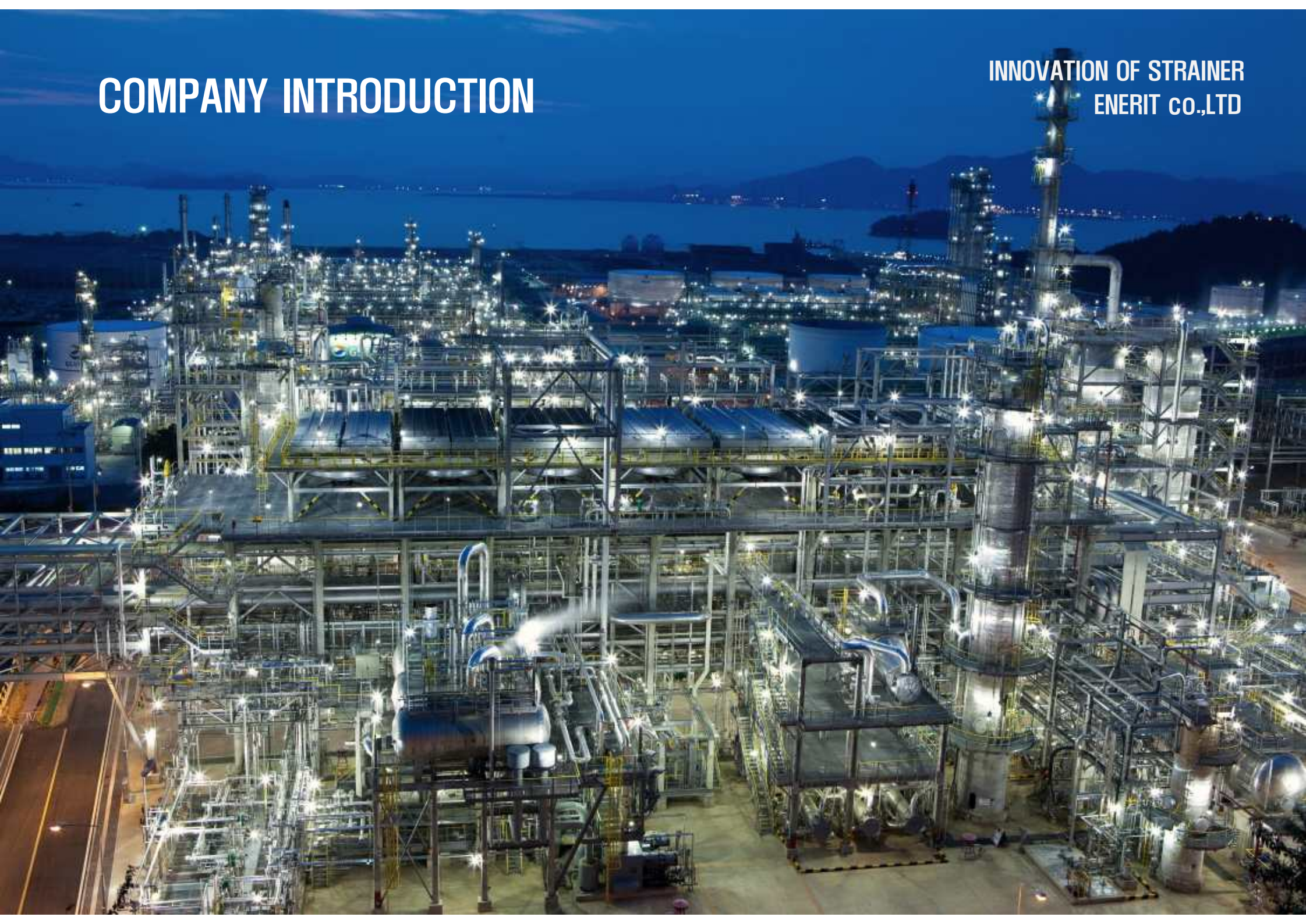


# COMPANY INTRODUCTION

INNOVATION OF STRAINER  
ENERIT co.,LTD





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## 1-1. Company Status

ENERIT is specialized in development, Production and Manufacturing of Tornado-Strainer. Furthermore, we have a great conceit regarding our excellent technological skills and a great deal of patents. Especially, we acquired the patent on Tornado Strainer for the first time in the industry. That is why we are a pioneer. ENERIT has strived to make consistent progress since 2015 and we promise to grow consistently.

