Flowbetter®

CONTROL VALVES

Providing World Class Control Valve Technology & Services

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Flowbetter®

CONTROL VALVES

General Situation

FLOWBETTER Company was established in 2010, and is a wholly-owned subsidiary of Best Energy Equipment (Tianjin) Co., Ltd., located in Jingbin Industrial Park, Wuqing District, Tianjin, China. Mainly committed to the research and development, manufacturing, and service of pressure and flow control valves for long-distance natural gas pipelines, gas fields, gas storage facilities, and city gas stations.

We have obtained the certificate of ISO9001 / 14001 / 45001 quality, environment, and occupational health management system issued by TUV in Germany. At the same time, products such as safety shut-off valves, pressure regulator, axial flow regulator (electric/pneumatic), and anti-surge valves have all passed the German DVGW certificate, EU CE certificate, and SIL2/3 level functional safety certificate issued by German TUV. The company can also provide special valves such as pipeline blind plate valves.

We ensure that starting from the initial working conditions and process requirements, we analyze, select, calculate, design, and provide the best solution and timely delivery time to meet any of your strict requirements.

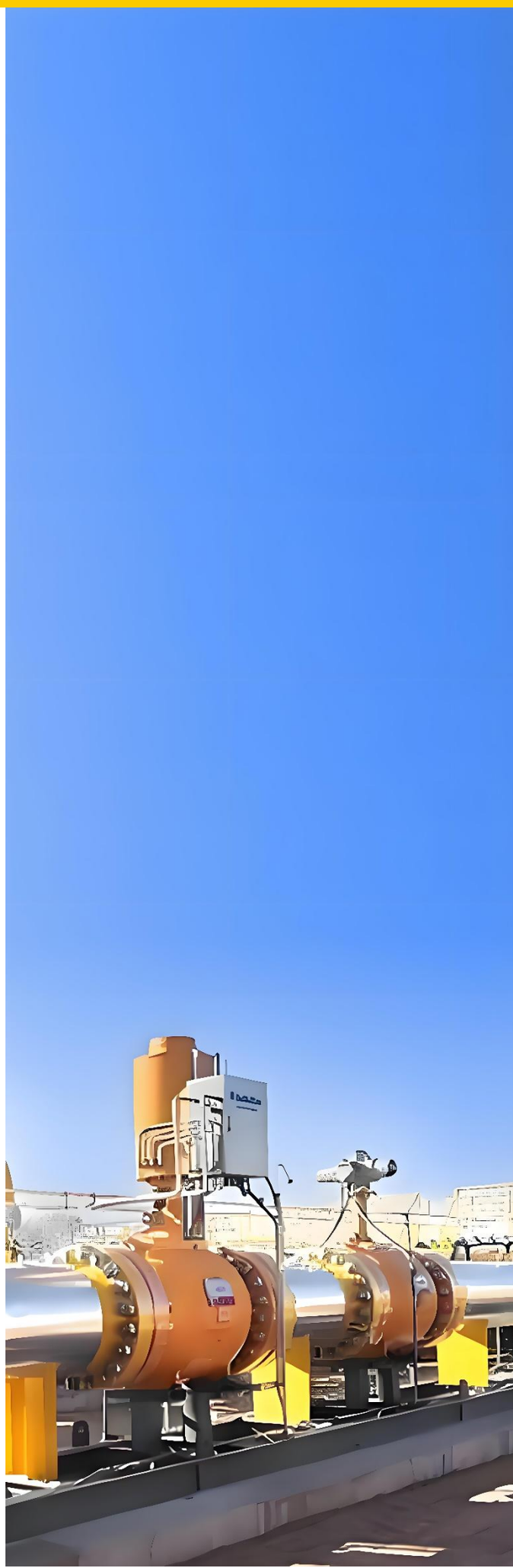
During the installation and testing phase, we provide technical support such as valve training, application, and driving guidance to help you achieve the best functionality of the product.

Application and execution capabilities

Whether it's a valve with special requirements, such as large size, high pressure, special material, or a large-scale project with hundreds of units, Flowbetter has good experience and the ability to meet your technical and delivery requirements.

Flowbetter follows formal and clear steps in document management to ensure timely submission of all documents.

Our main customers include CNPC and PipeChina, and our products are mainly used in the West-East Gas Pipeline and the China-Russia East Pipeline.



Manufacturing Capability

Flowbetter's manufacturing capabilities include the application of various materials and special designs for harsh operating conditions, the manufacture of axial flow control valves with pressure ratings ranging from ASME CL150 to CL2500, size ranges from 2 "to 40", and GLOBE through valves with sizes ranging from 1 "to 20".

We utilize supplier partnerships to complete the production of castings and machining of valve components. This makes the workflow of the processing workshop more flexible and greatly reduces the production delivery cycle. Flowbetter has a proven track record in high quality and timely delivery.

So we constantly update and upgrade our processing equipment, testing equipment, and specialized fixtures to ensure the high quality requirements of various types of Flowbetter valves, while greatly improving delivery time.

We adhere to the principle of “people oriented, customer first”. All along, our team has won widespread praise from users with high enthusiasm, high quality, and high-tech services.

Assembly and testing

- Hydraulic testing
- Gas external sealing test
- Valve seat leakage test
- Final factory inspection
  (debugging functional testing, paint)
- Physical and chemical testing of materials
- Nondestructive testing (RT, PT, MT, UT, etc.)

