AUTOMATION & REGULATING VALVES

Piping System Ancillaries

Total Engineering Solution Service

GvK Limited

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GvK Limited, founded in June 2020 by a leader with 38 years of experience, focuses on R&D while ensuring quality, price, and functionality through domestic production. The company offers Process Valves, Valve Equipment, and Total Engineering services for industries such as Gas, Refining, Petroleum, Power generation, Environment, and Water treatment. With a management team possessing 30-40 years of experience, GVK has developed numerous patents and adheres to quality standards like ISO 9001, 14001, 45001, and CE, ASME “U” & ”PP”, EAC. Recognized for its advanced automatic control valves, GVK also supplies a range of Control Valves globally through OEM and ODM partnerships.

Although Still In The Early Design And Manufacturing Stages, GVK Has Emerged As A Leading Company In Korea, Equipped With Skilled Personnel And Testing Capabilities.
The Company Aims To Lower Production Costs, Enhance Efficiency And Improve Quality While Accumulating Hyper-intelligence Valve Engineering (Hive) Technology.
GvK Limited is Committed To Meeting Customer Needs With Competitive Pricing And High Value-added Services.

Mutually Beneficial Relationships

To Be Your Best Partner

The Professional Provider of Automatic valve Actuators

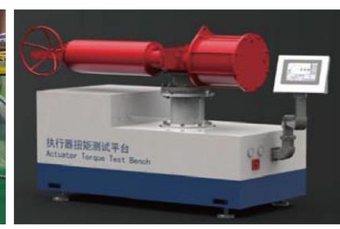






38 years experience “one stop” goods and services



GLOBAL VISION KOREA

VMV® Value MFG Valve

ACEFLOW Valve Engineering

Mission

기초에 근거하여 원천 기술을 살리고 원천 기술을
극대화하여 세계 중심에 서는 것

To place oneself at the center of the global landscape by utilizing core groundbreaking technology and maximizing its capabilities.

Vision

우리는 옳은 일과 가치 있는 일에 주저함이 없이
최선을 다하고 실천하여 세계의 중심에 서자

Let us place ourselves at the forefront of the world by striving to do our best and confidently advocating for what is just and valuable.

Contents

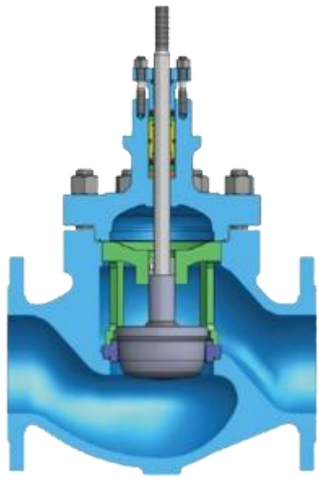
Description

The GL/GV1000 Series single-seat control valve features a top guided unbalanced design, offering high strength, heavy load capacity, and an S-type flow channel for low pressure drop and high flow coefficient. It is ideal for applications with low differential pressure requiring tight shut-off. The press-in type seat design enhances service life by addressing issues with traditional threaded seats. The valve allows for improved control at low flow rates, and special cages for noise reduction and anti-cavitation can be provided based on specific conditions.

Standard Specification

Trim Features	Top Guided, Unbalanced Trim, Quick Disassembly Cage Structure
Body Type	Straight-through Type, Angle Type
Body Size	1/2” upto 36”
Pressure Rating	ASME CLASS 150 upto 4500
Bonnet Type	Standard Type, Heat Dissipation Type, Cryogenic Type, Bellows
Flow Characteristic	Equal Percentage, Linear, Quick Open
Shut-off Class	ASME B16.104 IV (Standard Metal Seat) ASME B16.104 VI (Shut-off Soft Seat)
Pipe Connection Type	Flange Type, Butt Welding Type
Applicable Temperature Range	-196℃ upto +815℃
Actuator Type	Pneumatic Diaphragm Actuator Pneumatic Piston Actuator Electric Actuator

Globe Control Valve GL1000 Series



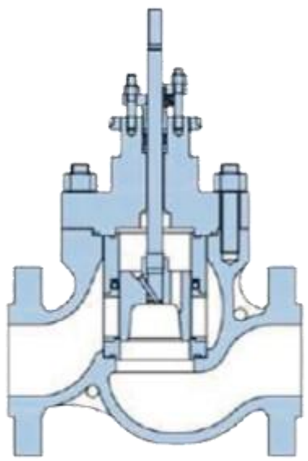
Description

The GL/GV2000 Series cage single-seat control valve features a cage-guided design and pressure-balanced plug, making it ideal for high differential pressure applications. The balanced seal ring replaces the upper seat, enhancing the shut-off capability. Its low opening and closing force allows for effective control with minimal actuator thrust. This valve is suitable for fluid control in middle and low temperature and pressure pipelines, offering excellent sealing, stability, and maintenance efficiency with quick trim replacement.

Standard Specification

Trim Features	Cage Guided Type, Balanced Trim Structure, with Balanced Seal Ring Structure
Body Type	Straight-through Type, Angle Type
Body Size	1/2” upto 36”
Pressure Rating	ASME CLASS 150 upto 4500
Bonnet Type	Standard Type, Heat Dissipation Type, Bellows
Flow Characteristic	Equal Percentage, Linear, Quick Open
Shut-off Class	ASME B16.104 IV (Standard Metal Seat) ASME B16.104 VI (Shut-off Soft Seat)
Pipe Connection Type	Flange Type, Butt Welding Type
Applicable Temperature Range	-30℃ upto +815℃
Actuator Type	Pneumatic Diaphragm Actuator Pneumatic Piston Actuator Electric Actuator

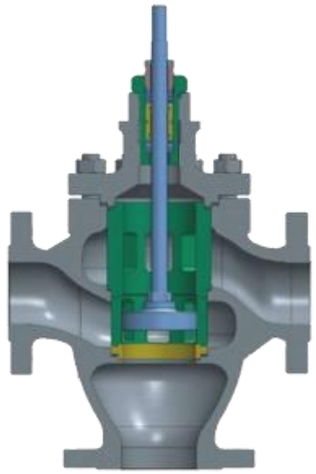
Globe Control Valve GL2000 Series



Description

The GL/GV3000 Series three-way converging / diverging control valve adopts the top guided pressure unbalanced plug. It is mainly used for converging or diverging media of several flow channels. Entering from two channels and exiting from one channel is called three-way converging, and conversely, entering from one channel and exiting from two channels is called diverging. The three-way valve can also play the pipe shut-off and opening function. The standard converging/diverging design is the unbalanced double seat trim structure. In addition, special cages with noise reduction and anti- cavitation functions can also be designed according to the service conditions .

Globe Control Valve GL3000 Series



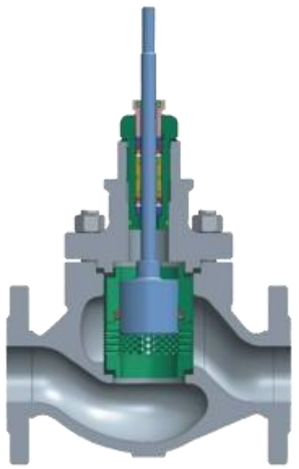
Standard Specification

Trim Features	Double-Seat Sleeve Guided
Body Type	Three-way Type
Body Size	1/2“ upto 36”
Pressure Rating	ASME CLASS 150 upto 4500
Bonnet Type	Standard Type, Heat Dissipation Type, Cryogenic Type, Bellows
Flow Characteristic	Equal Percentage, Linear, Quick Open
Shut-off Class	ASME B16.104 IV (Standard Metal Seat)
Pipe Connection Type	Flange Type, Butt Welding Type
Applicable Temperature Range	-196℃ upto +570℃
Actuator Type	Pneumatic Diaphragm Actuator Pneumatic Piston Actuator Electric Actuator

Description

The GL/GV4000 Series multi-hole low noise control valve features a sleeve-guided structure and pressure-balanced plug, making it suitable for demanding service conditions. It addresses high differential pressure and flow velocity, which can cause erosion and noise. By utilizing a multi-hole sleeve, it reduces flow velocity through internal collisions for liquids and allows gas to expand after throttling, lowering pressure. Parts of the G2020 Series are interchangeable with the G2020M Series, except for the sleeve type.

Globe Control Valve GL4000 Series



Standard Specification

Trim Features	Sleeve Guided Type, Balanced Trim Structure, With Balanced Seal Ring Structure
Body Type	Straight-through Type, Angle Type
Body Size	1/2“ upto 36”
Pressure Rating	ASME CLASS 150 upto 4500
Bonnet Type	Standard Type, Heat Dissipation Type, Cryogenic Type, Bellows
Flow Characteristic	Equal Percentage, Linear, Quick Open
Shut-off Class	ASME B16.104 IV (Standard Metal Seat) ASME B16.104 VI (Shut-off Soft Seat)
Pipe Connection Type	Flange Type, Butt Welding Type
Applicable Temperature Range	-196℃ upto +815℃
Actuator Type	Pneumatic Diaphragm Actuator Pneumatic Piston Actuator Electric Actuator

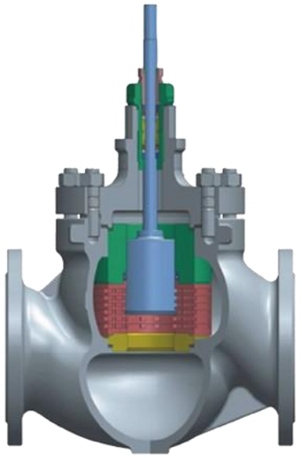
Description

The GL/GV Series balanced labyrinth control valve features a labyrinth cage and plug design. The labyrinth sleeve consists of cylindrical discs with multiple coaxially arranged labyrinths. Different specifications for the labyrinth are designed based on media parameters, creating a cage that divides the flow into smaller, circuitous channels. This design forces fluids to change direction, reducing pressure and preventing flash evaporation and cavitation, thus extending the trim's lifespan. The balanced sleeve plug ensures minimal leakage and is suitable for conditions prone to blocked flow and cavitation.

