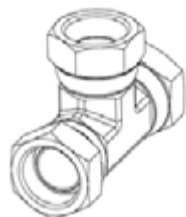
PT613	JIC (E)	NPT (F)	JIC (G)	L1	L2	L3	d1	d3	H3	SP
1SV99004	9/16-18f	1/4-18f	9/16-18f	31,2	22	23,4	7,5	7,5	19	19
1SV99006	3/4-16f	1/4-18f	3/4-16f	38,7	27,4	32	9,9	9,9	22	27
1SV99008	3/4-16f	1/2-14f	3/4-16f	38,7	31,2	27,4	9,9	9,9	22	27
1SV99015	7/8-14f	1/4-18f	7/8-14f	41,7	25,4	28,4	12,3	12,3	27	22
1SV99025	1"5/16-12f	1/4-18f	1"5/16-12f	46	29,2	35,7	21,5	21,5	41	33

Tee Male ORFS X Swivel Female ORFS X Swivel Female ORFS

T MORFS X FSORFS X FSORFS

PT602	ORFS (E)	ORFS (F)	ORFS (G)	L1	L2	L3	d1	D2,D3	H2	H3
1FS45001	9/16-18f	9/16-18f	9/16-18f	21,5	26,4	26,4	4,5	4	19	19
1FS45010	11/16-16f	11/16-16f	11/16-16f	25	29,2	29,2	6,5	6,5	22	22
1FS45020	13/16-16f	13/16-16f	13/16-16f	28	37,9	37,9	9,5	9	24	24
1FS45030	1"-14f	1"-14f	1"-14f	36,5	43	43	12	11,4	30	30
1FS45040	1"3/16-12f	1"3/16-12f	1"3/16-12f	37,3	46,3	46,3	15,5	14	36	36
1FS45050	1"7/16-12f	1"7/16-12f	1"7/16-12f	41,7	53,3	53,3	20,5	20	41	41
1FS45060	1"11/16-12f	1"11/16-12f	1"11/16-12f	44,7	58,2	58,2	26	26	50	50
1FS45070	2"-12f	2"-12f	2"-12f	48,8	61,2	61,2	32	32	60	60

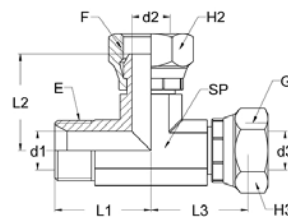
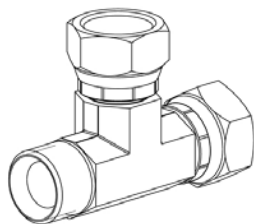
Tee Swivel Female JIC X Swivel Female JIC X Swivel Female JIC

T FSJIC X FSJIC X FSJIC

PT544	JIC (E)	JIC (F)	JIC (G)	L1	L2	L3	D1,D2,D	H1,H2,H	SP	
1SV99500	7/16-20f	7/16-20f	7/16-20f	16,7	16,7	16,7	4,4	14	11	
1SV99505	1/2-20f	1/2-20f	1/2-20f	17,4	17,4	17,4	6	17	13	
1SV99510	9/16-18f	9/16-18f	9/16-18f	22,3	22,3	22,3	7,5	19	14	
1SV99520	3/4-16f	3/4-16f	3/4-16f	24,4	24,4	24,4	9,9	22	19	
1SV99530	7/8-14f	7/8-14f	7/8-14f	28,4	28,4	28,4	12,3	27	22	
1SV99540	1"1/16-12f	1"1/16-12f	1"1/16-12f	30,1	30,1	30,1	15,5	32	27	
1SV99550	1"5/16-12f	1"5/16-12f	1"5/16-12f	35,7	35,7	35,7	21,5	41	33	
1SV99555	1"5/8-12f	1"5/8-12f	1"5/8-12f	42,8	42,8	42,8	27,5	50	41	

Tee Swivel Female BSP X Swivel Female BSP X Swivel Female BSP

T FSBSP X FSBSP X FSBSP

PT570	BSP (E)	BSP (F)	BSP (G)	L1	L2	L3	D1,D2,D	H1,H2,H	SP	
1SV99300	G1/8-28f	G1/8-28f	G1/8-28f	20	20	20	3,5	14	11	
1SV99310	G1/4-19f	G1/4-19f	G1/4-19f	26	26	26	4,7	19	14	
1SV99320	G3/8-19f	G3/8-19f	G3/8-19f	30	30	30	7,9	22	19	
1SV99330	G1/2-14f	G1/2-14f	G1/2-14f	35	35	35	11,1	27	22	
1SV99340	G5/8-14f	G5/8-14f	G5/8-14f	38	38	38	14,3	30	24	
1SV99350	G3/4-14f	G3/4-14f	G3/4-14f	42	42	42	16,7	32	27	
1SV99360	G1"-11f	G1"-11f	G1"-11f	44	44	44	22,2	41	33	
1SV99370	G1"1/4-11f	G1"1/4-11f	G1"1/4-11f	49	49	49	28,6	50	41	
1SV99380	G1"1/2-11f	G1"1/2-11f	G1"1/2-11f	61	61	61	33,3	55	48	
1SV99390	G2"-11f	G2"-11f	G2"-11f	68	68	68	46	70	65	

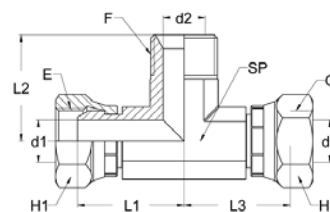
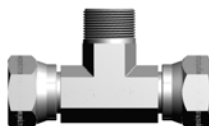
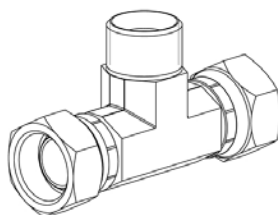
Tee Male BSP X Swivel Female BSP X Swivel Female BSP



T MBSP X FSBSP X FSBSP

PT680	BSP (E)	BSP (F)	BSP (G)	L1	L2,L3	d1	D2,D3	H2,H3	SP	
1SU99470	G1/8-28f	G1/8-28f	G1/8-28f	19,8	17,5	4,4	3,2	14	11	
1SU99472	G1/4-19f	G1/4-19f	G1/4-19f	26	26	4,7	4,7	19	14	
1SU99474	G3/8-19f	G3/8-19f	G3/8-19f	30	30	7,9	7,9	22	19	
1SU99476	G1/2-14f	G1/2-14f	G1/2-14f	35	35	11,1	11,1	27	22	
1SU99478	G5/8-14f	G5/8-14f	G5/8-14f	38	38	14,3	14,3	30	24	
1SU99480	G3/4-14f	G3/4-14f	G3/4-14f	42	42	16,7	16,7	32	27	
1SU99482	G1"-11f	G1"-11f	G1"-11f	47	44	22,2	22,2	41	33	
1SU99484	G1"1/4-11f	G1"1/4-11f	G1"1/4-11f	52	49	28,6	28,6	50	41	
1SU99486	G1"1/2-11f	G1"1/2-11f	G1"1/2-11f	60	61	33,3	33,3	55	48	
1SU99488	G2"-11f	G2"-11f	G2"-11f	70	68	46	46	70	65	

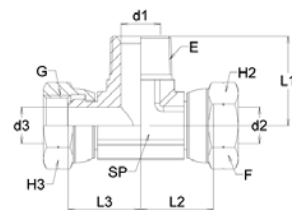
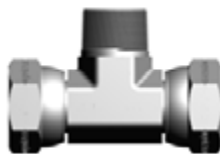
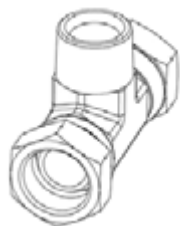
Tee Swivel Female BSP X Male BSP X Swivel Female BSP



T FSBSP X MBSP X FSBSP

PT681	BSP (E)	BSP (F)	BSP (G)	L1,L3	L2	D1,D3	d2	H1,H3	SP	
1SU99422	G1/8-28f	G1/8-28f	G1/8-28f	20	20	3,5	3,5	14	11	
1SU99424	G1/4-19f	G1/4-19f	G1/4-19f	26	26	4,5	4,7	19	14	
1SU99426	G3/8-19f	G3/8-19f	G3/8-19f	30	30	7,1	7,9	22	19	
1SU99428	G1/2-14f	G1/2-14f	G1/2-14f	35	35	9,7	11,1	27	22	
1SU99430	G5/8-14f	G5/8-14f	G5/8-14f	38	38	12	14,3	30	24	
1SU99432	G3/4-14f	G3/4-14f	G3/4-14f	44	42	15,5	16,7	32	27	
1SU99434	G1"-11f	G1"-11f	G1"-11f	49	47	20,4	22,2	41	33	
1SU99436	G1"1/4-11f	G1"1/4-11f	G1"1/4-11f	54	52	26	28,6	50	41	
1SU99438	G1"1/2-11f	G1"1/2-11f	G1"1/2-11f	58	60	30,8	33,3	55	48	
1SU99440	G2"-11f	G2"-11f	G2"-11f	68	70	43,5	46	70	65	

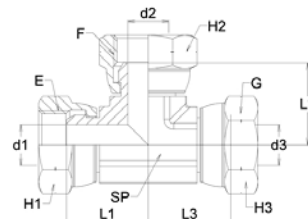
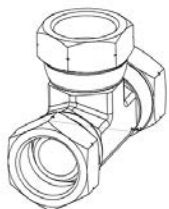
Tee Swivel Female NPSM X Male NPT X Swivel Female NPSM



T FSNPSM X MNPT X FSNPSM

PT615	NPSM (F)	NPT (E)	NPSM (G)	L1	L2	L3	d1	D2, D3	H2, H3	SP
1SV99070	1/4-18f	1/4-18f	1/4-18f	27.7	22.4	22.4	6	5,6	17	14
1SV99075	3/8-18f	3/8-18f	3/8-18f	31	25.1	25.1	9	8,7	22	19
1SV99076	1/2-14f	1/2-14f	1/2-14f	37,3	27.4	27.4	12	11,9	27	22
1SV99085	3/4-14f	3/4-14f	3/4-14f	40.4	33	33	16,5	16.3	32	27
1SV99088	1"-11,5f	1"-11,5f	1"-11,5f	50	37.2	37.2	21.5	21.4	38	33

Tee Swivel Female NPSM X Swivel Female NPSM X Swivel Female NPSM

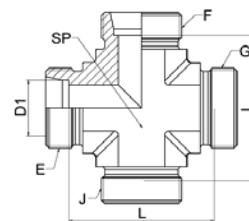


T FSNPSM X FSNPSM X FSNPSM

PT616	NPSM (E)	NPSM (F)	NPSM (G)	L1	L2	L3	D1, D2	D3	H1, H2	H3
1ST99030	1/4-18f	1/4-18f	1/4-18f	22.4	22.4	22.4	5,6	5,6	17	17
1ST99040	3/8-18f	3/8-18f	3/8-18f	25.1	25.1	25.1	8.7	8,7	22	22
1ST99043	1/2-14f	1/2-14f	1/2-14f	27.4	27.4	27.4	11,9	11,9	27	27
1ST99046	3/4-14f	3/4-14f	3/4-14f	33	33	33	16,3	16,3	32	32
1ST99049	1"-11,5f	1"-11,5f	1"-11,5f	37.2	37.2	37.2	21.4	21.4	38	38
1ST99052	1"1/4-11,5f	1"1/4-11,5f	1"1/4-11,5f	44.7	44.7	44.7	29	29	50	50
1ST99055	1"1/2-11,5f	1"1/2-11,5f	1"1/2-11,5f	51.3	51.3	51.3	34.5	34.5	55	55

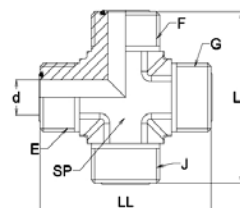
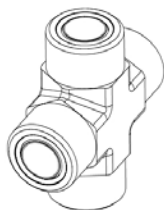
Crosses



Cross Male 24° X Male 24°

K M24D X M24D

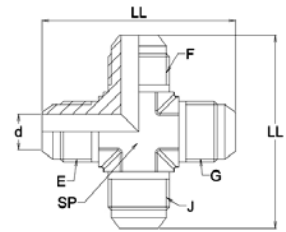
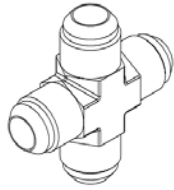
PT641	24D (E)	24D (F)	24D (G)	24D (J)	TUBE (D1)	L	SP			
8CX6L	M12X1.5	M12X1.5	M12X1.5	M12X1.5	6L	24	12			
8CX8L	M14X1.5	M14X1.5	M14X1.5	M14X1.5	8L	28	12			
8CX10L	M16X1.5	M16X1.5	M16X1.5	M16X1.5	10L	30	14			
8CX12L	M18X1.5	M18X1.5	M18X1.5	M18X1.5	12L	34	17			
8CX15L	M22X1.5	M22X1.5	M22X1.5	M22X1.5	15L	42	19			
8CX18L	M26X1.5	M26X1.5	M26X1.5	M26X1.5	18L	47	24			
8CX12S	M20X1.5	M20X1.5	M20X1.5	M20X1.5	12S	43	17			

Fittings delivered without union nut or cutting ring.

Cross Male ORFS X Male ORFS

K MORFS X MORFS

PT603	ORFS (E)	ORFS (F)	ORFS (G)	ORFS (J)	LL	D	SP			
1FS75001	9/16-18f	9/16-18f	9/16-18f	9/16-18f	43	4,5	14			
1FS75010	11/16-16f	11/16-16f	11/16-16f	11/16-16f	50	6,5	19			
1FS75020	13/16-16f	13/16-16f	13/16-16f	13/16-16f	56	9,5	19			
1FS75030	1"-14f	1"-14f	1"-14f	1"-14f	66,6	12,5	27			
1FS75040	1"3/16-12f	1"3/16-12f	1"3/16-12f	1"3/16-12f	74,6	15,5	30			
1FS75050	1"7/16-12f	1"7/16-12f	1"7/16-12f	1"7/16-12f	83,4	20,5	36			
1FS75060	1"11/16-12f	1"11/16-12f	1"11/16-12f	1"11/16-12f	89,4	26	41			
1FS75070	2"-12f	2"-12f	2"-12f	2"-12f	97,6	32	48			

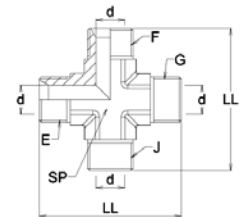
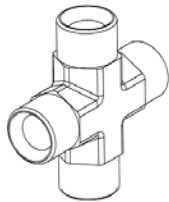
Cross Male JIC X Male JIC



K MJIC X MJIC

PT505	JIC (E)	JIC (F)	JIC (G)	JIC (J)	LL	D	SP			
1WB60300	7/16-20f	7/16-20f	7/16-20f	7/16-20f	45.2	4,4	11			
1WB60310	1/2-20f	1/2-20f	1/2-20f	1/2-20f	48.2	6	13			
1WB60320	9/16-18f	9/16-18f	9/16-18f	9/16-18f	53.8	7,5	14			
1WB60330	3/4-16f	3/4-16f	3/4-16f	3/4-16f	63,6	9,9	19			
1WB60340	7/8-14f	7/8-14f	7/8-14f	7/8-14f	73.6	12,3	22			
1WB60350	1"1/16-12f	1"1/16-12f	1"1/16-12f	1"1/16-12f	84.4	15,5	27			
1WB60360	1"5/16-12f	1"5/16-12f	1"5/16-12f	1"5/16-12f	92	21,5	33			
1WB60370	1"5/8-12f	1"5/8-12f	1"5/8-12f	1"5/8-12f	104,6	27,5	41			
1WB60380	1"7/8-12f	1"7/8-12f	1"7/8-12f	1"7/8-12f	118.4	33	48			

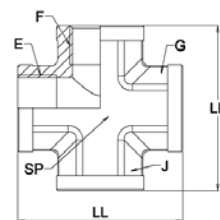
Cross Male BSP X Male BSP



K MBSP X MBSP

PT628	BSP (E)	BSP (F)	BSP (G)	BSP (J)	LL	D	SP			
1WB60500	G1/4-19f	G1/4-19f	G1/4-19f	G1/4-19f	26	4,7	14			
1WB60510	G3/8-19f	G3/8-19f	G3/8-19f	G3/8-19f	30	7,9	19			
1WB60520	G1/2-14f	G1/2-14f	G1/2-14f	G1/2-14f	35	11,1	22			
1WB60530	G5/8-14f	G5/8-14f	G5/8-14f	G5/8-14f	38	14,3	24			
1WB60540	G3/4-14f	G3/4-14f	G3/4-14f	G3/4-14f	42	16,7	27			
1WB60550	G1"-11f	G1"-11f	G1"-11f	G1"-11f	47	22,2	33			
1WB60560	G1"1/4-11f	G1"1/4-11f	G1"1/4-11f	G1"1/4-11f	52	28,6	41			
1WB60570	G1"1/2-11f	G1"1/2-11f	G1"1/2-11f	G1"1/2-11f	60	33,3	48			
1WB60580	G2"-11f	G2"-11f	G2"-11f	G2"-11f	70	46	65			

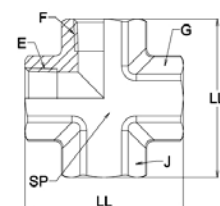
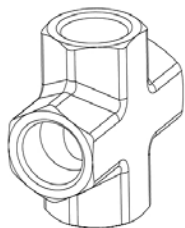
Cross Female BSPP X Female BSPP



K FG X FG

PT541	G (E)	G (F)	G (G)	G (J)	LL	SP				
1WA60050	G1/8-28f	G1/8-28f	G1/8-28f	G1/8-28f	34	14				
1WA60060	G1/4-19f	G1/4-19f	G1/4-19f	G1/4-19f	44	19				
1WA60070	G3/8-19f	G3/8-19f	G3/8-19f	G3/8-19f	52	22				
1WA60080	G1/2-14f	G1/2-14f	G1/2-14f	G1/2-14f	64	27				
1WA60090	G3/4-14f	G3/4-14f	G3/4-14f	G3/4-14f	72	33				
1WA60100	G1"-11f	G1"-11f	G1"-11f	G1"-11f	84	41				

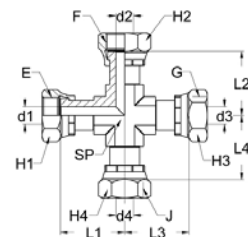
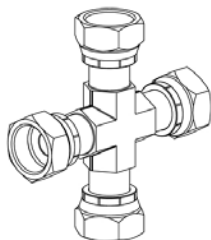
Cross Female NPT X Female NPT



K FNPT X FNPT

PT623	NPT (E)	NPT (F)	NPT (G)	NPT (J)	LL	SP				
1WB60600	1/8-27f	1/8-27f	1/8-27f	1/8-27f	33,6	14				
1WB60604	1/4-18f	1/4-18f	1/4-18f	1/4-18f	44,8	19				
1WB60608	3/8-18f	3/8-18f	3/8-18f	3/8-18f	51,8	22				
1WB60612	1/2-14f	1/2-14f	1/2-14f	1/2-14f	62,4	27				
1WB60616	3/4-14f	3/4-14f	3/4-14f	3/4-14f	69	33				
1WB60620	1"-11,5f	1"-11,5f	1"-11,5f	1"-11,5f	82,2	41				
1WB60624	1"1/4-11,5f	1"1/4-11,5f	1"1/4-11,5f	1"1/4-11,5f	86,4	48				
1WB60628	1"1/2-11,5f	1"1/2-11,5f	1"1/2-11,5f	1" 1/2-11,5f	105,6	65				
1WB60632	2"-11,5f	2"-11,5f	2"-11,5f	2"-11,5f	121,4	70				

Cross Swivel Female ORFS X Swivel Female ORFS square body

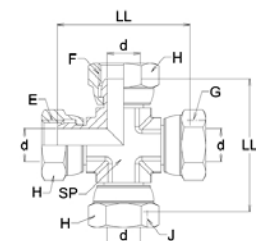


K FSORFS X FSORFS SQ

PT697	ORFS (E)	ORFS (F)	ORFS (G)	ORFS (J)	L1,L2	L3,L4	D1,2,3,4	H1,2,3,4	SP	
1FS80001MS	9/16-18f	9/16-18f	9/16-18f	9/16-18f	33,5	33,5	4,5	19	16	
1FS80010MS	11/16-16f	11/16-16f	11/16-16f	11/16-16f	39,3	39,3	6,5	22	19	
1FS80020MS	13/16-16f	13/16-16f	13/16-16f	13/16-16f	50,5	50,5	9,5	24	22	
1FS80030MS	1"-14f	1"-14f	1"-14f	1"-14f	57,6	57,6	12	30	27	
1FS80040MS	1"3/16-12f	1"3/16-12f	1"3/16-12f	1"3/16-12f	66	66	15,5	36	30	
1FS80050MS	1"7/16-12f	1"7/16-12f	1"7/16-12f	1"7/16-12f	78,3	78,3	20,5	41	35	

MS = brazed

Cross Swivel Female BSP X Swivel Female BSP



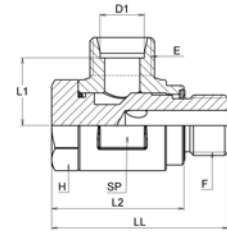
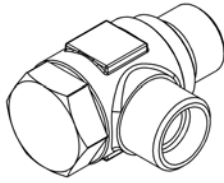
K FSBSP X FSBSP