Quality Control

ISO 9001
Quality Management System Certificate

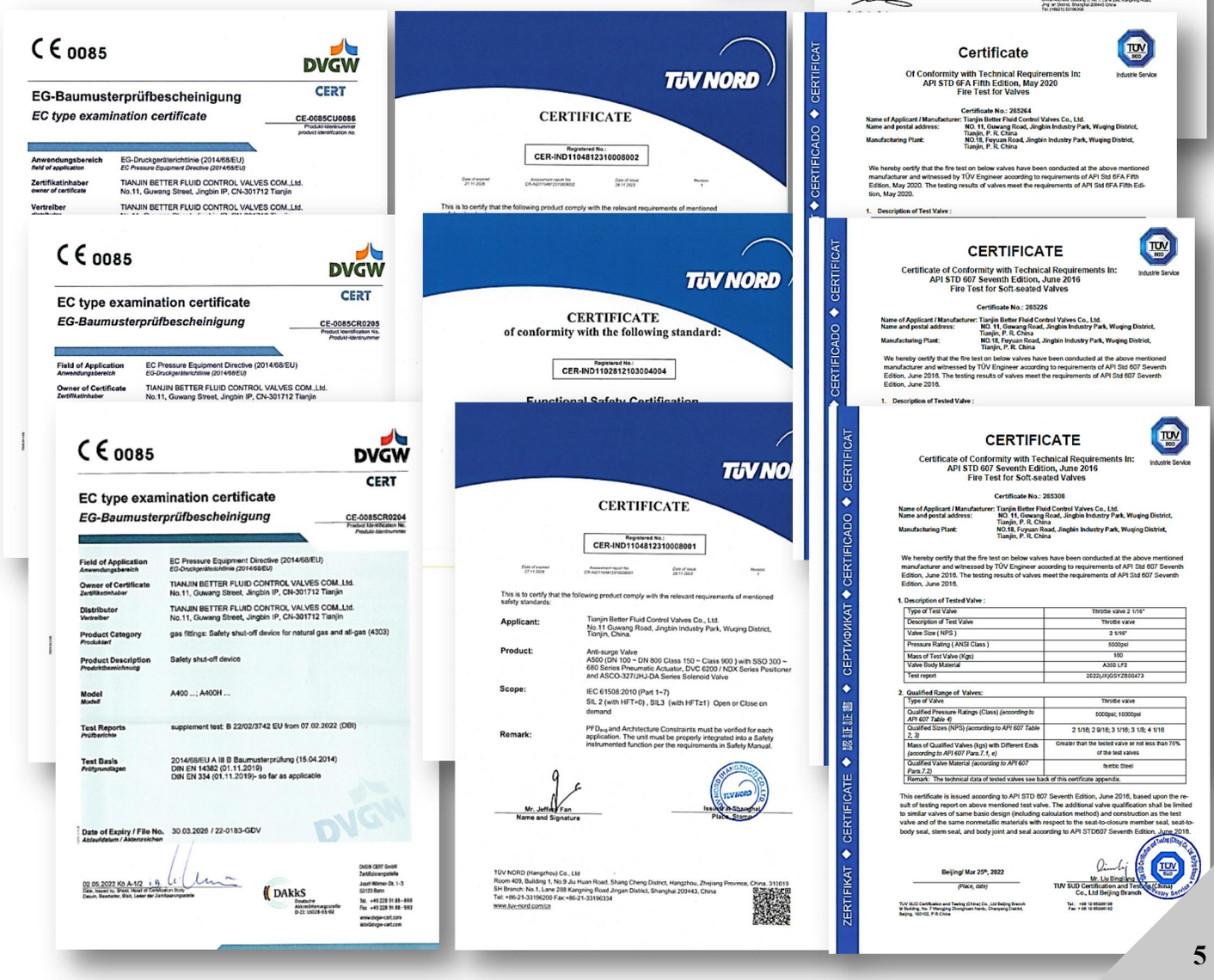
ISO14001
Environmental Management System Certificate

