

Technical Service Hotline
0086-577-67354000

TEJI® TEJI VALVE GROUP CO., LTD.

SMART WATER VALVE SERIES



Leading the Global Valve Industry.

SMART WATER VALVE SERIES



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COMPANY PROFILE

Leading the
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Founded in 1980, Teji Valve Group Co., Ltd. is headquartered in Anfeng Industrial Zone in Yongjia County, Zhejiang Province, which is located on the bank of the famous Oujiang River. In August 2011, the State Administration for Industry and Commerce approved to promote the company as a non-regional enterprise - Teji Valve Group Co., Ltd. With a registered capital of 226 million yuan, Teji Valve Group possesses two major production bases in Wenzhou and Shanghai respectively, covering an area of 68,000 square meters. The company now has 380 staff and over 500 sets of processing and testing equipment.

The company has become the state-level high-tech enterprise, and obtained honors as Zhejiang Provincial AAA-level "Contract-honoring and Credit-worthy" Company, Zhejiang Provincial Demonstration Enterprise for Clean Production, the leading enterprise in the pump and valve industry in China, the high-growth enterprise in Wenzhou, and the giant enterprise in Yongjia County. It is the Class-A supplier to PetroChina, the qualified supplier to Sinopec, Petronas, ADNOC and CNOOC. It has successively obtained a series of significant honors and certifications, such as CNAS National Laboratory, Provincial Enterprise Research Institute, Provincial Industrial Design Center, Zhejiang Manufacturing Brand, Zhejiang Famous Trademark, and Yongjia County Quality Award. Several series of copyrighted ball valve products and water system valves have obtained 10 national invention patents and 30 utility model patents, of

which 10 have been recognized as provincial industrial new products. The company has undertaken the task of national and industrial standard revision for multiple times, of which, 13 revised standards have been approved and issued by the National Standardization Committee and the Ministry of Industry and Information Technology of China.

The core products of the company in the water conservancy and water industry include: large-diameter offset hemisphere valves, large-diameter butterfly valves, and water control valves; while in the petrochemical industry, it offers fully welded ball valves, gate valves, globe valves, check valves, butterfly valves, and control valves for oil and gas pipelines. The products have successively obtained special equipment manufacturing licenses (Level-A1, A2, B), ISO9001, ISO14001, ISO45001, API6D, API600, API602, API607, CE/PED, SIL, etc. Teji Valve Group is capable in not only factory design and production, but also excellent and efficient valve technology solutions provided for the water conservancy and water industry.

The company has always been adhering to the business philosophy of "mutual benefit, common development", the management concept of "excellence pursuit, continuous innovation, and honest service", and the goal of "ranking top among industrial brands in the world", aiming to vigorously build up a technology-oriented, innovative, and modern group company.



QUALITY ASSURANCE

Leading the
Global Valve Industry.

To improve product quality, the company has introduced advanced testing equipment and comprehensive testing systems. It has fostered a management team that strictly controls product quality from raw material inspection, production process testing, to the product and application process.



QUALIFICATION CERTIFICATE

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	Certificate of Authority to use the Official API Monogram
	License Number: 609-0264
	ORIGINAL
	<p>The American Petroleum Institute hereby grants to:</p> <p>TEJI VALVE GROUP CO., LTD. # 468 Zhangba Bai Road, He'er Village Donggou Street, Yongjia County Wenzhou, Zhejiang People's Republic of China</p>
<p>American Petroleum Institute</p>	<p>the right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1* and API-609 and in accordance with the provisions of the License Agreement.</p>
	<p>In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: 609-0264</p> <p>The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.</p> <p>The scope of this license includes the following: Butterfly Valves - Category B</p>
	<p>GMS Exclusions: Servicing</p> <p>Effective Date: MAY 18, 2023 Expiration Date: AUGUST 27, 2025</p> <p>To verify the authenticity of this license, go to www.api.org/compositestill.</p> <p><i>Anchal Liddar</i> Senior Vice President of Global Industry Services</p>

The image is a formal certificate from the American Petroleum Institute (API) Monogram program. It features a large diamond-shaped API monogram logo on the left. The main text is in a clean, sans-serif font. The certificate identifies the licensee as TEJI VALVE GROUP CO., LTD., located at # 468 Zhangbaolai Road, Weirui Village, Dongpou Street, Wenzhou City, Zhejiang Province, People's Republic of China. It states that the company is authorized to use the API Monogram on its manufactured products under specific conditions. The certificate includes the date of issuance (August 27, 2025) and the expiration date (August 27, 2025). It also lists the scope of the license as Metal Ball Valves and mentions GMS Exclusions for Servicing. The certificate is signed by Rachel Liddar, Senior Vice President of Global Industry Services, and includes a URL for verification: www.api.org/compositest.

