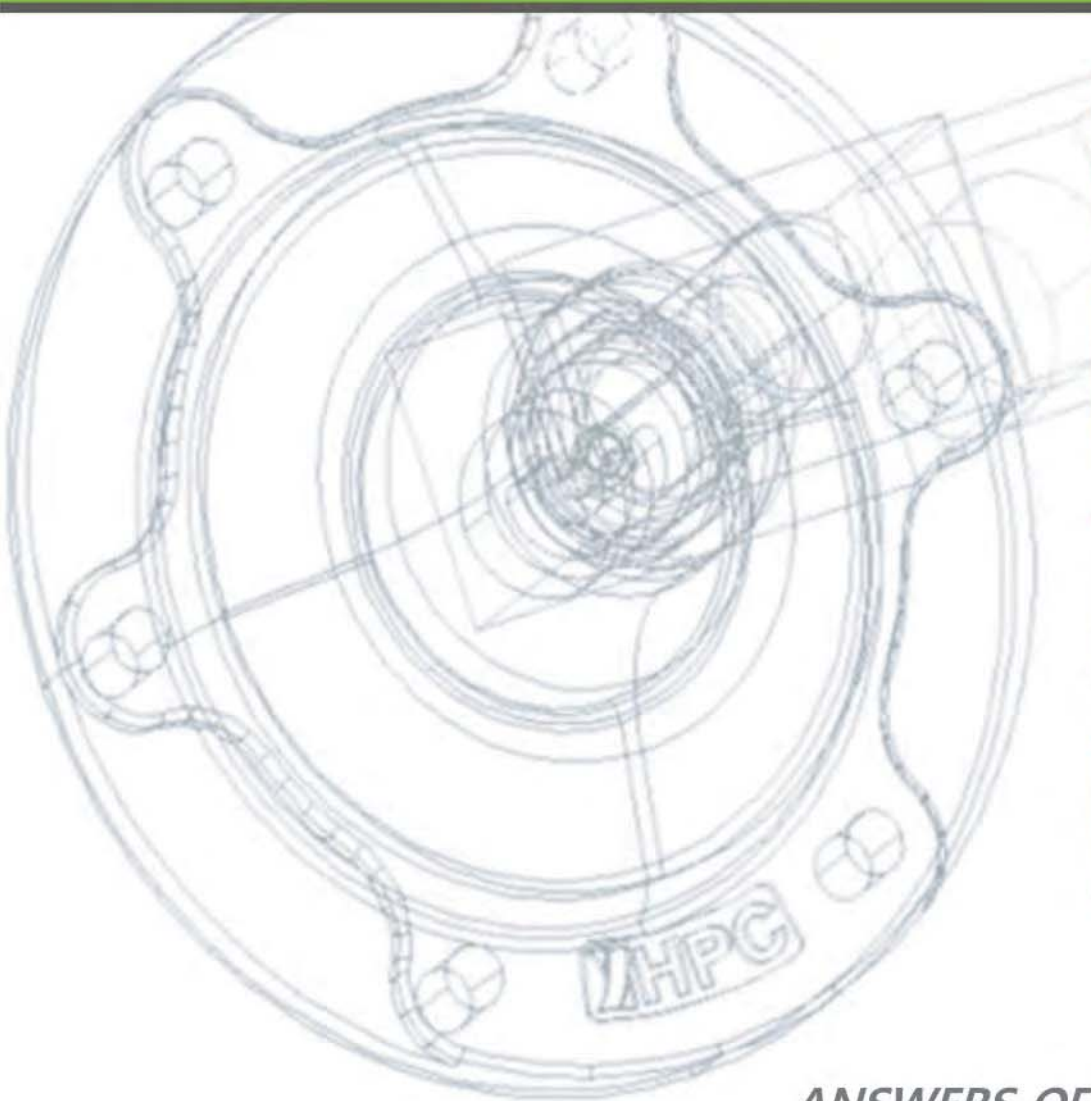


SINCE 1979



*ANSWERS OF GLOBAL SOLUTION*

**HONG SUNG PRECISION CO.,LTD**



**HONG SUNG**  
Precision.Co.,Ltd

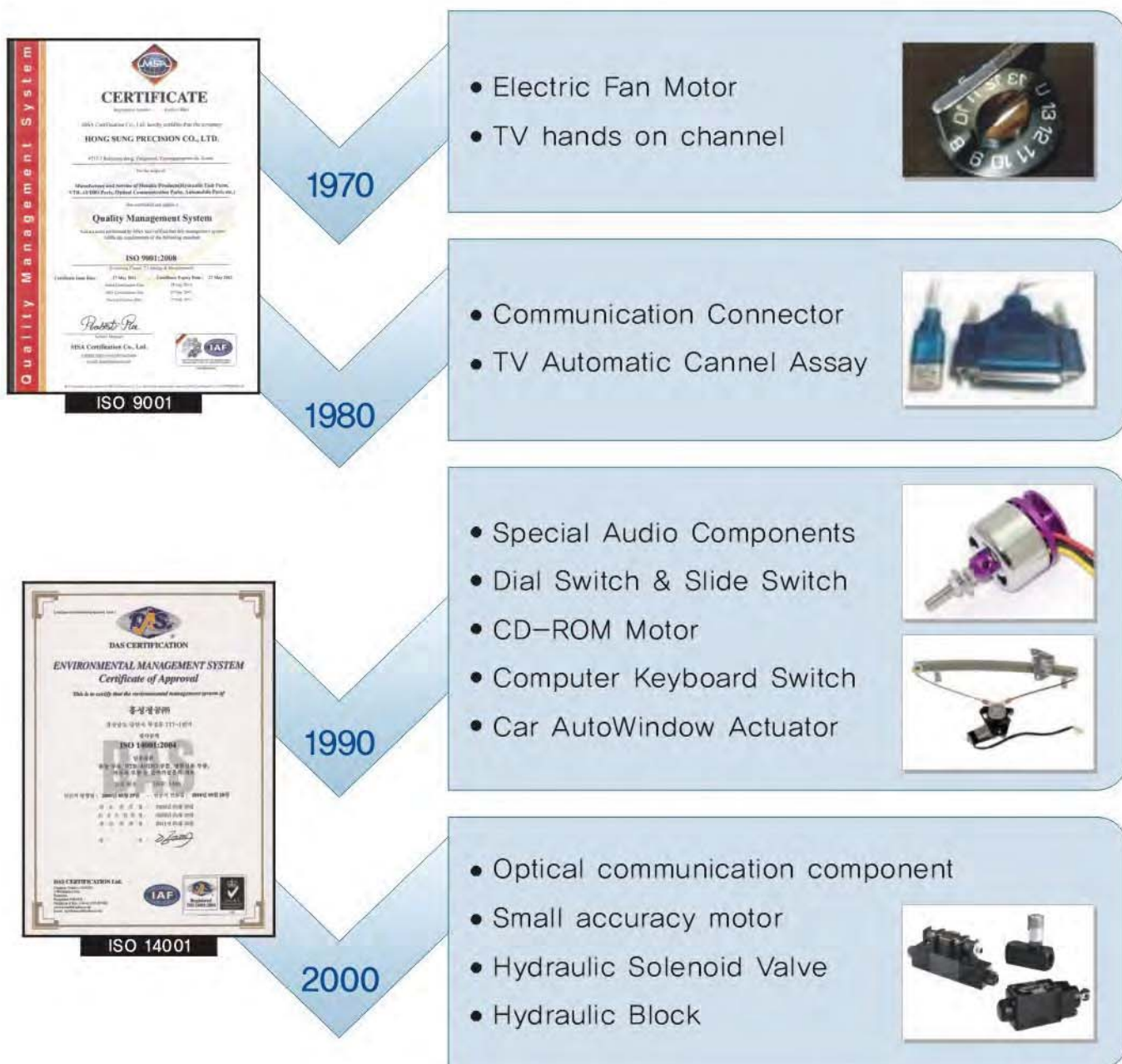
## GREETING

It is our great pleasure to get an opportunity to introduce our company to you.  
Hong Sung Precision, Co., Ltd is established in 1979. Our company operates plants in Korea.  
We manufacture hydraulic, Pneumatic components and Solenoid valves to supply to Korean and Japanese market.