Standard Specification

Trim Features	Sleeve-Guided Type, Balanced Trim Structure
Body Type	Straight-Through Type, Angle Type
Body Size	1/2“ upto 36”
Pressure Rating	ASME CLASS 150 upto 4500
Bonnet Type	Standard Type, Heat Dissipation Type, Cryogenic Type
Flow Characteristic	Equal Percentage, Linear, Quick Open
Shut-off Class	ASME B16.104 IV (Standard Metal Seat) ASME B16.104 VI (Shut-off Soft Seat)
Pipe Connection Type	Flange Type, Butt Welding Type
Applicable Temperature Range	-196℃ upto +815℃
Actuator Type	Pneumatic Diaphragm Actuator Pneumatic Piston Actuator Electric Actuator

Globe Control Valve GL5000 Series



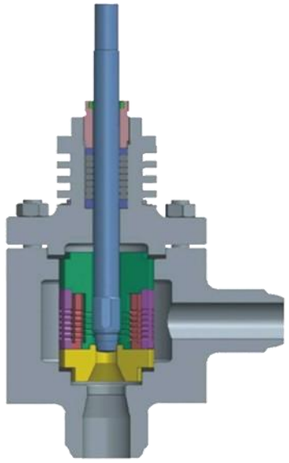
Description

The GL/GV6000 Series three-way converging / diverging control valve adopts the top guided pressure unbalanced plug. It is mainly used for converging or diverging media of several flow channels. Entering from two channels and exiting from one channel is called three-way converging, and conversely, entering from one channel and exiting from two channels is called diverging. The three-way valve can also play the pipe shut-off and opening function. The standard converging/diverging design is the unbalanced Doubleseat trim structure. In addition, special cages with noise reduction and anti- cavitation functions can also be designed according to the service conditions .

Standard Specification

Trim Features	Sleeve Guided Unbalanced Trim Structure, Combination of Multi-hole Cages
Body Type	Angle Type
Body Size	1/2“ upto 36”
Pressure Rating	ASME CLASS 150 upto 4500
Bonnet Type	Standard Type, Heat Dissipation Type, Cryogenic Type, Bellows
Flow Characteristic	Equal Percentage, Linear, Quick Open
Shut-off Class	ASME B16.104 IV (Standard Metal Seat) ASME B16.104 VI (Shut-off Soft Seat)
Pipe Connection Type	Flange Type, Butt Welding Type
Applicable Temperature Range	-196℃ upto +815℃
Actuator Type	Pneumatic Diaphragm Actuator Pneumatic Piston Actuator Electric Actuator

Globe Control Valve GL6000 Series



Description

GTR series triple offset metal seat butterfly valves offer bi-directional, bubble-tight shut-off due to their unique geometry. The valve features three offsets: the first offsets the stem, the second offsets the seat surface's center line from the pipe, and the third uses an inclined cone to eliminate rubbing. This design enhances sealing and durability, requiring minimal maintenance. The angle of contact provides effective sealing with low torque, ensuring efficient transmission of actuator force to the seat parts.

Standard Specification

SIZE RANGE	2” ~ 120”
TEMP. RANGE	-50 ~ 650 °C
DESIGN	API 609 / BS 5155 / ANSI B 16.34
TEST INSPECTION	API 598 / ISO 5208
PRESSURE TEMP' RATINGS	ASME / ANSI B 16.34, 16.24
LEAKAGE	ZERO LEAKAGE
FLUID	WATER / SEA WATER / 02 / C02 / H2 / COG / LDG / BFG / FOG / MIXED GAS / DUST / STEAM / AIR HYDROCHLORIC ACID / SULFURIC ACID NITRIC ACID
FLANGE RATING	ASME B 16.5 / 16.47 CLASS 150LB, 300LB, 600LB, 900LB (JIS) 10K, 16K, 20K, 30K, 40K BS 4504 DIN PN10, PN16, PN25, PN40, PN63, PN100 AWWA C207 CLASS B & D, E, F

Triple Offset Butterfly Valve GTR Series

Description

The GDO series features high-performance butterfly valves with a double-offset design. This design allows the valve disc to disengage quickly from the seal when opened, minimizing friction and enhancing sealing performance. Its custom sealing valve seat effectively compensates for wear and reduces friction during sealing, lowering the operating force required and improving control accuracy. These butterfly valves offer a long sealing life and are ideal for handling corrosive gases and liquid media adjustments.

Standard Specification

SIZE RANGE	2” ~ 48”
TEMP. RANGE	-50 ~ 815 °C
DESIGN	API 609 / BS 5155 / ANSI B 16.34
TEST INSPECTION	API 598 / ISO 5208
PRESSURE TEMP' RATINGS	ASME / ANSI B 16.34, 16.24
LEAKAGE	ZERO LEAKAGE
FLUID	WATER / SEA WATER / 02 / C02 / H2 / COG / LDG / BFG / FOG / MIXED GAS / DUST / STEAM / AIR HYDROCHLORIC ACID / SULFURIC ACID NITRIC ACID
FLANGE RATING	ASME B 16.5 / 16.47 CLASS 150LB, 300LB, 600LB (JIS) 10K, 16K, 20K, 30K, 40K BS 4504 DIN PN10, PN16, PN25, PN40, PN63, PN100 AWWA C207 CLASS B & D, E, F

Double Offset Butterfly Valve GDO Series

Description

The GVK HY Series butterfly valve outperforms traditional valves like gate and globe valves in several ways, including being lighter (1/3 to 1/5 the weight), having fewer components, and eliminating the need for flange gaskets (gaskets are required if the range rating exceeds 10kg/cm²). It features a durable, replaceable synthetic rubber seat and GVK's pressure-touch system for low torque and tight shut-off without leakage. This valve is suitable for various applications, including industrial plants, ships, building air conditioning, fire alarm systems, and water treatment.

Double Offset Butterfly Valve HY Series

Standard Specification

SIZE RANGE	1-1/2” ~ 48”
TEMP. RANGE	-50 ~ 80 °C
DESIGN	API 609 / ISO 5752 / MSS SP-67
TEST INSPECTION	API 598 / ISO 5208
PRESSURE TEMP' RATINGS	ASME / ANSI B 16.34, 16.24
LEAKAGE	ZERO LEAKAGE
FLUID	WATER / SEA WATER / 02 / C02 / H2 / COG / LDG / BFG / FOG / MIXED GAS / DUST / STEAM / AIR HYDROCHLORIC ACID / SULFURIC ACID NITRIC ACID
FLANGE RATING	ASME B 16.5 / 16.47 CLASS 150LB (JIS) 10K BS 4504 DIN PN10 AWWA C207 CLASS B

Description

The GVS series VEE-Segment ball valve is a specialized ball valve featuring a half ball with a V-shaped port that has sharp edges. Its operation creates friction between closures, generating a shearing force that varies the flow port's cross-sectional area for precise medium regulation. This valve acts as a regulating valve with angular rotation, offering sealing capabilities similar to standard ball valves, and can be integrated with pneumatic or electric actuators for use in automated control systems in various industries.

VEE Segment Ball Valve GVS Series

Standard Specification

Trim Features	Vee Segmental Half Ball
Body Type	Straight-through Type
Body Size	1“ upto 20”
Pressure Rating	ASME CLASS 150 upto 600
Bonnet Type	Standard, Extension, Long Extension Cryogenic Service
Flow Characteristic	Equal Percentage
Shut-off Class	ASME B16.104 IV (Standard Metal Seat) ASME B16.104 VI (Shut-off Soft Seat)
Pipe Connection Type	Flange Type, Flange Less Wafer Type
Applicable Temperature Range	-100℃ upto +570℃
Actuator Type	Pneumatic Diaphragm Actuator Pneumatic Piston Actuator Electric Actuator

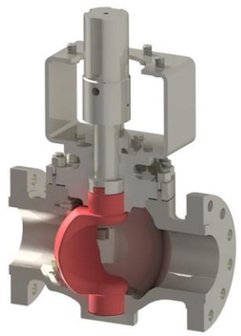
Description

The GVK GER series eccentric ball valve features a robust non-cross-over shaft, allowing for higher flow capacities across all sizes. This design prevents damage from corrosive and heavy slurry processes. Unlike traditional rotary control valves, which reduce flow capacity due to shaft crossover, the GVK GER series ensures higher Cv capacity. The streamlined flow remains unaffected when open, and the double-eccentricity configuration minimizes seat wear by avoiding direct metal contact, resulting in lower maintenance needs.

