

# Flowbetter<sup>®</sup>

CONTROL VALVES



**Providing World Class Control Valve  
Technology & Services**



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创造价值



**Flowbetter**<sup>®</sup>  
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.

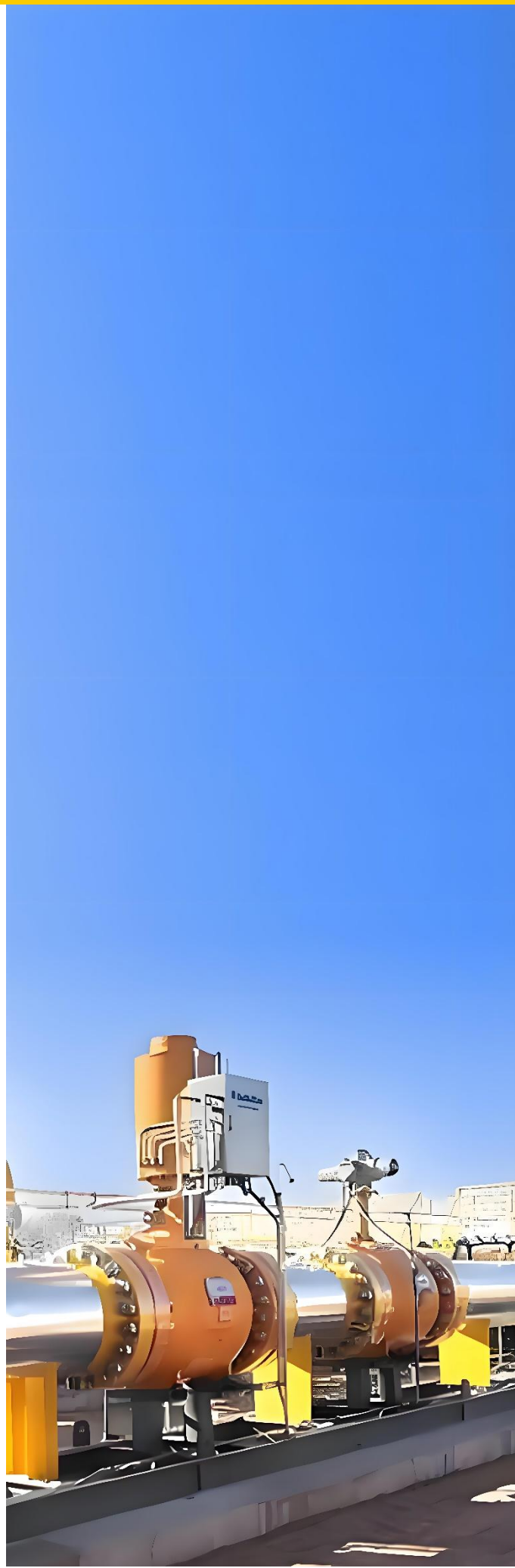


## Application and execution capabilities

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.

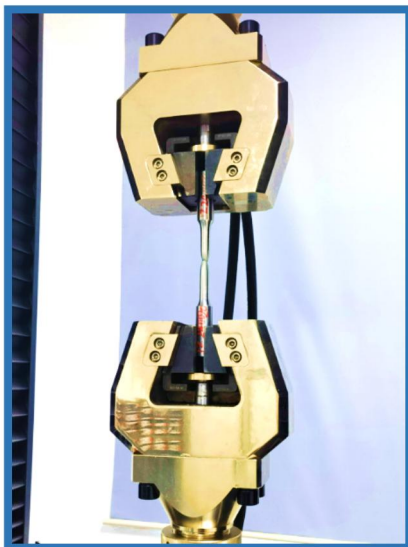
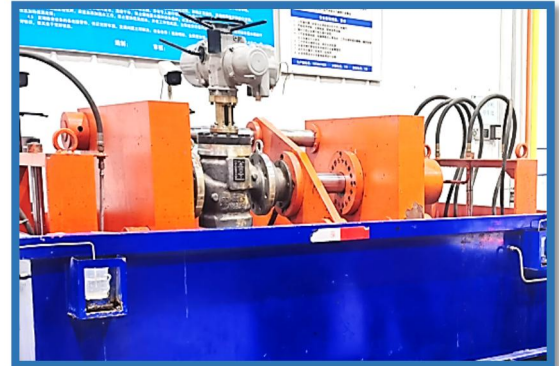
So we constantly update and upgrade our processing equipment, testing equipment, and specialized fixtures to ensure the high quality requirements of various types of Flowbetter valves, while greatly improving delivery time.