---

Name of Corporation ENERIT CORPORATION

CEO MYUNG-KI KIM

Date of Establishment Nov. 25th, 2015

Address #S9-305, 125, DONGSEO-DAERO, YUSEONG-GU, DAEJEON, 34158, REPUBLIC OF KOREA

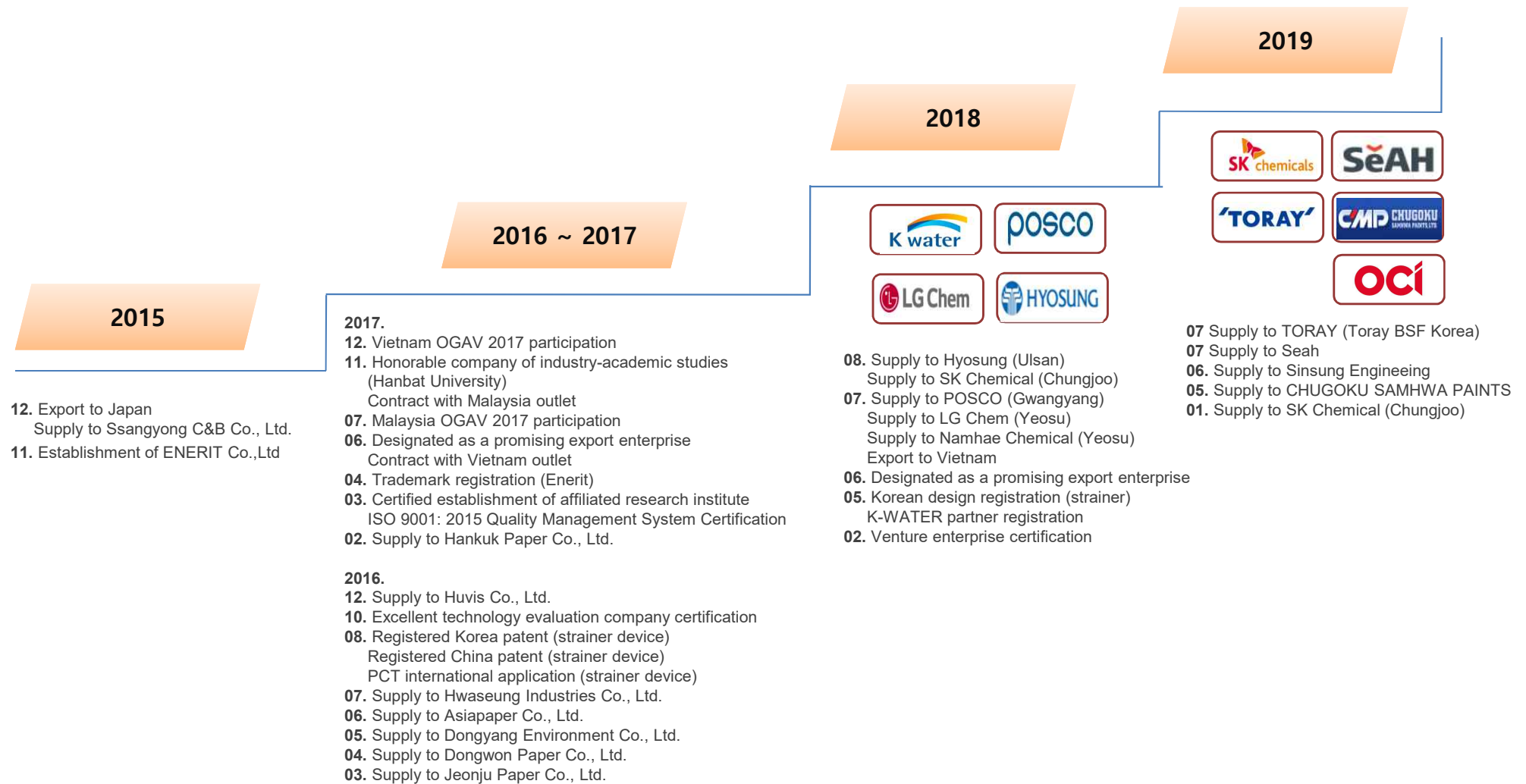
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## “The next 100 years is a tornado strainer.”





