



GAOSS®

SUNPREINCO

Engineering and Testing ; Manufacture of Gas Spring, Stamping , Stamped Assemblies



SUNPREINCO.,LTD.

GAOSS®

SUN PREIN CO., LTD.

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COMPANY HISTORY

- Aug.1993 : Established TAEYANG INDUSTRIAL CO.
- Jul.1999 : Changed the company name into SUNPREIN CO.,LTD
- Nov.2000 : Certified ISO 9001 / QS 9000 Quality Management System
- Mar.2003 : Piston for Gas Spring patented
- Sep.2004 : The gas spring applied for a patent (KOREA, USA)
- Nov.2004 : Certified ISO 14001 Environment Management System
- Nov.2004 : Awarded a Prime Minister Prize
- Mar.2003 : Established the R&D Center
- May.2005 : Certified Technology Innovation Business (Inno-Biz , KOREA)
- Sep.2005 : Certified ISO/TS16949 Quality management system
- Oct.2005 : Awarded the President Prize (KOREA) as the Most Innovative Small & Medium Sized Company
- Nov.2006 : Awarded the 5 Mil USD Export Tower



CERTIFICATION



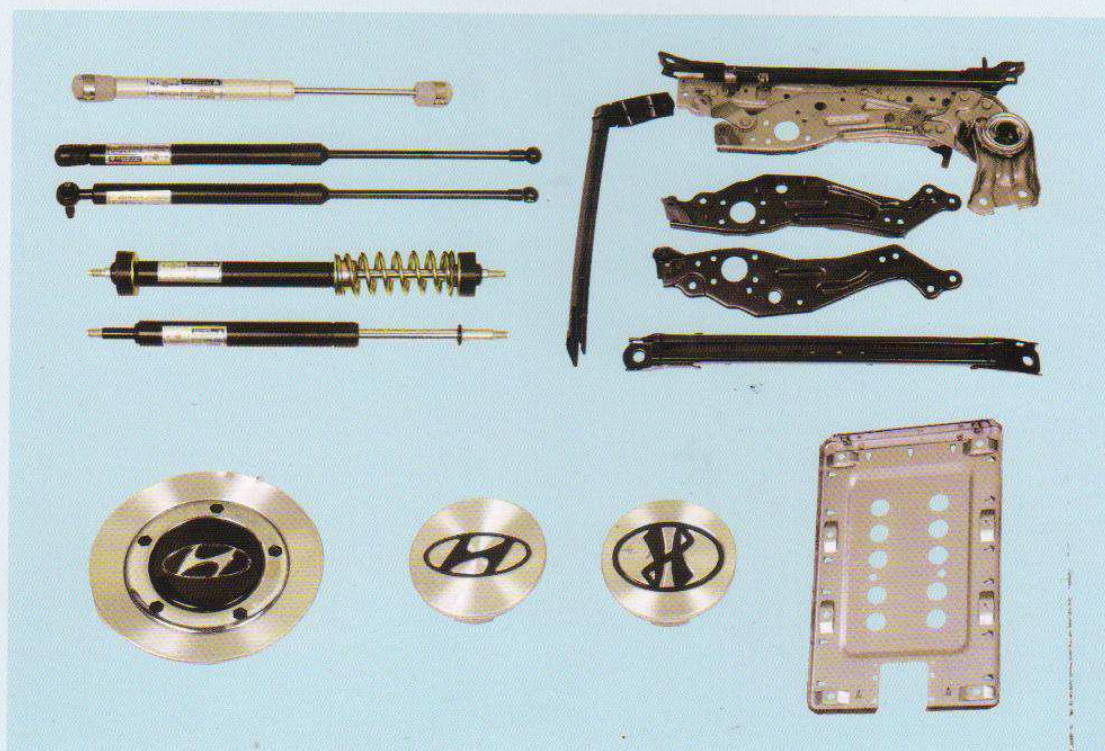


1. Gas Spring Parts

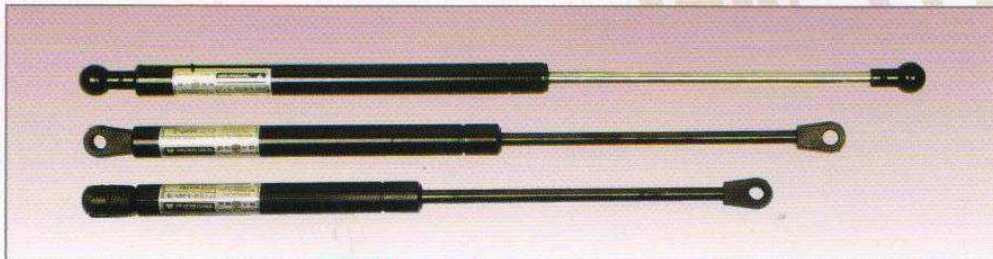
- 1) Gas Spring – Tail Gate, Engine Hood, Car Trunk, Furniture, etc.
Incl. Dynamic Gas Spring
- Damper – Engine Damper, Foot-operated Parking Brake, etc.
- 2) Free Lock – Swivel Chairs, Seat Tilt, Car & Train Seats, etc.
- 3) Safety Lock
- 4) Damper for Wash M/C
- 5) TCS (Temperature Compensated Spring)