ISO45001
Occupational Health and Safety Certificate

CE
Product certificate

SIL 3
Functional Safety Certificate

API 6FA/607
Fire Protection Structure Certificate



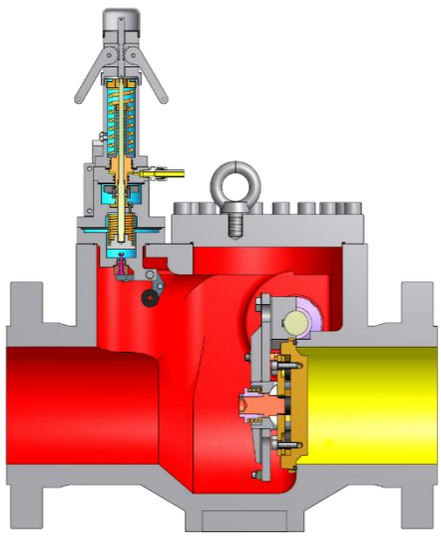
Product Range

Axial Type

Globe Type

Others

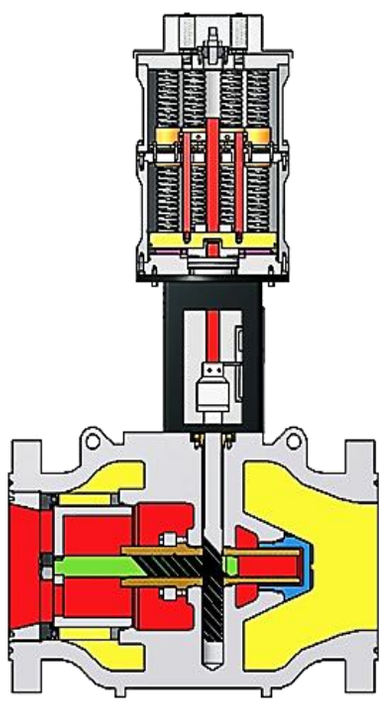
SSV-A400 Series Safety Shut-off Valve



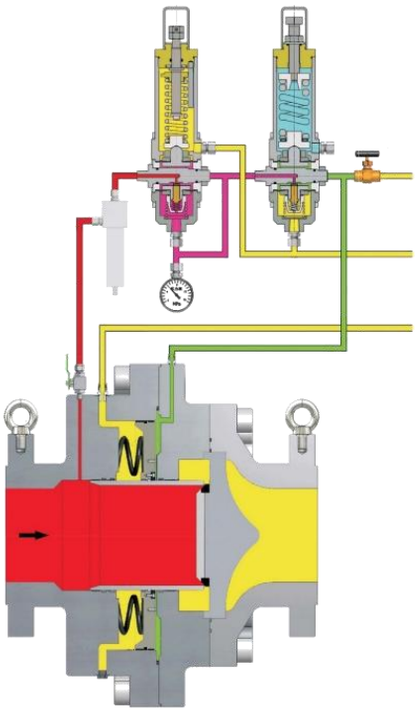
Application	It is an automatic shut-off appliance, suitable for installation as safety device in regulating stations and gas distribution piping	
Execution Standards	EN 14382	
Nominal Size	DN25 ～ DN400 (NPS 1” ～ NPS 16”)	
Nominal Pressure	Class150 ～ Class900 (PN16 ～ PN150)	
Connection	Flange	
Ambient Temperature	-29℃～+70℃ -46℃～+70℃ -59℃～+70℃ -73℃～+70℃	
Over-pressure Cutting Accuracy	Upto±1% (AG1)	
Response Time	≤1s	
Optional Configuration	Under-pressure monitoring Remote control Position transmitter	
Materials	Body Pilot Trim Spring Seal	Cast steel LCC, etc Cast steel, forged steel Stainless steel, steel, copper X750,316,etc RPTFE、NBR、HNBR,etc
Applicable medium	Non-corrosive gases such as natural gas etc.	

SSV-A400H Series Pneumatic Safety Shut-off Valve

Application	It is an automatic shut-off appliance suitable for installation as safety device in regulating stations and gas distribution piping	
Execution Standards	EN 14382	
Nominal Size	DN100 ～ DN800 (NPS 4" ～ NPS 32")	
Nominal Pressure	Class150 ～ Class2500 (PN16 ～ PN420)	
Connection	Flange	
Ambient Temperature	-29℃～+70℃ -46℃～+70℃ -59℃～+70℃ -73℃～+70℃	
Over-pressure Cutting Accuracy	Upto±1% (AG1)	
Response Time	≤2s	
Optional Configuration	Under-pressure monitoring Remote control Position transmitter	
Materials	Body Pilot Stem, Shaft Trim Actuator Spring Seal	Cast steel LCC, etc Cast steel, forged steel CrMo Alloy Steel Stainless Steel Forged Steel, Stainless Steel X750，316,etc RPTFE,NBR,HNBR,etc
Applicable medium	Non-corrosive gases such as natural gas etc.	



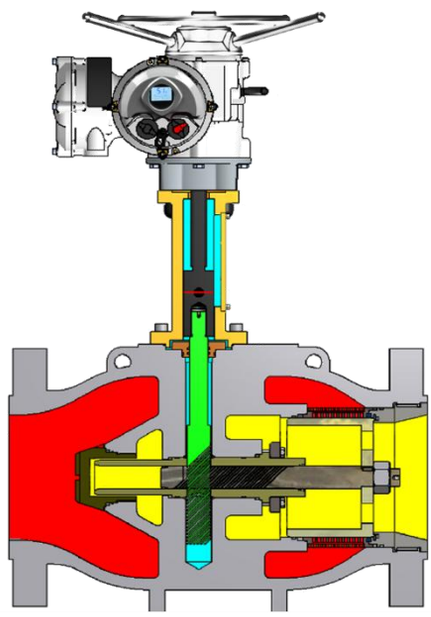
GPR-A200 Series Pressure Regulator



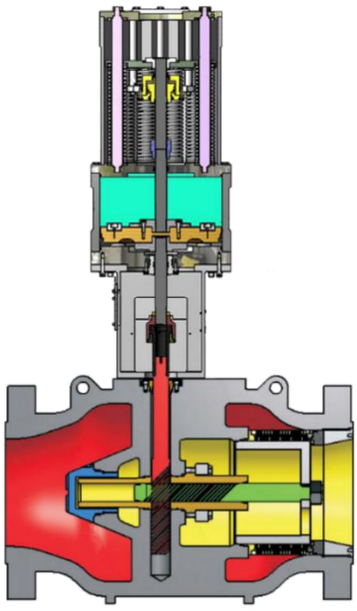
Application	Suitable for outlet pressure control in gas transmission systems, for gas supply to industrial and power plants	
Execution Standards	EN 334	
Nominal Size	DN25 ～ DN300 (NPS 1" ～ NPS 12")	
Nominal Pressure	Class150 ～ Class900 (PN16 ～ PN150)	
Connection	Flange	
Ambient Temperature	-29℃～+70℃ -46℃～+70℃ -59℃～+70℃ -73℃～+70℃	
Accuracy Class	Upto±1% (AC1)	
Lock-Up Pressure Class	Upto 2.5%（SG2.5）	
Min. Operating Differential Pressure	0.1MPa	
Optional Configuration	Electric heater for pilot Internal noise reducer Position transmitter	
Materials	Body Pilot Trim Spring Seal	Forged steel LF2, etc Alloy aluminum, etc Stainless steel, steel, etc X750,316,etc RPTFE,NBR,HNBR,etc
Applicable medium	Non-corrosive gases such as natural gas etc.	

