

CHOICE FOR SOLUTION

HONGSUNG

HONGSUNG PRECISION CO.,LTD



Greeting

The Hong-Sung Precision Co., Ltd. has grown up through consistent management innovation and technology development since the establishment in 1979, as a pioneer leading the precision machinery processing industry. Further, based on the experience and technical capability accumulated to date for the last 30 years in the precision machinery processing business, we are pursuing the business expansion in the fields of compact service robot driving components, unmanned aircraft business and heavy duty hydraulic products as new growth engine, taking off to an integrated solution provider creating the highest added value in technology beyond being a standalone machinery processing component manufacturer.

Yet, we do not want to satisfy with what we have accomplished and settle in present situation. Toward a big goal to be the top class business enterprise recognized worldwide, the employees and management of Hong-Sung united as one solid team are determined to exert the utmost effort in promoting the development of state-of-art technologies and improvement in quality. The Hong-Sung will try to be a helping hand as closely as possible with the best products and services as always we have been.



History

Growth 1970~1990



We envision a global world with continued growth, advanced business management, competent human resources and technologies.

Emergency 2000



We are preparing to advance toward the world by establishing local corporations and venture companies in China.

Into The World 2010



We have already established firm foundations over the course of 30 years by gradually strengthening the fundamental basis of the company.



1970

- Hong-Sung established.

1980

- Designated as a vendor for Goldstar Alps Electronics – Currently the LG Innotek.

1990

- Designated as a vendor for Yanji Metal.
- Designated as a vendor for Sepoong Controls.
- Designated as a vendor for Samsung Corning Microoptics.
- Incorporated as Hong-Sung Precision Co., Ltd.