## 1-3. Vision

### Vision of Cordial



ENERIT will be devoted to being a company that will lead the field of plant pipe industry by creating the best quality products and fulfilling customer satisfaction with sincerity.







## 2-1. Business Areas

### Tornado Strainer

- ▲ Tornado Strainer can be applied on fluid pipes that transport chemistry petrochemistry, water to protect equipment from Alien substance like sand, rust etc.
- ▲ Tornado Strainer automatically emits impurities that are flowed in as the fluid passes like tornado pattern.
- ▲ It can be used in a variety of fields including shipbuilding industry, paper industry, power plant, heating construction, Water resources, and chemistry such as petrochemistry, synthetic fiber etc.

### Merits

- ▲ Constant flux maintained for a long period
- ▲ Removal operation of foreign objects easy
- ▲ Productivity improved
- ▲ Filter maintained clean
- ▲ Piping management easy & convenient

### Appearance

#### ▲ Screw Type

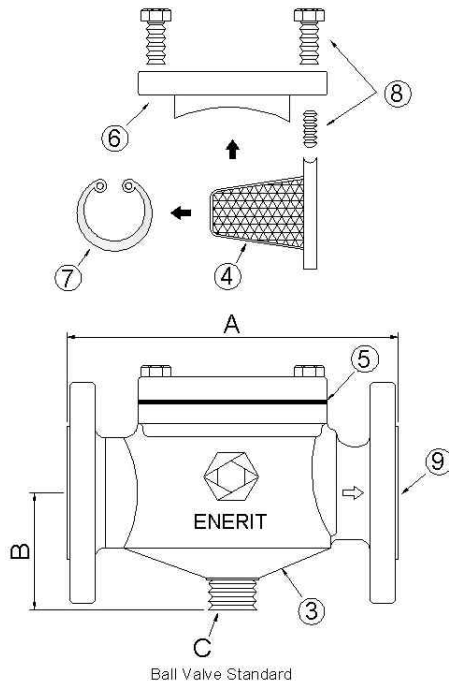


#### ▲ Flange Type



## 2-2. Flange A-Type

## Flange A - Type



## ▲ Style : ASME, ANSI, DIN, JIS, KS

## ▲ DESCRIPTION OF PARTS

Working Fluid	A, S, W, O	
Body	Cast Iron (A126. CLB) , Carbon Steel (A216. Gr. WCB) , Stainless Steel	
Filter (Screen)	ANSI 304 , ANSI 316 , ANSI 316L	
Mesh	40 Mesh (Standard) , M20 ~ M400	
Gasket	Non asbestos , Graphite , P.T.F.E , N.B.R , E.P.D.M	
Cover	Cast Iron (A126. CLB) , Carbon Steel (A216. Gr. WCB) , Stainless Steel	
Bolt	Carbon Steel (Hexagon) , Stainless Steel	
End Connection	KS , JIS , ASME / ANSI 16.5 , Flange Type (RF, FF)	
Working Temp	Carbon Steel (A216. Gr. WCB)	Max 300°C ~ Min -29°C
	Stainless Steel	Max 350°C ~ Min -29°C