Standard Specification

Size	1” ~ 16”
Pressure Rating	ASME Class 150 ~ 600
Seat Leakage	Class IV, V, VI(soft seat)
Materials	CS, SS, Hastelloy, Monel, Titanium, Others
Connection	Flangeless (Wafer), Flanged, BW.
Application	General Service Fuel gas & Coal Power Control Heater Drain Low pressure steam Flash tank

Eccentric Ball Valve GER Series



Description

The HPY Series, heavy-duty pneumatic actuator, is designed for large size, high torque rotary valve applications (HPY Series) and linear valve applications (HPL). Safe and reliable operation. Wide range of torque outputs. Available in either double acting or spring return configurations. Versatile modular design. MSS or ISO flange standard. A complete customized solution with pneumatic accessories attached.

Standard Specification

Material	Steel Alloy
Certificates & Approvals	PED, SIL 2, EAC, RINA Type Approval
Torque	495~250,000 Nm
Operating Pressure	Standard: 3-8 bar
Travel Angle	0-90°
Ambient temperature	Standard: -20℃ to +80℃ Low Temperature: -40℃ to +60℃ Ultra Low Temperature: -60℃ to +60℃ High Temperature: -20℃ to +100℃
Manual Override	Option: Jack Screw Override Option: Hydraulic Override

Scotch Yoke Cylinder HPY Series

Description

The pneumatic actuator is re-lubricated and tested for a minimum of one million cycles. Both double-acting and spring return models are available. These actuators comply with international ISO 5211 standards, facilitating straightforward valve mounting and replacement. A visual position indicator will track the open and closed status.

Rack Pinion Actuator RT Series

Standard Specification

Movement	Standard Adjustable 90°±%
Lubrication	All Moving Parts Are Lubricated for Life-Long Cycle
Cycle Life	1,000,000 Operations
Body	Hard Anodized Extruded Aluminum Alloy
Indicator	Open /Close Disc
Springs	High Tensile Spring Sets of Alloy Steel
Piston Shaft	Nickel Plated Alloy Steel Reduces Friction
Piston Guides	Self Lubricating (Polypropylene + GF) Piston Seals Nitrile**
Piston	Die Casted Aluminum Dual Piston

Description

The GVK HPL series Actuator, available in Double Acting or Spring Return (Single Acting) types, is designed for various applications. Made from Carbon Steel, it is suitable for harsh environments like deserts, power plants, and petrochemical facilities. Its compact design allows for easy installation and maintenance, and it features built-in lubricating grease for extended service life. Connection flanges can be customized to meet specific customer requirements.

Pneumatic Piston Actuator HPL Series

Standard Specification

Type	Single & Multi-spring, Double
Size	80 … 1,000mm, Others
Stroke	Upon Customer Requirements
Function	Spring to Open (FO), Spring to Close (FC) Double Acting(IN PLACE)
Air Supply	Max. 0.7 MPa G(7.0 bar G)
Air Connection	1/4 ~ 1/2-inch PT & NPT(F)
Performance	Hysteresis: With Positioner, Less Than 1.0% df Full Stroke
	Linearity: With Positioner, Less Than ±2.0% df Full Stroke
Ambient Temperature	Standard : -10℃ to +70℃ Ultra Low : -60℃ to +60℃ Low : -47℃ to +60℃ High : 0℃ to +100℃

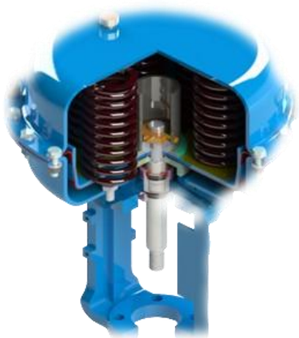
Description

GVK MSD series Linear Motion Actuator is a compact and lightweight Multi-spring Type high-performance/high-power Diaphragm-actuator. This actuator controls the output and reaches the exact set position by balancing the force generated when the Diaphragm receives air pressure and the force of the compressed spring. This MSD series actuator combined with a Control Valve with Linear Motion Stem is suitable for modulating or on-off services.

Standard Specification

Type	Multi-Spring, Single-spring, Long Stroke
Size	220 … 650mm, Others
Stroke	5 … 120 mm
Function	Spring to Open (FO), Spring to Close (FC)
Air Supply	0.4 MPa G(4.0 bar G)
Air Connection	1/4 … 1/2-inch PT & NPT(F)
Performance	Hysteresis: With Positioner, Less Than 1.0% df Full Stroke
	Linearity: With Positioner, Less Than ±2.0% df Full Stroke
Ambient Temperature	Standard : -10℃ to +70℃ Ultra Low : -60℃ to +60℃ Low : -47℃ to +40℃ High : 0℃ to +100℃

Pneumatic Diaphragm Actuator MSD Series



Description

The upper and lower mounting flanges conform to ISO 5211. DG gear box hand automatic clutch switch, applicable for both spring and double acting actuators. EG gear box without switching, special design for single acting actuators, more safety and reliable. DG series of optional automatic pressure relief valve or equalizing valve. Broad Specifications. Wide range of output torque. Compact structure, individual and diversified design. Easy operation. Reasonable structure, low failure rate

Standard Specification

Surface Treatment Optional	Painted or Powder Polyester Painted
Enclosure	Sealed to IP67
Working Temperature	Standard : -20℃ upto +80℃ Lower : -40℃ upto +80℃ High : -15℃ upto +120℃ Ultra Lower : -60℃ upto +80℃

De-Clutchable Gear Box DG, EG Series

Description

Smart control with a visual interface offers diverse functions. It features servo pump control for high quality and low consumption, hydraulic power transport with a high torque range, and overload protection. The compact design requires no extra hydraulic connections and includes a manual hand pump for emergencies. It allows for integrated or split installation, has reliable explosion-proof protection, an electrical isolation interface, multiple power options, and operates within a wide temperature range.

Electro-Hydraulic Actuator AT Series

Standard Specification

Power (Option)	DC : 24V; 48V; 72V AC(50/60Hz); 110VAC/1P; 220VAC/1P 380VAC/3P, 400VAC/3P, 415VAC/3P
Torque Range (Quarter Turn Type)	150Nm~250000Nm
Thrust Range (Linear Type)	16KN~1250KN
Protection Level	IP66; IP67; IP68
Explosion Proof	ExdIIBT4; ExdIICT4
Control Type	On/Off type, Modulating Type
Control Signal	Dry Contact or 24VDC 4-20mA or 20-4mA

Description

GVK's GPA-series pipeline actuators are powered by pipeline gas. Our hydraulic scotch-yoke quarter-turn actuator acts as the valve prime mover, and we specialize in designing gas-hydraulic actuators to various specifications. Each actuator includes a manual override and a separate hydraulic override cylinder for maintaining high-pressure gas and hydraulic fluid separation, allowing for seal replacement without actuator removal and enabling manual operation during disassembly. The gas control manifold features dependable pilot-operated poppet valves for easy remote operation.

Gas Over-oil Hydraulic Actuator GPA Series

Standard Specification

Rotary Quarter-turn	700,000 Nm
Reciprocating (Linear)	3,000,000N (3000kgf)
Standard Operating Temperature	Standard : -30℃ upto 66℃ Optional : -46℃ upto 60℃, Ultra Low Temp. : upto -60℃
Standard Operating Pressure	10 to 105 BarG.
Hazardous Area	Standard : ATEX-II 2G EEx de IIB T4 Option : IEC-Ex de IIB T4, Explosion-proof Class 1.

Description

The bimetallic trap operates based on the temperature differences between saturated steam and condensate. Once the designated temperature is achieved, it facilitates the continuous removal of condensate. ISO 6948 Automatic steam traps Production and performance characteristic tests. The valve body and valve bonnet are all made of forged steel A105. The valve disc and valve seat are made of special stainless steel with heat treatment. The disc hardness is as HRC55, which improves the service life of the trap.

Standard Specification

Nominal Pressure	PN25
Max. Allowable Pressure (Shell)	2.45MPa / 200℃
Max. Allowable Temperature (Shell)	450℃ / 1.03MPa
Factory Steam Action Test	>3times / 1.6MPa
Max. Working Pressure	1.6MPa
Max. Operating Temperature	350℃
Factory Cold Test Pressure	3.8MPa
Air Test	2.0MPa

SHT Series
Thermostatic Steam trap

Description

The valve body and valve bonnet are all made of forged steel. The valve disc and valve seat are aging treatment, they are not denatured and wear-resistant under high temperature and high pressure, which improves the service life of the trap. Stainless steel insulation cover to isolate and less heat loss and eliminate invalid actions. The fluid channel of the internal structure is designed strictly. Built-in filter makes the trap work in a clean environment. The back pressure rate is as high as 80% or more. Exclude low temperature version, it needs to be customized.

Standard Specification

Nominal Pressure	PN25
Max. Allowable Pressure (Shell)	2.45MPa / 200℃
Max. Allowable Temperature (Shell)	450℃ / 1.03MPa
Factory Steam Action Test	>3times / 1.6MPa
Max. Working Pressure	1.6MPa
Max. Operating Temperature	350℃
Factory Cold Test Pressure	3.8MPa
Air Test	2.0MPa

STD Series
Thermodynamic Steam trap

Description

The valve body and cover are constructed from forged or cast steel, while internal components are made of stainless steel with anti-wear features to prolong trap life. It has a U-shaped flow channel for effective water sealing with no steam leakage, a reliable closure system with patented technology, and an anti-water hammer device. A built-in check valve is suitable for superheated steam, and a filter ensures a clean working environment. Different displacement curves can be selected based on pressure differences to enhance output, with a back pressure rate exceeding 90%. After steam cessation, condensed water can be released by opening the screw plug to avoid freezing damage to the trap.