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

**TÜV NORD CERTIFICATE**  
Management system  
**ISO 9001 : 2015**  
(dit GB/T 19001-2016)  
The Certification Body TÜV NORD CEI according to ISO/IEC 17021:2015, certifies  
**Tianjin Better Fluid No. 18, 3-2#, 3-3#, Fuyuan Tianjin City, P. R. China**  
Unified Social Credit Code: 91120222 operates a management system in all the 3 year term of validity of the certificate scope  
**Design and Manufacture Emergency Shutoff Valve**  
Certificate Registration No. 44 100 17 Audit Report No. 2.5-CN40842023

**TÜV NORD CERTIFICATE**  
Management system  
**ISO 14001: 2015**  
(dit GB/T 24001-2016)  
The Certification Body TÜV NORD CEI according to ISO/IEC 17021:2015, certifies  
**Tianjin Better Fluid No. 18, 3-2#, 3-3#, Fuyuan Tianjin City, P. R. China**  
Unified Social Credit Code: 91120222 operates a management system in all the 3 year term of validity of the certificate scope  
**Design and Manufacture Emergency Shutoff Valve**  
Certificate Registration No. 44 100 17 Audit Report No. 2.5-CN40842023

**TÜV NORD CERTIFICATE**  
Management system as per  
**ISO 45001 : 2018**  
(dit GB/T 45001-2020)  
The Certification Body TÜV NORD CERT GmbH hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization  
**Tianjin Better Fluid Control Valves Co., Ltd.**  
No. 18, 3-2#, 3-3#, Fuyuan Road, Jingbin Industrial Park, Wuqing District, Tianjin City, P. R. China  
operates a management system in accordance with the requirements of ISO 45001:2018 and will be assessed for conformity within the 3 year term of validity of the certificate.  
**Design and Manufacturing of Fluid Control Valves (A1, B Metal Valves, Emergency Shutoff Valve) (Qualification within the Scope of License)**  
Certificate Registration No. 44 120 1780 0044 Audit Report No. 2.5-CN40842023 Valid from 2023-01-05 Valid until 2025-01-04 Initial Certification 2017-01-25

**CE 0085**  
**DVGW CERT**  
**EG-Baumusterprüfbescheinigung**  
**EC type examination certificate**  
CE-0085CU0086  
Product identification no. Product identification number

**Field of Application** EG-Druckgeräteeinheiten (2014/68/EU)  
**Owner of Certificate** TIANJIN BETTER FLUID CONTROL VALVES COM. LTD. No.11, Guowang Street, Jingbin IP, CN-301712 Tianjin  
**Distributor** TIANJIN BETTER FLUID CONTROL VALVES COM. LTD. No.11, Guowang Street, Jingbin IP, CN-301712 Tianjin

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**Distributor** TIANJIN BETTER FLUID CONTROL VALVES COM. LTD. No.11, Guowang Street, Jingbin IP, CN-301712 Tianjin

**TÜV NORD CERTIFICATE**  
Registered No.: CER-IND1104812310008002  
Date of issue: 27.11.2024 Assessment report No. CN-AD1104812310008002 Date of issue: 28.11.2023

**TÜV NORD CERTIFICATE**  
of conformity with the following standard:  
Registered No.: CER-IND1102812103004004  
Date of issue: 27.11.2024 Assessment report No. CN-AD1102812103004004 Date of issue: 28.11.2023

**TÜV NORD CERTIFICATE**  
Functional Safety Certification  
Registered No.: CER-IND1104812310008001  
Date of issue: 27.11.2024 Assessment report No. CN-AD1104812310008001 Date of issue: 28.11.2023

This is to certify that the following product comply with the relevant requirements of mentioned safety standards:  
**Applicant:** Tianjin Better Fluid Control Valves Co., Ltd. No.11 Guowang Road, Jingbin Industry Park, Wuqing District, Tianjin, China  
**Product:** Anti-surge Valve A500 (DN 100 - DN 800 Class 150 - Class 900) with SSD 300 - 600 Series Pneumatic Actuator, DVC 6200 / NDX Series Positioner and ASSCO-327JUL-D.N Series Solenoid Valve  
**Scope:** IEC 61508:2010 (Part 1-7) SIL 2 (with HFT-0), SIL 3 (with HFT-1) Open or Close on demand  
**Remark:** PFD<sub>avg</sub> and Architecture Constraints must be verified for each application. The unit must be properly integrated into a Safety Instrumented Function per the requirements in Safety Manual.

**Certificate**  
Of Conformity with Technical Requirements In:  
API STD 6FA Fifth Edition, May 2020  
Fire Test for Valves  
Certificate No.: 285284  
Name of Applicant / Manufacturer: Tianjin Better Fluid Control Valves Co., Ltd. No. 11, Guowang Road, Jingbin Industry Park, Wuqing District, Tianjin, P. R. China  
Manufacturing Plant: NO.18, Fuyuan Road, Jingbin Industry Park, Wuqing District, Tianjin, P. R. China  
We hereby certify that the fire test on below valves have been conducted at the above mentioned manufacturer and witnessed by TÜV Engineer according to requirements of API Std 6FA Fifth Edition, May 2020. The testing results of valves meet the requirements of API Std 6FA Fifth Edition, May 2020.  
1. Description of Test Valve:

**CERTIFICATE**  
Certificate of Conformity with Technical Requirements In:  
API STD 607 Seventh Edition, June 2016  
Fire Test for Soft-sealed Valves  
Certificate No.: 285226  
Name of Applicant / Manufacturer: Tianjin Better Fluid Control Valves Co., Ltd. No. 11, Guowang Road, Jingbin Industry Park, Wuqing District, Tianjin, P. R. China  
Manufacturing Plant: NO.18, Fuyuan Road, Jingbin Industry Park, Wuqing District, Tianjin, P. R. China  
We hereby certify that the fire test on below valves have been conducted at the above mentioned manufacturer and witnessed by TÜV Engineer according to requirements of API Std 607 Seventh Edition, June 2016. The testing results of valves meet the requirements of API Std 607 Seventh Edition, June 2016.  
1. Description of Tested Valve:

**CERTIFICATE**  
Certificate of Conformity with Technical Requirements In:  
API STD 607 Seventh Edition, June 2016  
Fire Test for Soft-sealed Valves  
Certificate No.: 285308  
Name of Applicant / Manufacturer: Tianjin Better Fluid Control Valves Co., Ltd. No. 11, Guowang Road, Jingbin Industry Park, Wuqing District, Tianjin, P. R. China  
Manufacturing Plant: NO.18, Fuyuan Road, Jingbin Industry Park, Wuqing District, Tianjin, P. R. China  
We hereby certify that the fire test on below valves have been conducted at the above mentioned manufacturer and witnessed by TÜV Engineer according to requirements of API Std 607 Seventh Edition, June 2016. The testing results of valves meet the requirements of API Std 607 Seventh Edition, June 2016.  
1. Description of Tested Valve:

Type of Test Valve:	Thoride valve 2 1/8"
Description of Test Valve:	Thoride valve
Valve Size (NPS)	2 1/8"
Pressure Rating (ANSI Class)	5000psi
Mass of Test Valve (Pkg)	190
Valve Body Material	ASSI C13
Test Report	2023JUG67Z805473

Type of Valve:	Thoride valve
Qualified Pressure Ratings (Class) (according to API 607 Table 6)	5000psi/10000psi
Qualified Sizes (NPS) (according to API 607 Table 2.3)	2 1/8", 2 1/2", 3 1/8", 3 1/2", 4", 4 1/2"
Mass of Qualified Valves (Pkg) with Different Ends (according to API 607 Para. 7.1, e)	Greater than the 16000 valve or not less than 75% of the test valves
Qualified Valve Material (according to API 607 Para. 7.2)	ferrous steel

Remark: The technical data of tested valves see back of this certificate appendix.

This certificate is issued according to API STD 607 Seventh Edition, June 2016, based upon the result of testing report on above mentioned test valve. The additional valve qualification shall be limited to similar valves of same basic design (including calculation method) and construction as the test valve and of the same nonmetallic materials with respect to the seal-to-closure member seal, seal-to-body seal, stem seal, and body joint and seal according to API STD 607 Seventh Edition, June 2016.

Beijing, Mar 29<sup>th</sup>, 2022  
(Place, Date)  
Mr. Liu Binling  
TUV SUD Certification and Testing (China) Co., Ltd. Beijing Branch

### Product Range

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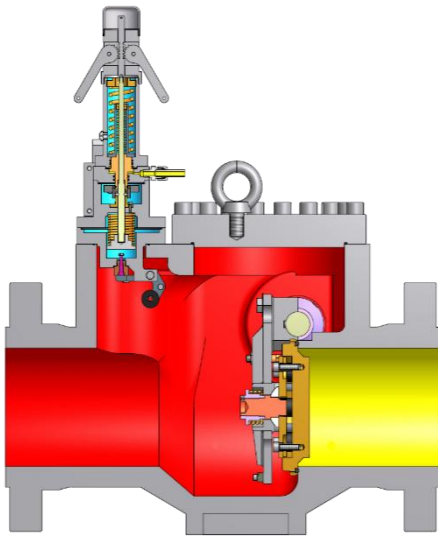
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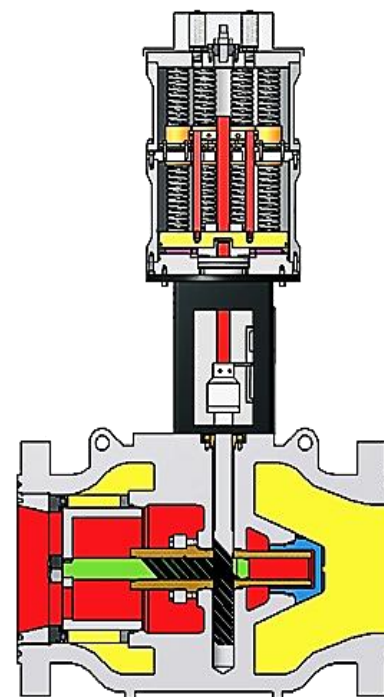
## SSV-A400 Series Safety Shut-off Valve