2. Stamped Parts

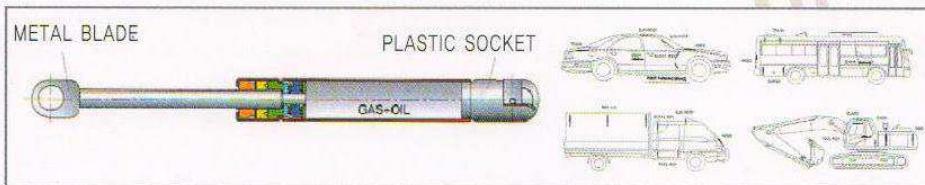
- 1) Various Brackets & Clips – Car Bumper, Oil Pump, Engine Parts, etc.
- 2) Parts for Seat – Rail, Base, Frame
- 3) Hinge Assembly & Arm Rest for Seat



GAS SPRING & DAMPER



STRUCTURE



MODEL DIMENSION

Rod Mount

Tube Mount



SPC - G15 - 1000 - 150N

SPC - D15 - 1000 - 150N

Reverse Force(N)

Extended Length

Tube Diameter

D : Damper

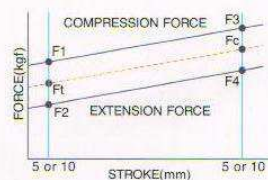
G : Gas Spring

Technical Data

- *Range of Force : (Up to 2000N)
- *Stroke : 20mm ~ 1000mm
- *Temperature Range : - 40°C ~ +80°C
- *Injection : N₂ Gas and Oil

<Finish>

- *Tube : Painted (Black/Gray)
- *Rod : Cr Plating or Nitrided
- *Connectors : Zn Galvanized or Dacro Coating



$$\begin{aligned} F1 &= () \text{ kg} \\ F2 &= () \text{ kg} \\ F3 &= () \text{ kg} \\ F4 &= () \text{ kg} \\ (F1+F2)/2 &= Ft = () \text{ kg} \\ (F3+F4)/2 &= Fc = () \text{ kg} \end{aligned}$$

SPECIFICATION

Gas Springs Ø15

MODEL	L max (mm)	L min (mm)	STROKE (mm)	Diameter		FORCE Ft(kgf)
				ROD (Ø) A	TUBE (Ø) B	
SPC-G15	1000	200	0~500	6	15	~50

Gas Springs Ø18

MODEL	L max (mm)	L min (mm)	STROKE (mm)	Diameter		FORCE Ft(kgf)
				ROD (Ø) A	TUBE (Ø) B	
SPC-G18	1000	200	0~500	8	18	~100
SPC-G18-1	1000	200	0~500	10	18	~150