SBT Series
Bucket Steam trap

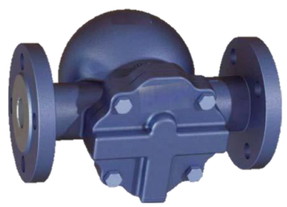
Standard Specification

Nominal Pressure	PN25
Max. Allowable Pressure (Shell)	2.45MPa / 200℃
Max. Allowable Temperature (Shell)	450℃ / 1.03MPa
Factory Steam Action Test	>3times / 1.6MPa
Max. Working Pressure	1.6MPa
Max. Operating Temperature	350℃
Factory Cold Test Pressure	3.8MPa
Air Test	2.0MPa

Description

The valve body and bonnet are made of cast steel/forged steel. All internal parts are made of stainless steel, and the wear allowance has been fully considered in the design of movable parts, which improves the service life of the trap. Special flow channel design to achieve zero water hammer. Patented flexible closing system and micron-level precision closing system double guarantee no steam leakage and long service life. Built-in air exhaust valve to prevent air lock. The independent filter makes the trap work in a clean environment. Choose different displacement curves according to the pressure. The back pressure rate is as high as 95%.

SFT Series
Float Steam trap



Standard Specification

Nominal Pressure	PN25
Max. Allowable Pressure (Shell)	2.45MPa / 200℃
Max. Allowable Temperature (Shell)	450℃ / 1.03MPa
Factory Steam Action Test	>3times / 1.6MPa
Max. Working Pressure	1.6MPa
Max. Operating Temperature	350℃
Factory Cold Test Pressure	3.8MPa
Air Test	2.0MPa

Description

The valve body and bonnet are constructed from cast or forged steel, while all internal components are made of stainless steel, enhancing the trap's lifespan. A unique flow channel design prevents water hammer, and a patented closing system ensures no steam leakage. The pressure equalizing pipe resolves gas blockage, and an independent filter maintains cleanliness. Different displacement curves can be chosen based on pressure, and a blowdown plug at the bottom helps remove any internal water accumulation post-shutdown, preventing the floating ball from freezing.

Standard Specification

Nominal Pressure	PN25
Max. Allowable Pressure (Shell)	2.45MPa / 200℃
Max. Allowable Temperature (Shell)	450℃ / 1.03MPa
Factory Steam Action Test	>3times / 1.6MPa
Max. Working Pressure	1.6MPa
Max. Operating Temperature	350℃
Factory Cold Test Pressure	3.8MPa
Air Test	2.0MPa

AFT Series
Float Air Trap

Description

The VMV condensate recovery pump, also known as a pump trap or mechanical power pump, originated from foreign technology. It operates on the steam trap principle, using steam, air, or other gases as the driving force to move condensate from a low-pressure or vacuum area to a higher or normal pressure zone. This type of pump offers several advantages, including automatic control, resistance to cavitation, simple maintenance, no requirement for electricity, protection against water hammer, large discharge capacity, explosion-proof design, and quiet operation. The delivery head is determined by the pressure of the driving steam or gas, a feature unmatched by other pumps. It is commonly used for transporting condensate in steam systems and for handling liquids with low viscosity and no volatility.

Standard Specification

Nominal Size	DN80 / DN50
Maximum Allowable Pressure	1.6MPa / 204℃
Maximum Working Pressure	1.37MPa / 250℃
Factory Steam Action Test	>3times / 1.6MPa
Max. Working Pressure	1.6MPa
Max. Operating Temperature	350 ℃ => 전무님께 문의하세요
Power Steam Consumption	5kg/T (Condensate)
Power Air Consumption	7.6m³/T (Condensate)

SPT Series
Pump System

Description

Integrated design, solid structure, shorten on-site construction time. Maximize saving installation space and easy maintenance. Integral ball seal face and V-line seal seat. ensure perfect sealing. Adopt stainless steel bellows design, easy to open, Durable, eliminates leaks at packing. When installing, it is recommended that the steam inlet be installed at the top, and the steam trap set at the bottom. It is best to recover the condensed water discharged from the trap group. If it is directly discharged into the atmosphere, it is recommended to install a silencer.

BSPM Series
Manifold

Standard Specification

Nominal Pressure	PN40 / Class300
Max. Allowable Pressure (Shell)	3.03MPa / 200℃
Max. Allowable Temperature (Shell)	450℃ / 2.16MPa
Factory Steam Action Test	
Max. Working Pressure	2.56MPa
Max. Operating Temperature	350℃
Factory Cold Test Pressure	6.0 MPa
Air Seal Test	2.0MPa

Description

The valve incorporates a conical disc with a streamlined geometry that effectively eliminates particulate impurities, ensuring a consistent sealing performance and extended operational lifespan; a dual-sealing mechanism combining a metal bellows and packing to provide redundancy in leak prevention; a patented stem-centering design that minimizes vibration and acoustic noise, thereby enhancing the stability and longevity of the bellows; and an advanced coated sand casting process utilizing binders and additives to produce high-integrity castings with reduced porosity, trachoma, and cracking, resulting in superior mechanical strength and durability."

GBS Series
Bellows Sealed

Standard Specification

Nominal Pressure	PN11, PN25, PN40
Body Size	DN15~DN400
Body / Bonnet / Material	GS –C25 / DI
Material	SS304
Design Standard	EN12516, GB/T12224, GB/T12235
Applicable Fluid	Thermal oil, Stram, Hot and Cold Water, Fatty acids, Ammonia, Natural gas, etc.

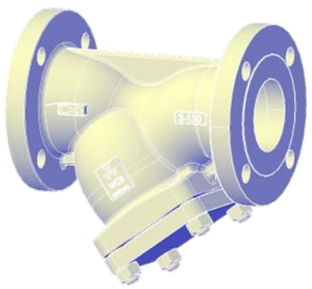
Description

Y-Pattern type with a cast construction body design. Minimal pressure loss. Highly resistant to leakage. Easy to repair. Require less maintenance than others. Exhibits superior durability compared to other types. Bolted Bonnet(BB)

Standard Specification

Features	Exhibits superior durability compared to other types
Body Type	Y-Pattern type with a cast construction body design
Body Size	1/2” upto 36”
Pressure Rating	ASME CLASS 150 upto 600
Bonnet Type	Bolted Cover
Pipe Connection Type	Flange Type, Butt Welding Type
Applicable Temperature Range	-upto +500℃
Material	Carbon Steel, Austenitic Stainless Steels Duplex & Super-Duplex Alloys, 6Mo, Alloy 400, Alloys B & C, Alloy 625 &825
Applicable Fluid	Liquid / Gas / Air

GST Series
Strainer



Description

Effectively dampens vibrations from the connected piping system. Eliminates noise caused by vibrations. Reduces overall operational expenses. Compensates for slight misalignments, minimizing stress levels. Enables operation at high temperatures.

Standard Specification

Features	Effectively dampens vibrations from the connected pi ping system.
Body Type	Wrapped in matte style BRAID for protection.
Body Size	1/2” upto 36”
Pressure Rating	ASME CLASS 150 upto 300
Pipe Connection Type	Flange Type, Thread Type
Applicable Temperature Range	-upto +550℃
Test & Inspection	ASME SEC. VIII
Material	Carbon Steel, Austenitic Stainless Steels Duplex & Super-Duplex Alloys, 6Mo, Alloy 400, Alloys B & C, Alloy 625 &825
Applicable Fluid	Liquid / Gas / Air

GFX Series
Flexible

Description

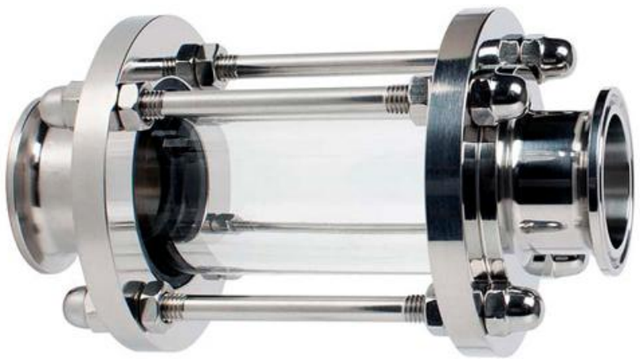
Flowing state of fluid can be checked with the movement of the balls inside the sight glass. Inside glass surface is less liable to water scale since the balls roll and contact the surface. Compact, lightweight and space saving. Can be connected to horizontal/vertical piping (but glass part should face sideways).