PT566	BSP (E)	BSP (F)	BSP (G)	BSP (J)	LL	D	H	SP		
1WB60898	G1/8-28f	G1/8-28f	G1/8-28f	G1/8-28f	40	3,5	14	11		
1WB60900	G1/4-19f	G1/4-19f	G1/4-19f	G1/4-19f	52	4,7	19	14		
1WB60910	G3/8-19f	G3/8-19f	G3/8-19f	G3/8-19f	60	7,9	22	19		
1WB60920	G1/2-14f	G1/2-14f	G1/2-14f	G1/2-14f	70	11,1	27	22		
1WB60930	G5/8-14f	G5/8-14f	G5/8-14f	G5/8-14f	76	14,3	30	24		
1WB60940	G3/4-14f	G3/4-14f	G3/4-14f	G3/4-14f	84	16,7	32	27		
1WB60950	G1"-11f	G1"-11f	G1"-11f	G1"-11f	88	22,2	41	33		
1WB60960	G1"1/4-11f	G1"1/4-11f	G1"1/4-11f	G1"1/4-11f	98	28,6	50	41		
1WB60970	G1"1/2-11f	G1"1/2-11f	G1"1/2-11f	G1"1/2-11f	122	33,3	55	48		
1WB60980	G2"-11f	G2"-11f	G2"-11f	G2"-11f	136	46	70	65		

Banjo coupling



Banjo coupling Male 24° X Male BSPP E captive seal + Captive Seal Form E

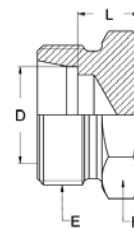
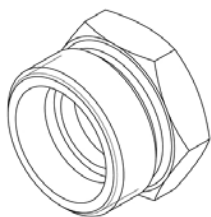


BANJO M24D X MGE +ER

PT156	24D (E)	G (F)	TUBE (D1)	L1	L2	LL	H	SP		
8CBJ6LMGE2	M12X1.5	G1/8-28f	6L	12	24	32	17	17		
8CBJ6LMGE4	M12X1.5	G1/4-19f	6L	12	30	42	19	17		
8CBJ8LMGE2	M14X1.5	G1/8-28f	8L	14.5	24	32	17	22		
8CBJ8LMGE4	M14X1.5	G1/4-19f	8L	14.5	30	42	19	22		
8CBJ10LMGE4	M16X1.5	G1/8-19f	10L	15.5	30	42	19	22		
8CBJ12LMGE6	M18X1.5	G3/8-19f	12L	18	36	48	24	27		
8CBJ15LMGE8	M22X1.5	G1/2-14f	15L	21.5	45	59	30	32		
8CBJ18LMGE8	M26X1.5	G1/2-14f	18L	21	45	59	30	32		
8CBJ6SMGE4	M14X1.5	G1/4-19f	6S	16.5	30	42	19	22		
8CBJ8SMGE4	M16X1.5	G1/4-19f	8S	16.5	30	42	19	22		
8CBJ10SMGE6	M14X1.5	G3/8-19f	10S	18.5	36	48	24	27		
8CBJ12SMGE6	M20X1.5	G3/8-19f	12S	18.5	36	48	24	27		
8CBJ14SMGE8	M22X1.5	G1/2-14f	14S	20	45	59	30	30		
8CBJ16SMGE8	M24X1.5	G1/2-14f	16S	22	45	59	30	32		

Plugs

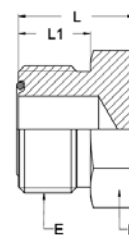
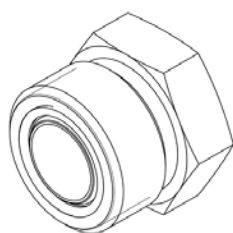


Plug Male 24° Hexagonal Head


PL M24D HEX

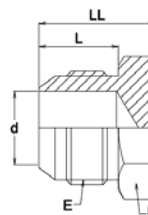
PT328	24D (E)	TUBE (D)	L	H						
8PM6L	M12X1.5	6L	7	12						
8PM8L	M14X1.5	8L	8	14						
8PM10L	M16X1.5	10L	9	17						
8PM12L	M18X1.5	12L	10	19						
8PM15L	M22X1.5	15L	11	24						
8PM18L	M26X1.5	18L	11.5	27						
8PM22L	M30x2	22L	13.5	32						
8PM28L	M36x2	28L	14.5	41						
8PM35L	M45X2	35L	14.5	46						
8PM42L	M52X2	42L	16	55						
8PM6S	M14X1.5	6S	11	14						
8PM8S	M16X1.5	8S	13	17						
8PM10S	M18x1.5	10S	12.5	19						
8PM12S	M20x1.5	12S	14.5	22						
8PM14S	M22x1.5	14S	16	24						
8PM16S	M24x1.5	16S	15.5	27						
8PM20S	M30x2	20S	17.5	32						
8PM25S	M36x2	25S	20	38						
8PM30S	M42x2	30S	20.5	46						

Fittings delivered without union nut or cutting ring.

Plug Male ORFS Hexagonal Head


PL MORFS HEX

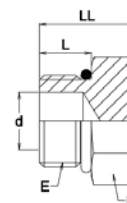
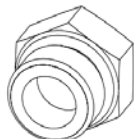
PT377	ORFS (E)	L1	L	H						
1FS14001	9/16-18f	9.8	16.7	17						
1FS14010	11/16-16f	11.2	19.2	19						
1FS14030	13/16-16f	12.8	21.8	22						
1FS14040	1"-14f	15.5	25.9	27						
1FS14070	1"3/16-12f	17	27.4	32						
1FS14090	1"7/16-12f	17.5	27.9	41						
1FS14110	1"11/16-12f	17.5	27.9	46						
1FS14140	2"-12f	17.5	27.9	55						

Plug Male JIC Hexagonal Head


PL MJIC HEX

PT102	JIC (E)	L	LL	D	H					
1RC12040	3/8-24f	12,2	18.5	3,2	11					
1RC12050	7/16-20f	14	20.3	4,4	12					
1RC14060	1/2-20f	14	20.3	6	14					
1RC17075	5/8-18f (1)	15,7	22.4	6	17					
1RC16070	9/16-18f	14,1	21.3	7,5	17					
1RC19080	3/4-16f	16,7	23.9	9,9	19					
1RC22090	7/8-14f	19,3	27.9	12,3	24					
1RC27050	1"1/16-12f	21,9	32.5	15,5	27					
1RC34120	1"5/16-12f	23,1	33.8	21,5	36					
1RC38111	1"3/16-12f	22,6	33.3	18	32					
1RC42130	1"5/8-12f	24,3	36.8	27,5	46					
1RC50140	1"7/8-12f	27,5	41.9	33	50					
1RC65150	2"1/2-12f	33,9	52.1	45	65					

EN-Pression majorée avec femelle JIC

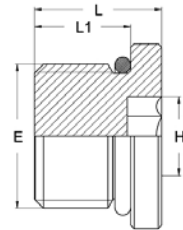
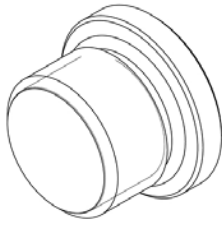
Plug Male SAE Hexagonal Head + O-Ring


PL MSAE HEX +OR

PT103	SAE (E)	L	LL	D	H					
1RZ12060	3/8-24f	7,54	15.2	3,2	12					
1RZ14060	7/16-20f	9,14	17	5,2	14					
1RZ16065	1/2-20f	9,14	17	5,9	17					
1RZ17070	9/16-18f	9,93	18.5	7,5	17					
1RZ22075	3/4-16f	11,13	20.3	10,7	22					
1RZ26135	7/8-14f	12,7	23.6	12,7	27					
1RZ32190	1"1/16-12f	15,09	27.7	16,7	32					
1RZ34195	1"3/16-12f	15,09	27.7	18,2	36					
1RZ38200	1"5/16-12f	15,09	28.4	22,2	41					
1RZ50210	1"5/8-12f	15,09	30.5	27,8	50					
1RZ54215	1"7/8-12f	15,09	32.3	34,1	55					
1RZ71220	2"1/2-12f	15,09	36.3	46,1	70					

(1) 90° cone male (sealing on the cone , without O-ring).

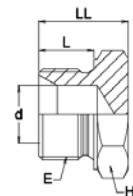
Plug Male SAE Hollow Hexagonal + O-Ring



PL MSAE SH +OR

PT249	SAE (E)	L1	L	H						
1RJ51402	5/16-24f	7,54	10,3	3						
1RJ51404	7/16-20f	9,1	11,5	5						
1RJ51405	1/2-20f	9,1	11,5	5						
1RJ51406	9/16-18f	9,9	12,8	6						
1RJ51408	3/4-16f	11,1	14,3	8						
1RJ51410	7/8-14f	12,7	16	10						
1RJ51412	1"1/16-12f	15,1	19	14						
1RJ51414	1"3/16-12f	15,1	19,5	14						
1RJ51416	1"5/16-12f	15,1	19,5	16						
1RJ51420	1"5/8-12f	15,1	19,5	19						
1RJ51424	1"7/8-12f	15,1	19,5	19						
1RJ51432	2"1/2-12f	15,1	19,5	19						

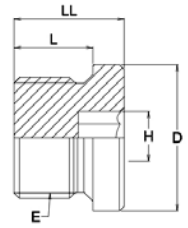
Plug Male BSP for bonded seal Hexagonal Head



PL MBSPBS HEX

PT252	BSPBS (E)	L	LL	D	H					
1RA14050	G1/8-28f	8	16	3,5	14					
1RA17060	G1/4-19f	11	20	4,7	19					
1RA21070	G3/8-19f	12	21	7,9	22					
1RA27080	G1/2-14f	14	24	11,1	27					
1RA29090	G5/8-14f	16	26	14,3	30					
1RA32100	G3/4-14f	16	26	16,7	32					
1RA42110	G1"-11f	19	30	22,2	41					
1RA50120	G1"1/4-11f	20	33	28,6	50					
1RA55130	G1"1/2-11f	22	38	33,3	55					
1RA70140	G2"-11f	25	44	46	70					

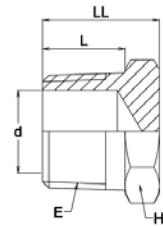
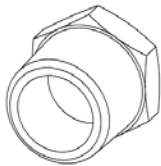
Plug Male BSPP Bonded seal Metric DIN (60°) 908 Hollow Hexagonal



PL MGBS DIN908 SH

PT421	GBS (E)	L	LL	D	H					
1RO99050	G1/8-28f	8	11	14	5					
1RO99060	G1/4-19f	12	15	18	6					
1RO99070	G3/8-19f	12	15	22	8					
1RO99080	G1/2-14f	14	18	26	10					
1RO99090	G3/4-14f	16	20	32	12					
1RO99100	G1"-11f	16	21	39	17					
1RO99104	G1"1/4-11f	16	21	49	22					
1RO99106	G1"1/2-11f	16	21	55	24					
1RO99110	G2"-11f	20	25	68	32					

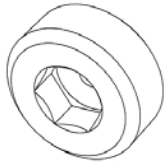
Plug Male BSPT Hexagonal Head



PL MR HEX

PT136	R (E)	L	LL	D	H					
1RG12050	R1/8-28f	10	16	--	12					
1RG14060	R1/4-19f	14	21	7	14					
1RG17070	R3/8-19f	15	22	10	17					
1RG22080	R1/2-14f	19	27	13	22					
1RG24090	R5/8-14f	19	27	14	24					
1RG27100	R3/4-14f	20	29	18	27					
1RG34110	R1"-11f	24	34	24	36					
1RG45120	R1"1/4-11f	25	37	31	46					
1RG50130	R1"1/2-11f	25	37	38	50					
1RG63140	R2"-11f	30	45	49	65					
1RG77050	R2"1/2-11f	36	54	58	80					

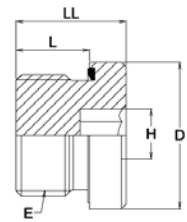
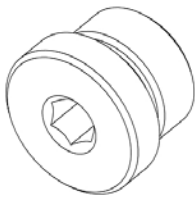
Plug Male BSPT Hollow Hexagonal



PL MR SH

PT259	R (E)	L	H							
1RM99050	R1/8-28f	8	5							
1RM99060	R1/4-19f	10	6							
1RM99070	R3/8-19f	10	8							
1RM99080	R1/2-14f	10	10							
1RM99090	R3/4-14f	12	12							
1RM99100	R1"-11f	14	17							
1RM99105	R1"1/4-11f	18	22							
1RM99110	R1"1/2-11f	20	24							
1RM99120	R2"-11f	22	32							

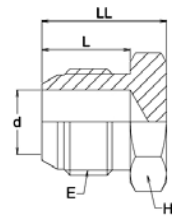
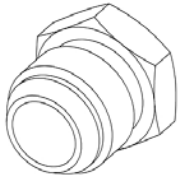
Plug Male BSPP E captive seal Hollow Hexagonal



PL MGE SH

PT420	GE (E)	L	LL	D	H					
1RO99150	G1/8-28f	8	12.3	14	5					
1RO99152	G1/4-19f	12	17.3	19	6					
1RO99154	G3/8-19f	12	17.3	22	8					
1RO99156	G1/2-14f	14	19.3	27	10					
1RO99160	G3/4-14f	16	21.3	32	12					
1RO99162	G1"-11f	16	22.8	40	17					
1RO99164	G1"1/4-11f	20	22.8	50	22					
1RO99166	G1"1/2-11f	22	22.8	55	24					

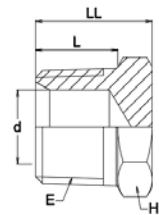
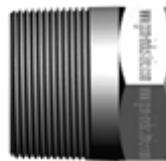
Plug Male JIS Hexagonal Head



PL MJIS HEX

PT244	JIS (E)	L	LL	D	H					
1RP19070	G1/4-19f	16	23	5	17					
1RP22150	G3/8-19f	18	26	8	19					
1RP27180	G1/2-14f	20	28	11	22					
1RP32250	G3/4-14f	22	31	16	30					
1RP41290	G1"-11f	24	34	22	36					

Plug Male NPT Hexagonal Head

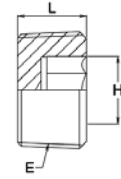


PL MNPT HEX

PT132	NPT (E)	L	LL	D	H					
1RH12050	1/8-27f	9.7	14.2	4,5	11					
1RH14060	1/4-18f	14.2	19	6	14					
1RH19070	3/8-18f	14.2	19.8	9	19					
1RH22080	1/2-14f	19	24.6	12	22					
1RH27090	3/4-14f	19	26.9	16,5	27					
1RH34100	1"-11,5f	23.9	31.7	21.5	36					
1RH45110	1"1/4-11,5f	24,6	36,6	28,5	46					
1RH50120	1"1/2-11,5f	25.4	37.4	35	50					
1RH63130	2"-11,5f	26.2	41.2	46	65					

EN-Pression majorée avec cône NPSM

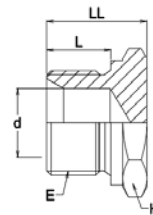
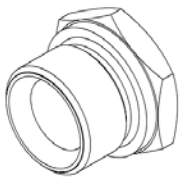
Plug Male NPT Hollow Hexagonal



PL MNPT SH

PT225	NPT (E)	L	H							
1RN99050	1/8-27f	8	5							
1RN99060	1/4-18f	12	6							
1RN99070	3/8-18f	12	8							
1RN99080	1/2-14f	16	10							
1RN99090	3/4-14f	16,5	12							
1RN99100	1"-11,5f	20	17							
1RN99110	1"1/4-11,5f	20	22							
1RN99120	1"1/2-11,5f	20	24							
1RN99130	2"-11,5f	21	32							

Plug Male DIN Bonded seal Hexagonal Head

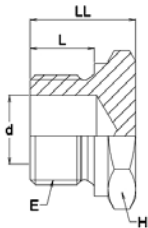
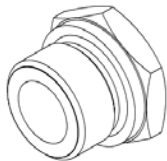


PL MDINBS HEX

PT243	DINBS (E)	L	LL	D	H					
1RB14030	M10X1	8	16,5	3	14					
1RB17035	M12X1	10	18	4	17					
1RB17040	M12X1.5	10	19	4	17					
1RB19050	M14X1.5	12	22	6	19					
1RB19051	M14X1.5 (1)	10	17	6	14					
1RB21060	M16X1.5	12	22	8	22					
1RB23060	M18X1.5	12	22,5	10	24					
1RB24070	M20X1.5	14	25,5	12	27					
1RB27060	M22X1.5	14	26	14,1	27					
1RB30065	M24X1.5	14	26	16	30					
1RB32070	M26X1.5	16	28	15	32					
1RB32071	M26X1.5 (1)	12	21	15	27					
1RB36080	M30X1.5	18	29	19	36					
1RB44091	M38X1.5 (1)	14	24	25	41					
1RB44092	M38X1.5	18	33	25	46					
1RB54092	M45X1.5	20	38	32	55					
1RB60605	M52X1.5	22	40	39	60					

(1) Standard DIN, not usable with BS ring.

Plug Male ISO Hexagonal Head

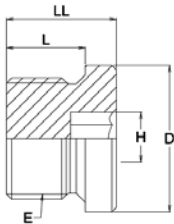
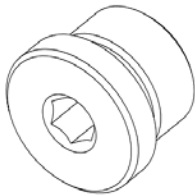


PL MISO HEX

PT303	ISO (E)	L	LL	D	H					
1RZ17100	M12X1.5 (1)	11	20,5	-	17					
1RZ27340	M22X1.5	15	26.5	12	27					
1RZ32380	M26X1.5	16	28	18	32					
1RZ32384	M27X2 (1)	18,5	30	15	32					

(1) Comes with a seal and anti-extrusion ring.

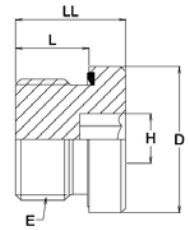
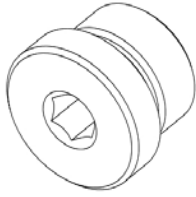
Plug Male ISO Bonded seal Metric DIN (60°) 908 Hollow Hexagonal



PL MISOBS DIN908 SH

PT422	ISO (E)	L	LL	D	H					
1RD99810	M10X1	8	12	14	5					
1RD99812	M12X1.5	12	15	17	6					
1RD99814	M14X1.5	12	15	19	6					
1RD99816	M16X1.5	12	15	22	8					
1RD99818	M18X1.5	12	16,5	24	8					
1RD99820	M20X1.5	14	18	25	10					
1RD99822	M22X1.5	14	18	27	10					
1RD99824	M24X1.5	14	18	30	12					
1RD99826	M26X1.5	16	21	32	12					
1RD99830	M30X1.5	18	23	36	16					
1RD99832	M30X2	16	20	36	17					
1RD99836	M36X1.5	15,5	21	42	19					
1RD99842	M42X1.5	16	21	49	22					
1RD99848	M48X1.5	15,5	21	55	24					
1RD99852	M52X1.5	16,5	21	60	24					

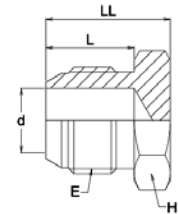
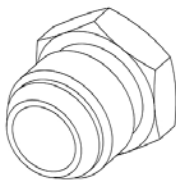
Plug Male ISO E captive seal Hollow Hexagonal



PL MISOE SH

PT363	ISO (E)	L	LL	D	H					
1RD99860	M10X1	8	12.3	14	5					
1RD99864	M12X1.5	12	17.3	17	6					
1RD99866	M14X1.5	12	17.3	19	6					
1RD99868	M16X1.5	12	17.3	22	8					
1RD99870	M18X1.5	12	17.3	24	8					
1RD99872	M20X1.5	14	19.3	26	10					
1RD99874	M22X1.5	14	19.3	27	10					
1RD99876	M24X1.5	14	19	29	10					
1RD99878	M26X1.5	16	21.3	32	12					
1RD99880	M27X2	16	21.3	32	12					
1RD99884	M33X2	16	22.8	40	17					
1RD99888	M42X2	16	22.8	50	22					

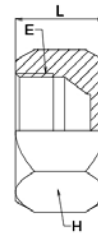
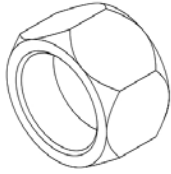
Plug Male Komatsu Hexagonal Head



PL MKOM HEX

PT411	KOM (E)	L	LL	D	H					
1RK17120	M14X1.5	17	23	5	17					
1RK19130	M16X1.5	18	24	7	17					
1RK19140	M18X1.5	18	25	9	19					
1RK24150	M22X1.5	20	28	10,5	24					
1RK27160	M24X1.5	21,5	31.5	13	27					
1RK32170	M30X1.5	26	37	17	32					
1RK36180	M33X1.5	30	41	19	36					

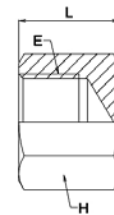
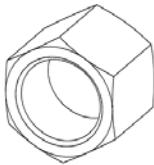
Plug Female JIC



PL FJIC

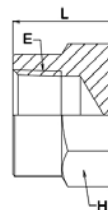
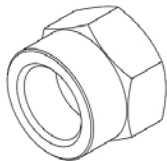
PT154	JIC (E)	L	H							
1RZ14075	7/16-20f	15,1	14							
1RZ17085	1/2-20f	15,5	17							
1RZ19215	9/16-18f	15,9	19							
1RZ24250	3/4-16f	19	24							
1RZ27315	7/8-14f	21,4	27							
1RZ32515	1"1/16-12f	23	32							
1RZ38615	1"5/16-12f	25,8	41							
1RZ50715	1"5/8-12f	27	50							
1RZ54815	1"7/8-12f	30,2	60							
1RZ70915	2"1/2-12f	36,5	75							

Plug Female BSPP Hexagonal Head



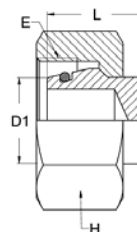
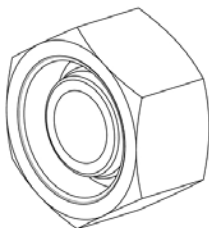
PL FG HEX