We promise we'll do our best to build up remarkable accomplishment in the future and by our continuous efforts and their results, the best products will be provided as well as we will be a public service company.

Thank you.

## BRIEF PRODUCTION HISTORY





## BUSINESS FIELD

### ▶ Mechanical working



Electromechanical Component



Speaker Components



Automobile Component

### ▶ Hydraulic



Solenoid Valve



Pump Body



Manifold & Accessory

### ▶ Dust collector components



Air Solenoid Valve



Air Bank



Bag Cage

가스 터빈 공기흡기필터세정용솔레노이드 밸브

## HSV Series

Pulse Jet Solenoid valve for Gas Turbine Air Inlet Filter

Electrically and Pneumatically Actuated Diaphragm Valves

- High performance Diaphragm
- Rust Preventive Coating
- Low power consumption
- High quality and low cost

Used in **Donaldson GDX & TTD** self-cleaning filter systems to control the reverse pulse of the air that cleans the filters.



Solenoid Type



Air Operate Type

## SPECIFICATIONS

Operating pressure	0,2~9bar
Max. Working Pressure	9,9bar
Switching function	Normally closed
Flow direction	Determined
Coil gas temperature	-40°C to max. +85°C
Ambient temperature	-20°C to max. +85°C
Power consumption	9W
Mounting position	Optional, preferably solenoid vertical on top
Body Material	Alloy
Seat seal Material	NBR
Diaphragm Material	NBR





## Point 1) High Strength

Maximum Tensile Strength	Yield Tensile Strength	Hardness	
172 Mpa	124 Mpa	50 Brinell	Existing
310 Mpa	275 Mpa	95 Brinell	New Releases

**Double Strength**

- 고강도 특수 알루미늄 소재 사용
- Pulse 충격에 의한 **고장율** 저감
- 기존제품 대비 기계적 강도 **2배** 향상
- 사용 수명 **3배** 이상 향상

## Point 2) Rust Preventing Coating

기존 제품의 경우, 외부 환경에 따른 부식이 쉽게 발생하여 내부 공기 누설 및 고장이 빈번히 발생하는 문제점이 있었습니다.

**HSV series** 는 항공기부품의 내구성을 높이기 위해 사용되는 **특수피막처리**를 하여 부식 걱정 없이 오랜 시간 사용가능 합니다.

The biggest issue with the existing products was corroded.

**HSV series** are coated with a special material that is used to enhance the durability of airplane components. So our product is **anti-corrosion**.



심하게 부식되어 있는 기존제품  
An existed product is easily corroded.