Gas Springs Ø22

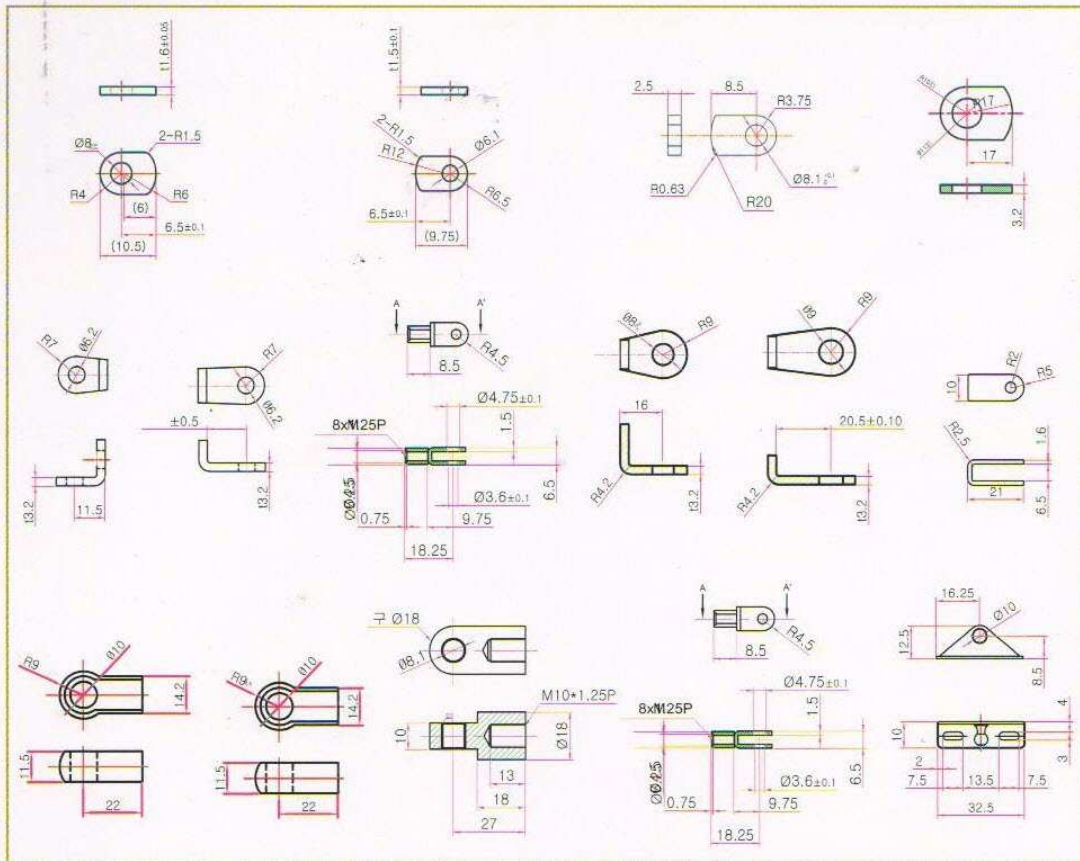
MODEL	L max (mm)	L min (mm)	STROKE (mm)	Diameter		FORCE Ft(kgf)
				ROD (Ø) A	TUBE (Ø) B	
SPC-G22	1000	200	0~500	10	22	~180

Gas Springs Ø27.4

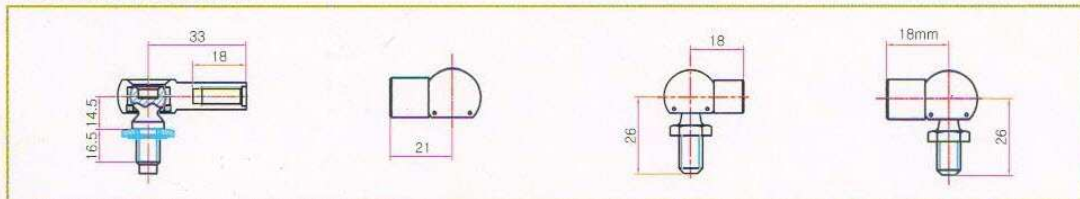
MODEL	L max (mm)	L min (mm)	STROKE (mm)	Diameter		FORCE Ft(kgf)
				ROD (Ø) A	TUBE (Ø) B	
SPC-G27.4	1000	200	0~500	10	27.4	~200
SPC-G27.4-1	1000	200	0~500	12.5	27.4	~200

END FITTINGS

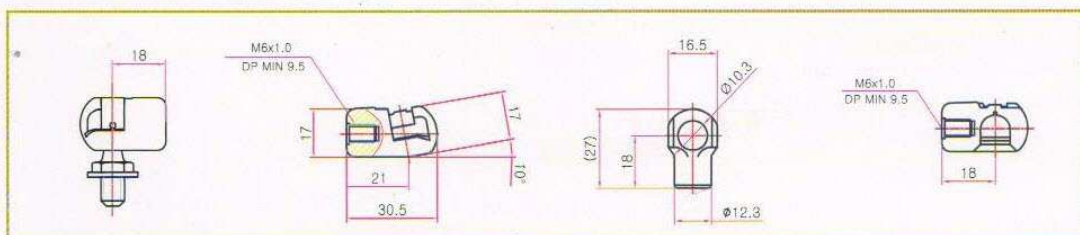
1. BLADE TYPE



2. METAL SOCKET



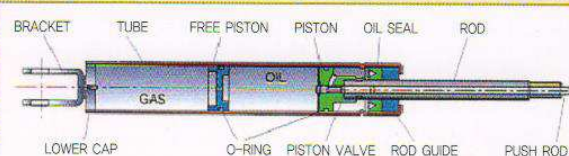
3. PLASTIC SOCKET



FREE LOCK GAS SPRING



STRUCTURE & APPLICATION



SPECIFICATION

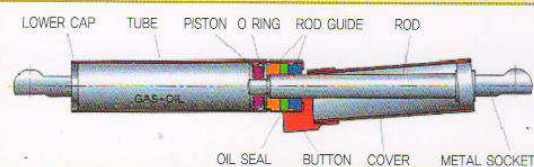


MODEL	L max (mm)	L min (mm)	STROKE (mm)	Diameter		FORCE Ft(kgf)
				ROD (Ø) A	TUBE (Ø) B	
SPC-G27.4C	380	280	100	10	27.4	~150
SPC-G27.4B	260	205	48	10	27.4	~150