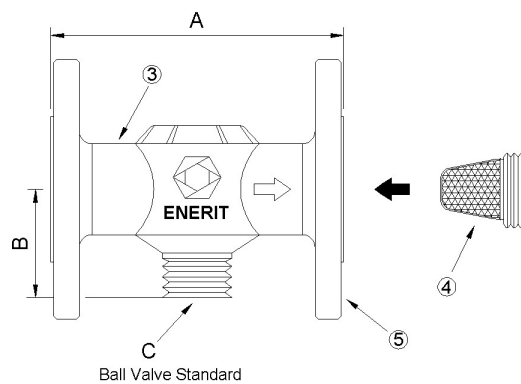
## ▲ MODEL

Dimension		L (mm) / inch		H(mm) / inch		C(mm) / inch		PART NO,
2"	50A	228	9	81	3.2	25A	1"	E-□□□□0050□□□□
2½"	65A	285	11.25	92	3.6	32A	1¼"	E-□□□□0065□□□□
3"	80A	305	12	106	4.2	32A	1¼"	E-□□□□0080□□□□
4"	100A	360	14	114	4.5	32A	1¼"	E-□□□□0100□□□□
5"	125A	406	16	127	5	40A	1½"	E-□□□□0125□□□□
6"	150A	480	19	143	5.6	50A	2"	E-□□□□0150□□□□
8"	200A	584	23	169	6.6	50A	2"	E-□□□□0200□□□□
10"	250A	650	25	201	7.9	65A	2½"	E-□□□□0250□□□□
12"	300A	800	31	226	8.9	65A	2½"	E-□□□□0300□□□□

모델명은 적용 사양 압력 및 여과망 적용 조건에 따라 변경될 수 있습니다.

## 2-2. Flange B-Type

## Flange B - Type



▲ Style : ASME, ANSI, DIN, JIS, KS

## ▲ DESCRIPTION OF PARTS

Working Fluid	A, S, W, O	
Body	Cast Iron (A126. CLB, GC200) , Ductile Iron (A395, GC45) Carbon Steel (A216. Gr. WCB , SCPH2) , Stainless Steel	
Filter (Screen)	ANSI 304 , ANSI 316 , ANSI 316L	
Mesh	40 Mesh , 50 Mesh (Standard) , M20 ~ M400	
End Connection	KS , JIS , ASME / ANSI 16.5 , Flange Type (RF, FF)	
Working Temp	Carbon Steel (A216. Gr. WCB)	Max 300°C ~ Min -29°C
	Stainless Steel	Max 350°C ~ Min -29°C

## ▲ MODEL

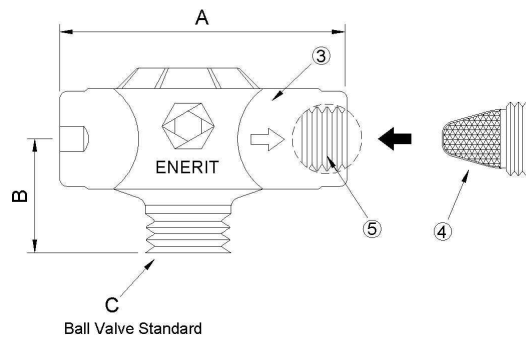
Dimension		L (mm) / inch		H(mm) / inch		C(mm) / inch		PART NO,
¾"	20A	140	5.5	51	2	20A	¾"	E-□□□□0020□□□□
1"	25A	160	6.3	60	2.36	25A	1"	E-□□□□0025□□□□
1¼"	32A	178	7	60	2.36	25A	1"	E-□□□□0032□□□□
1½"	40A	195	7.7	65	2.55	25A	1"	E-□□□□0040□□□□

모델명은 적용 사양 압력 및 여과망 적용 조건에 따라 변경될 수 있습니다.



## 2-2. Screw Type

## Screw - Type



## ▲ Style : ASME, ANSI, DIN, JIS, KS

## ▲ DESCRIPTION OF PARTS

Working Fluid	A, S, W, O	
Body	Cast Bronze , Cast Iron (A126. CLB, GC200) , Ductile Iron (A395, GC45) Carbon Steel (A216. Gr. WCB , SCPH2) , Stainless Steel	
Filter (Screen)	ANSI 304 , ANSI 316 , ANSI 316L	
Mesh	50 Mesh , 80 Mesh (Standard) , M20 ~ M400	
End Connection	KS , JIS , ASME / ANSI 16.5 , Flange Type (RF, FF)	
Working Temp	Carbon Steel (A216. Gr. WCB)	Max 300°C ~ Min -29°C
	Stainless Steel	Max 350°C ~ Min -29°C