FCV-A800 Series Axial Flow Control Valve

Application	Suitable for outlet pressure / flow control in gas transmission systems, for gas supply to industrial and power plants	
Execution Standards	IEC 60534	
Nominal Size	DN50 ～ DN1000 (NPS 2" ～ NPS 40")	
Nominal Pressure	Class150 ～ Class2500 (PN16 ～ PN420)	
Connection	Flange	
Ambient Temperature	-29℃～+70℃ -46℃～+70℃ -59℃～+70℃ -73℃～+70℃	
Intrinsic Error	Upto±1%	
Hysteresise	≤1%	
Dead Band	≤1%	
Flow Characteristic	Equal percent, Linear, etc.	
Seat Leakage	FCI 70-2 Class IV/V/VI	
Materials	Body Stem, Shaft Trim Seal	Cast Steel LCC, etc CrMo Alloy Steel Stainless Steel,etc RPTFE,NBR,HNBR,etc
Applicable medium	Non-corrosive gases such as natural gas etc.	



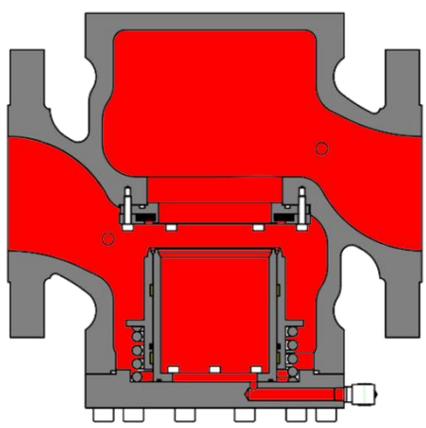
ASV-A500 Series Axial Flow Anti-Surge Valve



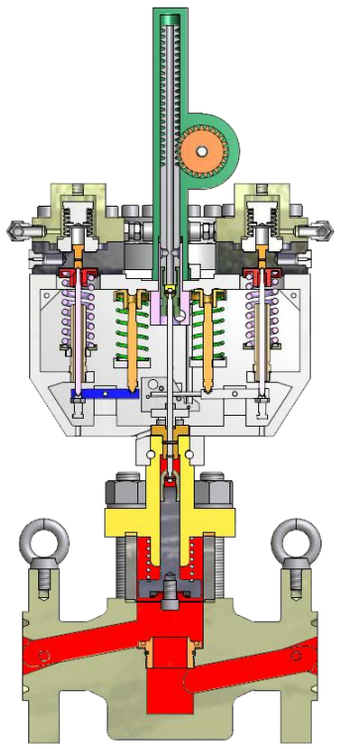
Application		Suitable for gas compressor anti-surge control system, as a safety protection device
Execution Standards		IEC 60534
Nominal Size		DN100 ～ DN800 (NPS 4" ～ NPS 32")
Nominal Pressure		Class300 ～ Class900 (PN40 ～ PN150)
Connection		Flange
Ambient Temperature		-29℃～+70℃ -46℃～+70℃ -59℃～+70℃ -73℃～+70℃
Intrinsic Error		Upto ±1%
Hysteresise		≤1%
Dead Band		≤1%
Flow Characteristic		Equal percent, Linear, etc.
Stroking Time	Open	＜1s (Solenoid)
		＜2s (Positioner)
	Close	＜12s (Positioner)
Seat Leakage		FCI 70-2 Class IV/V/VI
Materials	Body	Forged steel LF2, etc
	Pilot	Alloy aluminum, etc
	Trim	Stainless steel, steel, etc
	Spring	X750,316,etc
	Seal	RPTFE,NBR,HNBR,etc
Applicable medium		Non-corrosive gases such as natural gas etc.

SSV-S400 Series Safety Shut-off Valve

Application	It is an automatic shut-off appliance, suitable for installation as safety device in regulating stations and gas distribution piping	
Execution Standards	EN 14382	
Nominal Size	DN25 ～ DN300 (NPS 1" ～ NPS 12")	
Nominal Pressure	Class150 ～ Class600 (PN16 ～ PN100)	
Connection	Flange	
Ambient Temperature	-29℃～+70℃ -46℃～+70℃ -59℃～+70℃ -73℃～+70℃	
Over-pressure Cutting Accuracy	Upto±1% (AG1)	
Response Time	≤1s	
Optional Configuration	Under-pressure monitoring Remote control Position transmitter	
Materials	Body Bonnet Pilot Trim Spring Seal	Cast steel WCB,LCB, etc Cast steel WCB,LCB, etc Alloy aluminum, etc Stainless Steel,etc X750,316,etc RPTFE,NBR,HNBR,etc
Applicable medium	Non-corrosive gases such as natural gas etc.	