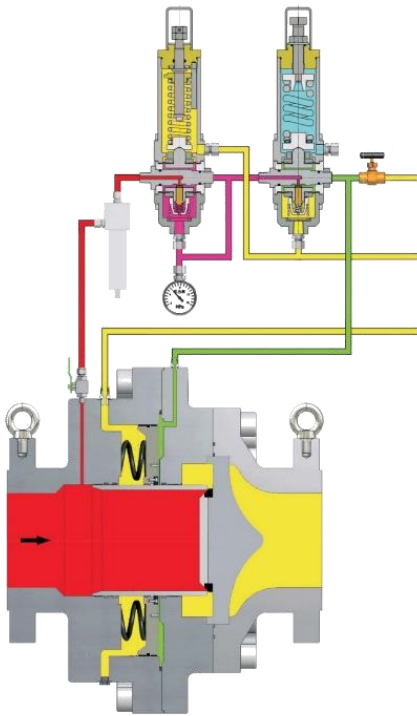
Application	It is an automatic shut-off appliance, suitable for installation as safety device in regulating stations and gas distribution piping	
Execution Standards	EN 14382	
Nominal Size	DN25 ~ DN400 (NPS 1" ~ NPS 16")	
Nominal Pressure	Class150 ~ Class900 (PN16 ~ PN150)	
Connection	Flange	
Ambient Temperature	-29°C~+70°C -46°C~+70°C -59°C~+70°C -73°C~+70°C	
Over-pressure Cutting Accuracy	Upto±1% (AG1)	
Response Time	≤1s	
Optional Configuration	Under-pressure monitoring Remote control Position transmitter	
Materials	Body	Cast steel LCC, etc
	Pilot	Cast steel, forged steel
	Trim	Stainless steel, steel, copper
	Spring	X750,316,etc
	Seal	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°C~+70°C -46°C~+70°C -59°C~+70°C -73°C~+70°C	
Over-pressure Cutting Accuracy	Upto±1% (AG1)	
Response Time	≤2s	
Optional Configuration	Under-pressure monitoring Remote control Position transmitter	
Materials	Body	Cast steel LCC, etc
	Pilot	Cast steel, forged steel
	Stem, Shaft	CrMo Alloy Steel
	Trim	Stainless Steel
	Actuator	Forged Steel, Stainless Steel
	Spring	X750, 316,etc
	Seal	RPTFE,NBR,HNBR,etc
Applicable medium	Non-corrosive gases such as natural gas etc.	



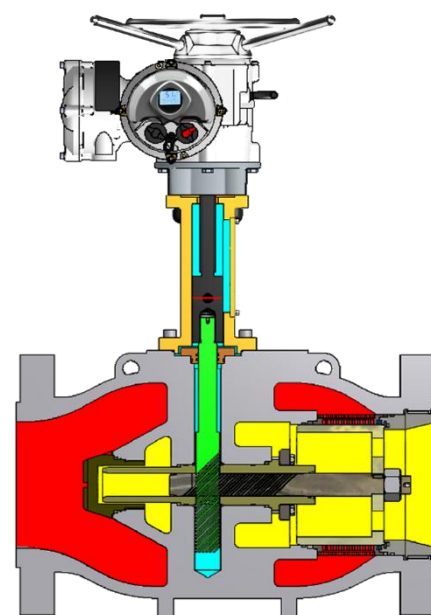
## GPR-A200 Series Pressure Regulator



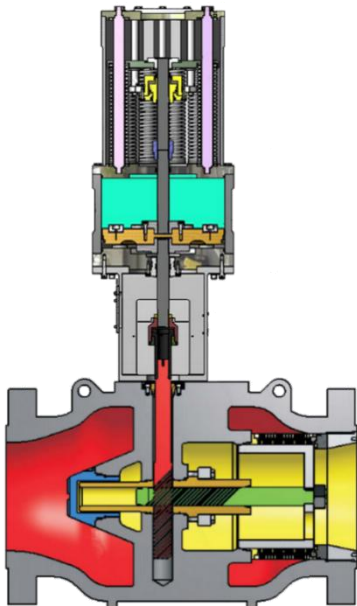
Application	Suitable for outlet pressure control in gas transmission systems, for gas supply to industrial and power plants	
Execution Standards	EN 334	
Nominal Size	DN25 ~ DN300 (NPS 1" ~ NPS 12")	
Nominal Pressure	Class150 ~ Class900 (PN16 ~ PN150)	
Connection	Flange	
Ambient Temperature	-29°C ~ +70°C -46°C ~ +70°C -59°C ~ +70°C -73°C ~ +70°C	
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	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.	

## 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°C~+70°C -46°C~+70°C -59°C~+70°C -73°C~+70°C	
Intrinsic Error	Upto±1%	
Hysteresis	≤1%	
Dead Band	≤1%	
Flow Characteristic	Equal percent, Linear, etc.	
Seat Leakage	FCI 70-2 Class IV/V/VI	
Materials	Body	Cast Steel LCC, etc
	Stem, Shaft	CrMo Alloy Steel
	Trim	Stainless Steel, etc
	Seal	RPTFE, NBR, HNBR, etc
Applicable medium	Non-corrosive gases such as natural gas etc.	



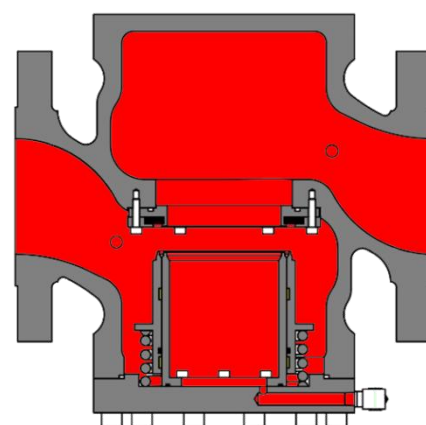
## ASV-A500 Series Axial Flow Anti-Surge Valve