PT201	G (E)	L	H							
1RQ14050	G1/8-28f	16,5	14							
1RQ17060	G1/4-19f	21,5	19							
1RQ21070	G3/8-19f	23	22							
1RQ27080	G1/2-14f	29,5	27							
1RQ30066	G5/8-14f	30	30							
1RQ32090	G3/4-14f	32	32							
1RQ41100	G1"-11f	41	41							
1RQ50110	G1"1/4-11f	44	50							
1RQ60120	G1"1/2-11f	49	55							
1RQ70130	G2"-11f	52,5	70							

Plug Female NPT Hexagonal Head


PL FNPT HEX

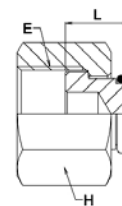
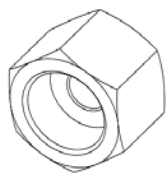
PT177	NPT (E)	L	H							
1RR16050	1/8-27f	15,5	16							
1RR19060	1/4-18f	20	19							
1RR24070	3/8-18f	22	22							
1RR29080	1/2-14f	28	29							
1RR36090	3/4-14f	30	36							
1RR46100	1"-11,5f	37,5	41							
1RR54110	1"1/4-11,5f	40	50							
1RR63120	1"1/2-11,5f	43	60							
1RR77130	2"-11,5f	47,5	75							

Plug Swivel Female 24°


PL FS24D

PT385	24D (E)	TUBE (D1)	L	H						
8FP6L	M12X1.5	6L	18.5	14						
8FP8L	M14X1.5	8L	18.5	17						
8FP10L	M16X1.5	10L	20	19						
8FP12L	M18X1.5	12L	20.5	22						
8FP15L	M22X1.5	15L	20.5	27						
8FP18L	M26X1.5	18L	22.5	32						
8FP22L	M30x2	22L	25	36						
8FP28L	M36X2	28L	25.5	41						
8FP35L	M45x2	35L	30	50						
8FP42L	M52x2	42L	30	60						
8FP6S	M14x1.5	6S	18.5	17						
8FP8S	M16x1.5	8S	18.5	19						
8FP10S	M18x1.5	10S	20	22						
8FP12S	M20x1.5	12S	20.5	24						
8FP14S	M22x1.5	14S	20.5	27						
8FP16S	M24x1.5	16S	23.5	30						
8FP20S	M30x2	20S	28.5	36						
8FP25S	M36x2	25S	29	46						
8FP30S	M42x2	30S	30.5	50						
8FP38S	M52x2	38S	33	60						

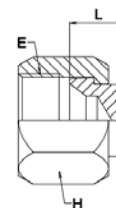
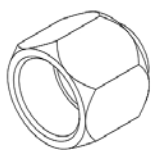
Plug Swivel Female ORFS



PL FSORFS

PT302	ORFS (E)	L	H							
1FS15001	9/16-18f	8,5	19							
1FS15010	11/16-16f	9,5	22							
1FS15030	13/16-16f	12	24							
1FS15040	1"-14f	12	30							
1FS15070	1"3/16-12f	13,5	36							
1FS15090	1"7/16-12f	15	41							
1FS15110	1"11/16-12f	15	50							
1FS15140	2"-12f	15	60							

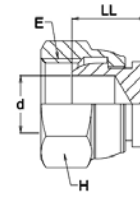
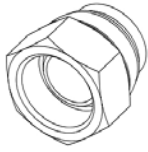
Plug Swivel Female JIC



PL FSJIC

PT121	JIC (E)	L	H							
1RZ12040	3/8-24f	9,5	12							
1RZ12070	7/16-20f	8,7	14							
1RZ14080	1/2-20f	10,3	17							
1RZ17210	9/16-18f	11,9	19							
1RZ19210	3/4-16f	13,5	22							
1RZ22310	7/8-14f	13,5	27							
1RZ27510	1"1/16-12f	16,7	32							
1RZ30560	1"3/16-12f	15,9	36							
1RZ34610	1"5/16-12f	15,9	41							
1RZ45710	1"5/8-12f	19,1	50							
1RZ50810	1"7/8-12f	23,8	60							
1RZ65910	2"1/2-12f	30,1	75							

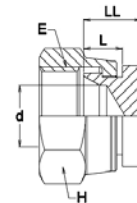
Plug Swivel Female BSP



PL FSBSP

PT137	BSP (E)	LL	D	H						
1RZ12050	G1/8-28f	12	3.5	14						
1RZ14070	G1/4-19f	13,5	4.7	19						
1RZ17200	G3/8-19f	15,5	7.9	22						
1RZ22300	G1/2-14f	19	11.1	27						
1RZ24400	G5/8-14f	18,5	14.3	30						
1RZ27500	G3/4-14f	22	16.7	32						
1RZ34600	G1"-11f	23,5	22.2	41						
1RZ45700	G1"1/4-11f	26,5	28.6	50						
1RZ50800	G1"1/2-11f	28	33.3	55						
1RZ63900	G2"-11f	29	46	70						

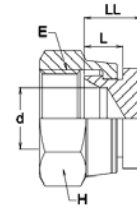
Plug Swivel Female JIS



PL FSJIS

PT412	JIS (E)	L	LL	D	H					
1RP17120	G1/4-19f	8.5	10.5	4.5	19					
1RP19130	G3/8-19f	9.5	12.5	7	22					
1RP22140	G1/2-14f	10.5	14.5	10	27					
1RP32160	G3/4-14f	13.5	17.5	15.5	32					
1RP36170	G1"-11f	15	19	20,5	41					

Plug Swivel Female Komatsu



PL FSKOM

PT413	KOM (E)	L	LL	D	H					
1RK19120	M14X1.5	9	11	4,5	19					
1RK22130	M16X1.5	9,5	12,5	7	22					
1RK24140	M18X1.5	10,5	14,5	8	24					
1RK27150	M22X1.5	11	15	10,5	27					
1RK32160	M24X1.5	11,5	15,5	13	32					
1RK36170	M30X1.5	12,5	16,5	17	36					
1RK41180	M33X1.5	12,5	18,5	19	41					

Screws



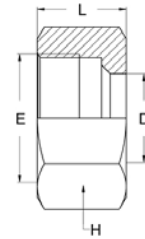
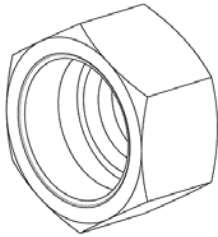
Nut 24° Locknut



N 24D LN

PT241	24D (E)	TUBE (D)	L	H						
8CE06L	M12X1.5	6L	6	17						
8CE08L06S	M14X1.5	8L/6S	6	19						
8CE10L08S	M16X1.5	10L/8S	6	22						
8CE12L10S	M18X1.5	12L/10S	6	24						
8CE12S13G	M20X1.5	12S/13G	6	27						
8CE15L14S	M22X1.5	15L/14S	7	30						
8CE16S17G	M24X1.5	16S/17G	7	32						
8CE18L	M26X1.5	18L	8	36						
8CE22L20S	M30X2	22L/20S	8	41						
8CE28L25S	M36X2	28L/25S	9	46						
8CE30S	M42X2	30S	9	50						
8CE35L	M45X2	35L	9	55						
8CE42L38S	M52X2	42L/38S	10	65						

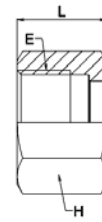
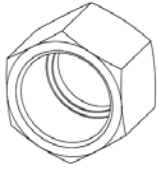
Nut 24°



N 24D

PT383	24D (E)	TUBE (D)	L	H						
8E6L	M12X1.5	6L	14.5	14						
8E8L	M14X1.5	8L	14.5	17						
8E10L	M16X1.5	10L	15.5	19						
8E12L	M18X1.5	12L	15.5	22						
8E15L	M22X1.5	15L	17	27						
8E18L	M26X1.5	18L	18	32						
8E22L	M30X2	22L	20	36						
8E28L	M36X2	28L	21	41						
8E35L	M45X2	35L	24	50						
8E42L	M52X2	42L	24	60						
8E6S	M14X1.5	6S	16.5	17						
8E8S	M16X1.5	8S	16.5	19						
8E10S	M18X1.5	10S	17.5	22						
8E12S	M20X1.5	12S	17.5	24						
8E14S	M22X1.5	14S	20.5	27						
8E16S	M24X1.5	16S	20.5	30						
8E20S	M30X2	20S	24	36						
8E25S	M36X2	25S	27	46						
8E30S	M42X2	30S	29	50						
8E38S	M52X2	38S	32.5	60						
8E13G	M20X1.5	13G	17	24						
8E17G	M24X1.5	17G	18	30						
8E21G	M30X1.5	21G	20.5	36						
8E27G	M36X1.5	27G	21.5	46						
8E33G	M45X1.5	33G	23.5	55						
8E42G	M52X1.5	42G	24.5	65						

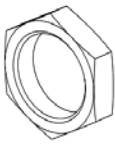
Nut ORFS



N ORFS

PT153	ORFS (E)	L	H							
1FS02001	9/16-18f	14.7	19							
1FS02010	11/16-16f	17	22							
1FS02030	13/16-16f	21	24							
1FS02040	1"-14f	23.5	30							
1FS02070	1"3/16-12f	26	36							
1FS02090	1"7/16-12f	27.8	41							
1FS02110	1"11/16-12f	27.8	50							
1FS02140	2"-12f	27.8	60							

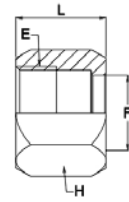
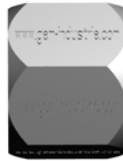
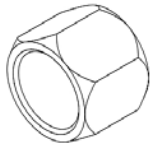
Nut ORFS Locknut



N ORFS LN

PT190	ORFS (E)	L	H							
1FS16001	9/16-18f	6.9	22							
1FS16010	11/16-16f	8	27							
1FS16020	13/16-16f	9	30							
1FS16030	1"-14f	10.4	36							
1FS16040	1"3/16-12f	10.4	41							
1FS16050	1"7/16-12f	10.4	46							
1FS16060	1"11/16-12f	10.4	50							
1FS16070	2"-12f	10.4	60							

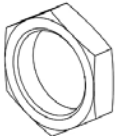
Nut JIC



N JIC

PT107	JIC (E)	TUBE (F)	L	H						
1CG99002	3/8-24f	3/16	15.5	12						
1CG99004	7/16-20f	6-1/4	15.8	14						
1CG99005	1/2-20f	8-5/16	17.3	17						
1CG99006	9/16-18f	10-3/8	18.5	19						
1CG99008	3/4-16f	12-1/2	21.6	22						
1CG99010	7/8-14f	14-15-16-5/8	24.9	27						
1CG99012	1"1/16-12f	18-3/4	26.2	32						
1CG99013	1"1/16-12f	20	26.2	32						
1CG99014	1"3/16-12f	22	27.7	36						
1CG99016	1"5/16-12f	25-1"	28.7	41						
1CG99020	1"5/8-12f	30-32-1"1/4	31.2	50						
1CG99024	1"7/8-12f	38-1"1/2	36.1	60						
1CG99026	2"1/2-12f	42-50-2"	44.5	75						

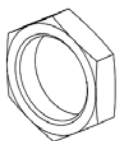
Nut JIC Locknut



N JIC LN

PT143	JIC (E)	L	H							
1CD71110	7/16-20f	6,4	17							
1CD71120	1/2-20f	6,4	19							
1CD71130	9/16-18f	6,9	22							
1CD71140	3/4-16f	7,9	24							
1CD71150	7/8-14f	9,1	30							
1CD71160	1"1/16-12f	10,4	36							
1CD71170	1"3/16-12f	10,4	38							
1CD71180	1"5/16-12f	10,4	41							
1CD71190	1"5/8-12f	10,4	50							
1CD71200	1"7/8-12f	10,4	55							
1CD71210	2"1/2-12f	10,4	70							

Nut BSP Locknut



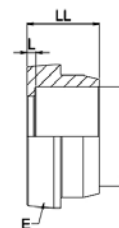
N BSP LN

PT263	BSP (E)	L	H							
1AP70110	G1/8-28f	5,5	14							
1AP70120	G1/4-19f	6,5	19							
1AP70130	G3/8-19f	7	22							
1AP70140	G1/2-14f	9	27							
1AP70150	G5/8-14f	9	30							
1AP70160	G3/4-14f	10,5	32							
1AP70170	G1"-11f	10,5	41							
1AP70180	G1"1/4-11f	10,5	50							
1AP70190	G1"1/2-11f	10,5	55							
1AP70200	G2"-11f	10,5	70							

Sleeves and ferrules



Sleeve ORFS X Socket Welding not galvanized

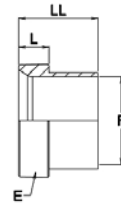
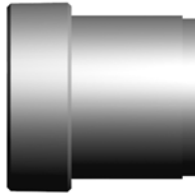


SL ORFS X SW WZ

PT268	ORFS (E)	TUBE (F)	L	LL						
1FS01001	9/16-18f	6	1	9,5						
1FS01020	11/16-16f	8	1	9,5						
1FS01010	11/16-16f	10	1	9,5						
1FS01030	13/16-16f	12	1	9,5						
1FS01050	1"-14f	14	1	10,5						
1FS01060	1"-14f	15	1.5	10,5						
1FS01040	1"-14f	16	1.5	10,5						
1FS01080	1"3/16-12f	18	1.5	14						
1FS01070	1"3/16-12f	20	1.5	14						
1FS01100	1"7/16-12f	22	1.5	15,5						
1FS01090	1"7/16-12f	25	1.5	15,5						
1FS01120	1"11/16-12f	28	2.25	15,5						
1FS01130	1"11/16-12f	30	2.25	15,5						
1FS01110	1"11/16-12f	32	2.25	15,5						
1FS01150	2"-12f	35	2.25	15,5						
1FS01140	2"-12f	38	2.25	15,5						
1FS01005	9/16-18f	1/4 (6,35)	1	9,5						
1FS01015	11/16-16f	3/8 (9,52)	1	9,5						
1FS01025	13/16-16f	1/2 (12,7)	1	9,5						
1FS01045	1"-14f	5/8 (15,88)	1	10,5						
1FS01075	1"3/16-12f	3/4 (19,05)	1.5	14						
1FS01048	1"7/16-12f	5/8 (15,88)	7	15,5						
1FS01076	1"7/16-12f	3/4 (19,05)	4,5	17						
1FS01078	1"7/16-12f	7/8 (22,23)	3	17						
1FS01095	1"7/16-12f	1" (25,4)	1.5	15,5						
1FS01115	1"11/16-12f	1"1/4 (31,75)	1.5	15,5						
1FS01145	2"-12f	1"1/2 (38,1)	1.5	15,5						

EN-Seule la partie ORFS est prise en compte

Sleeve JIC



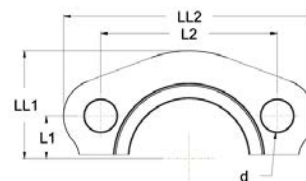
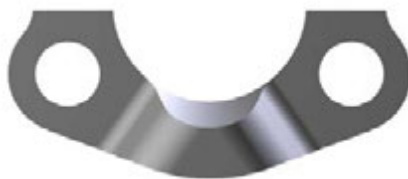
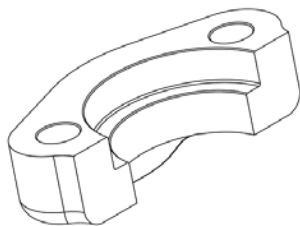
SL JIC

PT105	JIC (E)	TUBE (F)	L	LL						
1CH99006	7/16-20f	6	3,6	10,4						
1CI99004	7/16-20f	6,35 (1/4)	3,6	10,4						
1CI99005	1/2-20f	7,94 (5/16)	4,1	11,2						
1CH99008	1/2-20f	8	4,1	11,2						
1CH99010	9/16-18f	10	4,3	12,7						
1CI99006	9/16-18f	9,52 (3/8)	4,3	12,7						
1CH99012	3/4-16f	12	5,6	14,2						
1CI99008	3/4-16f	12,7 (1/2)	5,6	14,2						
1CI99010	7/8-14f	15,88 (5/8)	6,1	16,8						
1CH99014	7/8-14f	14	6,1	16,8						
1CH99015	7/8-14f	15	6,1	16,8						
1CH99016	7/8-14f	16	6,1	16,8						
1CI99012	1"1/16-12f	19,05 (3/4)	6,6	17,3						
1CH99018	1"1/16-12f	18	6,6	17,3						
1CH99020	1"1/16-12f	20	6,6	17,3						
1CI99014	1"3/16-12f	22,22 (7/8)	6,6	19,3						
1CH99022	1"3/16-12f	22	6,6	19,3						
1CI99016	1"5/16-12f	25,4 (1")	7,1	19,8						
1CH99025	1"5/16-12f	25	7,1	19,8						
1CI99018	1"5/8-12f	31,75 (1"1/4)	7,9	23,1						
1CH99030	1"5/8-12f	30	7,9	23,1						
1CH99032	1"5/8-12f	32	7,9	23,1						
1CI99020	1"7/8-12f	38,1 (1"1/2)	8,6	28,4						
1CH99038	1"7/8-12f	38	8,6	28,5						
1CH99042	2"1/2-12f	42	10,4	30,2						
1CH99050	2"1/2-12f	50	10,4	30,2						

Flanges



1/2 flange SAE Series 6000

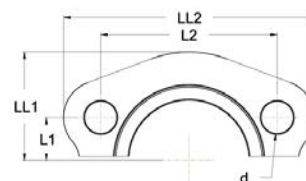
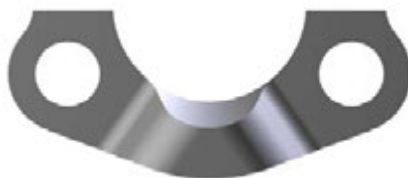
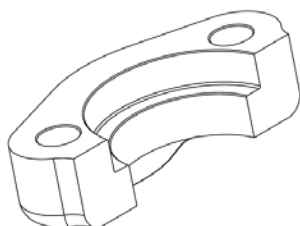


SFS6

PT445B	SAE	LL1	LL2	L1	L2	d				
1FE99500	1/2	24.6	56.3	9.1	40.5	9				
1FE99510	3/4	30.9	71.4	11.9	50.8	11				
1FE99520	1"	35.7	81	13.9	57.2	13				
1FE99530	1"1/4	39.6	95.3	15.9	66.7	15				
1FE99540	1"1/2	48.4	112.8	18.3	79.4	17				
1FE99550	2"	57.8	133.4	22.2	96.8	21				

Brides Monobloc sur demande

1/2 flange SAE Series 3000



SFS3

PT445	SAE	LL1	LL2	L1	L2	D				
1FD99500	1/2	23.05	53.8	8.75	38.1	9				
1FD99510	3/4	26.2	101.6	21.45	77.8	13.5				
1FD99520	1"	29.35	93.7	17.85	69.9	13.5				
1FD99530	1"1/4	36.5	79.2	15.1	58.7	11				
1FD99540	1"1/2	41.3	69.9	13.1	52.4	11				
1FD99550	2"	48.4	65	11.1	47.6	11				
1FD99560	2"1/2	54.5	114	25.4	88.9	13.5				
1FD99570	3"	65.3	135	30.95	106.4	17.5				
1FD99590	4"	75.9	162	39	130.2	17.5				

Bride Monobloc sur demande

Rings



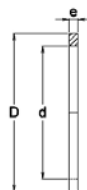
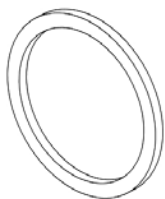
Profiled Ring 24°



RG24 24D

PT384	TUBE (D)									
8B6LS	6L-6S									
8B8LS	8L-8S									
8B10LS	10L-10S									
8B12LS	12L-12S									
8B15L	15L									
8B18L	18L									
8B22L	22L									
8B28L	28L									
8B35L	35L									
8B42L	42L									
8B14S	14S									
8B16S	16S									
8B20S	20S									
8B25S	25S									
8B30S	30S									
8B38S	38S									
8B13G	13-25G									
8B17G	16-75G									
8B21G	21-25G									
8B27G	26-75G									
8B33G	33-5G									
8B42G	42-25G									

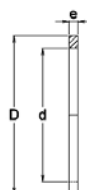
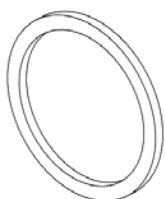
Retaining Ring BSPP Steel



RR G STEEL

PT297	GAZ	D	d	e						
1TV99051	G1/8	15,5	11.60	1,2						
1TV99061	G1/4	21	16,15	1,8						
1TV99071	G3/8	24	19,5	1,8						
1TV99081	G1/2	29	23,3	1,8						
1TV99101	G3/4	35	28,6	1,8						
1TV99112	G1"	44,5	36,6	2,5						
1TV99122	G1"1/4	55,5	44,9	2,5						
1TV99132	G1"1/2	62	50,9	2,5						
1TV99140	G2"	70	63,3	2,5						

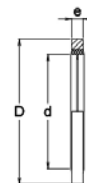
Retaining Ring ISO Steel



RR ISO STEEL

PT277	ISO	D	d	e						
1TV99230	M8X1	12,5	9,3	1						
1TV99232	M10X1	14,5	11,3	1						
1TV99234	M12X1.5	17,5	14,2	1.6						
1TV99236	M14X1.5	19,5	16,2	1.6						
1TV99238	M16X1.5	22,5	18,2	1.6						
1TV99241	M18X1.5	24,5	20,2	1.6						
1TV99242	M20X1.5	25,5	22,2	1.6						
1TV99244	M22X1.5	27,5	24,2	1.6						
1TV99246	M24X1.5	30,5	27,4	2						
1TV99250	M26X1.5-27X	33	29,7	2						
1TV99252	M30X2	36,5	32,7	2						
1TV99254	M33X2	41,5	35,7	2						
1TV99256	M42X2	50,5	44,7	2						
1TV99258	M48X2	55,5	50,7	2						

Bonded Seal BSP / SAE Steel with membrane Nitril Normal Series

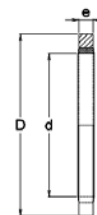
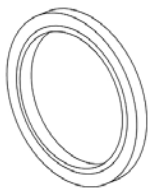


BSR BSP / SAE STEEL SCT NBR NS

PT434	BSP	SAE	D	d	d					
1TU99053	G1/8	NA	15,98	10,37	2,03					
1TU99063	G1/4	1/2	20,57	13,74	2,03					
1TU99073	G3/8	NA	23,80	17,28	2,03					
1TU99084	NA	3/4	26,92	19,69	2,5					
1TU99083	G1/2	NA	28,58	21,54	2,49					
1TU99083M	G1/2	NA	28,58	21,54	2,00					
1TU99094	G5/8	7/8	31,75	23,49	2,49					
1TU99106	G3/4	1"1/16	34,93	27,05	2,49					
1TU99106M	G3/4	1"1/16	34,93	27,05	2,00					
1TU99114	G1"	1"5/16	42,80	33,89	3,38					
1TU99114M	G1"	1"5/16	42,80	33,89	2,50					
1TU99124	G1"1/4	1"5/8	52,38	42,93	3,38					
1TU99124M	G1"1/4	1"5/8	52,38	42,93	2,50					
1TU99134	G1"1/2	1"7/8	58,60	48,44	3,38					
1TU99134M	G1"1/2	1"7/8	58,60	48,44	2,50					
1TU99142	G2"	NA	73,03	60,58	3,38					
1TU99142M	G2"	NA	73,03	60,58	2,50					

NA : not applicable.