## ▲ MODEL

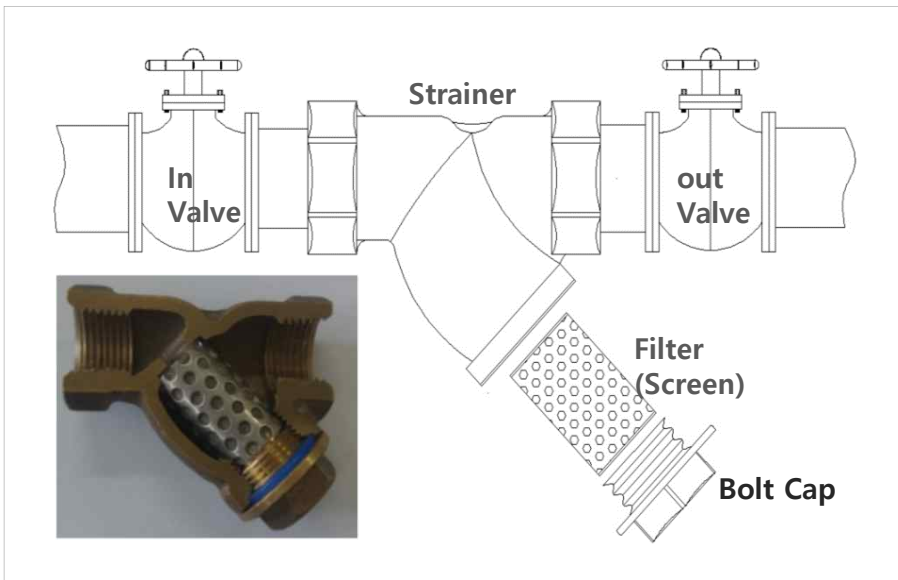
Dimension		L (mm) / inch		H(mm) / inch		C(mm) / inch		PART NO,
1/2"	15A	68	2.67	40	1.57	15A	1/2"	E-□□□□0015□□□□
3/4"	20A	82	3.2	51	2	20A	3/4"	E-□□□□0020□□□□
1"	25A	104	4.1	60	2.36	25A	1"	E-□□□□0025□□□□
1 1/4"	32A	138	5.43	60	2.36	25A	1"	E-□□□□0032□□□□
1 1/2"	40A	150	5.9	65	2.55	25A	1"	E-□□□□0040□□□□
2"	50A	178	7	81	3.15	25A	1"	E-□□□□0050□□□□

모델명은 적용 사양 압력 및 여과망 적용 조건에 따라 변경될 수 있습니다.



### 3-1. Normal Strainer

#### Normal Strainer



#### <Cleaning process of Y-Strainer>

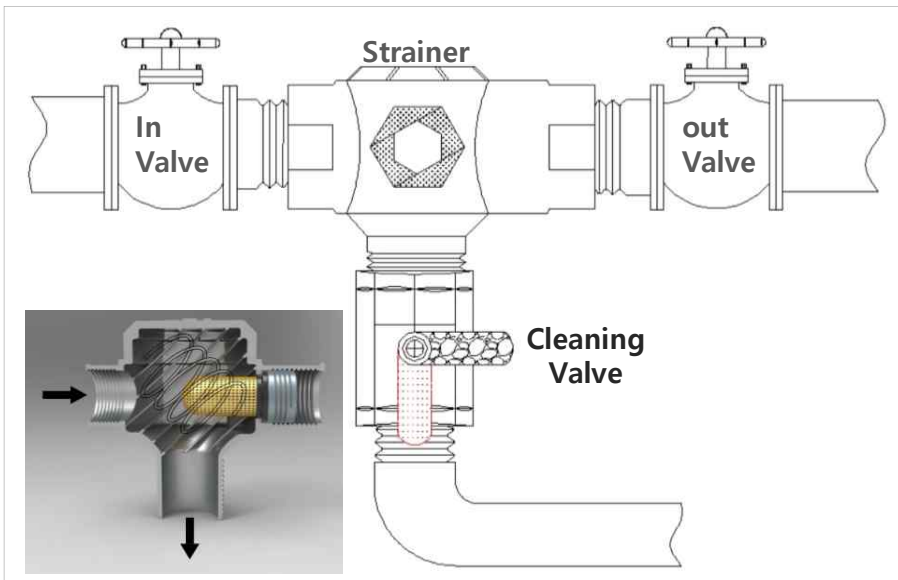
- Close in valve and out valve
- Disassemble bolt cap and filter net
- Clean the filter net
- Reassemble cap of bolt and filter net
- Make the in valve and out valve on
- Put fluid material and resume the work