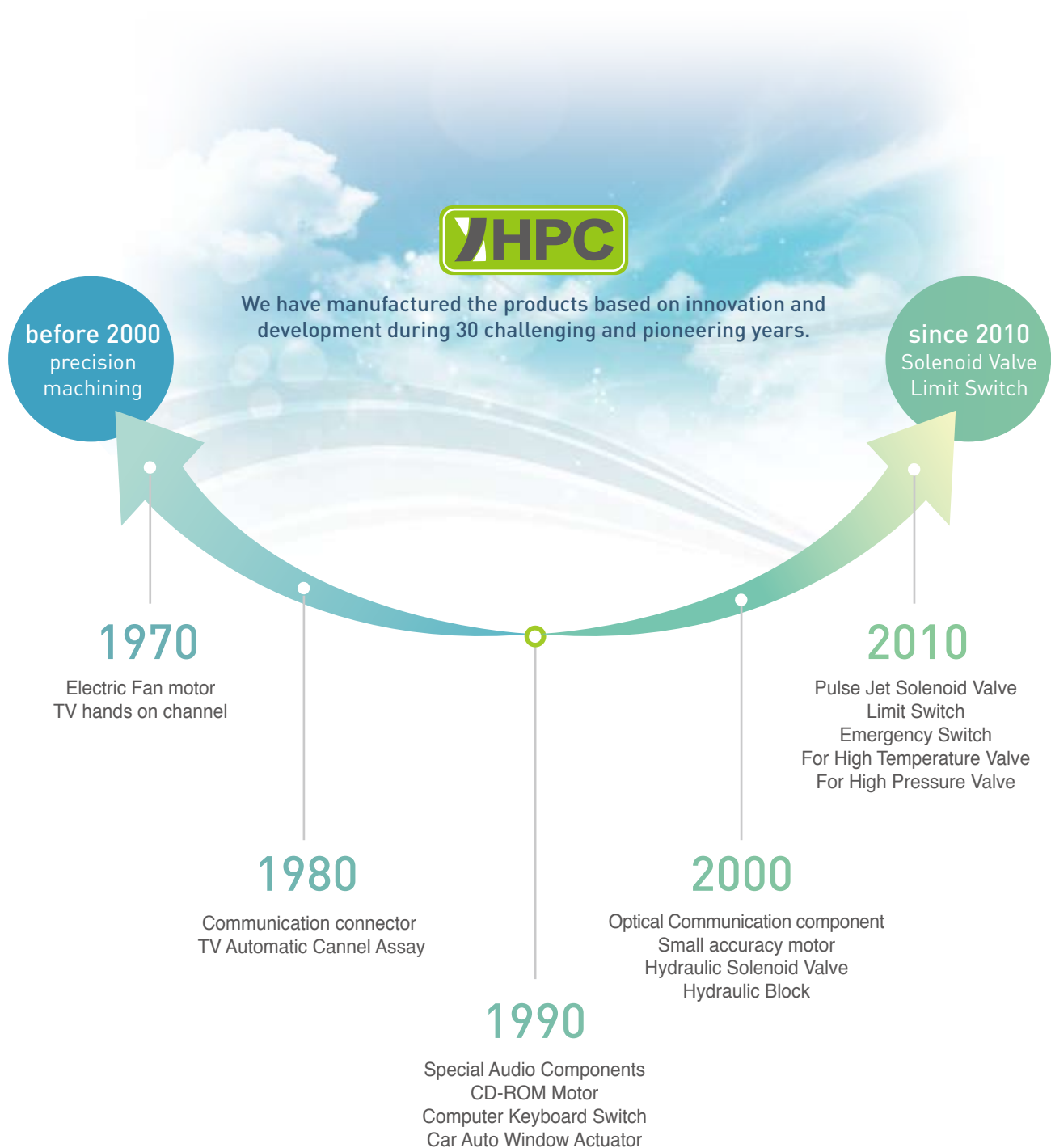
2000

- Established a Chinese subsidiary.
- Certified with INNOBIZ.
- Certified as a Venture Enterprise.
- Acquired certification for Attached R&D Institute.

2010

- Selected as an Export Partner for KEPKO.
- Solenoid Valve for Gas Turbine Combustion Filter patented.
- Limit Switch patented.
- Registered as a Member of Export Council for KOMIPO.
- Received the Grand National Productivity Award from the Minister of Trade, Industry & Energy.
- Awarded the Winner Prize from the Korea Commission for Corporate Partnership in the Small-Medium-Large Enterprise Partnership Competition.

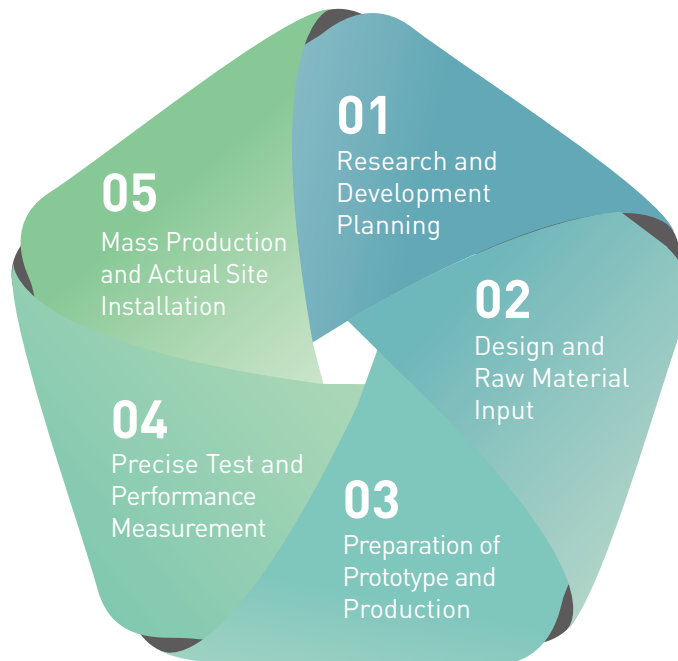
History of Manufacturing



“ The **present** and **future** of Hongsung Precision is the result of and depends on our strenuous efforts and spirit of innovation. ”

R & D

➤ Process



01



Research and Development Planning

- Project Selection
- Analysis of existing products and markets : Identification of problems



02



Design and Raw Material Input

- Design of 2D / 3D product
- Selection of materials



03



Preparation of Prototype and Production

- Determining manufacturing method
- Manufacturing of each process
- Post-processing (Electroplating/Finishing)