KSG Series
Sight Glass

Standard Specification

Features	Inside glass surface is less liable to water scale since the balls roll and contact the surface.
Body Type	SEE THROUGH / BALL / CROSS TYPE Line Sight Glass
Body Size	1/2” upto 8”
Pressure Rating	ASME CLASS 150 upto 300
Pipe Connection Type	Flange Type, Thread Type
Applicable Temperature Range	-upto +400℃
Test & Inspection	ASME SEC. VIII
Material	Carbon Steel, Austenitic Stainless Steels Duplex & Super-Duplex Alloys, 6Mo, Alloy 400, Alloys B & C, Alloy 625 &825
Applicable Fluid	Liquid / Gas / Air

Ball type



Line Sight Glass :

Pressure Safety Valve

Description

The GVK KSF series Spring Loaded Pressure Relief Valve is engineered for safety and high performance in oil and gas applicati ons. Available in conventional and balanced bellows designs, these valves offer various material options and trim designs to suit different processes. They are suitable for vapor, gas, liquid, or steam applications and ensure reliable performance through features l ike a one-piece nozzle and a self-aligning disc.

Standard Specification

Design Ratings	ASME & API Class 150 to 2500 ASME Section III
Size Range	15 – 400mm (1 – 16 inches)
Temperature Range	-196℃ – 538℃ (-320°F – 1000°F)
Material	Carbon Steel, Austenitic & Martensitic Stainless Steels Duplex & Super-Duplex Alloys, 6Mo, Alloy 400, Alloys B & C, Alloy 625 &825

Pressure Safety Valves KSF Series

Series KSF-10

Series KSF-8

Series KSF for Bellows Type

Series KSF for Semi Nozzle Type

Pressure Regulating Valve

Description

The single-port design, large diaphragm area, light-rate springs, and soft disc material contribute to low lock-up pressure. Anti-cavitation or low-noise trims help prevent erosion, vibration, and noise. The SWR-NP series features quick-change trims for easy maintenance and durability. This compact, cost-effective valve is suitable for water and air applications, with a wide adjustment range for cont rolling low flow rates. Various springs allow for pressure adjustments without needing to remove the valve from the piping, and the rubber dis c ensures leak prevention.

Pressure Regulating SWR Series

Standard Specification

Operating mechanism	Direct Acting
Body Material	A216-WCB / A351-CF8 / CF&M / CF319
Size	1/2” ~ 24”
Pressure Rating	ASME CLASS 150 upto 600
Setting	0.1 ~ 100 Bavg
MAX Temperature	80℃ (NBR) / 120℃ (EPDM)
Shut-off Class	EN 12266-1
Pipe Connection Type	NPT / Flanged
Applicable Fluid	Liquid / Gas / Air

SWR-NP 11L/12L Series

SWR-NP 12/22 Series

SWR-NP 22H Series

Pipeline Valves

Description

Full port design. OS & Y (Outside Screw and Yoke). BB (Bolted Bonnet). PSB (Pressure Seal Bonnet). Rising stem and non-rising handwheel. Flexible/Solid wedge. Parallel slide disc type. Flanged or Butt. Welding ends. Fire safe design.

Standard Specification

Pressure Rating	ASME CLASS 150 to CLASS 2500
Service Temperature	Up to +500℃
Available Size	NPS 2” to 64” (DN50 to DN1600)
Design Code	ASME B16.34/API 603/API 600/ISO 10434
Face to Face	ASME B16.10
End Flange	ASME B16.5 & ASME B16.47
BW End	ASME B16.25
Test	API 598/ISO 5208

KSM-10 Series
Wedge Gate Valve

Description

Full port design. BC (Bolted Cover). PSC (Pressure Seal Cover). Swing, Tilting, Piston type. Horizontal or Vertical(upward flow) installation. Flanged or Butt-Welding ends. Fire safe design.

KSM-30 Series
Swing Check Valve

Standard Specification

Pressure Rating	ASME CLASS 150 to CLASS 2500
Service Temperature	Up to +500℃
Available Size	NPS 2” to 64” (DN50 to DN1600)
Design Code	ASME b16.34/api 594/api 6d/bs 1868
Face to Face	ASME b16.10
End Flange	ASME b16.5 & ASME b16.47
BW End	ASME b16.25
Test	ASME b1.20.1

Description

It has a full port design and a straight pattern body to minimize flow loss. It has an OS & Y (External Screw and Yoke) construction. and is available in Bolted Bonnet (Bolted Bonnet) and Pressure Seal Bonnet (PSB) types. The stem is a Rising Stem and is operated by the handwheel. The disk is available in a Plug or Needle type and is supported by a Butt-Welding End connection method. In addition, Fire Safe Design is applied to ensure stable performance in emergency situations.

Standard Specification

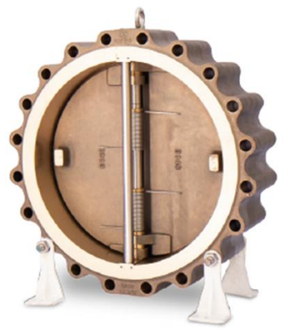
Pressure Rating	ASME CLASS 150 to CLASS 2500
Service Temperature	Up to +500℃
Available Size	NPS 2” to 24” (DN50 to DN600)
Design Code	ASME B16.34/API 623/BS 1873
Face to Face	ASME B16.10
End Flange	ASME B16.5
BW End	ASME B16.25
Test	API 598/ISO 5208

KSM-20 Series
Globe Valve

Description

Wafer, Lug, Double flanged, Butt-Welded, Hub end type. Metal or Soft seat. Retainerless design. Quick acting spring. Horizontal or Vertical(upward flow) installation. Fire safe design

KSM-40 Series
Dual Plate Check Valve



Standard Specification

Pressure Rating	ASME CLASS 150 to CLASS 2500
Service Temperature	Up to +500℃
Available Size	NPS 2” to 64” (DN50 to DN1600)
Design Code	ASME B16.34/API 594/API 6D
Face to Face	API 594/API 6D
End Flange	ASME B16.5 & ASME B16.47
BW End	ASME B16.25
Test	API 598/ISO 5208

Description

Full port or Reduce port design. Two-piece split body. Self-Relief seat. Anti blow-out proof stem. Anti-static device. ISO 5211 Mounting flange. Fire safe design.

Standard Specification

Pressure Rating	ASME CLASS 150 to CLASS 2500
Service Temperature	Up to +500℃
Available Size	NPS 1/2” to 10” (DN15 to DN250)
Design Code	ASME B16.34/BS 5351/API 6D/ ISO 14313/ISO
Face to Face	ASME B16.10
End Flange	ASME B16.5
BW End	ASME B16.25
Test	API 598/BS EN 12266/API 6D/ISO 5208
Fire Safety Test	API 607/ API 6FA

KSM-51 Series Floating Ball Valves

Description

Full port or Reduce port design. Two piece or Three-piece body. Secondary fire safe metal to metal seat. DBB(Double Block and Bleed). Single/Double piston seat. Leakage rate Class V. Anti blow-out proof stem. Anti-static device. ISO 5211 Mounting flange. Fire safe design

Standard Specification

Pressure Rating	ASME CLASS 150 to CLASS 2500
Service Temperature	Up to +500℃
Available Size	NPS 1-1/2” to 48” (DN40 to DN1200)
Design Code	ASME B16.34/API 6D/ISO 14313
Face to Face	ASME B16.10
End Flange	ASME B16.5 & ASME B16.47
BW End	ASME B16.25
Test	API 598/BS EN 12266/API 6D/ISO 5208
Fire Safety Test	API 607/ API 6FA

KSM-52 Series Trunnion Mounted Ball Valves

Description

Full port or Reduce port design. Floating or Trunnion Mounted Ball. DBB(Double Block and Bleed). Cavity pressure self-relief. Single/Double Piston seat. Anti blow-out proof stem. Anti-static device. ISO 5211 Mounting flange. Fire safe design. Locking device, Special packing option, Low emission control, Bonnet extension stem, High temperature service (Metal seat), Emergency sealant injection.

KSM-53 Series Top Entry Ball Valves

Standard Specification

Pressure Rating	ASME CLASS 150 to CLASS 2500
Service Temperature	Up to +500℃
Available Size	NPS 1/2” to 10” (DN15 to DN250)
Design Code	ASME B16.34/API 6D/ISO 14313/ISO 17292
Face to Face	Manufacture Standard
End Flange	ASME B16.5
BW End	ASME B16.25
Test	ASME B1.20.1
Fire Safety Test	API 598/BS EN 12266/API 6D

Description

Full port or Reduce port design. Three-piece split body. Trunnion Mounted Ball. Anti blow-out proof stem. Anti-static device. ISO 5211 Mounting flange. Fire safe design.

KSM-54 Series Double Block & Bleed Ball Valves

Standard Specification

Pressure Rating	ASME CLASS 150 to CLASS 2500
Service Temperature	Up to +500℃
Available Size	NPS 1/2” to 12” (DN15 to DN300)
Design Code	ASME B16.34/API 6D/ISO 14313/ISO 17292
Face to Face	Manufacture Standard
End Flange	ASME B16.5
BW End	ASME B16.25
Test	API 598/BS EN 12266/API 6D
Fire Safety Test	API 607/ API 6FA

Pipeline Valves

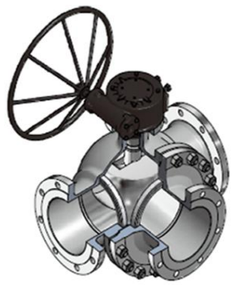
Description

Full port or Reduce port design. Two-piece split body. Floating or Trunnion Mounted Ball. L-Port or T-Port. Anti blow-out proof stem. Anti-static device. ISO 5211 Mounting flange. Fire safe design.