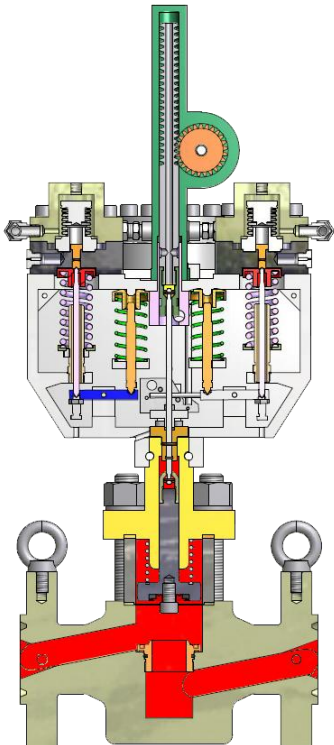
Application	Suitable for gas compressor anti-surge control system, as a safety protection device	
Execution Standards	IEC 60534	
Nominal Size	DN100 ~ DN800 (NPS 4" ~ NPS 32")	
Nominal Pressure	Class300 ~ Class900 (PN40 ~ PN150)	
Connection	Flange	
Ambient Temperature	-29°C~+70°C -46°C~+70°C -59°C~+70°C -73°C~+70°C	
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°C~+70°C -46°C~+70°C -59°C~+70°C -73°C~+70°C	
Over-pressure Cutting Accuracy	Upto±1% (AG1)	
Response Time	≤1s	
Optional Configuration	Under-pressure monitoring Remote control Position transmitter	
Materials	Body	Cast steel WCB,LCB, etc
	Bonnet	Cast steel WCB,LCB, etc
	Pilot	Alloy aluminum, etc
	Trim	Stainless Steel,etc
	Spring	X750,316,etc
	Seal	RPTFE,NBR,HNBR,etc
Applicable medium	Non-corrosive gases such as natural gas etc.	



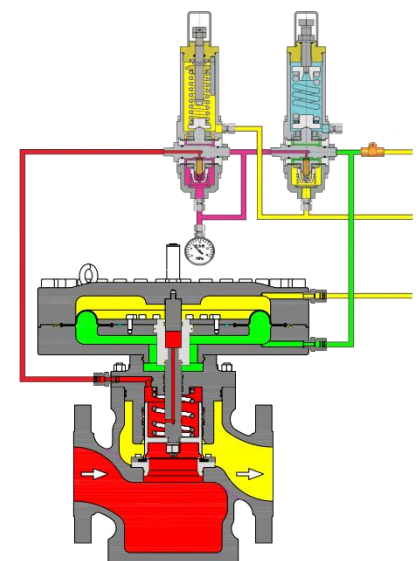
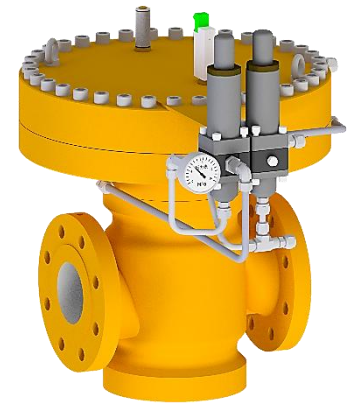
## SSV-S400H Series Safety Shut-off Valve



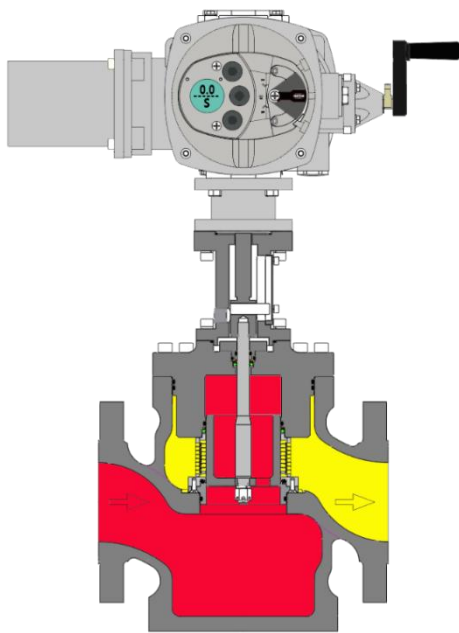
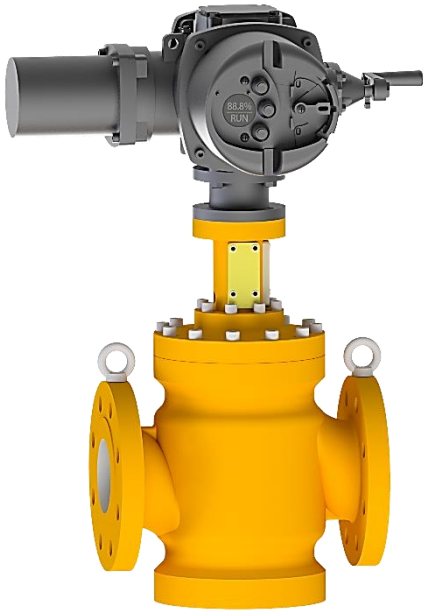
Application	It is an automatic shut-off appliance, suitable for installation as safety device in regulating stations and gas well distribution piping	
Execution Standards	EN 14382	
Nominal Size	DN40/DN50/DN80/DN100 (NPS 1-1/2" ~ NPS 4")	
Nominal Pressure	Class1500 (PN260)	
Connection	Flange	
Ambient Temperature	-29°C ~ +70°C -46°C ~ +70°C -59°C ~ +70°C -73°C ~ +70°C	
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°C~+70°C -46°C~+70°C -59°C~+70°C -73°C~+70°C	
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.	