Certificate of Authority to use the Official API Monogram
License Number: 608-0074 **ORIGINAL**

The American Petroleum Institute hereby grants to
TEJI VALVE GROUP CO., LTD.
468 Zhangbaolai Road, Weirui Village Dongpou Street, Wenzhou City
Wenzhou, Zhejiang
People's Republic of China

the right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1* and **API-608** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: **608-0074**

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

The scope of this license includes the following: **Metal Ball Valves**

GMS Exclusions: Servicing

Effective Date: MAY 18, 2023
Expiration Date: AUGUST 27, 2025

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Rachel Liddar
Senior Vice President of Global Industry Services




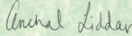
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	ORIGINAL
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	In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: 594-0055
	The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram from any manufacturer on the Board of Directors of the American Petroleum Institute.
	The scope of this license includes the following: Check Valves - Type A
	QMS Exclusions: Servicing
	Effective Date: MAY 18, 2023 Expiration Date: AUGUST 27, 2025
	To verify the authenticity of this license, go to www.api.org/compositall .
	Senior Vice President of Global Industry Services

Certificate of Authority to use the Official API Monogram	
License Number: 6D-0748	ORIGINAL
The American Petroleum Institute hereby grants to: TEJI VALVE GROUP CO., LTD. #468 Zhanghao Bei Road, He'er Yilage Dongqoo Street, Yongjia County Wenzhou, Zhejiang People's Republic of China	
the right to use the Official API Monogram® on manufactured products under the conditions in the publications of the American Petroleum Institute entitled API Spec Q1* and API-6D and in accordance with the provisions of the License Agreement.	
In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: 6D-0748	
The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.	
The scope of this license includes the following: Gate Valves, Ball Valves, Check Valves	
QMS Exclusions: Servicing	
Effective Date: JUNE 1, 2022 Expiration Date: AUGUST 27, 2025	
<i>Anchel Linder</i> Senior Vice President of Global Industry Services	
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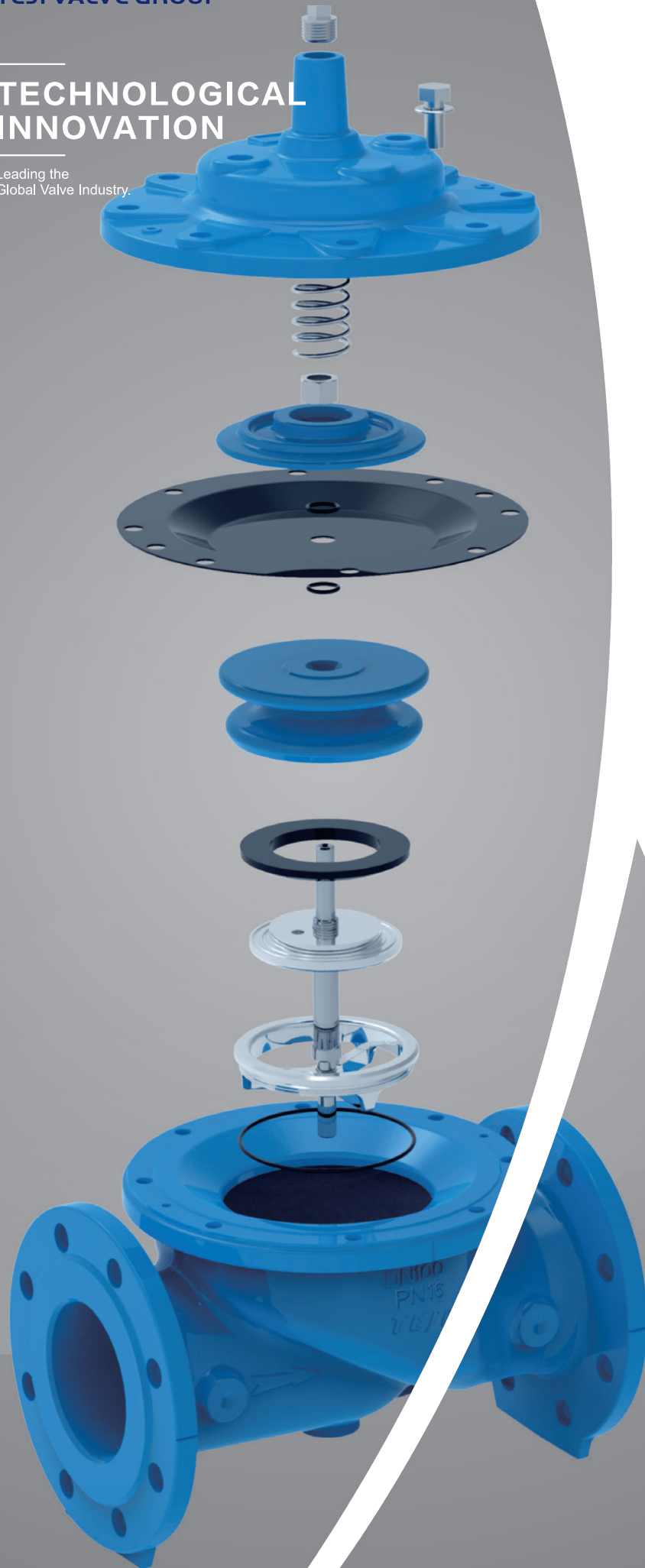
	Certificate of Authority to use the Official API Monogram License Number: 600-0288
 American Petroleum Institute <small>1518-111</small>	<p>ORIGINAL</p> <p>The American Petroleum Institute hereby grants to</p> <p>TEJI WANG GROUP CO., LTD. # 468 Zhangbao Bei Road, He'er City Donggou Street, Yongjia County Wenzhou, Zhejiang People's Republic of China</p> <p>the right to use the Official API Monogram™ on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1 and API-600 and in accordance with the provisions of the License Agreement.</p> <p>In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: 600-0288</p> <p>The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.</p> <p>The scope of this license includes the following: Boiled Bonnet Steel Gate Valves</p> <p>QMS Exclusions: Servicing</p> <p>Effective Date: JUNE 1, 2022 Expiration Date: AUGUST 27, 2025</p> <p>To verify the authenticity of this license, go to www.api.org/competitelt ➞</p> <p><i>Michael Linder</i> Senior Vice President of Global Industry Services</p>