Bonded Seal BSP / SAE Steel Nitril without membrane Nut

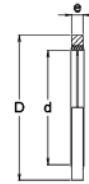


BSR BSP / SAE STEEL NBR WSCT N

PT435	BSP	SAE	D	d	e					
1TU99051	G1/8	NA	15,98	10,37	2,03					
1TU99412	NA	7/16	19,05	11,69	2,03					
1TU99061	G1/4	1/2	20,57	13,74	2,03					
1TU99071	G3/8	NA	23,80	17,28	2,03					
1TU99442	NA	3/4	26,92	19,69	2,5					
1TU99081	G1/2	NA	28,58	21,54	2,49					
1TU99081M	G1/2	NA	28,58	21,54	2,00					
1TU99095	G5/8	7/8	31,75	23,49	2,49					
1TU99105	G3/4	1"1/16	34,93	27,05	2,49					
1TU99105M	G3/4	1"1/16	34,93	27,05	2,00					
1TU99282	NA	1"3/16	38,10	30,81	2,5					
1TU99115	G1"	1"5/16	42,80	33,89	3,38					
1TU99115M	G1"	1"5/16	42,80	33,89	2,50					
1TU99125	G1"1/4	1"5/8	52,38	42,93	3,38					
1TU99125M	G1"1/4	1"5/8	52,38	42,93	2,50					
1TU99135	G1"1/2	1"7/8	58,60	48,44	3,38					
1TU99135M	G1"1/2	1"7/8	58,60	48,44	2,50					
1TU99140	G2"	NA	73,03	60,58	3,38					
1TU99140M	G2"	NA	73,03	60,58	2,50					
1TU99500	NA	2"1/2	77,72	64,39	2,5					
1TU99141	G2"1/2	NA	90,17	76,08	3,38					

NA : not applicable.

Bonded Seal BSP / SAE Stainless steel with membrane Nitril

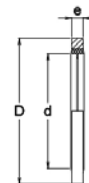


BSR BSP / SAE SS SCT NBR

PT481	BSP	D	d	e						
1TU99033SS	NA	5/16	14,22	8,64	1,22					
1TU99043SS	NA	7/16	19,05	11,69	2,03					
1TU99053SS	G1/8	NA	15,98	10,37	2,03					
1TU99063SS	G1/4	NA	20,57	13,74	2,03					
1TU99073SS	G3/8	NA	23,80	17,28	2,03					
1TU99083SS	G1/2	NA	28,58	21,54	2,49					
1TU99102SS	G3/4	NA	34,93	27,05	2,49					
1TU99112SS	G1"	NA	42,80	33,89	2,50					
1TU99122SS	G1"1/4	NA	52,38	42,93	2,50					
1TU99132SS	G1"1/2	NA	58,60	48,44	2,50					
1TU99142SS	G2"	NA	73,03	60,58	2,50					

NA : not applicable.

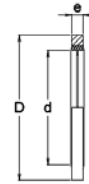
Bonded Seal BSP Steel with membrane Viton



BSR BSP STEEL SCT VITON

PT439	BSP	D	d	e						
1TU99053VT	G1/8	15,98	10,37	2,03						
1TU99063VT	G1/4	20,57	13,74	2,03						
1TU99073VT	G3/8	23,80	17,28	2,03						
1TU99083VT	G1/2	28,58	21,54	2,49						
1TU99104VT	G3/4	34,93	27,05	2,49						
1TU99114VT	G1"	42,80	33,89	2,50						
1TU99124VT	G1"1/4	52,38	42,93	2,50						
1TU99134VT	G1"1/2	58,6	49,6	2,50						
1TU99142VT	G2"	73,03	60,58	2,50						

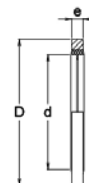
Bonded Seal BSP Stainless steel with membrane Viton



BSR BSP SS SCT VITON

PT482	BSP	D	d	e						
1TU99053SSVT	G1/8	15,98	10,37	2,03						
1TU99063SSVT	G1/4	20,57	13,74	2,03						
1TU99073SSVT	G3/8	23,80	17,28	2,03						
1TU99083SSVT	G1/2	28,58	21,54	2,49						
1TU99104SSVT	G3/4	34,93	27,05	2,49						
1TU99114SSVT	G1"	42,8	33,89	2,5						
1TU99124SSVT	G1"1/4	52,38	42,93	2,5						
1TU99134SSVT	G1"1/2	58,6	48,44	2,5						
1TU99142SSVT	G2"	73,03	60,58	2,5						

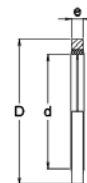
Bonded Seal Metric DIN (60°) Stainless steel with membrane Viton



BSR DIN SS SCT VITON

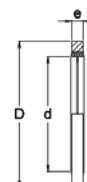
PT437	D	d	e							
1TU99196SSVT	M3 (1)	7,50	3,60	1						
1TU99198SSVT	M4 (1)	9,00	4,60	1						
1TU99200SSVT	M5 (1)	10,00	5,60	1						
1TU99210SSVT	M6 (1)	11,00	6,60	1						
1TU99213SSVT	M8 (1)	13,00	8,60	1						
1TU99223SSVT	M12 (1)	19,00	12,70	1,50						

(1) French series.

Bonded Seal Metric DIN (60°) Steel with membrane Nitril

BSR DIN STEEL SCT NBR

PT483	DIN	D	d	e						
1TU99200	M5	10,00	5,70	1						
1TU99210	M6	11,00	6,70	1						
1TU99213	M8	14,00	8,70	1						
1TU99216	M10	15,88	10,37	1,5						
1TU99223	M12	19,00	12,70	1,5						
1TU99236	M14 (1)	21,00	14,70	1,5						
1TU99235	M14	22,00	14,70	1,5						
1TU99243	M16	24,00	16,70	1,5						
1TU99253	M18	26,00	18,70	1,5						
1TU99257	M20	28,00	20,70	1,5						
1TU99263	M22	30,00	22,70	2						
1TU99266	M24	32,00	24,70	2						
1TU99274	M30	38,00	30,80	2,5						
1TU99284	M38/39	47,75	38,96	3,38						
1TU99304	M52	63,50	51,69	3,38						

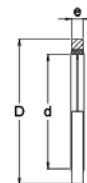
(1) French series.

Bonded Seal Metric DIN (60°) Steel with membrane Viton

BSR DIN STEEL SCT VITON

PT484	DIN	D	d	e						
1TU99210VT	M6	11,00	6,70	1						
1TU99213VT	M8	14,00	8,70	1						
1TU99216VT	M10	16,00	10,70	1,5						
1TU99223VT	M12	18,00	12,70	1,5						
1TU99235VT	M14	22,00	14,70	1,5						
1TU99241VT	M16 (1)	23,00	16,70	1,5						
1TU99243VT	M16	24,00	16,70	1,5						
1TU99251VT	M18 (1)	27,00	18,70	2						
1TU99253VT	M18	26,00	18,70	1,5						
1TU99257VT	M20	28,00	20,70	1,5						
1TU99263VT	M22	30,00	22,70	2						
1TU99266VT	M24	32,00	24,70	2						

(1) French series.

Bonded Seal Metric DIN (60°) Stainless steel Nitril with membrane

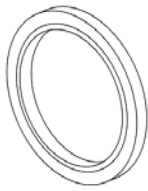


BSR DIN SS NBR SCT

PT485	DIN	D	d	e						
1TU99210SS	M6	11,00	6,70	1						
1TU99213SS	M8	14,00	8,70	1						
1TU99216SS	M10	15,88	10,35	2						
1TU99223SS	M12	18,00	12,70	1,5						
1TU99235SS	M14	22,00	14,70	1,5						
1TU99243SS	M16	24,00	16,70	1,5						
1TU99257SS	M20	28,00	20,70	1,5						
1TU99263SS	M22	30,00	22,70	2						
1TU99110SS	M26 (1)	35,00	26,70	2						
1TU99293SS	M42 (1)	53,00	42,70	3						
1TU99303SS	M48 (1)	59,00	48,70	3						

(1) Without membrane.

Bonded Seal Metric DIN (60°) Steel without membrane Nitril



BSR DIN STEEL WSCT NBR

PT486	DIN	D	d	e						
1TU99196	M3	7,50	3,60	1						
1TU99198	M4	9,00	4,60	1						
1TU99203	M5	10,00	5,70	1						
1TU99202	M5.5	9,20	6,20	1						
1TU99207	M6	11,00	6,70	1						
1TU99209	M8	14,00	8,70	1						
1TU99220	M10	15,88	10,35	2						
1TU99221	M12	18,00	12,70	1,5						
1TU99234	M14 (1)	21,00	14,70	1,5						
1TU99231	M14	22,00	14,70	1,5						
1TU99241	M16	24,00	16,70	1,5						
1TU99246	M17	24,00	17,40	1,5						
1TU99251	M18	26,00	18,70	1,5						
1TU99256	M20	28,00	20,70	1,5						
1TU99261	M22	30,00	22,70	2						
1TU99272	M24	32,00	24,70	2						
1TU99110	M26/27	34,93	27,05	2,49						
1TU99111	M30	39,00	31,00	2						
1TU99116	M36 (1)	48,00	37,00	2,5						
1TU99292	M38	47,75	38,96	3,2						
1TU99302	M45	57,15	45,34	3,4						
1TU99312	M52	63,5	51,7	3,2						
1TU99320	M65	79,5	66,6	3,2						

(1) French series.

Seal



Form E with captive seal Metric DIN (60°) BSP Nitril

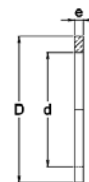
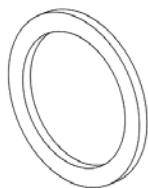


ER DIN BSP NBR

PT364	DIN	BSP	D	d	e					
1TE99051	M10X1.5	G1/8	11,9	8,4	1					
1TE99052	M12X1.5	NA	14,4	9,8	1,5					
1TE99061	M14	G1/4	16,5	11,6	1,5					
1TE99062	M16	NA	18,9	13,8	1,5					
1TE99071	NA	G3/8	18,9	14,7	1,5					
1TE99072	M18	NA	20,9	15,7	1,5					
1TE99074	M20	NA	22,9	17,8	1,5					
1TE99081	NA	G1/2	23,9	18,5	1,5					
1TE99082	M22	NA	24,3	19,6	1,5					
1TE99091	M24	NA	26,3	21,6	1,5					
1TE99101	M26/27	G3/4	29,2	23,9	1,5					
1TE99102	M30	NA	32,7	27,7	2					
1TE99111	M33	G1"	35,7	29,7	2					
1TE99112	M38	NA	40,9	35,6	2					
1TE99121	M42	G1"1/4	45,8	38,8	2					
1TE99131	M48	G1"1/2	50,7	44,7	2					
1TE99142	M60	G2"	66,5	56,5	4					

NA : not applicable.

Copper Ring Metric DIN (60°) / BSPP

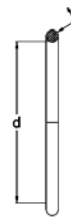
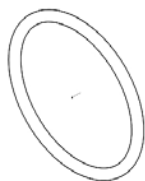


CR DIN / G

PT438	DIN	G	MANO	D	d	e				
1TT99141	M8	NA	G1/4	11.4	8.2	1.5				
1TT99051	M10	G1/8	NA	13.4	10,2	1,5				
1TT99151	M12	NA	NA	15.9	12,2	1,5				
1TT99061	NA	G1/4	NA	17	13	1,5				
1TT99161	M14	NA	G1/2	17.9	14,2	1,5				
1TT99171	M16	NA	NA	19.9	16,2	1,5				
1TT99071	NA	G3/8	NA	20.9	17,2	1,5				
1TT99181	M18	NA	NA	21.9	18,2	1,5				
1TT99191	M20	NA	NA	23.9	20,2	1,5				
1TT99081	NA	G1/2	NA	25.9	21,2	1,5				
1TT99201	M22	NA	NA	26.9	22,2	1,5				
1TT99091	M27	G3/4	NA	31.9	27,3	1,5				
1TT99212	M30	NA	NA	35.9	30,3	1,5				
1TT99102	M33	G1"	NA	38.9	33,3	2				
1TT99222	M38	NA	NA	46.9	40,3	2				
1TT99112	M42	G1"1/4	NA	48.9	42,3	2				
1TT99242	M45	NA	NA	51.9	45,3	2				
1TT99122	M48	G1"1/2	NA	54.9	48,3	2				
1TT99262	M52	NA	NA	59.8	52,5	2,5				
1TT99132	M60	G2"	NA	67.8	60,5	2,5				

NA : not applicable.

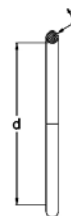
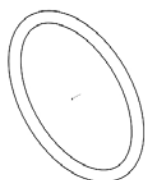
O-Ring Swivel Female 24° Nitril



OR FS24D NBR

PT487	24D	d	t							
8JO6LS	6L/S	4	1.5							
8JO8LS	8L/S	6	1.5							
8JO10LS	10L/S	7.5	1.5							
8JO12LS	12L/S	9	1.5							
8JO14S	14S	11	2							
8JO15L16S	15L/16S	12	2							
8JO18L	18L	15	2							
8JO20S	20S	16.3	2.4							
8JO22L	22L	20	2							
8JO25S	25S	20.3	2.4							
8JO28L	28L	26	2							
8JO30S	30S	25.3	2.4							
8JO35L	35L	32	2.5							
8JO38S	38S	33.3	2.4							
8JO42L	42L	38	2.5							

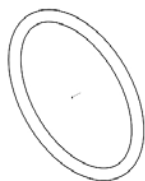
O-Ring SAE flange series 3000 / SAE flange series 6000 Nitril



OR FS3 / FS6 NBR

PT436	SAE	d	t							
1TS99568	1/2	18,64	3,53							
1TS99571	3/4	25,00	3,53							
1TS99581	1"	32,93	3,53							
1TS99597	1"1/4	37,70	3,53							
1TS99602	1"1/2	47,23	3,53							
1TS99617	2"	56,75	3,53							

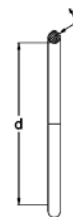
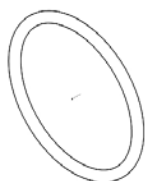
O-Ring ORFS Nitril 90 Hollow Hexagonal O-Ring e



OR ORFS NBR 90 Shore

PT181	ORFS	d	t							
1FS03002	9/16	7.66	1.78							
1FS03011	11/16	9.25	1.78							
1FS03031	13/16	12.42	1.78							
1FS03041	1"	15.60	1.78							
1FS03071	1"3/16	18.77	1.78							
1FS03091	1"7/16	23.52	1.78							
1FS03112	1"11/16	29.87	1.78							
1FS03142	2"	37.82	1.78							

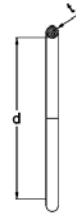
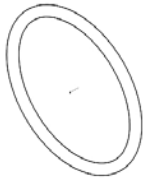
O-Ring ORFS Viton 90 Hollow Hexagonal O-Ring e



OR ORFS VITON 90 Shore

PT219	ORFS	d	t							
1FS03031VT	13/16	12.42	1.78							

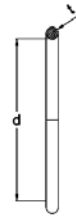
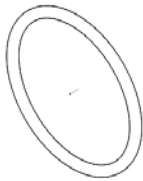
O-Ring JIC Nitril



OR JIC NBR

PT366	JIC	d	t							
1TS99500	3/4	9.5	0.8							
1TS99504	7/8	13	1							
1TS99508	1"1/16	17	1							
1TS99512	1"3/16	19	1.5							
1TS99516	1"5/16	22	1.5							
1TS99520	1"5/8	28	1.5							
1TS99524	1"7/8	35	1.5							
1TS99528	2"1/2	48	2							

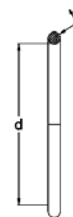
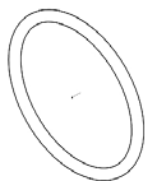
O-Ring SAE Nitril



OR SAE NBR

PT365	SAE	d	t							
1TS99411	5/16	6,07	1,63							
1TS99421	3/8	7,65	1,63							
1TS99431	7/16	9,17	1,83							
1TS99441	1/2	10,52	1,83							
1TS99451	9/16	11,89	1,98							
1TS99461	3/4	16,36	2,21							
1TS99251	7/8	19,18	2,46							
1TS99481	1"1/16	23,47	2,95							
1TS99491	1"3/16	26,62	2,95							
1TS99111	1"5/16	29,74	2,95							
1TS99122	1"5/8	37,47	3							
1TS99132	1"7/8	43,69	3							
1TS99142	2"1/2	59,36	3							

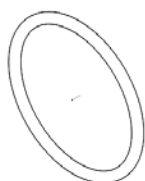
O-Ring BSP for bonded seal Nitril



OR BSPBS NBR

PT212	BSP	d	t							
1TS99051	G1/8	8	1,5							
1TS99061	G1/4	11	1,5							
1TS99071	G3/8	14	1,5							
1TS99081	G1/2	18	2							
1TS99091	G5/8	20	2							
1TS99101	G3/4	24	2							

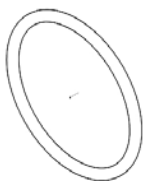
O-Ring BSPP for Retaining Ring Nitril



OR G PBAE NBR

PT367	GAZ	d	t							
1TT99506	G1/8	7,97	1,88							
1TT99511	G1/4	10,77	2,62							
1TT99521	G3/8	13,94	2,62							
1TT99531	G1/2	17,86	2,62							
1TT99551	G3/4	23,47	2,62							
1TT99561	G1"	29,74	3,53							
1TT99571	G1"1/4	37,69	3,53							
1TT99582	G1"1/2	44,04	3,53							
1TT99587	G2"	56,75	3,53							

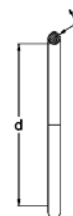
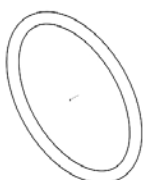
O-Ring DIN Bonded seal Nitril



OR DINBS NBR

PT432	DIN	d	t							
1TS99221	M14	11	2							
1TS99231	M16	13	2							
1TS99241	M16	13,42	2,08							

O-Ring ISO Nitril

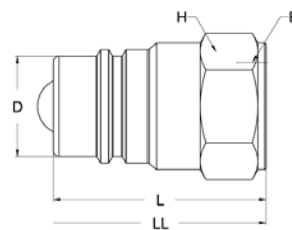
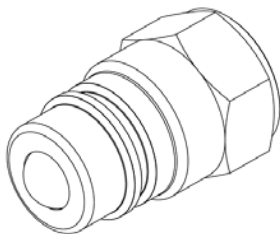


OR ISO NBR

PT368	ORFS (E)	d	t							
1TT99606	M8	6,1	1,6							
1TT99608	M10	8,1	1,6							
1TT99611	M12	9,3	2,2							
1TT99612	M14	11,3	2,2							
1TT99622	M16	13,3	2,2							
1TT99632	M18	15,3	2,2							
1TT99642	M20	17,3	2,2							
1TT99644	M22	19,3	2,2							
1TT99646	M24	21	2							
1TT99650	M26/M27	23,6	2,9							
1TT99652	M30	27,6	2,4							
1TT99654	M33	29,6	2,9							
1TT99656	M42	38,6	2,9							
1TT99658	M48	44,6	2,9							

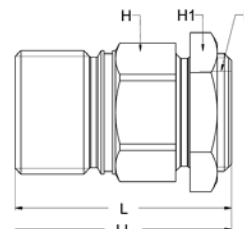
Coupling and accessories



Quick coupling Male DIN with ball X Female BSPP

QCP M CDINB X FG

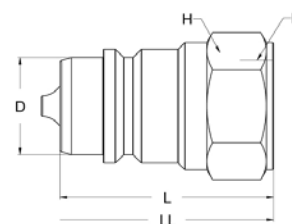
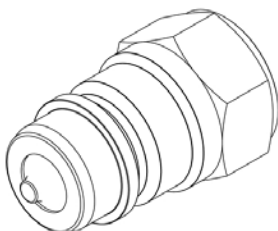
PT391	CDINB (D)	G (E)	D	L	LL	H				
1TCBDM38	3/8	G3/8-19f	18,95	40,5	81	24				
1TCBDM12	1/2	G1/2-14f	20,5	46	87,5	27				

LL : total length of the assembled components

Quick coupling Male truck X Female BSPP

QCP M CCAM X FG

PT393	CCAM	G (E)	L	LL	H	H1				
1TCCAM16	3/4	G3/4-14f	78	132,5	46	50				
1TCCAM20	1"	G1"-11f	83	145	55	60				

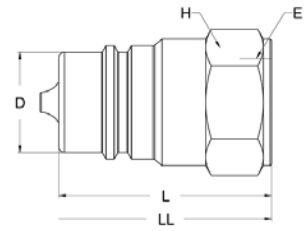
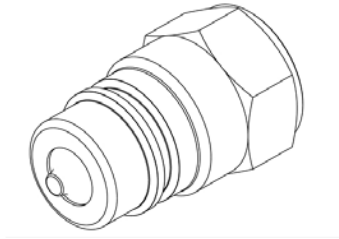
Warning : do not assemble or disassemble if the system is under pressure.