## BEFORE AND AFTER

### Products pictures



부식방지코팅을 한 HPC 제품  
HPC with special anti rust coating



기 존 제 품  
Others without anti rust coating

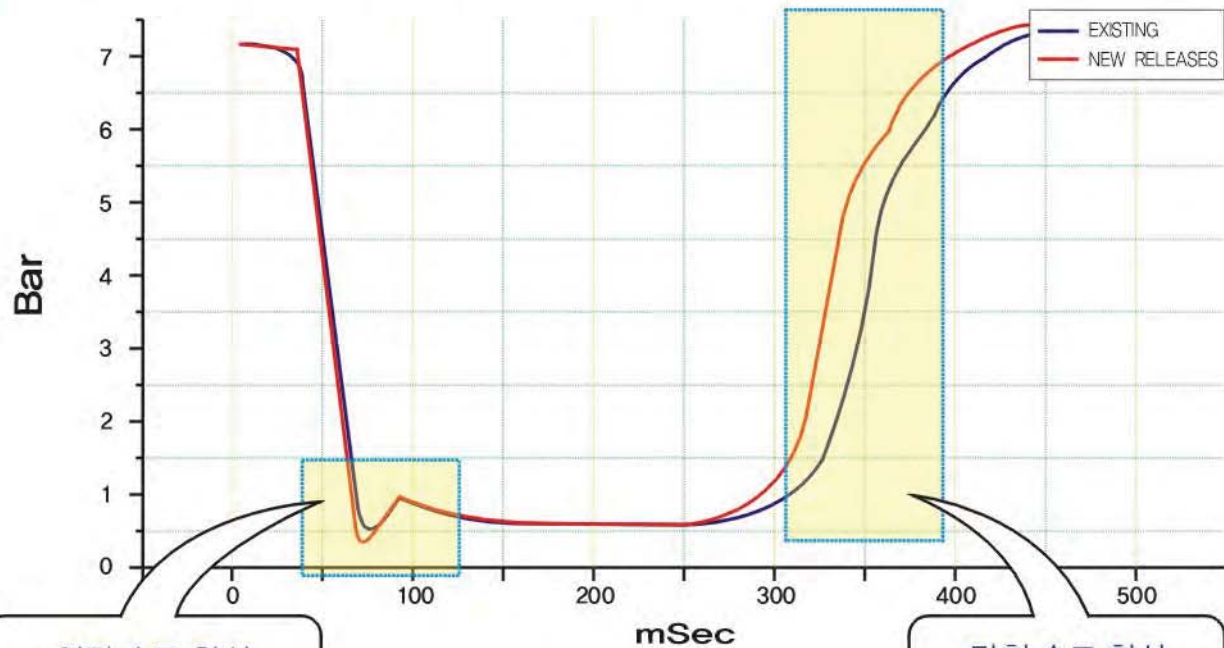


### 96시간의 염수분무 시험결과



After 96 hours in the Sea Water

### Point 3) Improvement performance



열림 속도 향상  
More faster open speed

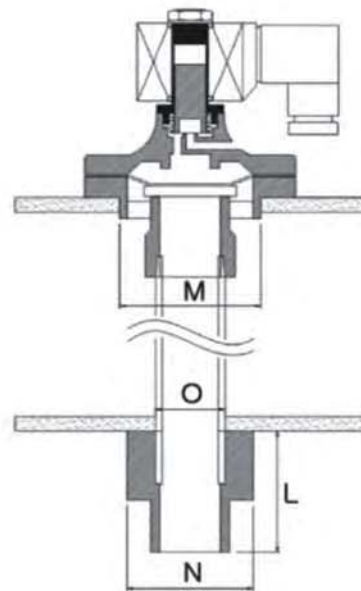
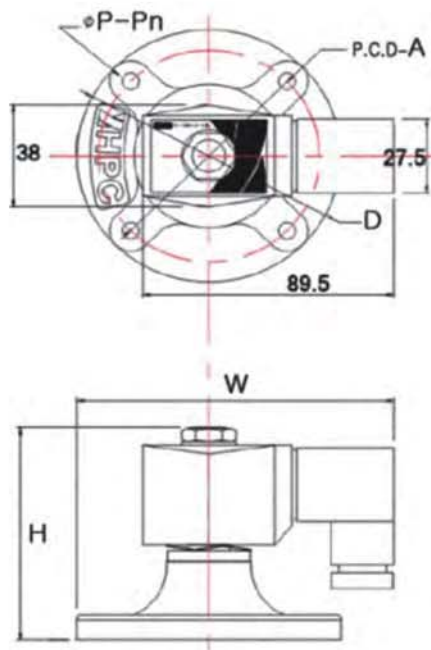
기존제품과 동적 성능 비교  
On/Off Performance comparison