- ❖ Y-shaped filter net is installed in body of Strainer. fluid flows from inside filter net and outside filter net after cleaning
  - ⇒ Foreign Substances are stacked inside filter net
  - ⇒ Decrease of flow rate
- ❖ In order to remove the foreign substances in the filter net, operators often(generally 1/week) disassemble the filter net and clean it by manual.
  - ⇒ Stop the line during cleaning
- ❖ Not automatic cleaning system, impossible for smart line
  - ☞ Difficult for work management
  - ☞ Decrease of productivity
  - ☞ Increase of labor costs



### 3-2. Tornado Strainer

#### Tornado Strainer



#### <Cleaning process of Tornado-Strainer>

Turn on and off the cleaning valve for 3~5 secs  
(In valve and out valve are on open)

- ❖ Filter net is installed on fluid pipe in a straight line and fluid passes filter net with tornado.
  - ⇒ Foreign substances floats Following the tornado continuously
  - ⇒ Minimized accumulation of filter net
  - ⇒ Steady fluid power
- ❖ In order to remove the substances from filter net, just open the cleaning valve without shutting down the fluid pipe.
  - ⇒ Easy to manage fluid pipe and no delay for production
- ❖ Suitable for smart line with automatic valve
  - ☞ Easy for work management
  - ☞ Increase of productivity
  - ☞ Decrease of labor costs