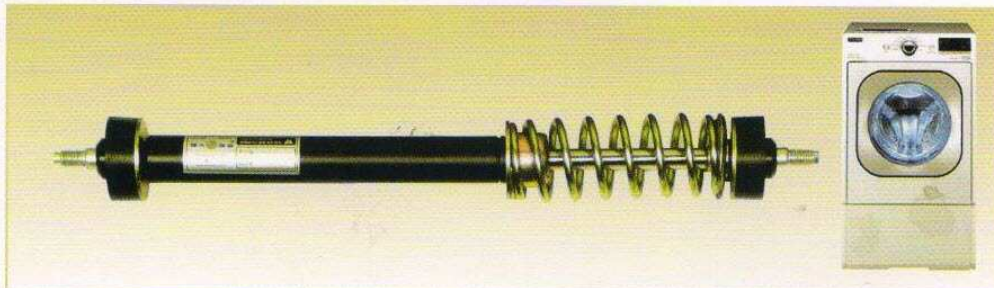
SAFETY LOCK GAS SPRING



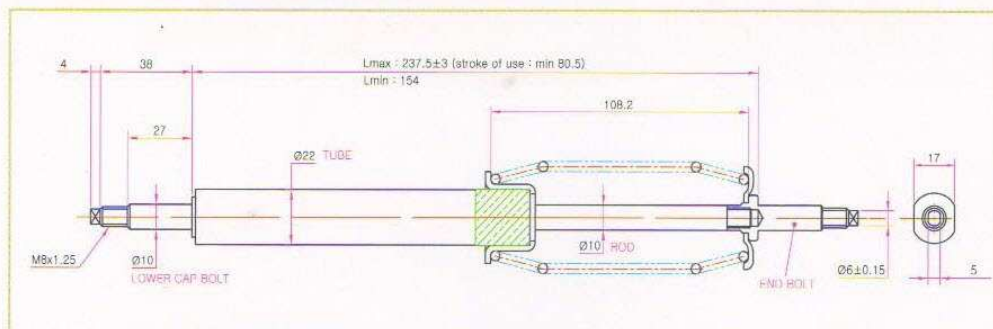
STRUCTURE & APPLICATION



DAMPER FOR WASH MACHINE



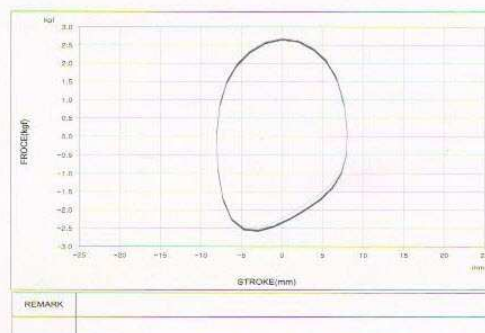
STRUCTURE



SPECIFICATION

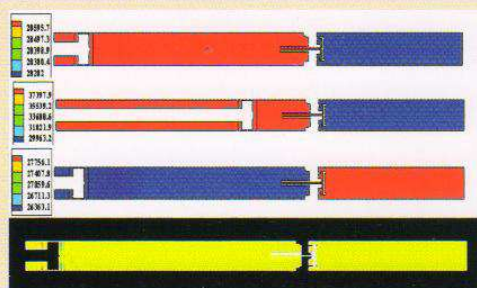
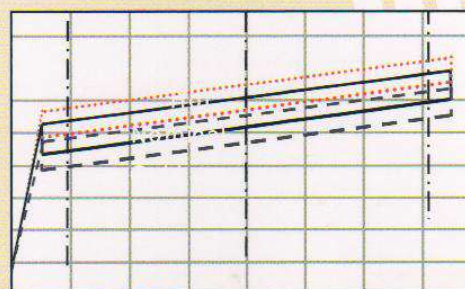
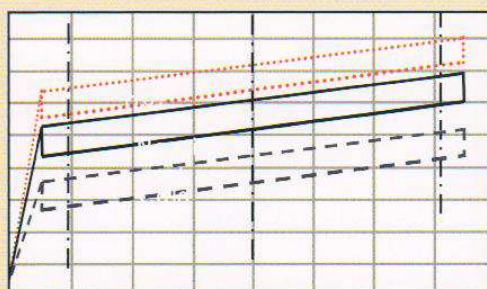
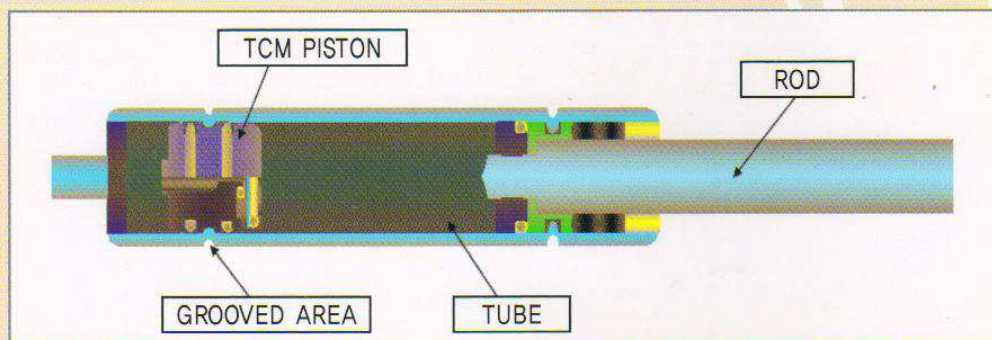
DIMENSION				FORCE	WELD STRENGTH OF END BOLT		TENSILE STRENGTH FOR ASS'Y
TUBE(Ø)	SPRING(Ø)	Lmax(mm)	Lmin(mm)		TENSILE STRENGTH	IMPACT STRENGTH	
22	27.5*40	237.5±3	154	80N~120N	≥6864N	≥98N.m	≥4903N

TEST REPORT			
PART NAME	Damper Assy	LOT NO.	09041701
PART NO.	SAMPLE 5	TEST DATE	09041701
PART TYPE	Only Damper	INSPECTOR	h.d.kim