04



Precise Test and Performance Measurement

- Measurement and test
- Performance test



05



Mass Production and Actual Site Installation

- Mass production and assembly
- Delivery and field application of products



Overseas Activity



International Exhibition



Certificate



ISO 9001



ISO 14001



OHSAS 18001

Cooperating Companies



Construction



Shipbuilding



Electronic



Hydraulic



Defense industry



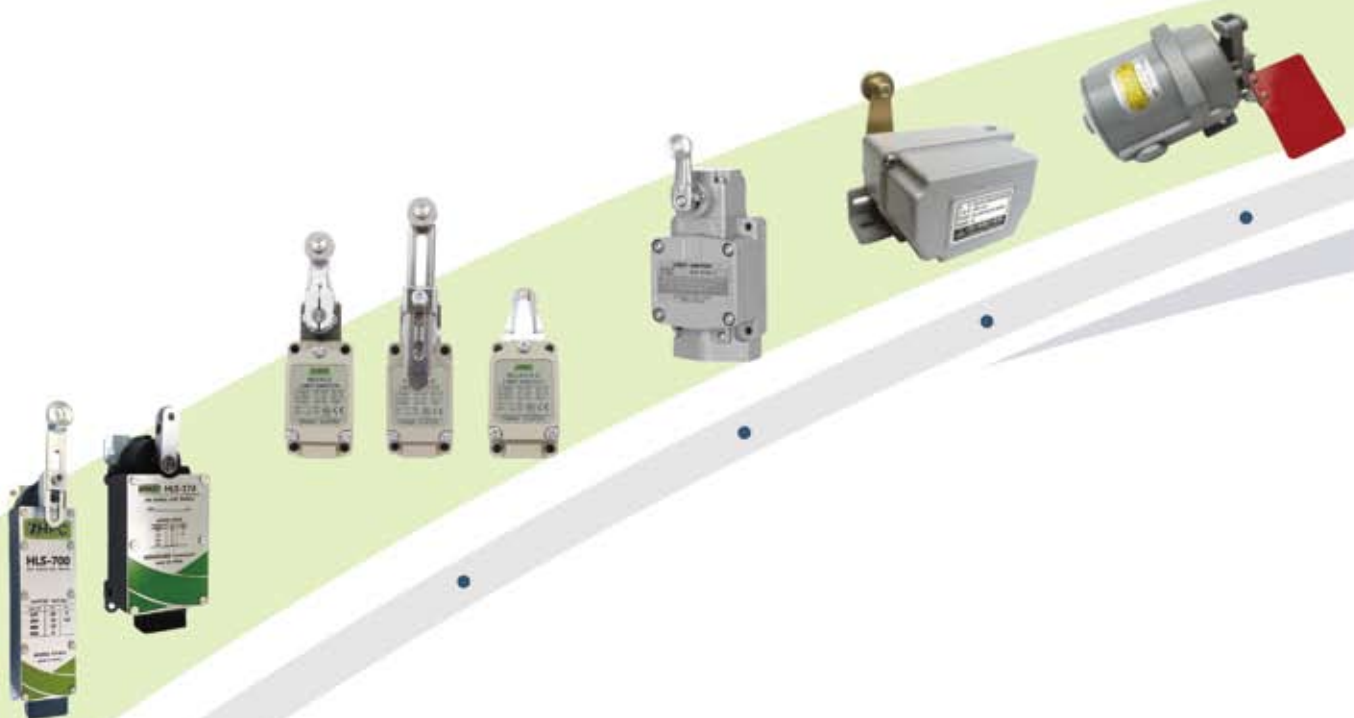
Automobile



Power Generation



Major Product



› Limit Switch & Emergency Switch

Limit switch for high-temperature environment

Limit switch for high-pressure environment

Waterproof and dustproof limit switch

General-purpose limit switch

Explosion-proof, heavy-load limit switch

Pull cord switch

➤ Solenoid Valve & Hydraulic Valve

Pulse jet solenoid valve

For high temperature solenoid valve

For high pressure solenoid valve

Air & gas solenoid valve

Diaphragm solenoid valve

Hydraulic Valve

OEM & ODM (hydraulic valve blocks)



HLS Series Limit Switch



HLS-170

DPDT TYPE
(Double Pole Double Throw):
2 N.O 2 N.C



HLS-700

TPDT TYPE
(Triple Pole Double Throw):
3 N.O 3 N.C

Operational Environment

- High Temperature Environment: driving parts of turbine at thermal power plant and steel manufacturing plant, etc.
- High Vibration and High Load Environment: large crane, valve for plant and damper of power plant
- Environments requiring Corrosion Resistance: boiler feed pump, offshore plant, shipbuilding, vessel, etc.