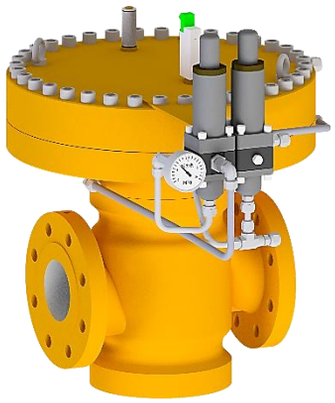
SSV-S400H Series Safety Shut-off Valve

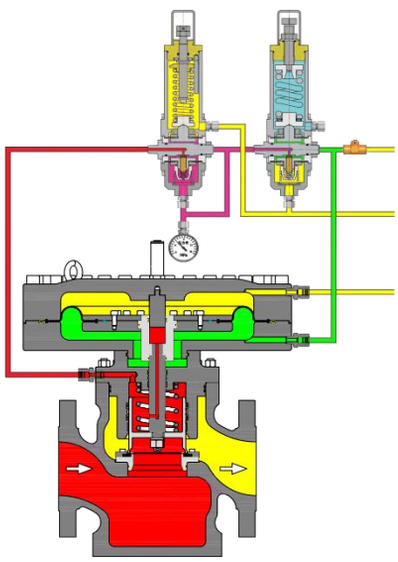


Application	It is an automatic shut-off appliance, suitable for installation as safety device in regulating stations and gas well distribution piping	
Execution Standards	EN 14382	
Nominal Size	DN40/DN50/DN80/DN100 (NPS 1-1/2" ～ NPS 4")	
Nominal Pressure	Class1500 (PN260)	
Connection	Flange	
Ambient Temperature	-29℃～+70℃ -46℃～+70℃ -59℃～+70℃ -73℃～+70℃	
Overpressure Cutting Accuracy	Upto±1% (AG1)	
Seat Leakage	FCI 70-2 Class VI / ISO 5208 Rate A	
Response Time	≤0.5s	
Optional Configuration	Under-pressure monitoring Remote control Position transmitter	
Materials	Body	Forged steel LF2, etc
	Core	Forged steel LF2+ENP, etc
	Stem	Duplex stainless steel,etc
	Actuator	Steel,Stainless steel,etc
	Spring	X750,316, etc
	Seal	PEEK,NBR,HNBR, etc
Applicable medium	Non-corrosive gases such as natural gas etc.	

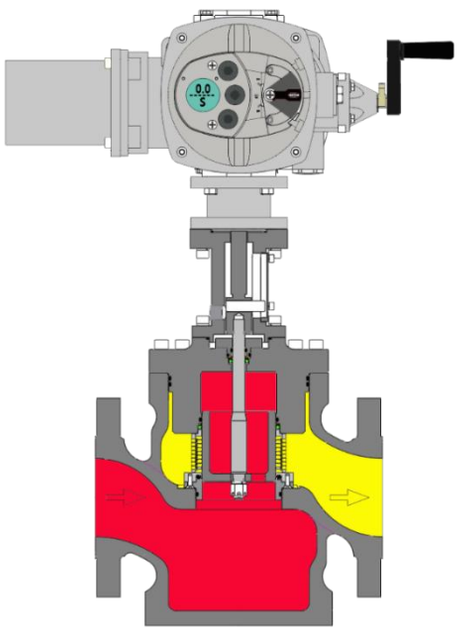
GPR-S200 Series Pressure Regulator

Application	Suitable for outlet pressure control in gas transmission systems, for gas supply to industrial and power plants	
Execution Standards	EN 334	
Nominal Size	DN25 ～ DN300 (NPS 1" ～ NPS 12")	
Nominal Pressure	Class150 ～ Class600 (PN16 ～ PN100)	
Connection	Flange	
Ambient Temperature	-29℃～+70℃ -46℃～+70℃ -59℃～+70℃ -73℃～+70℃	
Accuracy	Upto ±1% (AC1)	
Lock-Up Pressure Class	Upto 2.5%（SG2.5）	
Min. Operating Differential Pressure	0.05MPa	
Optional Configuration	Electric heater for pilot Internal noise reducer Position transmitter	
Materials	Body	Cast steel WCB,LCB, etc
	Bonnet	Cast steel WCB,LCB, etc
	Pilot	Alloy aluminum, etc
	Trim	Stainless steel, aluminum, etc
	Spring	X750,316,etc
	Seal	RPTFE,NBR,HNBR,etc
Applicable medium	Non-corrosive gases such as natural gas etc.	





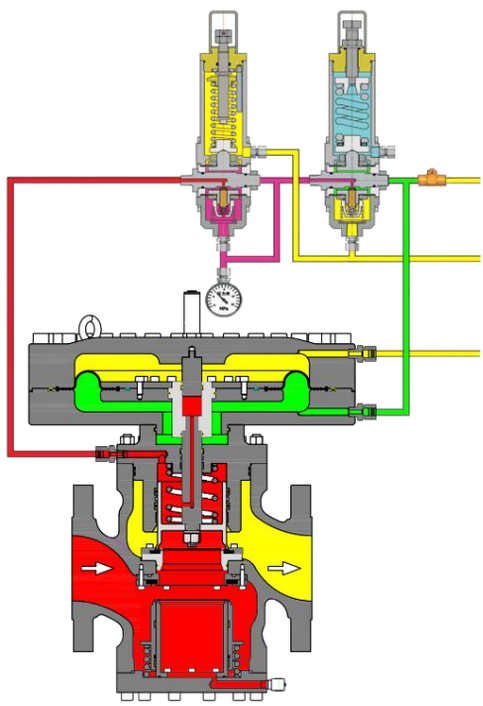
FCV-S800 Series Globe Control Valve



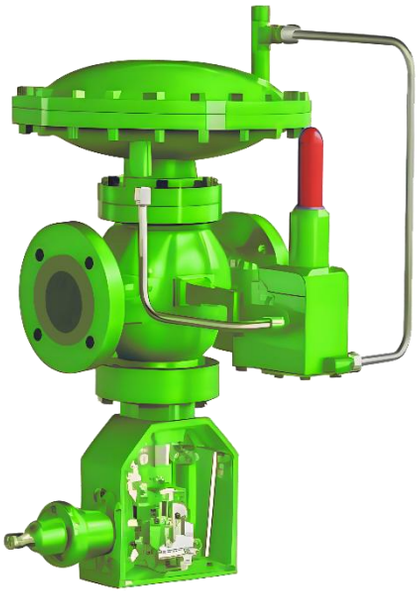
Application	Suitable for outlet pressure / flow control in gas transmission systems, for gas supply to industrial and power plants	
Execution Standards	IEC 60534	
Nominal Size	DN25 ～ DN300 (NPS 1" ～ NPS 12")	
Nominal Pressure	Class150 ～ Class600 (PN16 ～ PN100)	
Connection	Flange	
Ambient Temperature	-29℃～+70℃ -46℃～+70℃ -59℃～+70℃ -73℃～+70℃	
Intrinsic Error	Upto ±1%	
Hysteresise	≤1%	
Dead Band	≤1%	
Flow Characteristic	Equal percent, Linear, etc.	
Seat Leakage	FCI 70-2 Class IV/V/VI	
Materials	Body Bonnet Trim Seal	Cast steel WCB,LCB, etc Cast steel WCB,LCB, etc Stainless Steel,etc RPTFE,NBR,HNBR,etc
Applicable medium	Non-corrosive gases such as natural gas etc.	