닫힘 속도 향상  
More faster close speed

Assessment	Existing	New Releases	Compare
Using pressure	0.5~8Bar	0~10Bar	12% increased
Power Consumption	11W	9W	18% saving
Inner pressure	8Bar	15Bar(No leak)	87% increased
On Time	40ms	34ms	15% increased
Off Time	210ms	180ms	15% increased
Flow rate	22,000 L/min	25,680 L/min	16% increased



## || SINGLE STAGE DRAWING (Unit : mm)



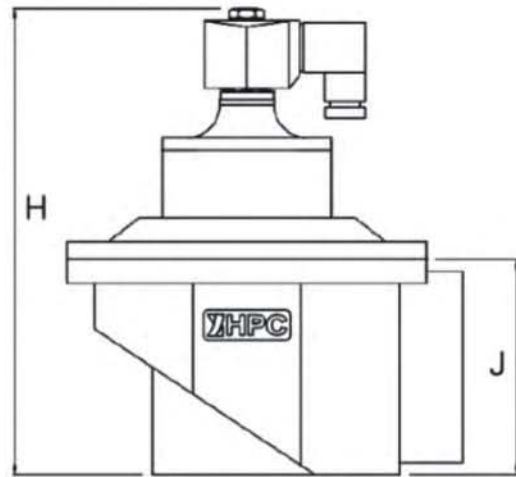
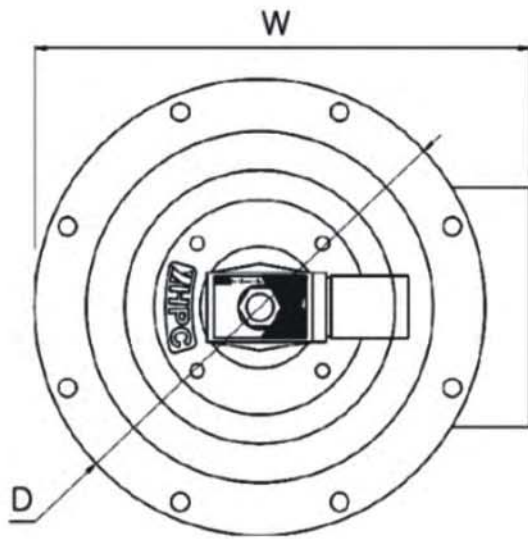
(UNIT : mm)

SIZE	P	Pn	A	D	W	H	M	O	N	L
21	6.5	4	79	94	113	80	63	31	56	76
41	6.5	6	98	115	124	90	87	46	75	58





## MULTI STAGE DRAWING (Unit : mm)



(UNIT : mm)