Key Certification and Performance

- Obtained performance certification from major authorized agencies.
Korea Institute of Machinery & Materials: vibration resistance and impact resistance
Korea Testing & Research Institute: salt spray
Korea Testing Certification: waterproof and dustproof, electronic stability and fire resistance



Application for Two Patents

► Features

01 Heavy Duty Vibration & Temperature Resistant (Max125℃)



02 Excellent anti-rust performance

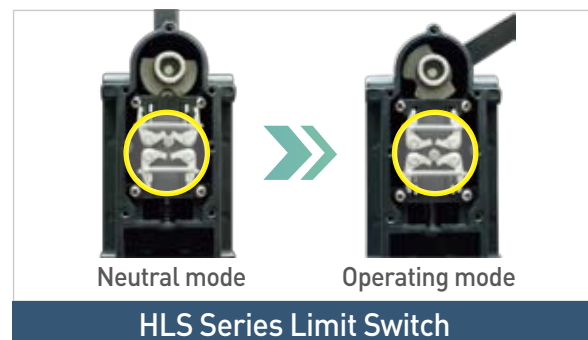


03 Dust proof and water proof (IP65)



- **IP 6X:** Dust does not go into the inside.
- **IP X5:** No adverse effects from direct spray of water from any direction.

04 Operation under high vibration condition (Lock Type structure)



- Actualized the lock function even in the neutral state (more stable operation than the general purpose limit switch)

WL Series Limit Switch



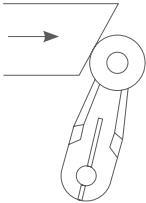
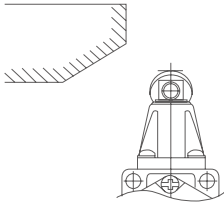
► Features

- Double-circuit type of limit switch is widely used. (SPDT TYPE)
- With strong aluminum cast outer shell
- High mechanical strength
- Structure preventing oil, water and pressure(IP67)
- Various of actuators is taken convenience for using
- Built-in contact stand has double-spring, so it has long mechanical life