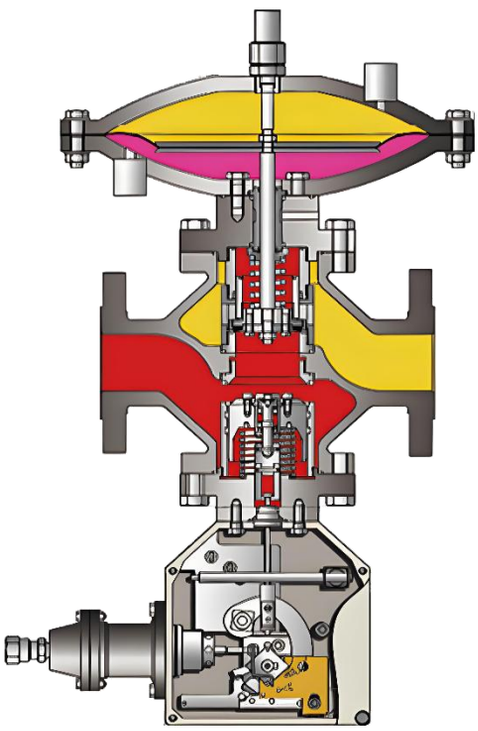
GPR-S200-FC-SSV Series Pressure Regulator With SSV

Application	Suitable for outlet pressure control in gas transmission systems, for gas supply to industrial and power plants	
Execution Standards	EN 334	
Nominal Size	DN25 ～ DN300 (NPS 1" ～ NPS 12")	
Nominal Pressure	Class150 ～ Class600 (PN16 ～ PN100)	
Connection	Flange	
Ambient Temperature	-29℃～+70℃ -46℃～+70℃ -59℃～+70℃ -73℃～+70℃	
Accuracy	Upto ±1% (AC1)	
Lock-Up Pressure Class	Upto 2.5%（SG2.5）	
Min. Operating Differential Pressure	0.05MPa	
Over-pressure Cutting Accuracy	Upto ±1% (AG1)	
Shut-off response Time	≤1s	
Optional Configuration	Electric heater for pilot Internal noise reducer Position transmitter	
Materials	Body Pilot Trim Spring Seal	Cast Steel WCB,LCB, etc Alloy aluminum, etc Stainless steel, aluminum, etc X750,316,etc RPTFE,NBR,HNBR,etc
Applicable medium	Non-corrosive gases such as natural gas etc.	



GPR-S200-FC-SSV(b) Series Pressure Regulator With SSV

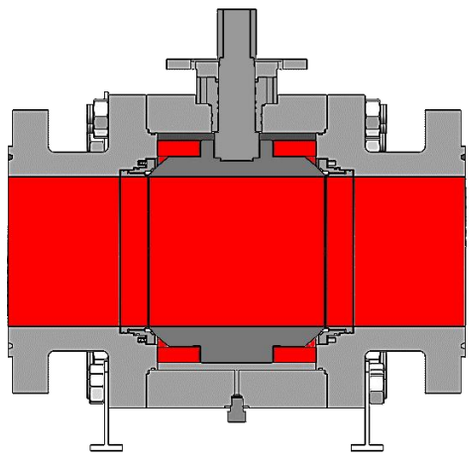




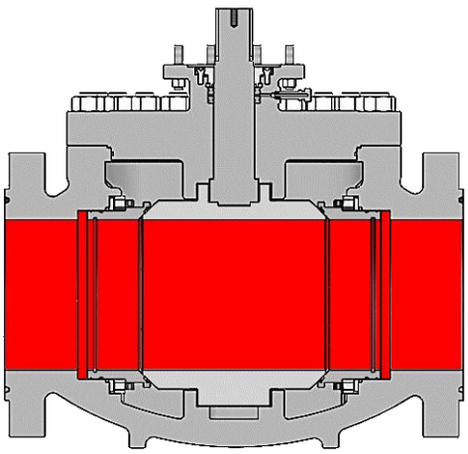
Application	Suitable for outlet pressure control in gas transmission systems, for gas supply to industrial and power plants.	
Execution Standards	EN 334	
Nominal Size	DN25 ～ DN200 (NPS 1” ～ NPS 8”)	
Nominal Pressure	Class150 ～ Class600 (PN16 ～ PN100)	
Connection	Flange	
Ambient Temperature	-29℃～+70℃ -46℃～+70℃ -59℃～+70℃ -73℃～+70℃	
Accuracy	Upto ±1% (AC 1)	
Lock-Up Pressure Class	Upto 2.5%（SG 2.5）	
Min. Operating Differential Pressure	0.05MPa	
Over-pressure Cutting Accuracy	Upto ±1% (AG1)	
Shut-off response Time	≤1s	
Optional Configuration	Electric heater for pilot Internal noise reducer Position transmitter	
Materials	Body Pilot Trim Spring Seal	Cast Steel WCB,LCB, etc. Alloy aluminum,Steel, etc Stainless steel, aluminum, etc X750,316,etc RPTFE,NBR,HNBR,etc
Applicable medium	Non-corrosive gases such as natural gas etc.	