Standard Specification

Pressure Rating	ASME CLASS 150 to CLASS 600
Service Temperature	Up to +500℃
Available Size	NPS 1/2” to 8” (DN15 to DN200)
Design Code	ASME B16.34/API 6D/ISO 14313/ISO 17292
Face to Face	Manufacture Standard
End Flange	ASME B16.5
BW End	ASME B16.25
Test	API 598/BS EN 12266/API 6D
Fire Safety Test	API 607/ API 6FA

KSM-55 Series
Three-Way Ball Valves



Description

Concentric. Double eccentric. Triple eccentric. Zero leakage. Wafer, Semi-lug, Lug and Double flanged. Fire safe design. MESC-TAT, UL/FM, Locking device, Special packing option, Low emission control, Stem extension, High performance selection.

Standard Specification

Pressure Rating	ASME CLASS 150 to CLASS 600
Service Temperature	Up to +500℃
Available Size	NPS 2” to 100” (DN50 to DN2500)
Design Code	ASME B16.34/API 609
Face to Face	API 609
End Flange	ASME B16.5 & ASME B16.47
BW End	ASME B16.25
Test	API 598/ISO 5208

KSM-60 Series
Butterfly Valves

Description

Long extended bonnet. Low fugitive emission packing. Fire safe design. Locking device. Special packing option.

KSM-70 Series
Cryogenic Valves

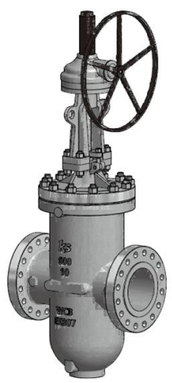
Standard Specification

Pressure Rating	ASME CLASS 150 to CLASS 2500
Service Temperature	Down to -196℃
Available Size	NPS 2” to 30” (DN50 to DN750)
Design Code	BS 6364/MSS SP-134
Face to Face	ASME B16.10
End Flange	ASME B16.5 & ASME B16.47
BW End	ASME B16.25
Test	API 598/ISO 5208
Available Products	Gate, Globe, Check, Ball Valves

Description

Full port design, OS & Y (Outside Screw and Yoke). BB (Bolted Bonnet). Rising stem and non-rising handwheel. Expanding gate design. Secondary sealant injection at seats and stem. DBB(Double Block and Bleed). Cavity relief system. Flanged or Butt-Welding ends. Fire safe design.

KSM-81 Series
Expanding Gate Valves



Standard Specification

Pressure Rating	ASME CLASS 150 to CLASS 1500
Service Temperature	Up to +500℃
Available Size	NPS 2” to 36” (DN50 to DN900)
Design Code	API 6D
Face to Face	ASME B16.10
End Flange	ASME B16.5 & ASME B16.47
BW End	ASME B16.25
Test	API 6D

Pipeline Valves

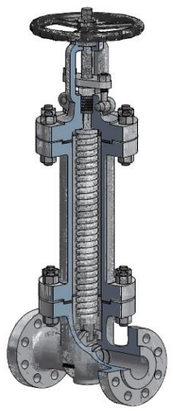
Description

Long life cycle multi-ply bellows. Bellows are available in Stainless steel, Inconel, Hastelloy-C and Monel. Two secondary stem seals. Superior seat surfaces. Locking device. Special packing option. Low emission control. Bonnet extension stem.

Standard Specification

Pressure Rating	ASME CLASS 150 to CLASS 1500
Service Temperature	Up to +500℃
Available Size	NPS 2” to 36” (DN50 to DN900)
Design Code	ASME B16.34/MSS SP-117
Face to Face	ASME B16.10
End Flange	ASME B16.5 & ASME B16.47
BW End	ASME B16.25
Test	API 598/ISO 5208

KSM-82 Series
Expanding Gate Valves



Description

The GVK GRC/RM/RX-series offers economical protection for centrifugal pumps against overheating and instability caused by low flow. It ensures a minimum flow for stable operation by providing recirculation flow to the pump's inlet. Recirculation is not needed under full main flow demand but becomes essential as the demand decreases. The RC/RM-series recirculates only the necessary flow to maintain minimum flow through the pump.

Standard Specification

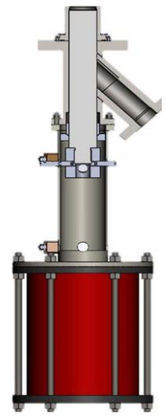
Pressure Rating	ANSI CL 150, 300, 600, 900, 1500, 2500
Temperature Limitations	500deg.F (260deg.C)
Size Range	1”(25A) ~ 12”(300A) Main Discharge Feed. 1”(25A) ~ 3”(80A) Recirculation Discharge.
Materials	Carbon Steel, Austenitic & Martensitic Stainless Steels Duplex & Super-duplex Alloys 6Mo, Alloy 400, Alloys B & C, Alloy 625 &825

Auto-Recirculation Valve
GRC Series

Description

The GVK GRSseries RAM Valve allows for on-site servicing without removing internal components, thanks to its non-clogging design. Its straightforward construction enables easy disassembly and reassembly when installed vertically. For horizontal or inclined stems, standard servicing procedures should be followed. Sealing members ensure a fluid-tight seal with the RAM piston, and the design minimizes breakdowns, making it uniquely serviceable.

Flush RAM Bottom Valve
GRS Series



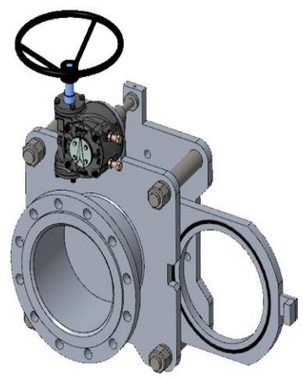
Standard Specification

Trim Features	Sleeve Guided High Performance RAM SEAL
Body Type	“Y” Type
Body Size	All Size Development
Pressure Rating	ASME CLASS 150 upto 1500
Bonnet Type	Standard Type, Heat Dissipation Type, Bellows Seal
Flow Characteristic	Quick Open
Shut-off Class	ASME B16.104 IV (Standard Metal Seat) ASME B16.104 VI (Shut-off Soft Seat)
Pipe Connection Type	Flange Type
Applicable Temperature Range	-47℃ upto +230℃
Actuator Type	Pneumatic Diaphragm Actuator Pneumatic Piston Actuator Electric Actuator

Description

The sheet is pressurized using specially heat-treated guide pins and balls. This method is primarily suited for small pipe diameters and is noted for its compactness and light weight compared to other types. The seats are pressurized via gears or motors, while the blinds are operated manually. Due to its features, it is mainly utilized in low-pressure areas with easy access for personnel.

Goggle Valve
BALLSLIDE TYPE
BS Series



Standard Specification

Pressure Rating	ANSI/ASME CL150 ~ CL300 / RF KS/JIS 5K ~ 20K / RF EN PN6~PN20 / RF
Allowable Temperature Range	-20 DEG.C ~ 200 DEG.C (Depending on the Sealing Material)
Size Range	ND 2”(50A)~ ND 40”(1000A)
Materials	Body : Carbon Steel, Stainless Steel, etc. Blind : Stainless Steel, etc. Seat, Gasket : NBR, EPDM, Viton, Graphite, etc.
Operator	Manual Worm Gear, Motor, Hydraulic, Air Cylinder
Applicable Fluid	GAS (COG, BFG, LDG, FOG), DUST, steam, AIR , O2, H2, N2, OIL, TAIL GAS ETC.

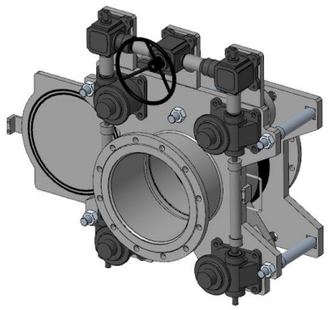
Description

Pressurize the seat with a screw jack connected to the miter gear/bevel gear. It is applicable to larger sizes including ball joint type. The pressurization of the sheet is done by gears or motors, and the opening and closing of the blinds is done manually or automatically by motors, cylinders, ETC. the automatic type can be installed in areas that are inaccessible to personnel or toxic gas lines.

Standard Specification

Pressure Rating	ANSI/ASME CL150 ~ CL300 / RF KS/JIS 5K ~ 20K / RF EN PN6~PN20 / RF
Allowable Temperature Range	-20 DEG.C ~ 250 DEG.C (Depending on the Sealing Material / Option for High-temp)
Size Range	ND 16”(400A) ~ ND 80”(2000A)
Materials	Body : Carbon Steel, Stainless Steel, etc. Blind : Stainless Steel, etc. Seat, Gasket : NBR, EPDM, Viton, Graphite, etc.
Operator	Clamping/Un-Clamping : Manual Worm Gear, Motor, Mitter Gear Open/Close : Manual, Motor
Applicable Fluid	GAS (COG, BFG, LDG, FOG), Dust, STEAM, Air , O2, H2, N2, Oil, Tail etc.

Goggle Valve
SCREW JACK TYPE
SJ Series



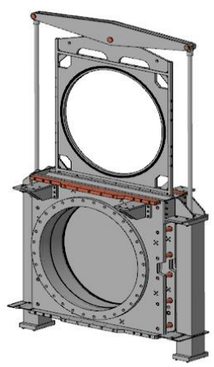
Description

The seat is pressurized by a hydraulic cylinder. It is applicable to larger sizes including ball joint type. Hydraulic pressure is used to pressurize the sheet, and the blinds can be opened and closed manually or automatically using motors, cylinders ETC. the automatic type can be installed in areas that are inaccessible to personnel or toxic gas lines and can be for high-pressure lines.