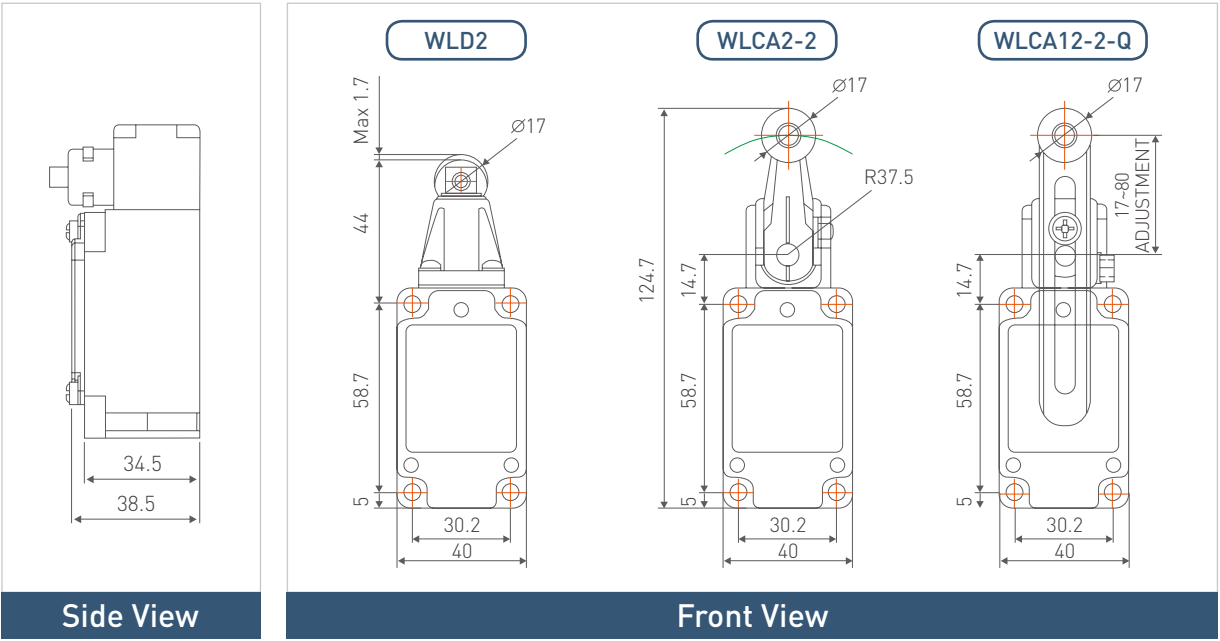
► Performance

Degree of protection		IP67
Max. Voltage		AC250V
Inrush electric current		10A
Insulating resistance		Min 100MΩ (500VDC)
Contact resistance		Max 25MΩ
Vibration resistance		10Hz~55Hz, 1.5mm
Shock resistance		Max 300m/s ² , 30G less than
Life time	Mechanical	15,000,000 times
	Electrical	750,000 times
Operating temperature range		-10℃ ~ +80℃

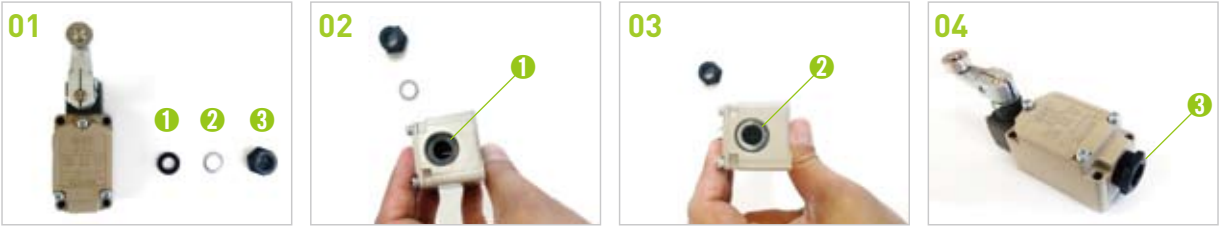
➤ Performance characteristics

	WLCA2-2, WLCA12-2-Q	WLD2
Triggering	30° convex trigger	30° convex trigger
Triggering type		
Max triggering Speed	1.3m/s	0.5m/s
Max triggering force	1360g	2720g
Min restoring force	227g	910g
Weight (kg)	0.33	0.25

➤ Dimensions and Mounting



➤ How to use it



※ Installation of the product in the order of 1, 2, 3 and 4 will ensure excellent waterproof and dustproof performance.
Please be note that ❸ is required to be assembled as tightly as possible.

Solenoid Valve for Air & GAS



HSV8320-D2
3way Standard Type
[DC 120V]



HSV8320-A1
3way Standard Type
[AC 110V]

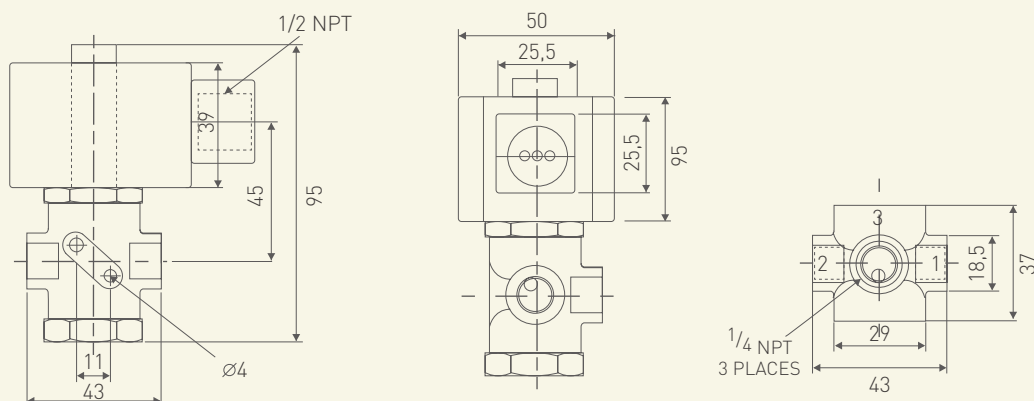
► Features

- Solenoid valve for the pneumatic and gas directional transfer and flow control
- Suitable for the general environment or high-temperature environments at over 120°C
- Can be utilized in various environments including thermal power plant, ironworks and chemical plant
- Visually identifiable temperature display function