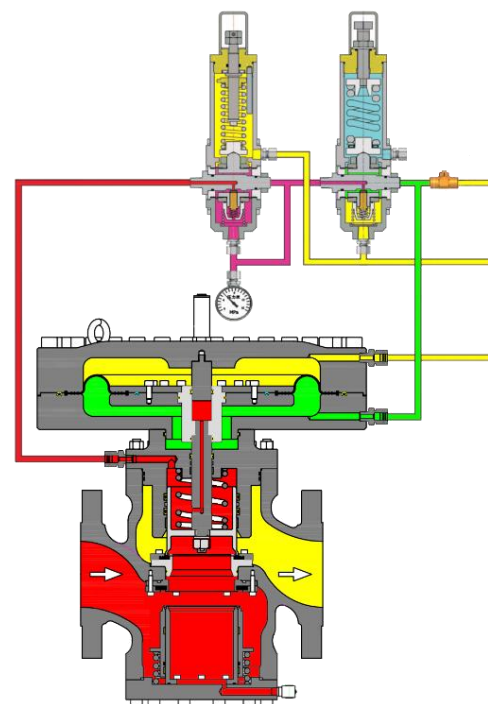
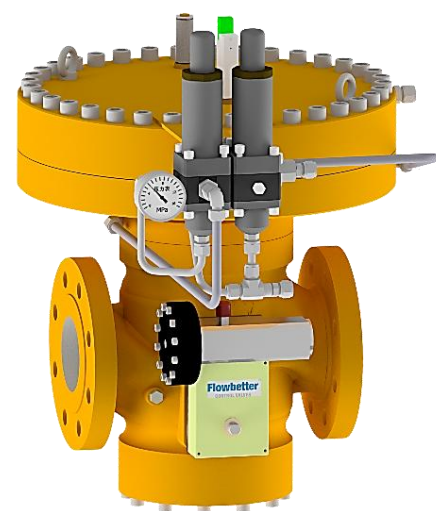
## FCV-S800 Series Globe Control Valve



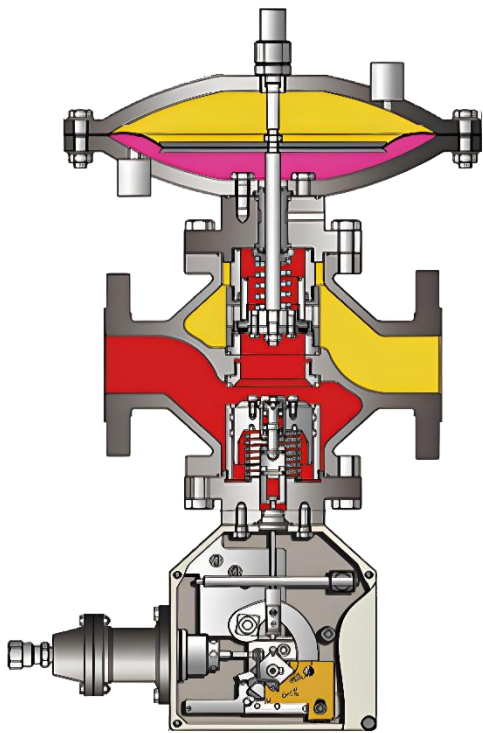
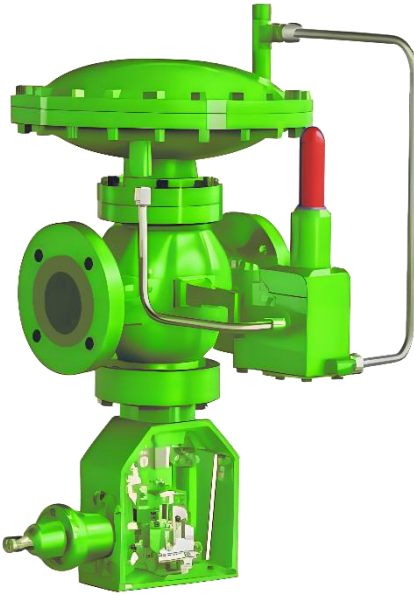
Application	Suitable for outlet pressure / flow control in gas transmission systems, for gas supply to industrial and power plants	
Execution Standards	IEC 60534	
Nominal Size	DN25 ~ DN300 (NPS 1" ~ NPS 12")	
Nominal Pressure	Class150 ~ Class600 (PN16 ~ PN100)	
Connection	Flange	
Ambient Temperature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



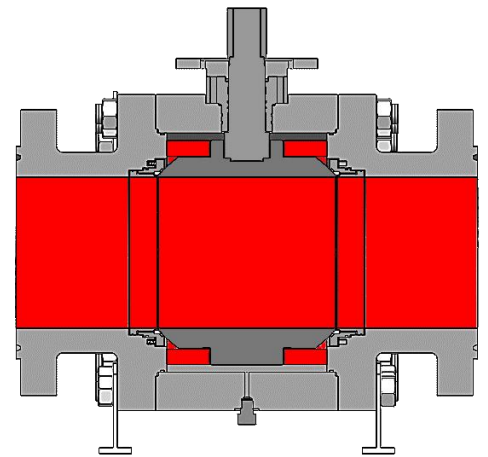
## GPR-S200-FC-SSV(b) Series Pressure Regulator With SSV