SIZE	D	W	H	J
61	184	194	230	100
81	200	220	260	118

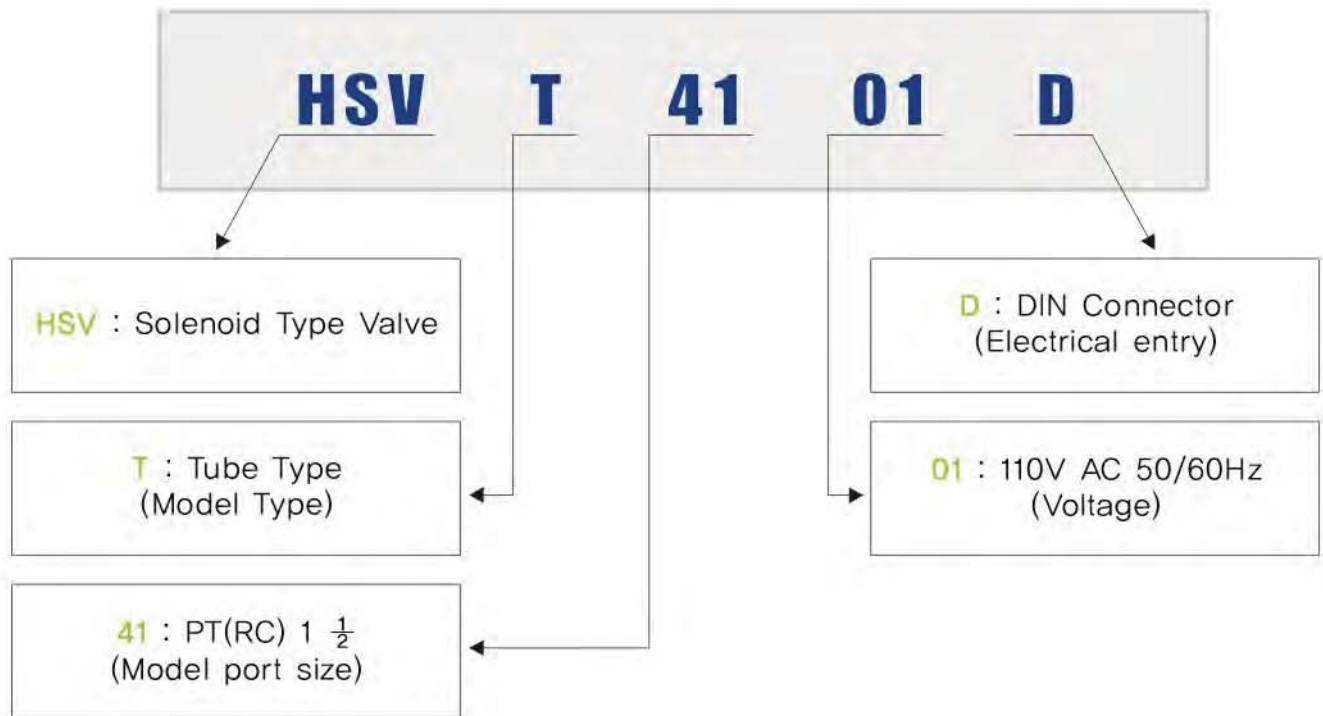


61A SIZE

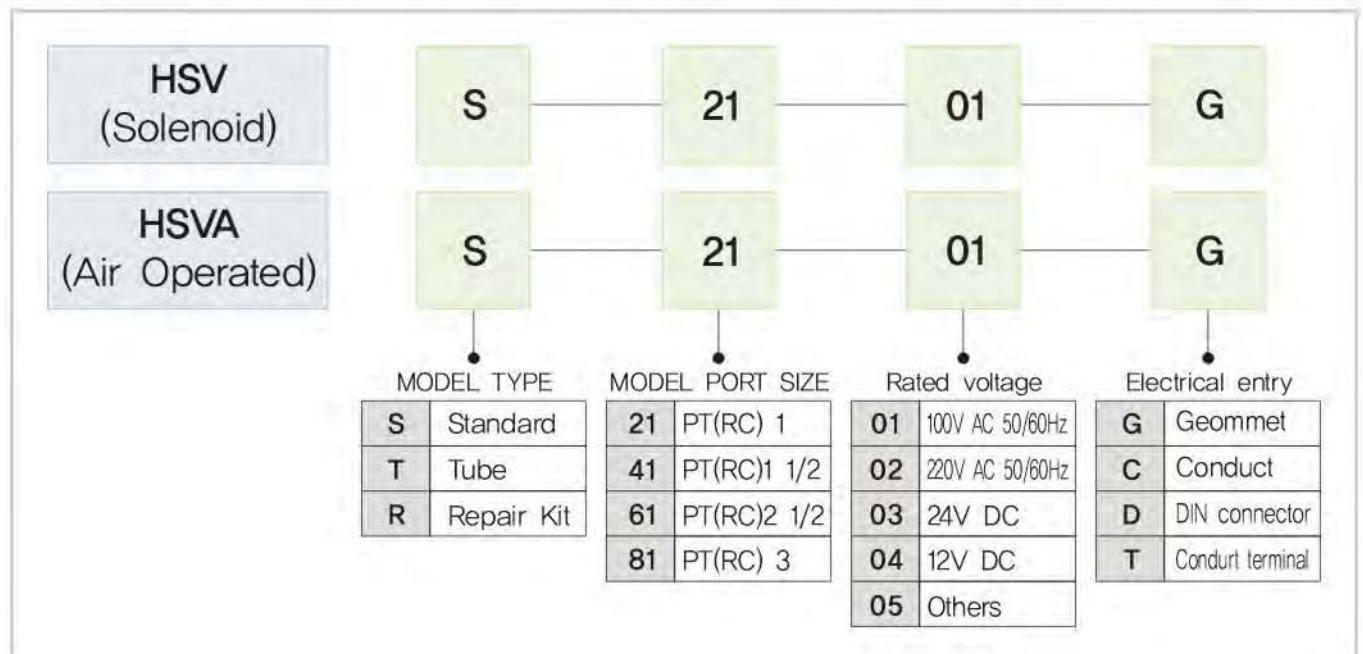


81A SIZE

## HOW TO CHECK CODE

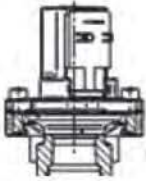

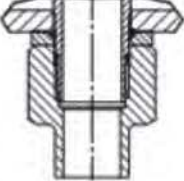
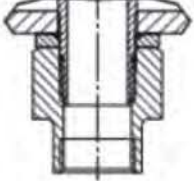
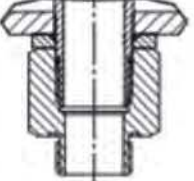


As you can see, you can also make a product code as you need as below.

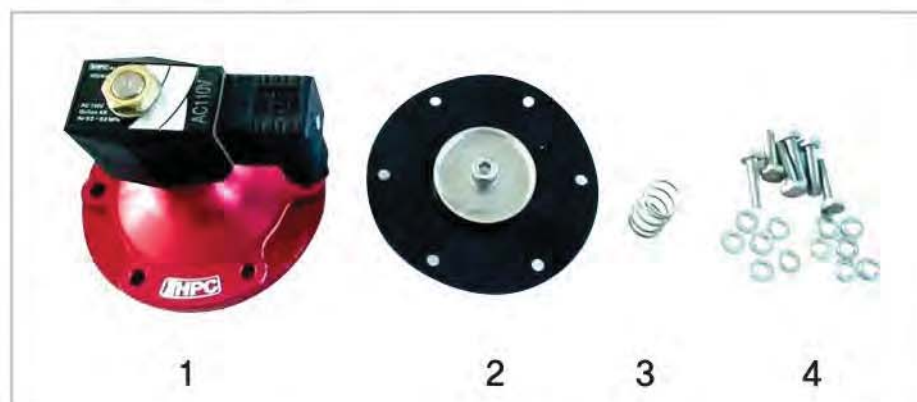




## TUBE TYPE ADDITIONAL ORDER INFORMATION

Outside dim. of tank/ profile(mm)	Part Number		Plus	Connection kit		
	21 PT(RC)1	41 PT(RC)1 1/2		Hose connector	Female thread	Male thread
						
70	21	—	+	21070H	21070F	21070M
100				21100H	21100F	21100M
120				21120H	21120F	21120M
140				21140H	21140F	21140M
160				21160H	21160F	21160M
180				21180H	21180F	21180M
200				21200H	21200F	21200M
70	—	41	+	41070H	41070F	41070M
100				41100H	41100F	41100M
120				41120H	41120F	41120M
140				41140H	41140F	41140M
160				41160H	41160F	41160M
180				41180H	41180F	41180M
200				41200H	41200F	41200M

## REPAIR KIT



1 Valve Body

2 Diaphragm

3 Spring

4 Fasteners

# CHALLENGE FOR GLOBAL SOLUTIONS



Gyeongnam YangSan  
경남 양산시

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