RBV-A600 Series Fixed Ball Valve

Application	Suitable for long distance pipeline and general industrial pipeline to control the on-off of the medium.	
Execution Standards	API 6D	
Nominal Size	DN50 ～ DN1000 (NPS 2" ～ NPS 40")	
Nominal Pressure	Class150 ～ Class900 (PN16 ～ PN150)	
Connection	Flange	
Ambient Temperature	-29℃～+70℃ -46℃～+70℃ -59℃～+70℃ -73℃～+70℃	
Structural Style	Fixed Ball	
Seat Leakage	ISO 5208 Rate A	
Optional Configuration	DBB / DIB-I / DIB-II	
Materials	Body Ball Stem Spring Seal	Forged steel LF2,etc Forged steel LF2+ENP,etc Stainless Steel,etc X750,316,etc PEEK,NBR,HNBR,etc
Applicable medium	Non-corrosive gases and liquids such as natural gas, water, etc	



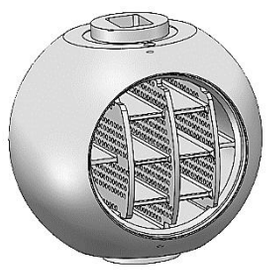
RBV-B600 Series Top Mounted Ball Valve

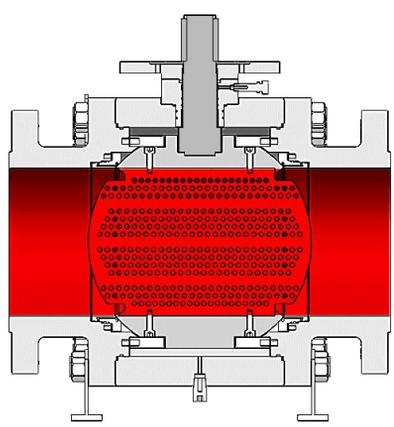


Application	Suitable for long distance pipeline and general industrial pipeline to control the on-off of the medium.	
Execution Standards	API 6D	
Nominal Size	DN50 ～ DN1000 (NPS 2" ～ NPS 40")	
Nominal Pressure	Class150 ～ Class900 (PN16 ～ PN150)	
Connection	Flange	
Ambient Temperature	-29℃～+70℃ -46℃～+70℃ -59℃～+70℃ -73℃～+70℃	
Structural Style	Top mounted	
Seat Leakage	ISO 5208 Rate A	
Optional Configuration	DBB / DIB-I / DIB-II	
Materials	Body Ball Stem Spring Seal	Cast steel LCC, etc Forged steel LF2+ENP,etc Stainless Steel,etc X750,316,etc PEEK,NBR,HNBR,etc
Applicable medium	Non-corrosive gases and liquids such as natural gas, water, etc	

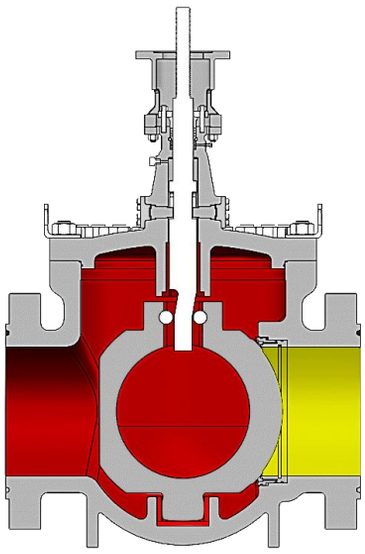
RBV-A300 Series Control Ball Valve

Application	Suitable for long distance pipeline and general industrial pipeline to control the flow and pressure of fluid media	
Execution Standards	IEC 60534	
Nominal Size	DN50 ～ DN1000 (NPS 2" ～ NPS 40")	
Nominal Pressure	Class150 ～ Class900 (PN16 ～ PN150)	
Connection	Flange	
Ambient Temperature	-29℃～+70℃ -46℃～+70℃ -59℃～+70℃ -73℃～+70℃	
Intrinsic Error	Upto ±1%	
Hysteresise	≤1%	
Dead Band	≤1%	
Flow Characteristic	Equal percent, Linear, etc.	
Seat Leakage	FCI 70-2 Class VI / ISO 5208 Rate A	
Materials	Body Ball Trim Seal	Forged steel LF2,etc Forged steel LF2+ENP,etc Stainless Steel,etc PEEK,NBR,HNBR,etc
Applicable medium	Non-corrosive gases such as natural gas etc.	