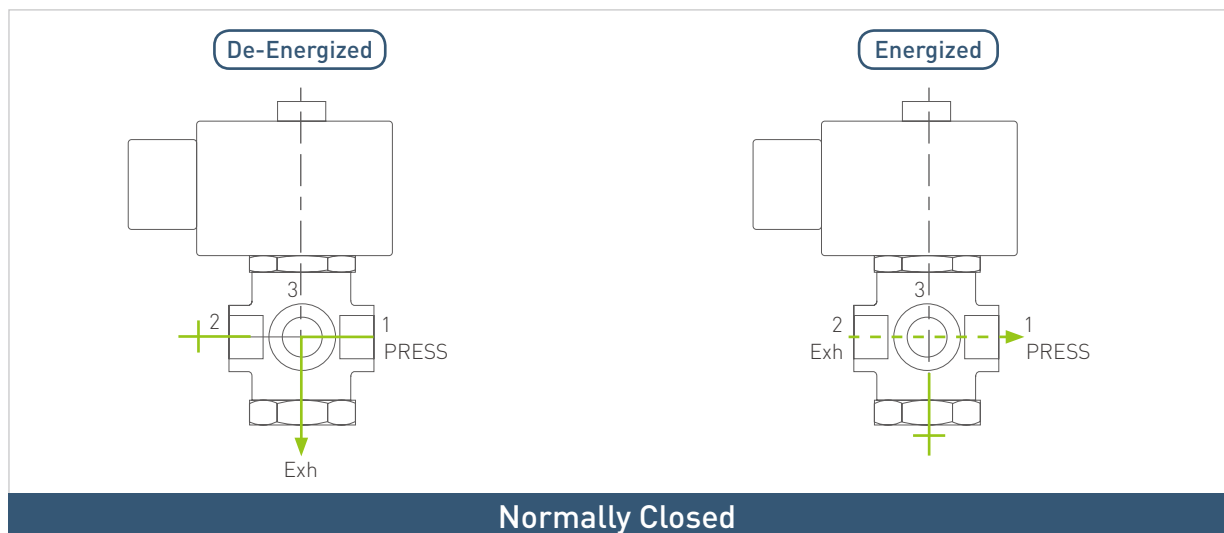
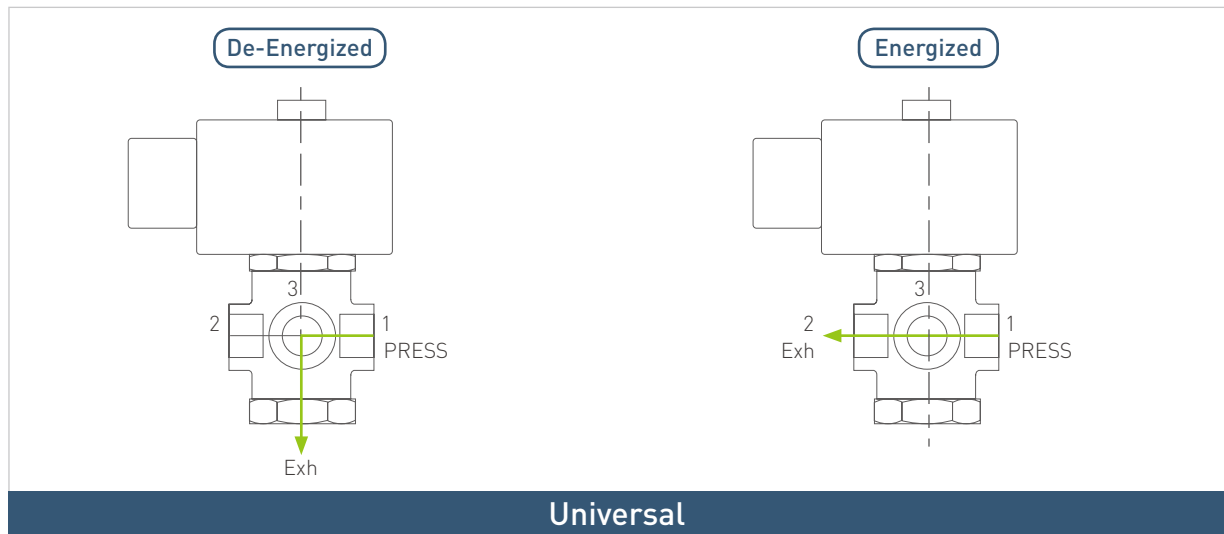
► Performance