Standard Specification

Pressure Rating	ANSI/ASME CL150 ~ CL900 / RF KS/JIS 5K ~ 100K / RF EN PN6~PN100 / RF
Allowable Temperature Range	-20 DEG.C ~ 250 DEG.C (Depending on the Sealing Material / Option for High-temp)
Size Range	ND 16”(400A)~ ND 120”(3000A)
Materials	Body : Carbon Steel, Stainless Steel, etc. Blind : Stainless Steel, etc. Seat, Gasket : NBR, EPDM, Viton, Graphite, etc.
Operator	Clamping/Un-Clamping : Hydraulic Cylinder Open/Close : Manual, Motor, Pneumatic Cylinder
Applicable Fluid	GAS (COG, BFG, LDG, FOG), Dust, STEAM, Air , O2, H2, N2, OIL, Tail Gas etc.

Goggle Valve
HYDRAULIC SLIDE TYPE
HS Series



Description

Pressurize the seat section using a rack and pinion mechanism. This method is suitable for larger sizes, including ball joint types. Gears and motors facilitate the pressurization of the sheet, enabling manual or automatic operation of the blinds through motors and cylinders. The automatic version can be installed in areas that are hard to access or where toxic gases are present, and it is compatible with high-temperature and high-pressure lines.

Goggle Valve
RACK&PINION TYPE
RP Series

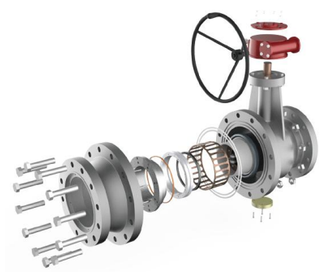
Standard Specification

Pressure Rating	ANSI/ASME CL150 ~ CL900 / RF KS/JIS 5K ~ 100K / RF EN PN6~PN100 / RF
Allowable Temperature Range	-20 DEG.C ~ 650 DEG.C (Depending on the Sealing Material)
Size Range	ND 2”(50A) ~ ND 48”(1200A)
Materials	Body : Carbon Steel, Stainless Steel, etc. Blind : Stainless Steel, etc. Seat, Gasket : NBR, EPDM, Viton, Graphite, etc.
Operator	Clamping/Un-Clamping : Rack & Pinion Open/Close : Manual, Motor, Pneumatic Cylinder
Applicable Fluid	GAS (COG, BFG, LDG, FOG), DUST, STEAM, AIR , O2, H2, N2, OIL, TAIL GAS ETC.

Description

Regulates the flow of high-pressure fluid Installable at pipelines with large pressure differences A flow control valve appropriate for reservoir dam hydroelectric power plant Excellent for circulating water line of chemical/steel plant Recommended for water supply/treatment line at wastewater treatment facility.

Plunger Valve
PGR Series



Standard Specification

Pressure Rating	ANSI/ASME CL150 ~ CL900 KS/JIS 5K ~ 63K DNI PN6~PN40
Allowable Temperature Range	-20 DEG.C ~ 120 DEG.C
Size Range	2”(50A) ~ 40”(1000A)
Materials	Body : Carbon Steel, Stainless Steel, etc. Blind : Stainless Steel, etc. Seat, Gasket : NBR, EPDM, Viton, Graphite, etc.
Leakage	ANSI FCI 70-2

Description

ASD-5000 is the smart valve positioner which offers incomparable and stable control processing performance and advanced self-diagnostics for control valves. ASD-5000 has an outstanding durability, and it has an improved control performance thanks to non-contact sensors with accuracy. ASD-5000 has a wide and multi-lingual display that provides diverse information and a current control situation with graph.

Standard Specification

Hart Communication	HART (Ver. 7), FDI Certified by FieldComm Group DTM Certified by FDT Group
Non- Contract Position Sensor	Magnetic Position Sensor (MPS, Non-Contact) Resistant to Vibration Excellent Temperature Characteristics
Improved Durability	Vibration and Impact Tolerant Resistant to Dirty Air and Humidity
Diagnostics	Self-Diagnostics Advanced Diagnostics with 4× Pressure Sensor Valve Signature, Valve Step Response Partial Stroke Test (PST)
Options	Output Position Transmitter (4–20 mA) 2 × 24VDC Software Limit Switch or 2 × SPDT Mechanical Limit Switch Position Indication Beacon (Dome) Stainless Steel Body (316SS) Intrinsically Safe Ex ia IIC Gb & Ex ia IIIC Db HART Communication (Ver. 7) Fail-Freeze Function (Stay at Last Position)

PA Positioner
ASD-5000 Series(Ex i)

Description

ASD-7000 is the smart valve positioner which offers incomparable and stable control processing performance and advanced self-diagnostics for control valves. ASD-7000 has an outstanding durability, and it has an improved control performance thanks to non-contact sensors with accuracy. ASD-7000 has a wide and multi-lingual display that provides diverse information and a current control situation with graph.

Standard Specification

Hart Communication	HART (Ver. 7), FDI Certified by FieldComm Group DTM Certified by FDT Group
Non- Contract position sensor	Magnetic Position Sensor (MPS, Non-Contact) Resistant to Vibration Excellent Temperature Characteristics
Improved Durability	Vibration and Impact Tolerant Resistant to Dirty Air and Humidity
Diagnostics	Self-Diagnostics Advanced Diagnostics with 4× Pressure Sensor Valve Signature, Valve Step Response Partial Stroke Test (PST)
Options	Output Position Transmitter (4–20 mA) 2 × 24VDC Software Limit Switch or 2 × SPDT Mechanical Limit Switch Position Indication Beacon (Dome) Stainless Steel Body (316SS) Explosion Proof Ex db IIC T6/T5 Gb HART Communication (Ver. 7)

PA Positioner
ASD-7000 Series(Ex d)

Description

Ultra low air consumption With the most advanced electrical conversion technology, made in Germany Up to 2 billion times of trouble-free switch, air consumption ≤36L / h. Excellent durability, Reliability and dynamics. Digital module design New version Piezo Valve from Germany Integrated module, easy and reliable Fail Last Position Save Cost. It can realize valve position self-protection output or switch value interlock switching without solenoid valve and lock valve, which can avoid failure of regulating valve action and endanger production.

Smart Positioner
GVP 1000 Series

Standard Specification

Hart Communication	HART (Ver. 7), FDI Certified by FieldComm Group DTM Certified by FDT Group
Non- Contract position sensor	Magnetic Position Sensor (MPS, Non-Contact) Resistant to Vibration Excellent Temperature Characteristics
Improved Durability	Vibration and Impact Tolerant Resistant to Dirty Air and Humidity
Diagnostics	Self-Diagnostics Advanced Diagnostics with 4× Pressure Sensor Valve Signature, Valve Step Response Partial Stroke Test (PST)
Options	Output Position Transmitter (4–20 mA) 2 × 24VDC Software Limit Switch or 2 × SPDT Mechanical Limit Switch Position Indication Beacon (Dome) Stainless Steel Body (316SS) Intrinsically Safe Ex ia IIC Gb & Ex ia IIIC Db HART Communication (Ver. 7) Fail-Freeze Function (Stay at Last Position)

Description

The SS2 Series (Ex ia) is a compact and highly versatile smart positioner designed for efficient and precise valve control. It features easy and fast auto-calibration with automatic detection of RA (reverse acting) or DA (direct acting), even with incorrect air connections. It supports both single and double acting actuators without the need for special adjustments.

Smart Positioner
SS2 Series(Ex ia)

Standard Specification

Communication	Without	HART	Profibus - PA	Foundation Fieldbus
Input Signal / Bus voltage	4 - 20 mA @ 24 VDC		9 - 32 VDC	
Min. / Max. Current	3.6 mA / 50 mA		-	
Current Consumption	-		15 mA	16 mA
Voltage Drop (Resistance)	8.7 VDC (435Ω)	9.4 VDC (470Ω)	-	
Air Supply Pressure	1.4 - 7.0 bar (20 - 100 psi), filtered, compressed dry and non-oiled to meet Class 3 of ISO 8573-1			
Characteristic	Linearity < ±0.3% F.S Sensitivity < 0.2% F.S		Hysteresis < 0.2% F.S Repeatability < 0.2% F.S	
Performance Characteristic	Linear, EQ %, Quick Open, User Set (17 Points)			
Scan Time	2 ms			
Operating Temperature	-30 ~ +80℃ (-22 ~ +176℉) **			
Protection Class	IP66, Intrinsically Safe (IECEx / ATEX / KC Ex ia IIC T6/T5)			
Body Material	Aluminum Die-Cast / Powder-Painted			

Description

Snap Acting Relay is a device that moves the control valve to the desired position in case of an emergency by switching or locking OUT port of pneumatic pipe when the signal pressure is lower than the set pressure

Standard Specification

Model		TS250	TS260	TS255	TS265
Signal Pressure		0.14 ~ 0.7MPa			
Max Supply Pressure		1MPa			
Max Signal Pressure		0.7MPa			
Differential Pressure		Below 0.01MPa			
Operating Temp.		-20℃ ~ 70℃ (Standard Type)			
Flow Capacity(CV)		0.9	1.8	0.9	1.8
Signal Connection		NPT(PT) 1/4	NPT(PT) 3/8	NPT 1/4	NPT 3/8
In/Out Connection		NPT(PT) 1/4		NPT 1/4	
Material		Aluminum Die Cast		Stainless Steel 316	
Weight	Single Type	0.7kg	1.2kg	1.7kg	3.3kg
	Double Type	1.3kg	2.1kg	3.1kg	6.0kg

Pneumatic Accessories TS200 Series Snap Acting Relay

TS250S TS250D TS260S TS260D

TS255S TS255D TS265S TS265D

Description

The pneumatic Lock Up Valve TS200 series shuts off the signal pressure line either when the air supply falls below an adjusted value or upon complete air supply failure. This causes the actuator to remain in its last position.