Quick coupling Male DIN with valve X Female BSPP

QCP M CDINC X FG

PT395	G	D	L	LL	Six Pans					
1TCCDM14	G1/4-19f	14,2	36	72	19					
1TCCDM38	G3/8-19f	18,95	40,5	81	24					
1TCCDM12	G1/2-14f	20,5	46	87,5	27					
1TCCDM34	G3/4-14f	27,95	56	112	36					
1TCCDM100	G1"-11f	31,3	65	126	41					

LL : total length of the assembled components

Quick coupling Male ISO A X Female BSPP

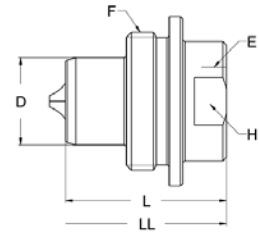


QCP M CISOA X FG

PT397	CISOA (D)	G (E)	D	L	LL	H				
1TCCIM34	3/4	G3/4-14f	29	56	112	36				

LL : total length of the assembled components

Quick coupling Male to screw X Female BSPP

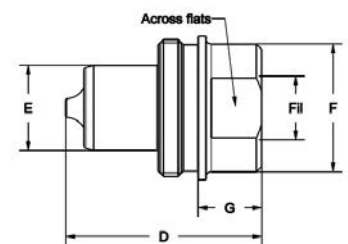
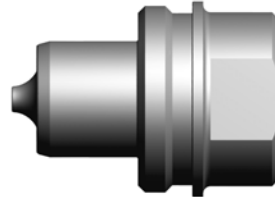
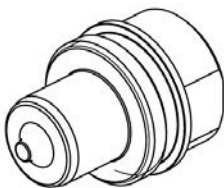


QCP M CAVIS X FG

PT399	CAVIS (D)	G (E)	F	D	L	LL	H			
1TCVCM14	1/4	G1/4-19f	M27X1,5	14,9	34	68	19			

LL : total length of the assembled components

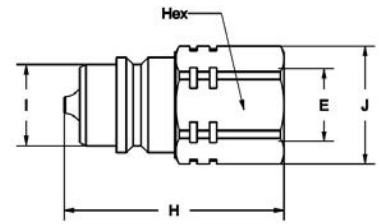
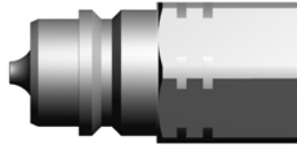
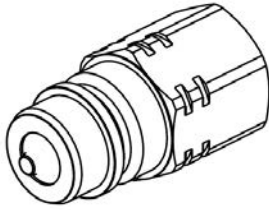
Quick coupling with Valve Male to screw X Female BSPP



QCP CLAP M CAVIS X FG

PT423	G	D	E	F	G	Sur plats				
1TCVM04	G1/4-19f	35	15	23	11.5	19				
1TCVM06	G3/8-19f	42	19	26	13	23				
1TCVM08	G1/2-14f	50	22	32	19.5	27				
1TCVM12	G3/4-14f	63	29	42	26	35				
1TCVM16	G1"-11f	71	36	48	30	41				

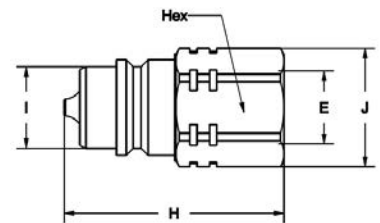
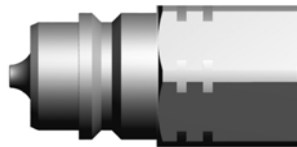
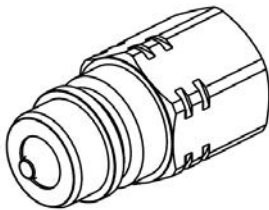
Quick coupling Male ISO A X BSP



QCP MCISOA X BSP

PT2005	BSP	H	I	Six Pans						
1TCCIAM14BSP	1/4-19f	36	11,8	19						
1TCCIAM38BSP	3/8-19f	41,5	17,3	23						
1TCCIAM12BSP	1/2-14f	49	20,5	27						
1TCCIAM34BSP	3/4-14f	61,5	29,1	35						
1TCCIAM100BSP	1"-11f	71,5	34,3	41						

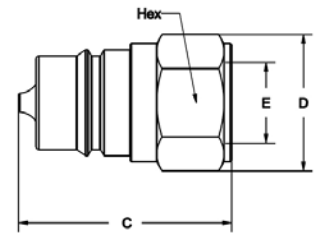
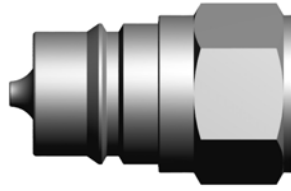
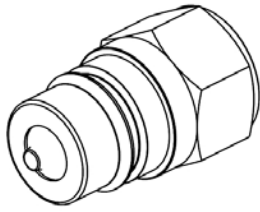
Quick coupling Male ISO A X NPT



QCP MCISOA X NPT

PT2019	NPT	H	I	Six Pans						
1TCCIAM14NPT	1/4-18f	36	11,8	19						
1TCCIAM38NPT	3/8-18f	41,5	17,3	23						
1TCCIAM12NPT	1/2-14f	49	20,5	27						
1TCCIAM34NPT	3/4-14f	61,5	29,1	35						
1TCCIAM100NPT	1"-11f	71,5	34,3	41						

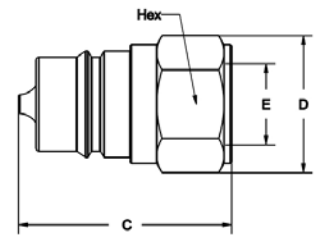
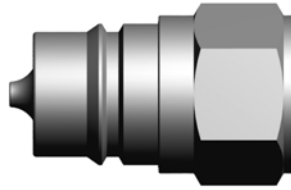
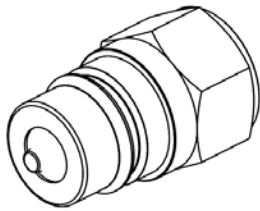
Quick coupling Male ISO B X NPT



QCP MCISOB X NPT

PT2009	NPT	C	E	Six Pans						
5H2K16NPT	1/4-18f	38.6	14.2	19.1						
5H3K21NPT	3/8-18f	44.7	15.5	22.4						
5H4KP26NPT	1/2-14f	51.6	19.3	28.7						
5H6KP31NPT	3/4-14f	59.9	18.0	33.3						
5H8KP36NPT	1"-11f	72.4	24.6	41.4						

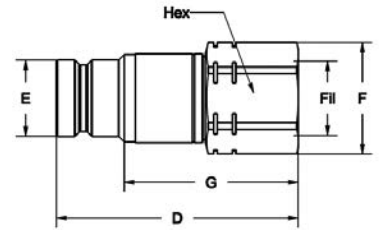
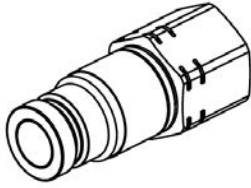
Quick coupling Male ISO B X BSP



QCP MCISOB X BSP

PT2011	BSP	C	E	Six Pans						
5H2K16BSP	1/4-19f	38.6	14.2	19.1						
5H3K21BSP	3/8-19f	44.7	15.5	22.4						
5H4KP26BSP	1/2-14f	51.6	19.3	28.7						
5H6KP31BSP	3/4-14f	59.9	18.0	33.3						
5H8KP36BSP	1"-11f	72.4	24.6	41.4						

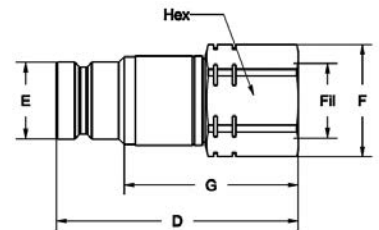
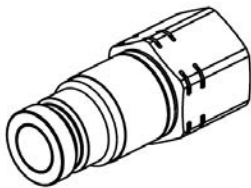
Quick coupling Male Flat face (ISO 16028) X NPT



QCP MCFF X NPT

PT2001	NPT	D	E	G	Six Pans					
1TCFFM14NPT	1/4 18f	51	16.2	40.1	22					
1TCFFM38NPT	3/8-18f	65	19.7	49.7	27					
1TCFFM12NPT	1/2-14f	72	24.5	55	36					
1TCFFM34BSP	3/4	74.5	24.6		36					
1TCFFM34NPT	3/4-14f	93.8	29.9	72	42					
1TCFFM100NPT	1"-11,5f	104.6	36	81.7	55					
1TCFFM114NPT	1"1/4-11,5f	105	44	81.7	55					
1TCFFM112NPT	1"1/2-11,5f	111.1	57.1	82.5	65					
1TCFFM200NPT	2"-11,5f	123.8	72.9	84.9	75					

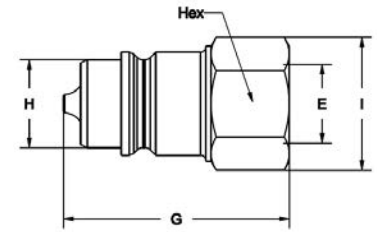
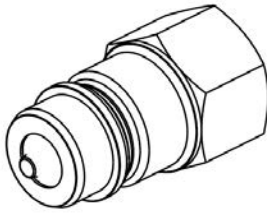
Quick coupling Male Flat face (ISO 16028) X BSP



QCP MCFF X BSP

PT2012	BSP	D	E	G	Six Pans					
1TCFFM14BSP	1/4-18f	52	16.2		22					
1TCFFM38BSP	3/8-19f	60.5	19.8		30					
1TCFFM12BSP	1/2	60.5	19.8		30					
1TCFFM100BSP	1"	86	30		41					
1TCFFM112BSP	1"1/2-11f	111.1	57.1	82.5	65					
1TCFFM200BSP	2"-11f	123.8	72.9	84.9	75					

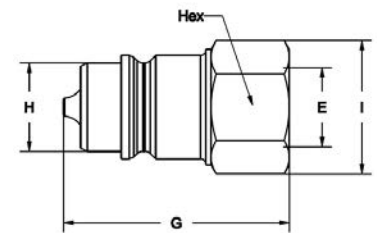
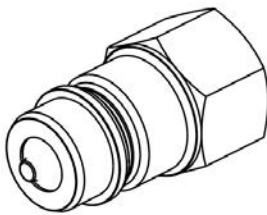
Quick coupling Male H5000 X NPT



QCP MCH5 X NPT

PT2013	NPT	G	H	I	six Pans					
5HHA0520200NPT	1/8-27f	28	11	10	16					
5HHA0521200NPT	1/4-18f	35	14.2	14	19					
5HHA0522200NPT	3/8-18f	42	19	18	23					
5HHA0523200NPT	1/2-14f	50	20.6	24	27					
5HHA0524200NPT	3/4-14f	63	27.9	28	35					
5HHA0525200NPT	1"-11f	71	32.4	31	41					

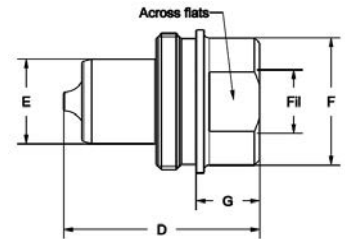
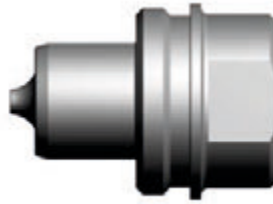
Quick coupling Male H5000 X BSP



QCP MCH5 X BSP

PT2102	BSP	G	H	J	Six Pans					
5HHA0500200BSP	1/8-28f	28	11	10	16					
5HHA0501200BSP	1/4-19f	35	14.2	14	19					
5HHA0502200BSP	3/8-19f	42	19	18	23					
5HHA0503200BSP	1/2-14f	50	20.6	24	27					
5HHA0504200BSP	3/4-14f	63	27.9	28	35					
5HHA0505200BSP	1"-11f	71	32.4	31	41					

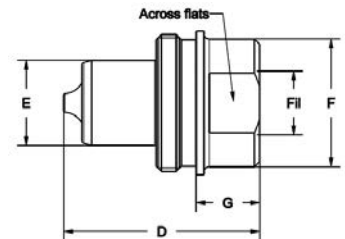
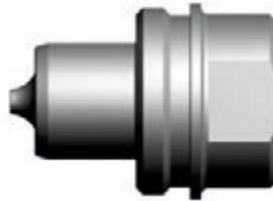
Quick coupling Male to screw X NPT



QCP MCAVIS X NPT

PT2014	NPT	D	E	F	G	Sur plats				
5HWA0621400NPT	1/4-18f	35	15	23	11.5	19				
5HWA0622400NPT	3/8-18f	42	19	26	13	23				
5HWA0623400NPT	1/2-14f	50	22	32	19.5	27				
5HWA0624400NPT	3/4-14f	63	29	42	26	35				
5HWA0625400NPT	1"-11f	71	36	48	29	41				

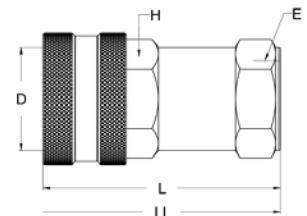
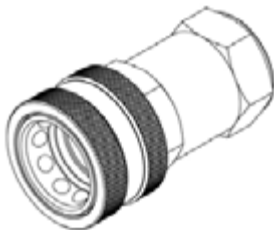
Quick coupling Male to screw X BSP



QCP MCAVIS X BSP

PT2106	BSP	D	E	F	G	Sur plats				
5HWA0601400BSP	1/4-19f	35	15	23	11.5	19				
5HWA0602400BSP	3/8-19f	42	19	26	13	23				
5HWA0603400BSP	1/2-14f	50	22	32	19.5	27				
5HWA0604400BSP	3/4-14f	63	29	42	26	35				
5HWA0605400BSP	1"-11f	71	36	48	29	41				

Quick coupling Female DIN with ball X Female BSPP

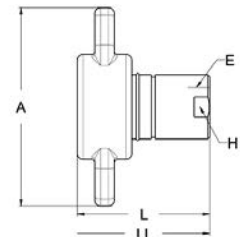
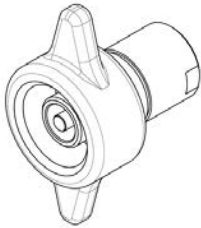


QCP F CDINB X FG

PT390	CDINB (D)	G (E)	D	L	LL	H				
1TCBDF38	3/8	G3/8-19f	21,6	61	81	27				
1TCBDF12	1/2	G1/2-14f	23,8	63,5	87,5	30				

LL : total length of the assembled components

Quick coupling Female truck X Female BSPP

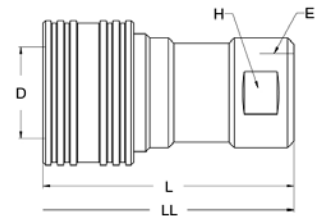


QCP F CCAM X FG

PT392	CCAM	G (E)	L	LL	A	H				
1TCCAF16	3/4	G3/4-14f	77	132,5	110	33				
1TCCAF20	1"	G1"-11f	83	145	110	40				

Warning : do not assemble or disassemble if the system is under pressure.

Quick coupling Female DIN with valve X Female BSPP

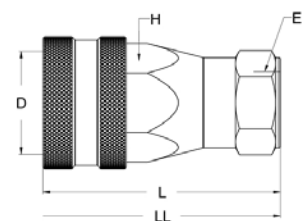


QCP F CDINC X FG

PT394	G	D	L	LL	H					
1TCCDF14	G1/4-19f	17	53,5	72	22					
1TCCDF38	G3/8-19f	21,6	61	81	27					
1TCCDF12	G1/2-14f	23,8	63,5	87,5	30					
1TCCDF34	G3/4-14f	31,1	85	112	38					
1TCCDF100	G1"-11f	34,6	96,5	126	46					

LL : total length of the assembled components

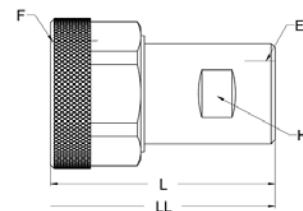
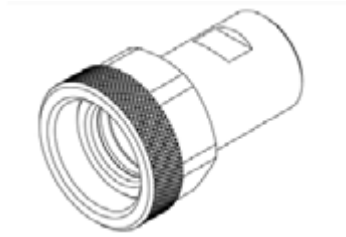
Quick coupling Female ISO A X Female BSPP



QCP F CISOA X FG

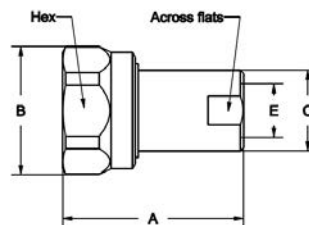
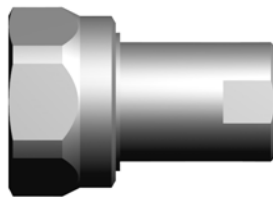
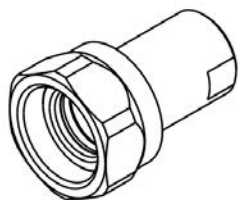
PT396	CISOA (D)	G (E)	D	L	LL	H				
1TCCIF34	3/4	G3/4-14f	30,7	83,5	112	38				

LL : total length of the assembled components

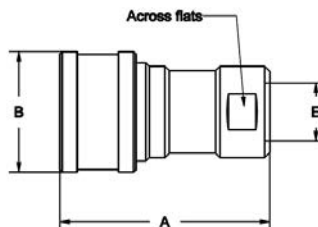
Quick coupling Female to screw X Female BSPP

QCP F CAVIS X FG

PT398	CAVIS (F)	G (E)	F	L	LL	H				
1TCVCF14	1/4	G1/4-19f	M27X1,5	57	68	19				

LL : total length of the assembled components

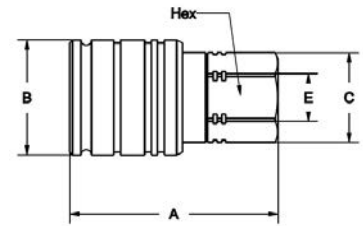
Quick coupling with Valve Female to screw X Female BSPP

QCP CLAP F CAVIS X FG

PT433	G (E)	A	B	C	Sur plats	Six Pans				
1TCVF04	G1/4-19f	53	35	21	19	32				
1TCVF06	G3/8-19f	54	38	25	23	35				
1TCVF08	G1/2-14f	74	45	29	27	41				
1TCVF12	G3/4-14f	91	55	38	35	50				
1TCVF16	G1"-11f	103	69	46	41	63				

Quick coupling Female ISO B X BSP

QCP FISO B X BSP

PT2015	BSP	A	B	Sur plats						
5H2H16BSP	1/4-19f	58.7	29.0	19.1						
5H3H21BSP	3/8-19f	65.0	36.1	22.4						
5H4H26BSP	1/2-14f	75.2	47.2	28.7						
5H6H31BSP	3/4-14f	88.4	56.4	33.3						
5H8HP36BSP	1"-11f	104.9	66.3	44.5						

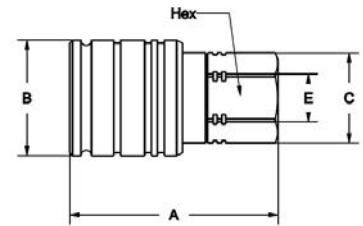
Quick coupling Female ISO A X BSP



QCP FCISOA X BSP

PT2004	BSP	A	B	Six Pans						
1TCCIAF14BSP	1/4-19f	57	30	19,1						
1TCCIAF38BSP	3/8-19f	65	36	22,4						
1TCCIAF12BSP	1/2-14f	75	47	28,7						
1TCCIAF34BSP	3/4-14f	88	56,5	33,3						
1TCCIAF100BSP	1"-11f	105	66	44,5						

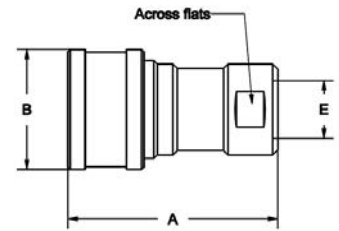
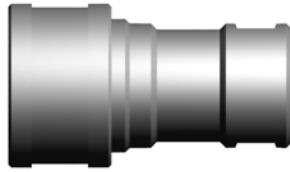
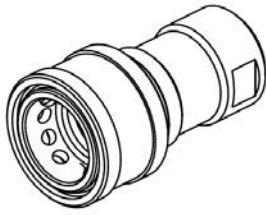
Quick coupling Female ISO A X NPT



QCP FCISOA X NPT

PT2020	NPT	A	B	Six Pans						
1TCCIAF14NPT	1/4-18f	57	30	19,1						
1TCCIAF38NPT	3/8-18f	65	36	22,4						
1TCCIAF12NPT	1/2-14f	75	47	28,7						
1TCCIAF34NPT	3/4-14f	88	56,5	33,3						
1TCCIAF100NPT	1"-11f	105	66	44,5						

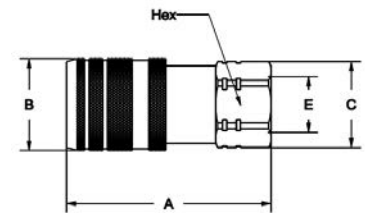
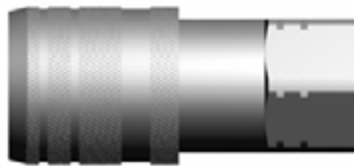
Quick coupling Female ISO B X NPT