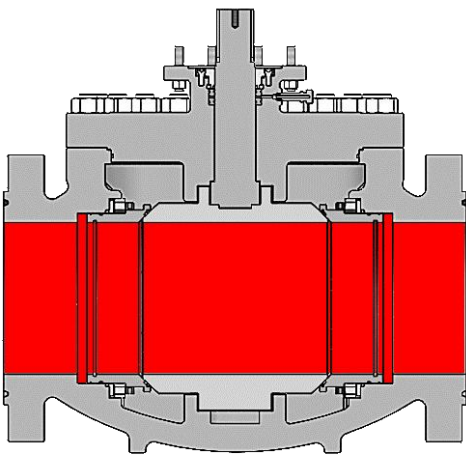
Application	Suitable for outlet pressure control in gas transmission systems, for gas supply to industrial and power plants.	
Execution Standards	EN 334	
Nominal Size	DN25 ~ DN200 (NPS 1" ~ NPS 8")	
Nominal Pressure	Class150 ~ Class600 (PN16 ~ PN100)	
Connection	Flange	
Ambient Temperature	-29°C ~ +70°C -46°C ~ +70°C -59°C ~ +70°C -73°C ~ +70°C	
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	Cast Steel WCB,LCB, etc.
	Pilot	Alloy aluminum,Steel, 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.	

## 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°C~+70°C -46°C~+70°C -59°C~+70°C -73°C~+70°C	
Structural Style	Fixed Ball	
Seat Leakage	ISO 5208 Rate A	
Optional Configuration	DBB / DIB-I / DIB-II	
Materials	Body	Forged steel LF2,etc
	Ball	Forged steel LF2+ENP,etc
	Stem	Stainless Steel,etc
	Spring	X750,316,etc
	Seal	PEEK,NBR,HNBR,etc
Applicable medium	Non-corrosive gases and liquids such as natural gas, water, etc	



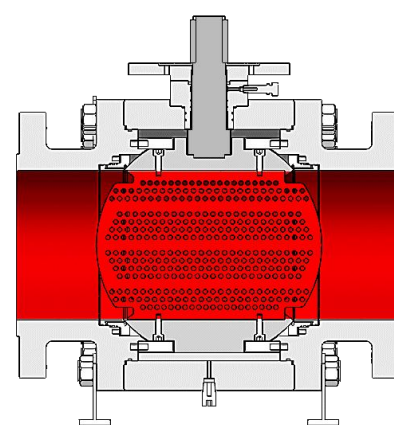
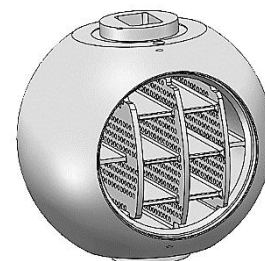
## RBV-B600 Series Top Mounted Ball Valve



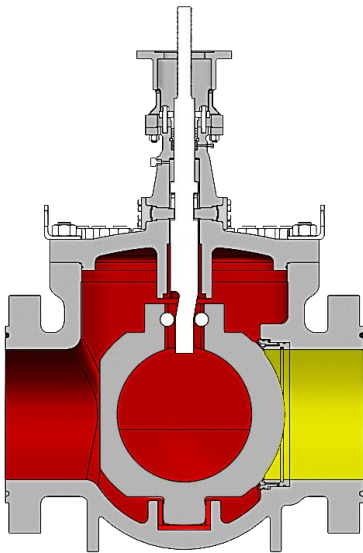
Application	Suitable for long distance pipeline and general industrial pipeline to control the on-off of the medium.	
Execution Standards	API 6D	
Nominal Size	DN50 ~ DN1000 (NPS 2" ~ NPS 40")	
Nominal Pressure	Class150 ~ Class900 (PN16 ~ PN150)	
Connection	Flange	
Ambient Temperature	-29°C~+70°C -46°C~+70°C -59°C~+70°C -73°C~+70°C	
Structural Style	Top mounted	
Seat Leakage	ISO 5208 Rate A	
Optional Configuration	DBB / DIB-I / DIB-II	
Materials	Body	Cast steel LCC, etc
	Ball	Forged steel LF2+ENP,etc
	Stem	Stainless Steel,etc
	Spring	X750,316,etc
	Seal	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°C~+70°C -46°C~+70°C -59°C~+70°C -73°C~+70°C	
Intrinsic Error	Upto ±1%	
Hysteresis	≤1%	
Dead Band	≤1%	
Flow Characteristic	Equal percent, Linear, etc.	
Seat Leakage	FCI 70-2 Class VI / ISO 5208 Rate A	
Materials	Body	Forged steel LF2,etc
	Ball	Forged steel LF2+ENP,etc
	Trim	Stainless Steel,etc
	Seal	PEEK,NBR,HNBR,etc
Applicable medium	Non-corrosive gases such as natural gas etc.	