Standard Specification

Model		TS200	TS210	TS205	TS215
Signal pressure		0.14 ~ 0.7MPa			
Max supply pressure		1MPa			
Max lock up pressure		0.7MPa			
Differential pressure		Below 0.01MPa			
Operating Temp.		-20℃ ~ 70℃ (Standard type)			
Flow capacity(CV)		0.9	1.8	0.9	1.8
In/Out connection		NPT(PT) 1/4	NPT(PT) 3/8	NPT 1/4	NPT 3/8
Signal connection		NPT(PT) 1/4		NPT 1/4	
Material		Aluminum die cast		Stainless steel 316	
Weight	Single type	0.5kg	1.2kg	1.2kg	3.3kg
	Double type	0.6kg	2.1kg	1.6kg	6.0kg

Pneumatic Accessories TS200 Series Lock-up Valve

TS200S TS200D TS210S TS210D

TS205S TS205D TS215S TS215D

Description

TS500 Series is 2 wire type transmitter which transmits 4~20mA DC signal according to changes in valve or damper position

Pneumatic Accessories TS500 Series Transmitter

Standard Specification

Connection type	2 Wire
Supply voltage	9 ~ 28V DC
Output signal	4 ~ 20mA
Ingress protection	IP67
Conduit entry	2 × NPT 1/2, G1/2, M20
Ambient Temp.	-40℃ ~ 85℃
Linearity	±1% F.S.
Hysteresis	±0.2% F.S.
Sensitivity	±0.2% F.S.
Material	Aluminum die cast
Painting	Polyester powder coating
Weight	0.6kg

Description

TS500 Series is 2 wire type transmitter which transmits 4 ~ 20 mA DC signal according to changes in valve or damper position

Pneumatic Accessories TS510 Series Transmitter(Exd)

TS510 TS515

Standard Specification

Model	TS510	TS515
Connection	2 Wire	
Supply voltage	9~28V DC	
Output signal	4~20mA DC	
Explosion proof	Ex db IIC T5/T6 Gb Ex tb IIIC T85℃/T100℃ Db	
Ingress protection	IP67	
Conduit entry	2 x NPT1/2, NPT3/4, M20, M25	2 x NPT3/4
Ambient Temp.	-40℃~80℃(T5)/-40℃~70℃(T6)	
Linearity	±1% F.S.	
Hysteresis	±0.2% F.S.	
Sensitivity	±0.2% F.S.	
Material	Aluminum die cast	Stainless steel 316
Painting	Polyester powder coating	-
Weight	1.4kg	3.3kg

Description

Limit switch box is a device which notifies the central control room or controller when the valve reaches the set position.

Standard Specification

Model		TS410M	TS415M
Switch type		Mechanical switch 2xSPDT	Inductive proximity sensor
		KW3A-16Z3-A100 (Dongnan)	PSN17-5DNU (Autonics)
Switch rating	AC	16A, 125/250V	-
	DC	30V, 10A	10~30V
Ingress protection		IP67	
Conduit entry		2 x NPT1/2, G(PF)1/2, M20	
Ambient Temp.		-20℃~70℃(Standard type)	
Terminal		8 Points	
Material		Aluminum die cast	
Painting		Polyester powder coating	
Weight		0.7kg	

Pneumatic Accessories
TS410 Series Limit Switch

Description

Limit switch box is a device which notifies the central control room or controller when the valve reaches the set position.

Standard Specification

Model		TS410M	TS415M	TS410P	TS415P
Switch type		Mechanical switch 2xSPDT		Inductive proximity sensor	
		KW3A-16Z3-A100 (Dongnan)		PSN17-5DNU (Autonics)	
Switch rating	AC	16A, 125/250V		-	
	DC	30V, 10A		10~30V	
Explosion proof		Ex db IIC T5/T6 Gb Ex tb IIIC T100℃/T85℃ Db			
Ingress protection		IP67			
Conduit entry		2 x NPT1/2, NPT3/4, M20, M25			
Ambient Temp.		-40℃~80℃(T5)/-40℃~70℃(T6)			
Terminal		8 Points			
Painting		Polyester powder coating	-	Polyester powder coating	-
Material		Aluminum die cast	STS 316	Aluminum die cast	STS 316
Weight		1.3kg	3.2kg	1.3kg	3.2kg

Pneumatic Accessories
TS410 Seriezs
Limit Switch(Exd)

TS410

TS415

Description

Combines the components needed for a cost-effective Android based HART Communicator using your own Android device in an easy to order bundle. For use with Android devices with Bluetooth Low Energy

Pneumatic Accessories
TS500 Series Transmitter

HART AND FF EX KITS

Standard Specification

Emerson Trex, 475 and 375 Replacement Communicators

Since the Emerson 475 Field Communicator is no longer manufactured, you may belooking for an advanced communication alternative to the Trex, but with affordablepricing. We produce the highest-quality HART and FF communication products on the market. Our full range of HART and FF communicators can conv eniently serve as Emerson 475 replacement communicator products.

ProComSol Products Replace the Emerson Trex, 475, and 375 HART Communicators for a Fraction of the Price. Direct Replacement Our HART and FF communicators are often used as Emerson 475 or Emerson 375 replacement communicators, as those units are no longer available. Our products are lower cost alternatives to the Emerson Trex device. Kits for Hazardous areas are also available. Alternatives Exist

option

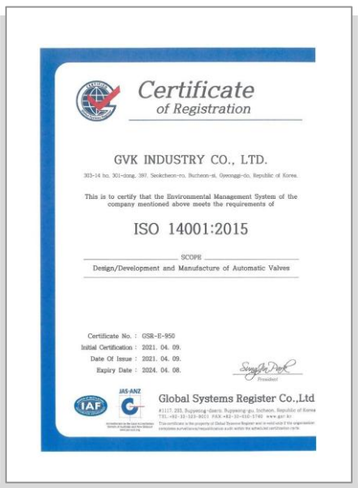
Combines the components needed for a cost-effective Android-based HART communicator using your own Android device in an easy-to-order bundle. For use with Android devices with Bluetooth Low Energy.

Key Features
Special bundle pricing
Use your own Android device
Complete HART communicator
1-year warranty

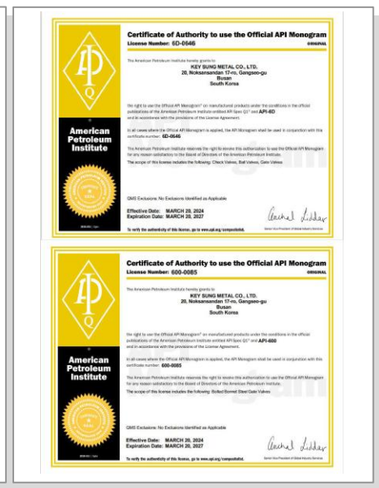
What's Included
DevComDroid HART Communicator App
HM-BLE Bluetooth Low Energy HART Modem
Complete Device Descriptor (DD) Library
One-Year Update Subscription (SUB-1YR)

CERTIFICATE

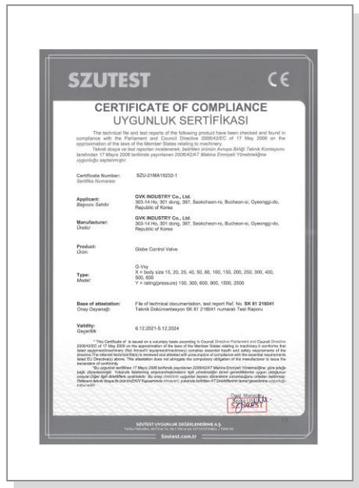
ISO 9001:2015 | ISO 14001:2015 | ISO 45001:2018

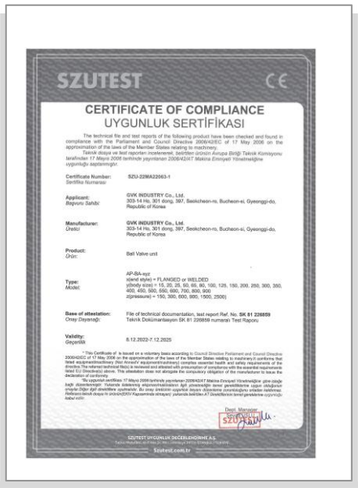


ASME U, PP Stemp | EAC : RUSSIA TRCU | API 6D / 600 By KSM



CE: GLOBE CONTROL VALVE | CE : BALL VALVE | Research Institute





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