QCP FCISOB X NPT

PT2008	NPT	A	B	Sur plats						
5H2H16NPT	1/4-18f	57.4	29.0	19.1						
5H3H21NPT	3/8-18f	65.0	36.1	22.4						
5H4H26NPT	1/2-14f	75.2	47.2	28.7						
5H6H31NPT	3/4-14f	88.4	56.4	33.3						
5H8HP36NPT	1"1/2-11f	104.9	66.3	44.5						

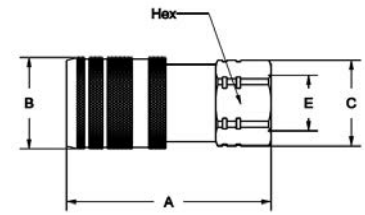
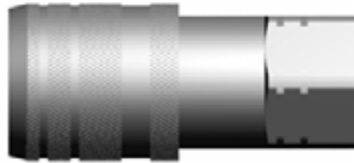
Quick coupling Female Flat face (ISO 16028) X NPT



QCP FCFF X NPT

PT2000	NPT	A	B	Six Pans						
1TCFFF14NPT	1/4-18f	54	27	22						
1TCFFF38NPT	3/8-18f	67.8	32	27						
1TCFFF12NPT	3/4-14f	86	38.2	36						
1TCFFF34NPT	3/4-14f	96.6	46.2	42						
1TCFFF100NPT	1"-11,5f	103.5	55.2	55						
1TCFFF114NPT	1"1/4-11,5f	125.1	65	55						
1TCFFF112NPT	1"1/2-11,5f	132.4	80	65						
1TCFFF200NPT	2"-11,5f	156.6	100	80						

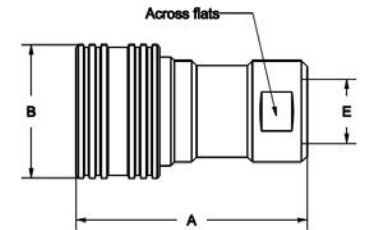
Quick coupling Female Flat face (ISO 16028) X BSP



QCP FCFF X BSP

PT2016	BSP	A	B	Six Pans						
1TCFFF14BSP	1/4-19f	58.5	28	22						
1TCFFF38BSP	3/8	60.5	32	30						
1TCFFF12BSP	1/2	73.5	32	30						
1TCFFF34NBSP	3/4-14f	96.6	46.2	42						
1TCFFF100BSP	1"	97.5	48	41						
1TCFFF112BSP	1"1/2-11f	132.4	80	65						
1TCFFF200BSP	2"-11f	156.6	100	80						

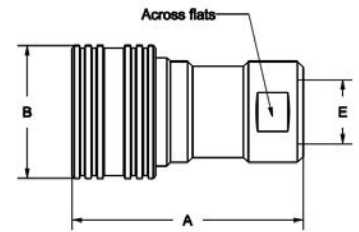
Quick coupling Female H5000 X NPT



QCP FCH5 X NPT

PT2017	NPT	A	B	Six Pans						
5HHA0520100NPT	1/8-27f	42	24	16						
5HHA0521100NPT	1/4-18f	50	28	19						
5HHA0522100NPT	3/8-18f	59	34	23						
5HHA0523100NPT	1/2-14f	69	38	27						
5HHA0524100NPT	3/4-14f	89	48	35						
5HHA0525100NPT	1"1/2-11f	99	52	41						

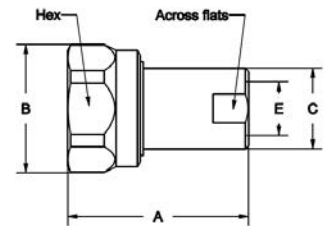
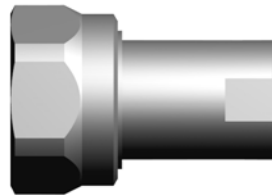
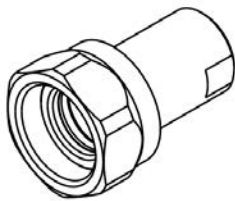
Quick coupling Female H5000 X BSP



QCP FCH5 X BSP

PT2101	BSP	A	B	Six Pans						
5HHA0500100BSP	1/8-28f	42	24	16						
5HHA0501100BSP	1/4-19f	50	28	19						
5HHA0502100BSP	3/8-19f	59	34	23						
5HHA0503100BSP	1/2-14f	69	38	27						
5HHA0504100BSP	3/4-14f	89	48	35						
5HHA0505100BSP	1"-11f	99	52	41						

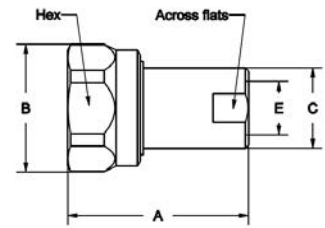
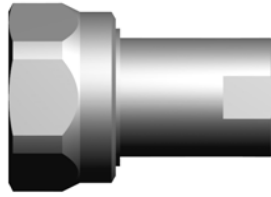
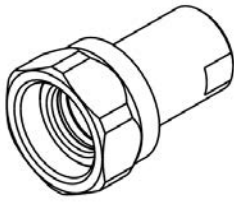
Quick coupling Female to screw X NPT



QCP FCAVIS X NPT

PT2018	NPT	A	B	C	Sur plats	Six Pans				
5HWA0621700NPT	1/4-18f	53	35	21	19	32				
5HWA0622700NPT	3/8-18f	65	38	25	23	35				
5HWA0623700NPT	1/2-14f	74	45	29	27	41				
5HWA0624700NPT	3/4-14f	91	55	38	35	50				
5HWA0625700NPT	1"-1/2-11f	103	69	46	41	65				

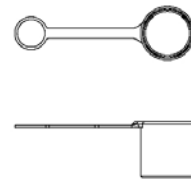
Quick coupling Female to screw X BSP



QCP FCAVIS X BSP

PT2105	BSP	A	B	C	Sur plats	Six Pans				
5HWA0601700BSP	1/4-19f	53	35	21	19	32				
5HWA0602700BSP	3/8-19f	65	38	25	23	35				
5HWA0603700BSP	1/2-14f	74	45	29	27	41				
5HWA0604700BSP	3/4-14f	91	55	38	35	50				
5HWA0605700BSP	1"-11f	103	69	46	41	65				

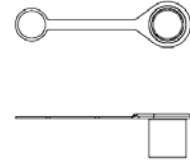
Plug / Cap for coupling Plastic Female for coupling Male Flat face (ISO 16028)



CAP PLAST F PCPL M CFF

PT2002	Body size									
1TBFFF14	1/4									
1TBFFF38	3/8									
1TBFFF12	1/2									
1TBFFF34	3/4									
1TBFFF100	1"									
1TBFFF112	1"1/2									
1TBFFF200	2"									

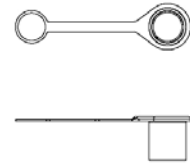
Plug / Cap for coupling Plastic Male for coupling Female Flat face (ISO 16028)



CAP PLAST M PCPL F CFF

PT2003	Body size									
1TBFFM14	1/4									
1TBFFM38	3/8									
1TBFFM12	1/2									
1TBFFM34	3/4									
1TBFFM100	1"									
1TBFFM112	1"1/2									
1TBFFM200	2"									

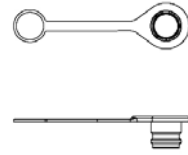
Plug / Cap for coupling Plastic Female for coupling Male ISO A



CAP PLAST F PCPL M CISOA

PT2006	Body size									
1TBIAM14	1/4									
1TBIAM38	3/8									
1TBIAM12	1/2									
1TBIAM34	3/4									
1TBIAM100	1"									

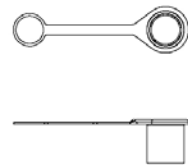
Plug / Cap for coupling Plastic Male for coupling Female ISO A



CAP PLAST M PCPL F CISOA

PT2007	Body size									
1TBIAF14	1/4									
1TBIAF38	3/8									
1TBIAF12	1/2									
1TBIAF34	3/4									
1TBIAF100	1"									

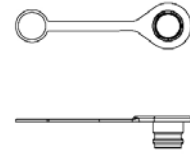
Plug / Cap for coupling Plastic Female for coupling Male ISO B



CAP PLAST F PCPL M CISOB

PT2010	Body size									
5HM2HK	1/4									
5H3MHK	3/8									
5H4MHK	1/2									
5H6MHK	3/4									
5H8MHK	1"									

Plug / Cap for coupling Plastic Male for coupling Female ISO B



CAP PLAST M PCPL F CISOB

PT2100	Body size									
5HF2HK	1/4									
5H3FHK	3/8									
5H4FHK	1/2									
5H6FHK	3/4									
5H8FHK	1"									

Plug / Cap for coupling Aluminium Male for coupling Female H5000



CAP ALU M PCPL F CH5

PT2103	Body size									
5HHD0510100	1/8									
5HHD0511100	1/4									
5HHD0512100	1/2									
5HHD0513100	1/2									
5HHD0514100	3/4									
5HHD0515100	1"									

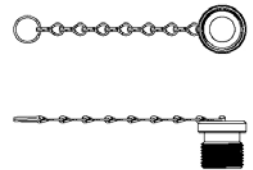
Plug / Cap for coupling Aluminium Female for coupling Male H5000



CAP ALU F PCPL M CH5

PT2104	Body size									
5HHD0510200	1/8									
5HHD0511200	1/4									
5HHD0512200	1/2									
5HHD0513200	1/2									
5HHD0514200	3/4									
5HHD0515200	1"									

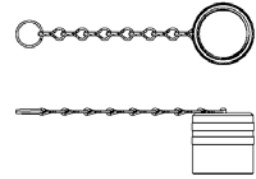
Plug / Cap for coupling Aluminium Male for coupling Female to screw



CAP ALU M PCPL F CAVIS

PT2107	Body size									
5HWD0611700	1/4									
5HWD0612700	3/8									
5HWD0613700	1/2									
5HWD0614700	3/4									
5HWD0615700	1"									

Plug / Cap for coupling Aluminium Female for coupling Male to screw



CAP ALU F PCPL M CAVIS

PT2108	Body size									
5HWD0611400	1/4									
5HWD0612400	3/8									
5HWD0613400	1/2									
5HWD0614400	3/4									
5HWD0615400	1"									

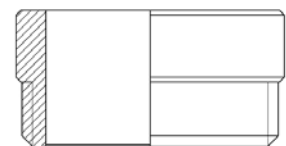
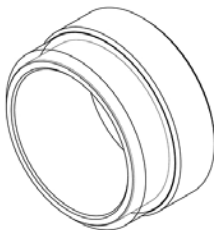
Plug / Cap for coupling Steel Female for coupling truck Male



CAP STEEL F PCPL CCAM M

PT386	CCAM									
1TBCAM16	3/4									
1TBCAM20	1"									

Plug / Cap for coupling Steel for coupling truck Weld-on



CAP STEEL PCPL CCAM WELD

PT441	CCAM									
1TBCAS20	1"									

Banding systems and accessories



Band 201 stainless steel



BAND201 SS201

PT1505	l (mm)	l (inch)	e (mm)	Newton 					Kg 	L (m)
6BC202	6.35	1/4	0.51	2215					0.8	30.5
6BC203	9.53	3/8	0.63	4000					1.5	30.5
6BC204	12.70	1/2	0.76	6660					2.3	30.5
6BC205	15.88	5/8	0.76	8300					2.9	30.5
6BC206	19.05	3/4	0.76	10000					3.5	30.5

W = width th = thickness L = Length

All the sizes are packaged in cardboard boxes or in plastic dispensers except for the reference 6BC202 that is only delivered in cardboard boxes (refer to the table below).

Use with 201 stainless steel band and buckles (references 6BC252 to 6BC256).

Installation tools:

C001 Tool used to apply bands ranging up to 19.05 mm in width

C400 Ratchet tool used to apply bands ranging up to 19.05mm in width

C065 Tension limiter. Used with the C001 tool

J020 Pok-It tool to apply bands of 6.35mm or 9.53mm

C003 Heavy-duty tool

Band dispenser 201 stainless steel



BANDISP201 SS201

PT1506	l (mm)	l (inch)	e (mm)	Newton 					Kg 	L (m)
6BC203Y	9.53	3/8	0.63	4000					1.6	30.5
6BC204B	12.70	1/2	0.76	6660					2.5	30.5
6BC205G	15.88	5/8	0.76	8300					3.1	30.5
6BC206R	19.05	3/4	0.76	10000					3.7	30.5

W = width th = thickness L = Length

The 6.35mm (1/4") bands are not available with a dispenser.

Buckle Band 201 stainless steel



BUCKLE201 BAND201 SS201

PT1507	l (mm)	l (inch)							Kg 	box
6BC252	6.35	1/4							0.1	100
6BC253	9.53	3/8							0.4	100
6BC254	12.70	1/2							1.0	100
6BC255	15.88	5/8							1.1	100
6BC256	19.05	3/4							1.7	100

W = width

Use with the 201 stainless steel band (references 6BC202 to 6BC206).

Band 316 stainless steel



BAND316 SS316

PT1526	l (mm)	l (inch)	e (mm)	Newton 					Kg 	L (m)
6BC403	9.53	3/8	0.63	3400					1.6	30.5
6BC404	12.70	1/2	0.76	5440					2.2	30.5
6BC405	15.88	5/8	0.76	6800					2.8	30.5
6BC406	19.05	3/4	0.76	8160					3.4	30.5

W = width th = thickness L = Length

All sizes are packaged in cardboard boxes or in plastic dispensers.

Use with 316 stainless steel band and buckles (references 6BC453 to 6BC456).

Installation tools:

C001 Tool used to apply bands ranging up to 19.05 mm in width

C400 Ratchet tool used to apply bands ranging up to 19.05mm in width

C065 Tension limiter. Used with the C001 tool

J020 Pok-It tool to apply bands of 6.35mm or 9.53mm

C003 Heavy-duty tool

Band dispenser 316 stainless steel



BANDISP316 SS316

PT1527	l (mm)	l (inch)	e (mm)	Newton 					Kg 	L (m)
6BC403Y	9.53	3/8	0.63	3400					1.7	30.5
6BC404B	12.70	1/2	0.76	5440					2.6	30.5
6BC405G	15.88	5/8	0.76	6800					3.1	30.5
6BC406R	19.05	3/4	0.76	8160					3.7	30.5

W = width th = thickness L = Length

The 6.35mm (1/4") bands) are not available with a dispenser.

Buckle Band 316 stainless steel



BUCKLE316 BAND316 SS316

PT1528	l (mm)	l (inch)							Kg 	box
6BC453	9.53	3/8							0.4	100
6BC454	12.70	1/2							1.0	100
6BC455	15.88	5/8							1.1	100
6BC456	19.05	3/4							1.7	100

W = width

Use with the 316 stainless steel band (references 6BC403 to 6BC406).

Giant band 201 stainless steel



BANDGIANT SS201

PT1508	l (mm)	l (inch)	e (mm)						Kg 	L (m)
6BG430	19.05	3/4	1.10						5.4	30.5
6BG431	25.45	1"	1.10						6.4	30.5
6BG432	31.8	1"1/4	1.10						8.0	30.5

W = width th = thickness L = Length

All sizes are only packaged in cardboard boxes (does not exist with dispensers).
Use with Ear-Lokt giant bands (references 6BG440 to 6BG442).
Installation tool: G402 giant tool.

Ear-Lokt buckle Giant band 201 stainless steel



BUCKLEAR BANDGIANT SS201

PT1509	l (mm)	l (inch)							Kg 	box
6BG440	19.05	3/4							0.8	25
6BG441	25.45	1"							1.1	25
6BG442	31.8	1"1/4							1.4	25

W = width

Use with 201 stainless steel giant bands (references 6BC430 to 6BC432).

Tie-Lok clamp 304 stainless steel



TIELOCK SS304

PT1519	l (mm)	l (inch)	ID mm	ID inch					box	L (mm)
6BAS211	6.4	1/4	51	2"					100	254
6BAS212	6.4	1/4	101	4"					100	419
6BAS213	6.4	1/4	152	6"					100	572
6BAS214	6.4	1/4	203	8"					100	737
6BAS215	6.4	1/4	254	10"					100	889

W = width ID = Inside Diameter L = Length

Installation tool: A920 Tie-Lok & IT1000 pneumatic tool.

Tie-Lok clamp 316 stainless steel



TIELOCK SS316

PT1530	l (mm)	l (inch)	ID mm	ID inch				Kg 	box	L (mm)
6BAS411	6.4	1/4	51	2"				0.6	100	254
6BAS412	6.4	1/4	101	4"				0.9	100	419
6BAS413	6.4	1/4	152	6"				1.2	100	572
6BAS414	6.4	1/4	203	8"				1.5	100	737
6BAS415	6.4	1/4	254	10"				1.8	100	889

W = width ID = Inside Diameter L = Length

Installation tool: A920 Tie-Lok.

Tie-Lok mini clamp 304 stainless steel



MINITIELOC SS304

PT1520	l (mm)	l (inch)	ID mm	ID inch					Kg 	boite
6BAS221	4.5	0.177	25	1"					0.3	100
6BAS222	4.5	0.177	51	2"					0.4	100
6BAS223	4.5	0.177	102	4"					0.7	100
6BAS224	4.5	0.177	152	6"					0.9	100
6BAS225	4.5	0.177	203	8"					1.1	100

W = width ID = Inside Diameter L = Length

Installation tool: A910 Mini Tie-Lok

Tie-Lok mini clamp 316 stainless steel



MINITIELOC SS316

PT1531	l (mm)	l (inch)	ID mm	ID inch					Kg 	box
6BAS421	4.5	0.177	21	1"					0.3	100
6BAS422	4.5	0.177	51	2"					0.4	100
6BAS423	4.5	0.177	102	4"					0.7	100
6BAS424	4.5	0.177	152	6"					0.9	100
6BAS425	4.5	0.177	203	8"					1.1	100

W = width ID = Inside Diameter L = Length

Installation tool: A910 Mini Tie-Lok

Center Punch clamp 201 stainless steel



CLAMCP SS201

PT1532	l (mm)	l (inch)	e (mm)	ID mm	ID inch				Kg 	box
6BCP6S	15.9	5/8	0.64	38	1"1/2				4.4	100
6BCP8S	15.9	5/8	0.64	51	2"				5.2	100
6BCP10S	15.9	5/8	0.64	64	2"1/2				3.1	50
6BCP12S	15.9	5/8	0.64	76	3"				3.5	50
6BCP14S	15.9	5/8	0.64	89	3"1/2				4.0	50
6BCP16S	15.9	5/8	0.64	102	4"				2.2	25
6BCP18S	15.9	5/8	0.64	114	4"1/2				2.5	25
6BCP20S	15.9	5/8	0.64	127	5"				2.7	25

W = width th = thickness ID = Inside Diameter

Installation tool: S038 Center Punch, T30069 Center Punch, SM1700 pneumatic Center Punch tool

Characteristics:

For a less demanding use with regard to leaks or longevity.

Lock with impact from a hammer and conical punch: not recommended for use with fittings that may crack as a result of impact.

Junior smooth ID pre-formed clamp 201 stainless steel



CLAMJRS SS201

PT1525	l (mm)	l (inch)	e (mm)	ID mm	ID inch				Kg 	box
6BJS240	6.4	1/4	0.51	20	13/16				0.9	100
6BJS242	6.4	1/4	0.51	25	1"				1.0	100
6BJS241	6.4	1/4	0.51	34	1"3/8				1.1	100
6BJS252	6.4	1/4	0.51	38	1"1/2				1.2	100
6BJS253	6.4	1/4	0.51	50	2"				1.5	100
6BJS220	6.4	1/4	0.51	63	2"1/2				1.7	100
6BJS256	6.4	1/4	0.51	69	2"3/4				1.7	100
6BJS244	6.4	1/4	0.51	76	3"				1.9	100
6BJS257	6.4	1/4	0.51	88	3"1/2				2.1	100
6BJS258	6.4	1/4	0.51	101	4"				2.4	100
6BJS259	6.4	1/4	0.51	114	4"1/2				2.6	100
6BJS201	9.6	3/8	0.64	20	13/16				1.6	100
6BJS243	9.6	3/8	0.64	25	1"				1.8	100
6BJS202	9.6	3/8	0.64	34	1"3/8				2.3	100
6BJS245	9.6	3/8	0.64	50	2"				2.7	100
6BJS221	9.6	3/8	0.64	63	2"1/2				3.1	100
6BJS246	9.6	3/8	0.64	76	3"				3.4	100
6BJS255	9.6	3/8	0.64	88	3"1/2				3.9	100
6BJS248	9.6	3/8	0.64	101	4"				4.3	100
6BJS203	12.7	1/2	0.76	25	1"				3.0	100
6BJS204	12.7	1/2	0.76	31	1"1/4				3.3	100
6BJS231	12.7	1/2	0.76	38	1"1/2				3.7	100
6BJS236	12.7	1/2	0.76	44	1"3/4				4.0	100
6BJS237	12.7	1/2	0.76	50	2"				4.3	100
6BJS233	12.7	1/2	0.76	63	2"1/2				4.9	100
6BJS230	12.7	1/2	0.76	69	2"3/4				5.1	100
6BJS234	12.7	1/2	0.76	76	3"				5.5	100
6BJS247	12.7	1/2	0.76	88	1"1/2				6.2	100
6BJS249	12.7	1/2	0.76	101	4"				6.8	100
6BJS205	15.9	5/8	0.76	38	1"1/2				4.7	100
6BJS206	15.9	5/8	0.76	44	1"3/4				5.1	100
6BJS207	15.9	5/8	0.76	50	2"				5.5	100
6BJS208	15.9	5/8	0.76	57	2"1/4				6.0	100
6BJS209	15.9	5/8	0.76	63	2"1/2				6.3	100
6BJS227	19.1	3/4	0.76	50	2"				6.8	100
6BJS210	19.1	3/4	0.76	69	2"3/4				4.2	50
6BJS211	19.1	3/4	0.76	76	3"				4.4	50
6BJS212	19.1	3/4	0.76	88	3"1/2				4.9	50
6BJS213	19.1	3/4	0.76	101	4"				2.8	25
6BJS214	19.1	3/4	0.76	114	4"1/2				3.0	25
6BJS215	19.1	3/4	0.76	127	5"				3.3	25
6BJS270	19.1	3/4	0.76	133	5"1/4				3.3	25
6BJS216	19.1	3/4	0.76	152	6"				3.7	25
6BJS217	19.1	3/4	0.76	165	6"1/4				4.2	25
6BJS218	19.1	3/4	0.76	177	7"				4.6	25
6BJS219	19.1	3/4	0.76	203	8"				5.0	25

W = width th = thickness ID = Inside Diameter

Installation tool: Standard banding tool C001 with Junior clamp adapter J001 or high-resistance heavy-duty tool C003 with heavy-duty Junior adapter J050.