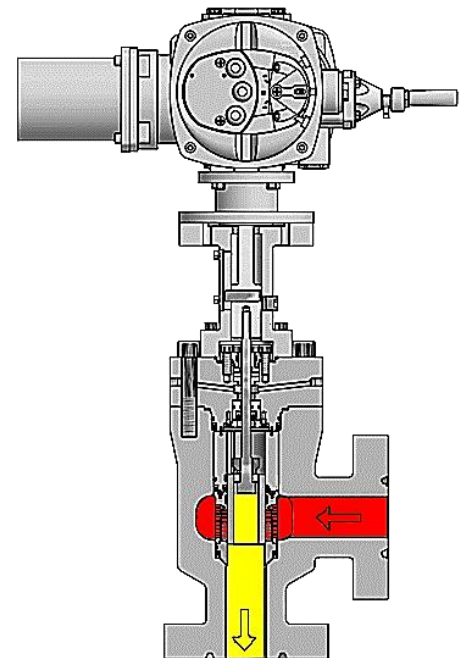
## OBV-A700 Series Forced Seal Ball Valve



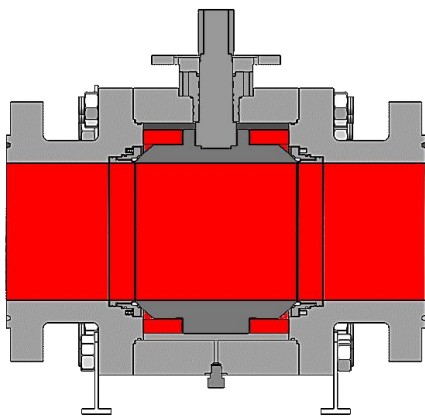
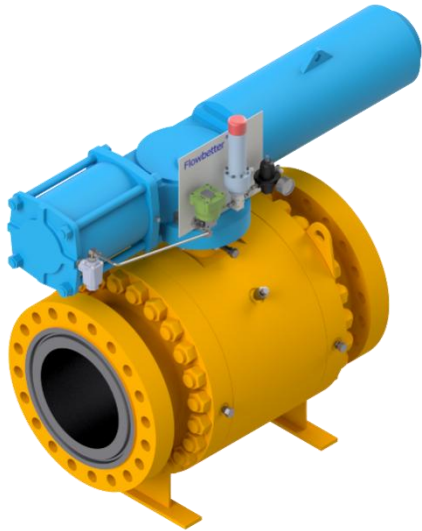
Application	Suitable for on-off control of measuring system of natural gas and other medium.	
Execution Standards	API 6D	
Nominal Size	DN50 ~ DN1000 (NPS 2" ~ NPS 40")	
Nominal Pressure	Class150 ~ Class900 (PN16 ~ PN150)	
Connection	Flange	
Ambient Temperature	-29°C~+70°C -46°C~+70°C -59°C~+70°C -73°C~+70°C	
Structural Style	Lifting rod type	
Seat Leakage	ISO 5208 Rate A	
Sealing direction	Bidirectional (Total Pressure Difference)	
Materials	Body	Cast steel LCC, etc
	Bonnet	Cast steel LCC, etc
	Ball	Forged steel LF2+ENP,etc
	Stem	Duplex stainless steel,etc
	Seal	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°C~+82°C -46°C~+82°C -59°C~+82°C -73°C~+82°C	
Intrinsic Error	Upto ±1%	
Hysteresis	≤1%	
Dead Band	≤1%	
Flow Characteristic	Equal percent, Linear, etc.	
Seat Leakage	FCI 70-2 Class VI	
Materials	Body	Forged steel LF2,etc
	Stem	Forged steel, Alloy Steel,etc
	Trim	Stainless steel,WC-Co,etc
	Seal	PEEK,NBR,HNBR,etc
Applicable medium	Non-corrosive gases such as natural gas etc.	



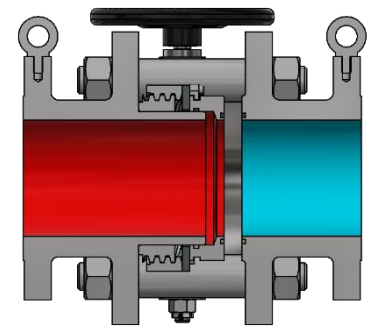
## SSV-Q400 Series Pneumatic Cut-off Ball Valve



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°C ~ +70°C -46°C ~ +70°C -59°C ~ +70°C -73°C ~ +70°C	
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°C~+82°C -46°C~+82°C -59°C~+82°C -73°C~+82°C	
Seat Leakage	FCI 70-2 Class VI / ISO 5208 Rate A	
Materials	Body	Forged steel LF2,etc
	Blind plat	Forged stainless steel,etc
	Stem	Stainless steel,etc
	Seal	PEEK,NBR,HNBR,etc
Applicable medium	Non-corrosive gases and liquids such as natural gas, water, etc	



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## Contact Information

Tianjin Better Fluid Control Valve Co., Ltd

Address: No.11 Guwang Road, Jingbin Industrial Park, Wuqing District, Tianjin, China

Postal code: 301712

Fax: +86 22 22193895

Phone: +86 22 22193891/92/93

Sales Hotline: +86 15933062318

[zhengxin@petrobest.com](mailto:zhengxin@petrobest.com)

+86 15132685726

[market-wei@petrobest.com](mailto:market-wei@petrobest.com)

Website: <http://www.flowbetter.com/>