CUSTOMER	HITACHI	TEST STROKE	8mm
MODEL	SUNPREINCO	TEST SPEED	240RPM
NO.	EXTENSION	COMPRESSION	RESULT
	2.55±0.8	-2.55±0.8	PASS/NOT PASS
TEST #1	2.7	-2.8	PASS
TEST #2			
TEST #3			
TEST #4			
TEST #5			

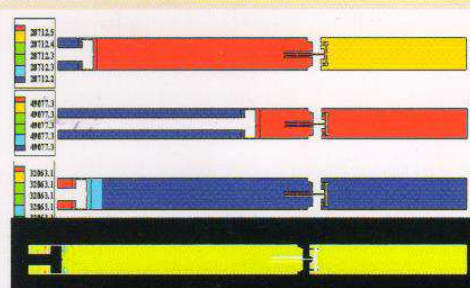


TCS (Temperature Compensated Spring)

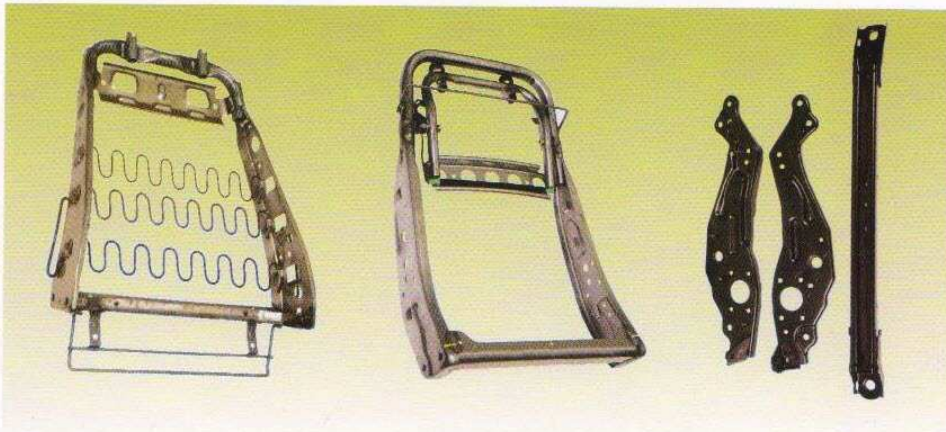
The temperature range applies to $-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$



CLOSE



OPEN

VARIOUS BRACKETS**PARTS FOR SEAT****HINGE ASSEMBLY & ARM REST**

TESTING

THERMO HYDROSTAT



SALT SPRAY TESTER



DURABILITY TESTER



REVERSE FORCE TESTER



TENSILE STRENGTH TESTER



DYNAMIC TESTER



G A S S



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