Characteristics:

Band width of 6.4mm x band thickness of 0.51mm from 240 to 259.

Band width of 9.5mm x band thickness of 0.64mm from 201 to 248.

Band width of 12.7mm x band thickness of 0.76mm from 203 to 249.

Band width of 15.9mm x band thickness of 0.76mm from 205 to 209.

Band width of 19.05mm x band thickness of 0.76mm from 227 to 219.

The non-perforated design of the inside surface prevents leaks, in particular for thin-walled hoses and withstands vibrations.

Locked with hand or pneumatic tool.

Ultra-Lok Smooth ID pre-formed clamp 201 stainless steel



CLAMULP SS201

PT1522	l (mm)	l (inch)	e (mm)	ID mm	ID inch				Kg 	box
6BUL2799	12.7*	1/2	0.76	38	1"1/2				4.1	100
6BUL2839	12.7*	1/2	0.76	50	2"				4.8	100
6BUL2869	12.7*	1/2	0.76	69	2"3/4				5.8	100
6BUL2919	12.7*	1/2	0.76	101	4"				7.6	100
6BUL2279	19.1	3/4	0.76	50	2"				6.8	100
6BUL2109	19.1	3/4	0.76	69	2"3/4				4.2	50
6BUL2119	19.1	3/4	0.76	76	3"				4.7	50
6BUL2129	19.1	3/4	0.76	88	3"1/2				4.9	50
6BUL2139	19.1	3/4	0.76	101	4"				2.9	25
6BUL2149	19.1	3/4	0.76	114	4"1/2				3.2	25
6BUL2159	19.1	3/4	0.76	127	5"				3.4	25
6BUL2709	19.1	3/4	0.76	139	5"1/2				3.3	25
6BUL2169	19.1	3/4	0.76	152	6"				3.8	25
6BUL2179	19.1	3/4	0.76	165	6"1/2				4.6	25
6BUL2189	19.1	3/4	0.76	177	7"				4.4	25
6BUL2199	19.1	3/4	0.76	203	8"				5.0	25
6BUL2289	19.1	3/4	0.76	228	9"				2.3	25

W = width th = thickness ID = Inside Diameter

Installation tools:

18V rechargeable hand tool UL4000.

110V/220V electric tool UL9010.

12.7 mm (1/2") bands require a shear plate.

Ultra-Lok Free-End clamp 201 stainless steel



CLAMULF SS201

PT1523	l (mm)	l (inch)	e (mm)	ID mm	ID inch			Kg 	box	L (mm)
6BUL1018	12.70*	1/2	0.76	76.2	3"			1.9	50	457
6BUL1024	12.70*	1/2	0.76	127.0	5"			2.4	50	610
6BUL1028	12.70*	1/2	0.76	76.2	3"			2.9	50	711
6BUL1032	12.70*	1/2	0.76	88.9	3 1/2"			3.3	50	813
6BUL1036	12.70*	1/2	0.76	101.6	4"			3.6	50	914
6BUL1046	12.70*	1/2	0.76	139.7	5 1/4"			2.7	25	1168
6BUL1056	12.70*	1/2	0.76	177.8	7"			3.2	25	1422
6BUL1070	12.70*	1/2	0.76	228.6	9"			3.9	25	1778
6BUL1086	12.70*	1/2	0.76	279.4	11"			4.6	25	2184
6BUL1096	12.70*	1/2	0.76	317.5	12 1/2"			5.1	25	2438
6BUL1106	12.70*	1/2	0.76	355.6	14"			5.6	25	2692
6BUL1116	12.70*	1/2	0.76	393.7	15 1/2"			6.0	25	2946
6BUL2030	19.05	3/4	0.76	96.5	3 7/8"			3.18	25	762
6BUL2040	19.05	3/4	0.76	127	5"			3.5	25	1016
6BUL2042	19.05	3/4	0.76	144.8	5 3/4"			3.18	25	1067
6BUL2051	19.05	3/4	0.76	181.6	7 1/16"			3.7	25	1295
6BUL2060	19.05	3/4	0.76	218.4	8 5/8"			3.7	25	1524
6BUL2084	19.05	3/4	0.76	315.0	12 7/16"			3.7	25	2134
6BUL2120	19.05	3/4	0.76	462.3	18 1/4"			3.7	25	3048

W = width th = thickness L = Length

Installation tools:

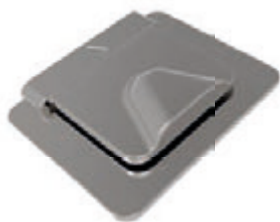
18V rechargeable hand tool UL4000.

110V/220V electric tool UL9010.

12.7 mm (1/2") bands require a shear plate.

A double wrap is recommended for hoses even though references with single wrap are also available.

Buckle for Ultra-Lok Free-End clamp 201 stainless steel



BUCKLEFREE SS201

PT1524	l (mm)	l (inch)							Kg 	box
6BUB2549	12.70	1/2							1.7	100
6BUB2569	19.05	3/4							1.7	100

W = width

Scru-Seal worm gear racked clamp



CLAMSCRU

PT1511									Kg 	boite
6BM211									0.3	10
6BC133									1.0	30.5m
6BC134									1.3	30.5m
6BM210									1.9	25
6BM218									2.3	10*3

Installation tool: Screwdriver

6BM211: Set of 10 racks and 10 nuts.

6BC133: 30.5 meters of bands, 3/8" (9.52mm) wide and 0.015mm thick.

6BC134: 30.5 meters of bands, 1/2" (12.7mm) wide and 0.015mm thick.

6BM210: Kit composed of 25 racks + 25 nuts + 30.5 meters of bands (3/8", 9.52mm).

6BM218: Kit composed of 10 boxes, each containing 3 racks + 3 nuts + 3 meters of bands (3/8", 9.52mm).

Scru-Bandworm gear clamp



CLAMSCRUS

PT1510									Kg 	boite
6BM150									1.3	100
6BM155									0.3	25
6BM151									1.6	30.5m
6BM156									1.8	25
6BM158									2.0	5

Installation tool: Screwdriver

Rack system with continuous roll.

Components and bands are packaged separately.

6BM150: Set of 100 nuts + 100 screws.

6BM155: Set of 25 nuts + 25 screws.

6BM151: 30.5 meters of 3/8" (9.5mm) wide band.

6BM156: Kit composed of 30.5 meters of bands + 25 nuts + 25 screws.

6BM158: Kit composed of 10 boxes, each containing: 3 meters of bands + 5 nuts + 5 screws.

Label I.D 304 stainless steel



TAG SS304

PT1512	l (mm)	l (inch)	e (mm)	L (mm)					Kg 	box
6BID100	19.05	3/4	0.254	51					0.22	100
6BID101	38.10	1"1/2	0.381	63					0.55	100
6BID102	19.05	3/4	0.381	89					0.36	100

W = width th = thickness L = Length

Label I.D 316 stainless steel



TAG SS316

PT1529	l (mm)	l (inch)	e (mm)	L (mm)					Kg 	box
6BID440	19.05	3/4	0.254	51					0.22	100
6BID441	38.10	1"1/2	0.381	63					0.55	100
6BID442	19.05	3/4	0.381	89					0.36	100

W = width th = thickness L = Length

ID tag printer



TAGPRINT

PT1513										
6BID200	2.37	3/32								
6BID202	1.58	1/16								
6BID203	3.17	1/8								
6BID204	4.74	3/16								
6BID205	6.35	1/4								

Set of characters for ID tag printer



TAGLETTER

PT1514	mm Z	Inch Z								
6BID281	1.59	1"1/16								
6BID282	3.18	1/8								
6BID283	4.76	3/16								
6BID284	6.35	1/4								
6BID290	2.38	3/32								

ID tag kit



IDKIT

PT1518										Kg 
6BID300										9.8

This kit is composed of a Tie-Lok tool in addition to:

- 200 19.05 x 51mm ID tags
- 100 38.1 x 63mm ID tags
- 100 19.05 x 89mm ID tags
- 100 Tie-Lok clamps, 6.35 x 254mm
- 200 Tie-Lok clamps, 6.35 x 419mm
- 100 Tie-Lok clamps, 6.35 x 572mm

Easy-Read band



EASYBAND

PT1517	l (mm)	l (inch)							Kg 	box	L (mm)
6BAE050	9.7	3/8							0.5	100	108
6BAE051	9.7	3/8							0.6	100	146
6BAE052	9.7	3/8							0.9	100	203

W = width L = Length

Easy-Read bands come in black as standard.

Easy-Read carrier



EASYCAR

PT1516	l (mm)	l (inch)							Kg 	L (mm)
6BAE043	9.7	3/8							0.4	93
6BAE044	9.7	3/8							0.6	131
6BAE045	9.7	3/8							0.7	188

W = width L = Length

For easy reading, Easy-Read carriers are coated in black.

Easy-Read character



EASYLETTER

PT1515	Lettre									Kg 	boite
6BAE010	A									0.14	100
6BAE011	B									0.14	100
6BAE012	C									0.14	100
6BAE013	D									0.14	100
6BAE014	E									0.14	100
6BAE015	F									0.14	100
6BAE016	G									0.14	100
6BAE017	H									0.14	100
6BAE018	I l									0.14	100
6BAE019	J									0.14	100
6BAE020	K									0.14	100
6BAE021	L 7									0.14	100
6BAE022	M W									0.14	100
6BAE023	N									0.14	100
6BAE024	O									0.14	100
6BAE025	P									0.14	100
6BAE026	Q									0.14	100
6BAE027	R									0.14	100
6BAE028	S									0.14	100
6BAE029	T									0.14	100
6BAE030	U									0.14	100
6BAE031	V									0.14	100
6BAE032	X									0.14	100
6BAE033	Y									0.14	100
6BAE034	Z									0.14	100
6BAE037	2									0.14	100
6BAE038	3									0.14	100
6BAE039	4									0.14	100
6BAE040	5									0.14	100
6BAE041	6 9									0.14	100
6BAE042	8									0.14	100
6BAE035	-									0.14	100
6BAE036	l									0.14	100
6BAE046	+									0.14	100
6BAE047	+-									0.14	100
6BAE048	~									0.14	100
6BAE049	/									0.14	100
6BAE060	*									0.14	100

EASY-READ kit AE0605

An assortment of characters, carriers and bands in a handy kit:

- Weight: 2.54 Kg
- This kit includes: a bag, 100 pieces of each character, the carriers and bands.

Mini-Tie-Lok hand tool A920



TLMANMTIE

PT1543										
6BA920										

Banding hand tool C001



TLMANULB

PT1540										
6BC001										

Giant tool 6402



TLMANG

PT1542	TUBE (D)									
6BG402										

Junior Heavy Duty adapter J050



TLMANJHA

PT1550										
6BJ050										

Junior clamp adapter J001



TLMANJCA

PT1547										
6BJ001										

Pok-It tool J020



TLMANPI

PT1541										
6BJ020										

Center Punch hand tool S038



TLMANCP038

PT1544										
6BS038										

Center Punch hand tool T300



TLMANCP300

PT1545										
6BT300										

Junior automatic tool S750



TLAUJR750

PT1555										
6BS750										

Junior automatic tool S350



TLAUJR350

PT1556										
6BS350										

Pneumatic tool



TLAUIT

PT1554										
6BIT1000										4.7
6BIT2000										4.7
6BIT5000										4.7
6BIT6000										4.7

Ultra-Lok automatic tool 9010



TLAUUL9010

PT1553										
6BUL9010										

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1BO21070.....	101	1BQ60180.....	124	1BU17062.....	75	1CA34205.....	72
1BO23076.....	101	1BQ70190.....	124	1BU19060.....	75	1CA34208.....	72
1BO23080.....	101	1BR19040.....	125	1BU19065.....	75	1CA34260.....	72
1BO23090.....	101	1BR19050.....	125	1BU22060.....	75	1CA34275.....	72
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1BO24096.....	101	1BR24070.....	125	1BU24120.....	75	1CA34290.....	72
1BO24098.....	101	1BR29080.....	125	1BU27180.....	75	1CA42270.....	72
1BO27095.....	101	1BR36100.....	125	1BU27190.....	75	1CA42300.....	72

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1CA45310.....	72	1CB45330.....	73	1CC42215.....	65	1CE19080.....	67
1CA45320.....	72	1CB50315.....	73	1CC42220.....	65	1CE19090.....	67
1CA50325.....	72	1CB50340.....	73	1CC42220.JO.....	66	1CE19100.....	67
1CA50330.....	72	1CB50345.....	73	1CC46210.....	65	1CE22105.....	67
1CA50335.....	72	1CB50350.....	73	1CC50223.....	65	1CE22110.....	67
1CA50340.....	72	1CB65355.....	73	1CC50225.....	65	1CE23065.....	67
1CA65110.....	72	1CB65357.....	73	1CC50230.....	65	1CE23100.....	67
1CA65350.....	72	1CB65360.....	73	1CC50230.JO.....	66	1CE24110.....	67
1CA77360.....	72	1CB77370.....	73	1CC65240.....	65	1CE24120.....	67
1CA95380.....	72	1CB90390.....	73	1CC77250.....	65	1CE24200.....	67
1CB12051.....	73	1CC11050.....	65	1CC90260.....	65	1CE27130.....	67
1CB12060.....	73	1CC12040.....	65	1CD14050.....	104	1CE27200.....	67
1CB12070.....	73	1CC12050.....	65	1CD17055.....	104	1CE27210.....	67
1CB14080.....	73	1CC12060.....	65	1CD19060.....	104	1CE32125.....	67
1CB14100.....	73	1CC14070.....	65	1CD23070.....	104	1CE32130.....	67
1CB14110.....	73	1CC14080.....	65	1CD30080.....	104	1CE32140.....	67
1CB16090.....	73	1CC16080.....	65	1CD32090.....	104	1CE32150.....	67
1CB16120.....	73	1CC16090.....	65	1CD41100.....	104	1CE32152.....	67
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1CB19140.....	73	1CC19096.....	65	1CD54100.....	104	1CE32155.....	67
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1CB22180.....	73	1CC22110.....	65	1CD71130.....	297	1CE41155.....	67
1CB22190.....	73	1CC22150.....	65	1CD71140.....	297	1CE41160.....	67
1CB22200.....	73	1CC22160.....	65	1CD71150.....	297	1CE42170.....	67
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1CB22230.....	73	1CC24130.....	65	1CD71180.....	297	1CE50165.....	67
1CB27220.....	73	1CC27170.....	65	1CD71190.....	297	1CE50170.....	67
1CB27230.....	73	1CC27180.....	65	1CD71200.....	297	1CE54180.....	67
1CB27240.....	73	1CC27190.....	65	1CD71210.....	297	1CE54190.....	67
1CB27250.....	73	1CC27190.JO.....	66	1CE14045.....	67	1CE71230.....	67
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1CG99006.....	297	1CJ21090.....	71	1CK27080.....	76	1CR16050.....	113
1CG99008.....	297	1CJ22030.....	71	1CK30090.....	76	1CR16060.....	160
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1CG99012.....	297	1CJ22080.....	71	1CK32074.....	76	1CR19064.....	160
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1CG99014.....	297	1CJ24160.....	71	1CK32110.....	76	1CR19070.....	113
1CG99016.....	297	1CJ27060.....	71	1CK34100.....	76	1CR19080.....	113
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1CG99024.....	297	1CJ30120.....	71	1CK38100.....	76	1CR22060.....	113
1CG99026.....	297	1CJ30185.....	71	1CK50110.....	76	1CR24090.....	113
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1CH99015.....	301	1CJ36200.....	71	1CQ17090.....	112	1CR30100.....	113
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1CH99018.....	301	1CJ36310.....	71	1CQ19085.....	113	1CR36130.....	113
1CH99020.....	301	1CJ46300.....	71	1CQ19090.....	112	1CR36140.....	160
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1CI99018.....	301	1CK22038.....	76	1CQ41160.....	112	1CS23190.....	111
1CI99020.....	301	1CK22040.....	76	1CQ42162.....	112	1CS24016.....	111
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1OX99022.....	163	1QH12050.....	159	1RA21070.....	281	1RD99814.....	286
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1OX99034.....	152	1QH22110.....	159	1RA42110.....	281	1RD99822.....	286
1OX99038.....	152	1QH22120.....	159	1RA50120.....	281	1RD99824.....	286
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1SG99020.....	192	1SI99094.....	189	1SP99230.....	212	1SR99100.....	247
1SG99030.....	192	1SI99110.....	222	1SP99240.....	212	1SR99110.....	247
1SG99040.....	192	1SI99114.....	222	1SP99250.....	212	1SR99112.....	247
1SG99050.....	192	1SI99118.....	222	1SP99260.....	212	1SR99120.....	246
1SG99060.....	192	1SI99122.....	222	1SP99270.....	212	1SR99130.....	246
1SG99080.....	192	1SI99126.....	222	1SP99280.....	212	1SR99140.....	246
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1SH99022.....	190	1SI99146.....	222	1SP99360.....	225	1SR99170.....	246
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1SH99032.....	190	1SI99158.....	222	1SP99390.....	225	1SR99183.....	246
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1SV99059.....	259	1SV99130.....	249	1SW34055.....	235	1TCCDF14.....	330
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1SV99061.....	258	1SV99145.....	249	1SW50075.....	235	1TCCDF38.....	330
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1SV99069.....	258	1SV99180.....	249	1TBFFF112.....	336	1TCCDM38.....	323
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1SV99074.....	266	1SV99320.....	268	1TBFFF38.....	336	1TCCIAF14BSP.....	332
1SV99075.....	270	1SV99330.....	268	1TBFFM100.....	337	1TCCIAF14NPT.....	332
1SV99076.....	270	1SV99340.....	268	1TBFFM112.....	337	1TCCIAF34BSP.....	332
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1SV99088.....	270	1SV99530.....	268	1TBIAM38.....	338	1TCCIAM34BSP.....	325
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1TCFFM200BSP.....	327	1TS99061.....	320	1TT99102.....	316	1TU99051.....	308
1TCFFM200NPT.....	327	1TS99071.....	320	1TT99112.....	316	1TU99053.....	307
1TCFFM34BSP.....	327	1TS99081.....	320	1TT99122.....	316	1TU99053SS.....	309
1TCFFM34NPT.....	327	1TS99091.....	320	1TT99132.....	316	1TU99053SSVT.....	310
1TCFFM38BSP.....	327	1TS99101.....	320	1TT99141.....	316	1TU99053VT.....	309
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1TCVF08.....	331	1TS99231.....	321	1TT99201.....	316	1TU99071.....	308
1TCVF12.....	331	1TS99241.....	321	1TT99212.....	316	1TU99073.....	307
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1TCVM08.....	324	1TS99431.....	319	1TT99506.....	320	1TU99081.....	308
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1WB20165.....	190	1WB60898.....	276	5HHA0500200BSP.....	328	5HWA0603400BSP.....	329
1WB20170.....	190	1WB60900.....	276	5HHA0501100BSP.....	335	5HWA0603700BSP.....	336
1WB20175.....	190	1WB60910.....	276	5HHA0501200BSP.....	328	5HWA0604400BSP.....	329
1WB20180.....	190	1WB60920.....	276	5HHA0502100BSP.....	335	5HWA0604700BSP.....	336
1WB20185.....	190	1WB60930.....	276	5HHA0502200BSP.....	328	5HWA0605400BSP.....	329
1WB20250.....	191	1WB60940.....	276	5HHA0503100BSP.....	335	5HWA0605700BSP.....	336
1WB20255.....	191	1WB60950.....	276	5HHA0503200BSP.....	328	5HWA0621400NPT.....	329
1WB20260.....	191	1WB60960.....	276	5HHA0504100BSP.....	335	5HWA0621700NPT.....	335
1WB20265.....	191	1WB60970.....	276	5HHA0504200BSP.....	328	5HWA0622400NPT.....	329
1WB20270.....	191	1WB60980.....	276	5HHA0505100BSP.....	335	5HWA0622700NPT.....	335
1WB20275.....	191	5H2H16BSP.....	331	5HHA0505200BSP.....	328	5HWA0623400NPT.....	329