### 3-3. Certificate of Patent

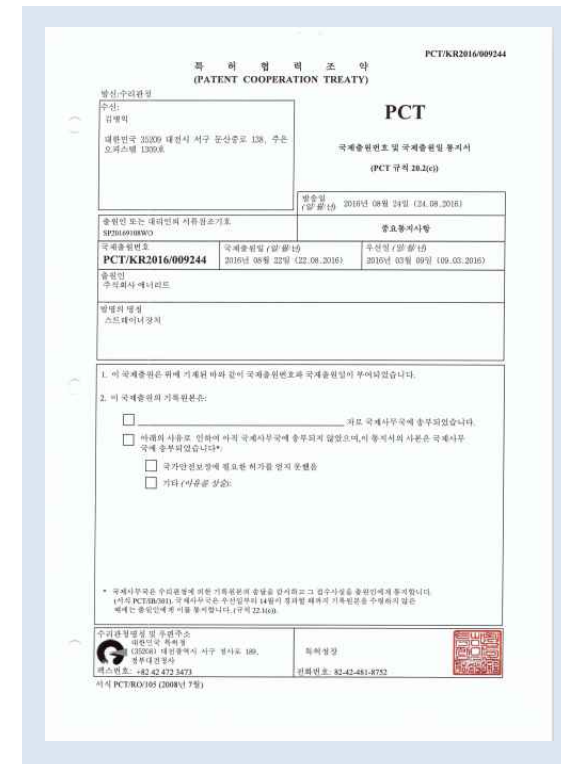
#### KOREA



#### CHINA



#### PCT (Patent Cooperation Treaty)





## 4-1. Improvement case



Chemicals Line



Water Line



Steam Line



Chemicals Line



## 4-2. Main Customers

## 고객사







## 4-3. Reference Record

Years	Customer	Model (size)	Applications Line	Country	Remarks
2015	SsangYong C&B	½", ¾", 1", 1-½"	Water, Steam, Chemical	KOREA	Paper / Chemistry
2016	JEONJU PAPER	½", ¾", 1", 1-½"	Water, Steam, Chemical	KOREA	Paper / Chemistry
	SsangYong C&B	½", ¾", 1", 1-½"	Water, Steam, Chemical	KOREA	Paper / Chemistry
	MONALISA	½", ¾", 1", 1-½"	Water, Steam, Chemical	KOREA	Paper / Chemistry
	ASIA PAPER	½", ¾", 1", 1-½"	Water, Steam, Chemical	KOREA	Paper / Chemistry
	Hankuk Paper	½", ¾", 1", 1-½"	Water, Steam, Chemical	KOREA	Paper / Chemistry
	Danhan Paper	½", ¾", 1", 1-½"	Water, Steam, Chemical	KOREA	Paper / Chemistry
	MOORIM P&P	½", ¾", 1", 1-½"	Water, Steam, Chemical	KOREA	Paper / Chemistry
	PAPER COREA	½", ¾", 1", 1-½"	Steam, Water, Chemical	KOREA	Paper / Chemistry
	DONGYANG ENVIRONMENT	½", ¾", 1", 1-½"	Chemical	KOREA	Cogeneration
	DONGWON Paper	½", ¾", 1", 1-½"	Water, Steam, Chemical	KOREA	Paper / Chemistry
	HWASEUNG Industries	½", ¾", 1", 1-½"	Steam, Water, Chemical	KOREA	Chemistry
2017	Hankuk Paper	½", ¾", 1", 1-½", 2"	Water, Steam, Chemical	KOREA	Paper / Chemistry
	JEONJU PAPER	½", ¾", 1", 1-½", 2"	Water, Steam, Chemical	KOREA	Paper / Chemistry
	Huvis (SK Chemicals)	½", ¾", 1", 1-½", 2"	Water, Chemical	KOREA	Chemistry
	Samyang Corp	½", ¾", 1", 1-½", 2"	Water, Chemical	KOREA	Chemistry
	Hankook Tire	½", ¾", 1", 1-½"	Steam, Water	KOREA	Chemistry
	MONALISA	½", ¾", 1", 1-½"	Steam, Chemical	KOREA	Paper / Chemistry



## 4-3. Reference Record

Years	Customer	Model (size)	Applications Line	Country	Remarks
2017	Danhan Paper	1/2", 3/4", 1", 1-1/2"	Water, Chemical	KOREA	Paper / Chemistry
	DONGYANG ENVIRONMENT	1/2", 3/4", 1", 1-1/2"	Chemical	KOREA	Cogeneration
	DONGWON Paper	1/2", 3/4", 1", 1-1/2"	Water, Chemical	KOREA	Paper / Chemistry
	SsangYong C&B	1/2", 3/4", 1", 1-1/2"	Steam, Chemical	KOREA	Paper / Chemistry
	ASIA PAPER	1/2", 3/4", 1", 1-1/2"	Steam, Chemical	KOREA	Paper / Chemistry
	PAPER COREA	1/2", 3/4", 1", 1-1/2"	Steam, Water, Chemical	KOREA	Paper / Chemistry
	HWASEUNG Industries	1/2", 3/4", 1", 1-1/2"	Steam, Water, Chemical	KOREA	Chemistry
	MOORIM P&P	1/2", 3/4", 1", 1-1/2"	Water, Chemical	KOREA	Paper / Chemistry
2018~2019	NAMHAE CHEMICAL	1", 2"	Steam, Water, Chemical	KOREA	Petro / Chemistry
	HYOSUNG CHEMICAL	1/2", 3/4", 1", 1-1/2", 2", 3"	Water, Chemical	KOREA	Chemistry
	SK Chemicals	1/2", 3/4", 1", 1-1/2", 2", 4"	Water, Chemical	KOREA	Pharm / Chemistry
	Hankuk Paper	1/2", 3/4", 1", 1-1/2", 2"	Steam, Water, Chemical	KOREA	Paper / Chemistry
	POSCO	1", 2", 3", 4", 8"	Water, Chemical	KOREA	Steel
	LG Chem	1/2", 3/4", 1", 1-1/2", 2", 3"	Water, Chemical	KOREA	Chemistry
	Huvis (SK Chemicals)	1/2", 3/4", 1", 1-1/2"	Water, Chemical	KOREA	Chemistry
	K-WATER	1", 2"	Water		Water
	QMTechology	1", 2"	Steam, Water, Chemical	VIETNAM	Local Agent
	CHUGOKU SAMHWA PAINTS	2"		KOREA	Chemistry
	HALLYM UNIVERSITY MEDICAL CENTER	6"	Water	KOREA	MEDICAL CENTER
	SHINSUNG ENGINEERING	6"	Water	KOREA	
	TORAY (Toray BSF Korea)	1-1/2", 2"	Water, Chemical	KOREA	Chemistry



# COMPANY INTRODUCTION

## TORANDO STRAINER

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"The next 100 years is a tornado strainer."

***THANK YOU***