Max. Fluid Operating Temperature	Over 100°C
Max. Ambient Temperature	Over 120°C
Max. Operating Pressure	10 Bar
Leak Rate	Below 0.01mL/min.
Flow Coefficient	0.37Cv
Withstanding Pressure	Over 15Bar
Rated voltage	AC110V, DC120V
Port	1/4

► Dimensions and Mounting

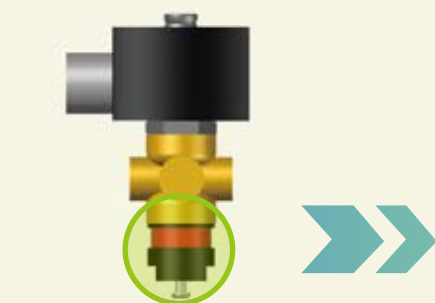


➤ Flow diagrams



➤ Accessory

End Cap and Temperature Display Ring



- Displays the changes of temperature on the surface of the valve using colors (improving user safety)



Low Temperature and
General Environment



High Temperature
at over 50°C

Pulse Jet Solenoid Valve



Solenoid Type



Air Operate Type

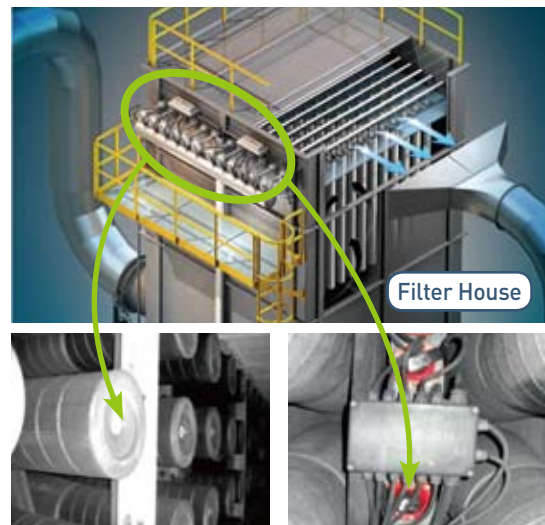
➤ Application

- Pulse Jet Solenoid valve for Gas Turbine Air Inlet Filter
- Power Plant, Chemistry, Cement, Steel manufacture, Casting, etc.
- Electrically and Pneumatically Actuated Diaphragm Valves

➤ Specification

Operating pressure	0.2 ~ 9 bar
Max. Working pressure	9.9 bar
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

➤ How to use it



➤ For Series



20A



40A



60A



80A

► Features

01 High Strength

Maximum Tensile Strength	Yield Tensile Strength	Hardness	
172 Mpa	124 Mpa	50 Brinell	Existing product
310 Mpa	275 Mpa	95 Brinell	HPC product