5HWA0623700NPT.....	335	6BAE034.....	357	6BC001.....	358	6BG432.....	346
5HWA0624400NPT.....	329	6BAE035.....	357	6BC133.....	353	6BG440.....	346
5HWA0624700NPT.....	335	6BAE036.....	357	6BC134.....	353	6BG441.....	346
5HWA0625400NPT.....	329	6BAE037.....	357	6BC202.....	343	6BG442.....	346
5HWA0625700NPT.....	335	6BAE038.....	357	6BC203.....	343	6BID100.....	354
5HWD0611400.....	341	6BAE039.....	357	6BC203Y.....	343	6BID101.....	354
5HWD0611700.....	340	6BAE040.....	357	6BC204.....	343	6BID102.....	354
5HWD0612400.....	341	6BAE041.....	357	6BC204B.....	343	6BID200.....	354
5HWD0612700.....	340	6BAE042.....	357	6BC205.....	343	6BID202.....	354
5HWD0613400.....	341	6BAE043.....	356	6BC205G.....	343	6BID203.....	354
5HWD0613700.....	340	6BAE044.....	356	6BC206.....	343	6BID204.....	354
5HWD0614400.....	341	6BAE045.....	356	6BC206R.....	343	6BID205.....	354
5HWD0614700.....	340	6BAE046.....	357	6BC252.....	344	6BID281.....	355
5HWD0615400.....	341	6BAE047.....	357	6BC253.....	344	6BID282.....	355
5HWD0615700.....	340	6BAE048.....	357	6BC254.....	344	6BID283.....	355
6BA920.....	358	6BAE049.....	357	6BC255.....	344	6BID284.....	355
6BAE010.....	357	6BAE050.....	356	6BC256.....	344	6BID290.....	355
6BAE011.....	357	6BAE051.....	356	6BC403.....	344	6BID300.....	355
6BAE012.....	357	6BAE052.....	356	6BC403Y.....	345	6BID440.....	354
6BAE013.....	357	6BAE060.....	357	6BC404.....	344	6BID441.....	354
6BAE014.....	357	6BAS211.....	347	6BC404B.....	345	6BID442.....	354
6BAE015.....	357	6BAS212.....	347	6BC405.....	344	6BIT1000.....	361
6BAE016.....	357	6BAS213.....	347	6BC405G.....	345	6BIT2000.....	361
6BAE017.....	357	6BAS214.....	347	6BC406.....	344	6BIT5000.....	361
6BAE018.....	357	6BAS215.....	347	6BC406R.....	345	6BIT6000.....	361
6BAE019.....	357	6BAS221.....	348	6BC453.....	345	6BJ001.....	359
6BAE020.....	357	6BAS222.....	348	6BC454.....	345	6BJ020.....	359
6BAE021.....	357	6BAS223.....	348	6BC455.....	345	6BJ050.....	359
6BAE022.....	357	6BAS224.....	348	6BC456.....	345	6BJS201.....	350
6BAE023.....	357	6BAS225.....	348	6BCP10S.....	349	6BJS202.....	350
6BAE024.....	357	6BAS411.....	347	6BCP12S.....	349	6BJS203.....	350
6BAE025.....	357	6BAS412.....	347	6BCP14S.....	349	6BJS204.....	350
6BAE026.....	357	6BAS413.....	347	6BCP16S.....	349	6BJS205.....	350
6BAE027.....	357	6BAS414.....	347	6BCP18S.....	349	6BJS206.....	350
6BAE028.....	357	6BAS415.....	347	6BCP20S.....	349	6BJS207.....	350
6BAE029.....	357	6BAS421.....	348	6BCP6S.....	349	6BJS208.....	350
6BAE030.....	357	6BAS422.....	348	6BCP8S.....	349	6BJS209.....	350
6BAE031.....	357	6BAS423.....	348	6BG402.....	358	6BJS210.....	350
6BAE032.....	357	6BAS424.....	348	6BG430.....	346	6BJS211.....	350
6BAE033.....	357	6BAS425.....	348	6BG431.....	346	6BJS212.....	350

6BJS213.....	350	6BM211.....	353	6BUL2799.....	351	8BW8S2.0.....	174
6BJS214.....	350	6BM218.....	353	6BUL2839.....	351	8C910L.....	200
6BJS215.....	350	6BS038.....	360	6BUL2869.....	351	8C910LFT10.....	228
6BJS216.....	350	6BS350.....	361	6BUL2919.....	351	8C910LMBJ4.....	215
6BJS217.....	350	6BS750.....	360	6BUL9010.....	362	8C910LMBJ6.....	215
6BJS218.....	350	6BT300.....	360	8B10LS.....	305	8C910LMG4.....	201
6BJS219.....	350	6BUB2549.....	352	8B12LS.....	305	8C910LMG6.....	201
6BJS220.....	350	6BUB2569.....	352	8B13G.....	305	8C910LMN6.....	202
6BJS221.....	350	6BUL1018.....	352	8B14S.....	305	8C910S.....	200
6BJS227.....	350	6BUL1024.....	352	8B15L.....	305	8C910SFT10.....	228
6BJS230.....	350	6BUL1028.....	352	8B16S.....	305	8C910SMBJ6.....	215
6BJS231.....	350	6BUL1032.....	352	8B17G.....	305	8C910SMG6.....	201
6BJS233.....	350	6BUL1036.....	352	8B18L.....	305	8C910SMN6.....	202
6BJS234.....	350	6BUL1046.....	352	8B20S.....	305	8C912L.....	200
6BJS236.....	350	6BUL1056.....	352	8B21G.....	305	8C912LFT12.....	228
6BJS237.....	350	6BUL1070.....	352	8B22L.....	305	8C912LMBJ4.....	215
6BJS240.....	350	6BUL1086.....	352	8B25S.....	305	8C912LMBJ6.....	215
6BJS241.....	350	6BUL1096.....	352	8B27G.....	305	8C912LMBJ8.....	215
6BJS242.....	350	6BUL1106.....	352	8B28L.....	305	8C912LMG4.....	201
6BJS243.....	350	6BUL1116.....	352	8B30S.....	305	8C912LMG6.....	201
6BJS244.....	350	6BUL2030.....	352	8B33G.....	305	8C912LMG8.....	201
6BJS245.....	350	6BUL2040.....	352	8B35L.....	305	8C912LMN6.....	202
6BJS246.....	350	6BUL2042.....	352	8B38S.....	305	8C912LMN8.....	202
6BJS247.....	350	6BUL2051.....	352	8B42G.....	305	8C912S.....	200
6BJS248.....	350	6BUL2060.....	352	8B42L.....	305	8C912SFT12.....	228
6BJS249.....	350	6BUL2084.....	352	8B6LS.....	305	8C912SMBJ6.....	215
6BJS252.....	350	6BUL2109.....	351	8B8LS.....	305	8C912SMBJ8.....	215
6BJS253.....	350	6BUL2119.....	351	8BW10L2.0.....	174	8C912SMG6.....	201
6BJS255.....	350	6BUL2120.....	352	8BW10S1.0.....	174	8C912SMN4.....	202
6BJS256.....	350	6BUL2129.....	351	8BW12L2.0.....	174	8C912SMN6.....	202
6BJS257.....	350	6BUL2139.....	351	8BW12S1.5.....	174	8C912SMN8.....	202
6BJS258.....	350	6BUL2149.....	351	8BW15L2.0.....	174	8C914S.....	200
6BJS259.....	350	6BUL2159.....	351	8BW16S1.5.....	174	8C914SFT14.....	228
6BJS270.....	350	6BUL2169.....	351	8BW18L2.0.....	174	8C914SMBJ8.....	215
6BM150.....	353	6BUL2179.....	351	8BW20S2.0.....	174	8C914SMG8.....	201
6BM151.....	353	6BUL2189.....	351	8BW22L2.0.....	174	8C914SMN8.....	202
6BM155.....	353	6BUL2199.....	351	8BW28L2.5.....	174	8C915L.....	200
6BM156.....	353	6BUL2279.....	351	8BW6L1.5.....	174	8C915LFT15.....	228
6BM158.....	353	6BUL2289.....	351	8BW6S1.5.....	174	8C915LMBJ6.....	215
6BM210.....	353	6BUL2709.....	351	8BW8L2.0.....	174	8C915LMBJ8.....	215

8C915LMG6.....	201	8C96L.....	200	8CBJ8SMGE4.....	278	8E38S.....	295
8C915LMG8.....	201	8C96LFT6.....	228	8CE06L.....	294	8E42G.....	295
8C915LMN8.....	202	8C96LLMN2.....	202	8CE08L06S.....	294	8E42L.....	295
8C916S.....	200	8C96LMBJ2.....	215	8CE10L08S.....	294	8E6L.....	295
8C916SFT16.....	228	8C96LMG2.....	201	8CE12L10S.....	294	8E6S.....	295
8C916SMBJ8.....	215	8C96LMG4.....	201	8CE12S13G.....	294	8E8L.....	295
8C916SMG8.....	201	8C96LMN4.....	202	8CE15L14S.....	294	8E8S.....	295
8C918L.....	200	8C96S.....	200	8CE16S17G.....	294	8FP10L.....	289
8C918LCL.....	213	8C96SFT6.....	228	8CE18L.....	294	8FP10S.....	289
8C918LFT18.....	228	8C96SMBJ4.....	215	8CE22L20S.....	294	8FP12L.....	289
8C918LMBJ12.....	215	8C96SMG4.....	201	8CE28L25S.....	294	8FP12S.....	289
8C918LMBJ8.....	215	8C96SMN4.....	202	8CE30S.....	294	8FP14S.....	289
8C918LMG8.....	201	8C98L.....	200	8CE35L.....	294	8FP15L.....	289
8C918LMN8.....	202	8C98LFT8.....	228	8CE42L38S.....	294	8FP16S.....	289
8C920S.....	200	8C98LMBJ4.....	215	8CX10L.....	272	8FP18L.....	289
8C920SFT20.....	228	8C98LMBJ6.....	215	8CX12L.....	272	8FP20S.....	289
8C920SMN12.....	202	8C98LMG2.....	201	8CX12S.....	272	8FP22L.....	289
8C921G.....	200	8C98LMG4.....	201	8CX15L.....	272	8FP25S.....	289
8C922L.....	200	8C98LMG6.....	201	8CX18L.....	272	8FP28L.....	289
8C922LCL.....	213	8C98LMN2.....	202	8CX6L.....	272	8FP30S.....	289
8C922LFT22.....	228	8C98LMN4.....	202	8CX8L.....	272	8FP35L.....	289
8C922LMBJ12.....	215	8C98S.....	200	8E10L.....	295	8FP38S.....	289
8C922LMN12.....	202	8C98SFT8.....	228	8E10S.....	295	8FP42L.....	289
8C925S.....	200	8C98SMBJ4.....	215	8E12L.....	295	8FP6L.....	289
8C925SFT25.....	228	8C98SMBJ6.....	215	8E12S.....	295	8FP6S.....	289
8C925SMBJ16.....	215	8C98SMG4.....	201	8E13G.....	295	8FP8L.....	289
8C925SMN16.....	202	8C98SMN4.....	202	8E14S.....	295	8FP8S.....	289
8C928L.....	200	8CBJ10LMGE4.....	278	8E15L.....	295	8JO10LS.....	317
8C928LFT28.....	228	8CBJ10SMGE6.....	278	8E16S.....	295	8JO12LS.....	317
8C928LMBJ16.....	215	8CBJ12LMGE6.....	278	8E17G.....	295	8JO14S.....	317
8C928LMN16.....	202	8CBJ12SMGE6.....	278	8E18L.....	295	8JO15L16S.....	317
8C930S.....	200	8CBJ14SMGE8.....	278	8E20S.....	295	8JO18L.....	317
8C930SFT30.....	228	8CBJ15LMGE8.....	278	8E21G.....	295	8JO20S.....	317
8C935L.....	200	8CBJ16SMGE8.....	278	8E22L.....	295	8JO22L.....	317
8C935LFT35.....	228	8CBJ18LMGE8.....	278	8E25S.....	295	8JO25S.....	317
8C935LMN20.....	202	8CBJ6LMGE2.....	278	8E27G.....	295	8JO28L.....	317
8C938S.....	200	8CBJ6LMGE4.....	278	8E28L.....	295	8JO30S.....	317
8C938SFT38.....	228	8CBJ6SMGE4.....	278	8E30S.....	295	8JO35L.....	317
8C942L.....	200	8CBJ8LMGE2.....	278	8E33G.....	295	8JO38S.....	317
8C942LFT42.....	228	8CBJ8LMGE4.....	278	8E35L.....	295	8JO42L.....	317

8JO6LS.....	317	8T8L.....	244	8TM28L18.....	244	8TRV28LFT28.....	260
8JO8LS.....	317	8T8S.....	244	8TM28L22.....	244	8TRV28LMBJ16.....	252
8PM10L.....	279	8TM10L6.....	244	8TM28LFT28.....	259	8TRV30SFT30.....	260
8PM10S.....	279	8TM10L8.....	244	8TM28LMBJ16.....	253	8TRV30SMBJ20.....	252
8PM12L.....	279	8TM10LFT10.....	259	8TM30SFT30.....	259	8TRV35LFT35.....	260
8PM12S.....	279	8TM10LMBJ4.....	253	8TM30SMBJ20.....	253	8TRV35LMBJ20.....	252
8PM14S.....	279	8TM10SFT10.....	259	8TM35LFT35.....	259	8TRV42LFT42.....	260
8PM15L.....	279	8TM10SMBJ6.....	253	8TM35LMBJ20.....	253	8TRV6LFT6.....	260
8PM16S.....	279	8TM12L8.....	244	8TM38SFT38.....	259	8TRV6LMBJ2.....	252
8PM18L.....	279	8TM12LFT12.....	259	8TM42LFT42.....	259	8TRV6SFT6.....	260
8PM20S.....	279	8TM12LMBJ6.....	253	8TM6LFT6.....	259	8TRV6SMBJ4.....	252
8PM22L.....	279	8TM12S10.....	244	8TM6LMBJ2.....	253	8TRV8LFT8.....	260
8PM25S.....	279	8TM12S8.....	244	8TM6SFT6.....	259	8TRV8LMBJ4.....	252
8PM28L.....	279	8TM12SFT12.....	259	8TM6SMBJ4.....	253	8TRV8SFT8.....	260
8PM30S.....	279	8TM12SMBJ6.....	253	8TM8L6.....	244	8TRV8SMBJ4.....	252
8PM35L.....	279	8TM14SMBJ8.....	253	8TM8LFT8.....	259	8U10L.....	49
8PM42L.....	279	8TM15L10.....	244	8TM8LMBJ4.....	253	8U10LFB4.....	109
8PM6L.....	279	8TM15L12.....	244	8TM8SFT8.....	259	8U10LFB6.....	109
8PM6S.....	279	8TM15LFT15.....	259	8TM8SMBJ4.....	253	8U10LFB8.....	109
8PM8L.....	279	8TM15LMBJ8.....	253	8TRV10LFT10.....	260	8U10LFBK4.....	108
8PM8S.....	279	8TM16S10.....	244	8TRV10LMBJ4.....	252	8U10LFT12.....	129
8T10L.....	244	8TM16S12.....	244	8TRV10SFT10.....	260	8U10LFT15.....	129
8T10S.....	244	8TM16SFT16.....	259	8TRV10SMBJ6.....	252	8U10LFT22.....	129
8T12L.....	244	8TM16SMBJ8.....	253	8TRV12LFT12.....	260	8U10LMBE4.....	54
8T12S.....	244	8TM18L12.....	244	8TRV12LMBJ6.....	252	8U10LMBE6.....	54
8T14S.....	244	8TM18L15.....	244	8TRV12SFT12.....	260	8U10LMBE8.....	54
8T15L.....	244	8TM18LFT18.....	259	8TRV12SMBJ6.....	252	8U10LMBJ4.....	52
8T16S.....	244	8TM18LMBJ8.....	253	8TRV14SMBJ8.....	252	8U10LMBJ6.....	52
8T18L.....	244	8TM20S12.....	244	8TRV15LFT15.....	260	8U10LMBJ8.....	52
8T20S.....	244	8TM20S16.....	244	8TRV15LMBJ8.....	252	8U10LMBS4.....	51
8T21G.....	244	8TM20SFT20.....	259	8TRV16SFT16.....	260	8U10LMBS8.....	51
8T22L.....	244	8TM20SMBJ12.....	253	8TRV16SMBJ8.....	252	8U10LMBW10.....	152
8T25S.....	244	8TM22L15.....	244	8TRV18LFT18.....	260	8U10LMFA18.....	57
8T28L.....	244	8TM22L18.....	244	8TRV18LMBJ8.....	252	8U10LMG4.....	53
8T30S.....	244	8TM22LFT22.....	259	8TRV20SFT20.....	260	8U10LMG6.....	53
8T35L.....	244	8TM22LMBJ12.....	253	8TRV20SMBJ12.....	252	8U10LMME14.....	57
8T38S.....	244	8TM25S16.....	244	8TRV22LFT22.....	260	8U10LMMJ14.....	56
8T42L.....	244	8TM25S20.....	244	8TRV22LMBJ12.....	252	8U10LMN4.....	55
8T6L.....	244	8TM25SFT25.....	259	8TRV25SFT25.....	260	8U10LMN6.....	55
8T6S.....	244	8TM25SMBJ16.....	253	8TRV25SMBJ16.....	252	8U10LMN8.....	55

8U10LMS10.....	50	8U12LMBJ6.....	52	8U12SMBS4.....	51	8U15LFT28.....	129
8U10LMS4.....	50	8U12LMBJ8.....	52	8U12SMBS6.....	51	8U15LFT35.....	129
8U10LMS6.....	50	8U12LMBS4.....	51	8U12SMBS8.....	51	8U15LMBE12.....	54
8U10LMS8.....	50	8U12LMBS6.....	51	8U12SMBW12.....	152	8U15LMBE6.....	54
8U10S.....	49	8U12LMBS8.....	51	8U12SMG4.....	53	8U15LMBE8.....	54
8U10SFB6.....	109	8U12LMBW12.....	152	8U12SMG6.....	53	8U15LMBJ6.....	52
8U10SFBK8.....	108	8U12LMFA18.....	57	8U12SMG8.....	53	8U15LMBJ8.....	52
8U10SFT12.....	129	8U12LMFA24.....	57	8U12SMME18.....	57	8U15LMBS6.....	51
8U10SFT14.....	129	8U12LMG4.....	53	8U12SMMJ18.....	56	8U15LMBS8.....	51
8U10SFT16.....	129	8U12LMG6.....	53	8U12SMN4.....	55	8U15LMFA18.....	57
8U10SFT20.....	129	8U12LMG8.....	53	8U12SMN6.....	55	8U15LMG6.....	53
8U10SFT25.....	129	8U12LMJ6.....	49	8U12SMN8.....	55	8U15LMG8.....	53
8U10SFT30.....	129	8U12LMJ8.....	49	8U12SMS6.....	50	8U15LMJ8.....	49
8U10SMBE4.....	54	8U12LMJIS6.....	55	8U12SMS8.....	50	8U15LMME18.....	57
8U10SMBE6.....	54	8U12LMME16.....	57	8U13GFIA18.....	110	8U15LMME22.....	57
8U10SMBE8.....	54	8U12LMME18.....	57	8U13GFIA24.....	110	8U15LMMJ18.....	56
8U10SMBJ4.....	52	8U12LMME22.....	57	8U13GMBSP12.....	51	8U15LMN8.....	55
8U10SMBJ6.....	52	8U12LMMJ16.....	56	8U13GMFA18.....	57	8U15LMS10.....	50
8U10SMBS4.....	51	8U12LMMJ30.....	56	8U13GMFA24.....	57	8U15LMS20.....	50
8U10SMBS6.....	51	8U12LMN4.....	55	8U13GMJ6.....	49	8U15LMS4.....	50
8U10SMBS8.....	51	8U12LMN6.....	55	8U13GMJ8.....	49	8U15LMS8.....	50
8U10SMBW10.....	152	8U12LMN8.....	55	8U13GMS10.....	50	8U16S.....	49
8U10SMG4.....	53	8U12LMS10.....	50	8U13GMS6.....	50	8U16SFB6.....	109
8U10SMG6.....	53	8U12LMS6.....	50	8U13GMS8.....	50	8U16SFB8.....	109
8U10SMME16.....	57	8U12LMS8.....	50	8U14S.....	49	8U16SFT20.....	129
8U10SMMJ16.....	56	8U12S.....	49	8U14SFB8.....	109	8U16SFT25.....	129
8U10SMN6.....	55	8U12SFB6.....	109	8U14SFT16.....	129	8U16SFT30.....	129
8U10SMS6.....	50	8U12SFB8.....	109	8U14SFT20.....	129	8U16SMBE12.....	54
8U12L.....	49	8U12SFBK8.....	108	8U14SFT25.....	129	8U16SMBE6.....	54
8U12LFB4.....	109	8U12SFT14.....	129	8U14SMBE8.....	54	8U16SMBE8.....	54
8U12LFB6.....	109	8U12SFT16.....	129	8U14SMBJ8.....	52	8U16SMBJ8.....	52
8U12LFB8.....	109	8U12SFT20.....	129	8U14SMBS8.....	51	8U16SMBS12.....	51
8U12LFBK4.....	108	8U12SFT25.....	129	8U14SMG8.....	53	8U16SMBS6.....	51
8U12LFT15.....	129	8U12SFT30.....	129	8U14SMME20.....	57	8U16SMBS8.....	51
8U12LFT22.....	129	8U12SFT38.....	129	8U14SMMJ20.....	56	8U16SMG8.....	53
8U12LFT28.....	129	8U12SMBE4.....	54	8U14SMN8.....	55	8U16SMME22.....	57
8U12LMBE12.....	54	8U12SMBE6.....	54	8U15L.....	49	8U16SMMJ22.....	56
8U12LMBE4.....	54	8U12SMBE8.....	54	8U15LFB8.....	109	8U16SMS10.....	50
8U12LMBE6.....	54	8U12SMBJ6.....	52	8U15LFT18.....	129	8U16SMS8.....	50
8U12LMBE8.....	54	8U12SMBJ8.....	52	8U15LFT22.....	129	8U17GFIA18.....	110

8U17GMFA18.....	57	8U20SMS12.....	50	8U28LMBE16.....	54	8U6LFT15.....	129
8U17GMFA24.....	57	8U20SMS8.....	50	8U28LMBJ16.....	52	8U6LFT18.....	129
8U18L.....	49	8U21G.....	49	8U28LMBS16.....	51	8U6LFT8.....	129
8U18LFB8.....	109	8U21GMG8.....	53	8U28LMME33.....	57	8U6LMBE2.....	54
8U18LFT22.....	129	8U21GMS16.....	50	8U28LMMJ33.....	56	8U6LMBE4.....	54
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8U18LFT35.....	129	8U22LFB12.....	109	8U28LMS16.....	50	8U6LMBJ4.....	52
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8U18LMBE12.....	54	8U22LFT35.....	129	8U30SFB20.....	109	8U6LMBS4.....	51
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