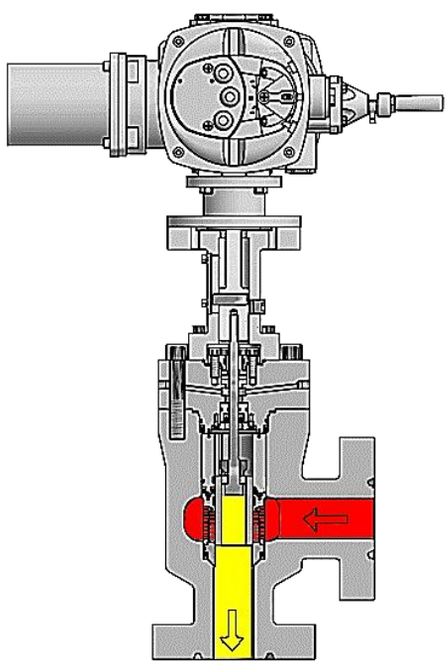
OBV-A700 Series Forced Seal Ball Valve



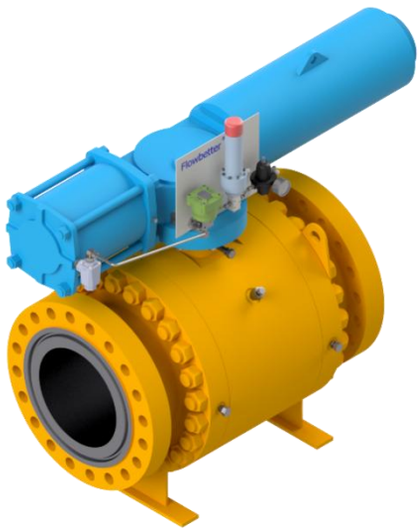
Application	Suitable for on-off control of measuring system of natural gas and other medium.	
Execution Standards	API 6D	
Nominal Size	DN50 ～ DN1000 (NPS 2" ～ NPS 40")	
Nominal Pressure	Class150 ～ Class900 (PN16 ～ PN150)	
Connection	Flange	
Ambient Temperature	-29℃～+70℃ -46℃～+70℃ -59℃～+70℃ -73℃～+70℃	
Structural Style	Lifting rod type	
Seat Leakage	ISO 5208 Rate A	
Sealing direction	Bidirectional (Total Pressure Difference)	
Materials	Body Bonnet Ball Stem Seal	Cast steel LCC, etc Cast steel LCC, etc Forged steel LF2+ENP,etc Duplex stainless steel,etc PEEK,NBR,HNBR,etc
Applicable medium	Non-corrosive gases and liquids such as natural gas, water, etc	

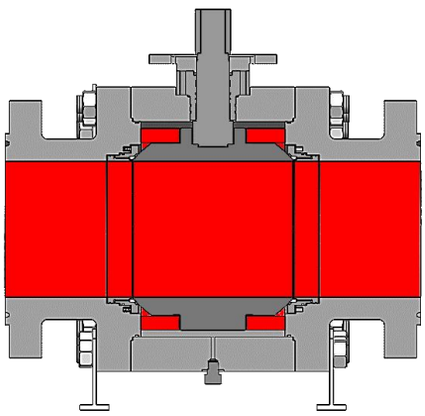
J-T900 Series Angle Throttle Valve

Application	Suitable for pressure/flow control at gas wellhead or storage during gas production	
Execution Standards	API 6A	
Nominal Size	DN40 ～ DN150 (NPS 1 1/2" ～ NPS 6")	
Nominal Pressure	Class600 ～ Class2500 (2000PSI ～ 10000PSI)	
Connection	Flange	
Ambient Temperature	-29℃～+82℃ -46℃～+82℃ -59℃～+82℃ -73℃～+82℃	
Intrinsic Error	Upto ±1%	
Hysteresise	≤1%	
Dead Band	≤1%	
Flow Characteristic	Equal percent, Linear, etc.	
Seat Leakage	FCI 70-2 Class VI	
Materials	Body Stem Trim Seal	Forged steel LF2,etc Forged steel, Alloy Steel,etc Stainless steel,WC-Co,etc PEEK,NBR,HNBR,etc
Applicable medium	Non-corrosive gases such as natural gas etc.	



SSV-Q400 Series Pneumatic Cut-off Ball Valve

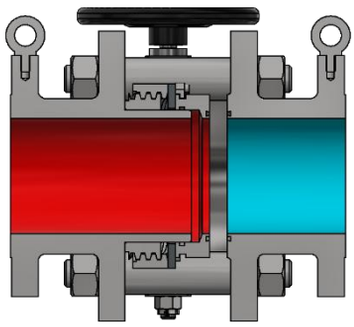




Application	It is an automatic cut-off appliance suitable for installation as safety device in regulating stations and industrial pipeline	
Execution Standards	EN 14382	
Nominal Size	DN50 ～ DN600 (NPS 2" ～ NPS 24")	
Nominal Pressure	Class150 ～ Class900 (PN16 ～ PN150)	
Connection	Flange	
Ambient Temperature	-29℃～+70℃ -46℃～+70℃ -59℃～+70℃ -73℃～+70℃	
Overpressure Cutting Accuracy	Upto±1% (AG1)	
Seat Leakage	FCI 70-2 Class VI / ISO 5208 Rate A	
Response Time	Upto 2s	
Optional Configuration	Under-pressure monitoring Remote control Position transmitter	
Materials	Body	Forged Steel A105,LF2, etc
	Pilot	Cast Steel,Forged steel
	Ball	Forged steel LF2+ENP, etc
	Stem	Duplex stainless steel,etc
	Actuator	Steel,Stainless steel,etc
	Spring	X750,316, etc
	Seal	PEEK,NBR,HNBR, etc
Applicable medium	Non-corrosive gases such as natural gas etc.	

LBV-H400 Series Line Blind Valve

Application	Suitable for metallurgical, chemical, petroleum, natural gas and other pipeline systems to ensure tight pipeline closure	
Execution Standards	API 6A	
Nominal Size	DN25 ～ DN1000 (NPS 1" ～ NPS 40")	
Nominal Pressure	Class150 ～ Class600 (PN16 ～ PN100)	
Connection	Flange	
Ambient Temperature	-29℃～+82℃ -46℃～+82℃ -59℃～+82℃ -73℃～+82℃	
Seat Leakage	FCI 70-2 Class VI / ISO 5208 Rate A	
Materials	Body Blind plat Stem Seal	Forged steel LF2,etc Forged stainless steel,etc Stainless steel,etc PEEK,NBR,HNBR,etc
Applicable medium	Non-corrosive gases and liquids such as natural gas, water, etc	



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