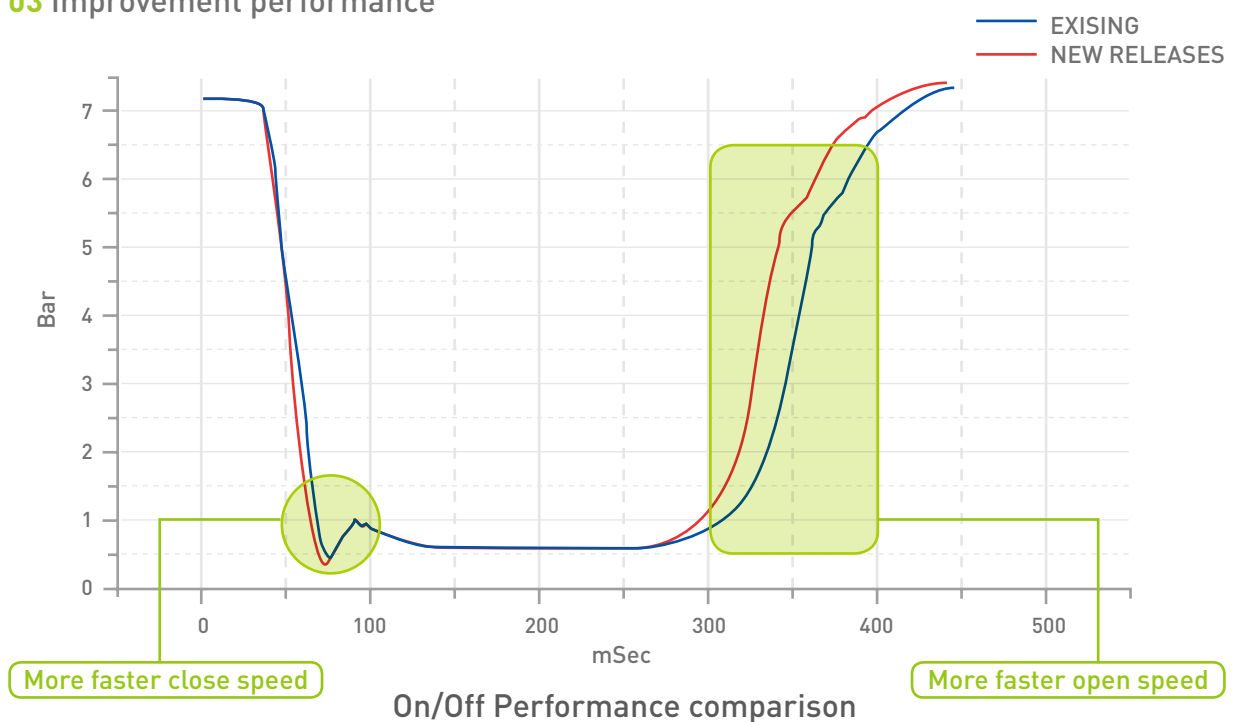
Double Strength

- Special high-intensity aluminum materials used
- Reduced failure rate caused by pulse shock
- Mechanical strength enhanced two times compared to existing products
- Service life extended more than 3 times

02 Rust Preventing Coating



03 Improvement performance



Manifold blocks (OEM & ODM)



➤ Application

- Utilized in the whole industry as hydraulic valves for construction equipment, agricultural equipment parts and industrial equipment parts.
- Utilized for pressure control and flow control in the pneumatic and hydraulic sector for types of cartridge valves.
- Served as a bridge to open the flow path of all sorts of solenoid valves.

➤ Product Information



- Released in various types depending on the requests of users.
- Material spec : FC25, FCD45, AL6061, FCU340, S45C, etc
- Finish : Surface treatment or Clear anodizing

➤ Features

- Excellent space application (control several valves in a small space)
- Available for accurate control of fluid flow
- Control of loss and resistance of fluids in valves

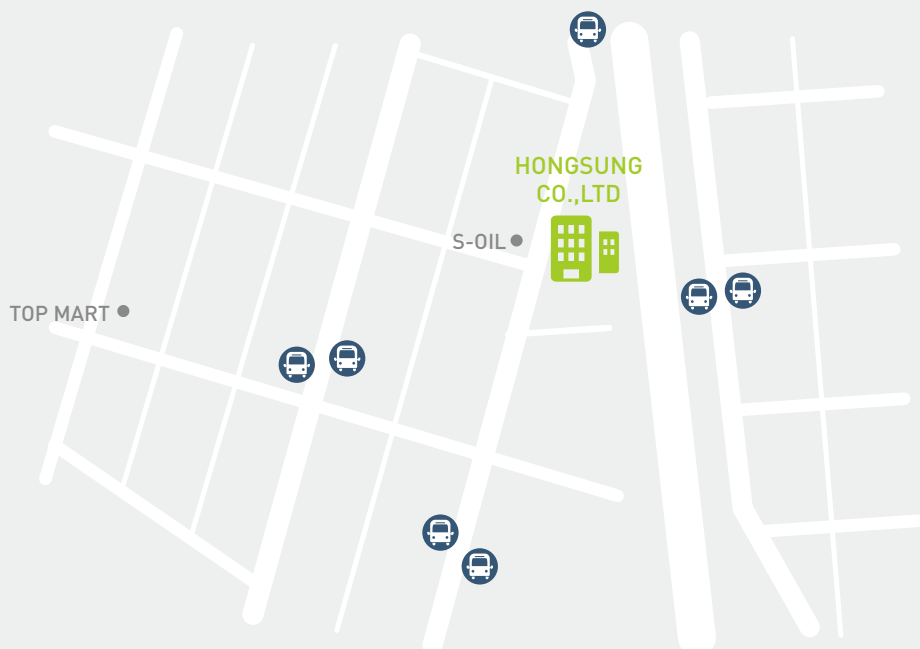


Fittings & Flexible Metal Hose



Contact us

► How to Get Here



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