	Certificate of Authority to use the Official API Monogram
	License Number: 602-0097
	ORIGINAL
	The American Petroleum Institute hereby grants to TEJI VALVE GROUP CO., LTD. # 68 Zhangbao Lei Road, He'er Village Donggou Street, Yongjia County Wenzhou, Zhejiang People's Republic of China
	the right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1® and API-602 and in accordance with the provisions of the License Agreement.
American Petroleum Institute	It is all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: 602-0097
	The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.
	The scope of this license includes the following: Gate Valves – DN 100 (NPS 4) and Smaller, Globe Valves – DN 100 (NPS 4) and Smaller, Gate Valves – DN 100 (NPS 4) and Smaller
	QMS Exclusions: Servicing
	Effective Date: JULY 7, 2022 Expiration Date: AUGUST 27, 2025
2019-01	To verify the authenticity of this license, go to www.api.org/composelists 
	 Rachel Liddar Deputy Vice President of Global Industry Services

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TECHNOLOGICAL INNOVATION

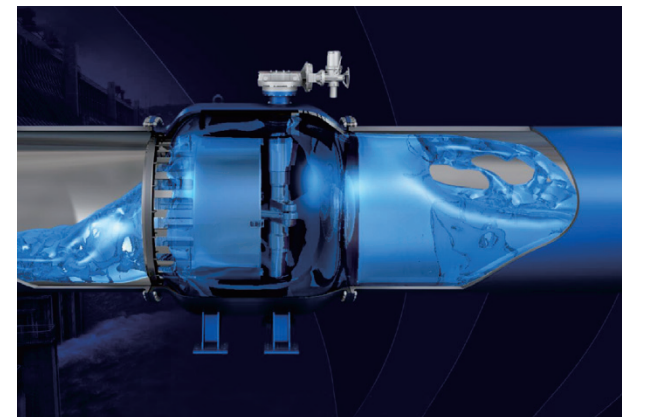
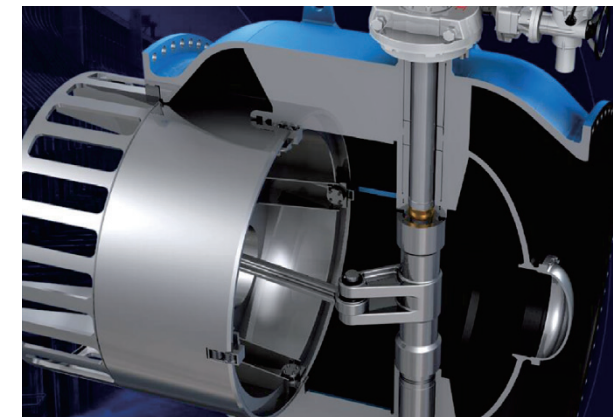
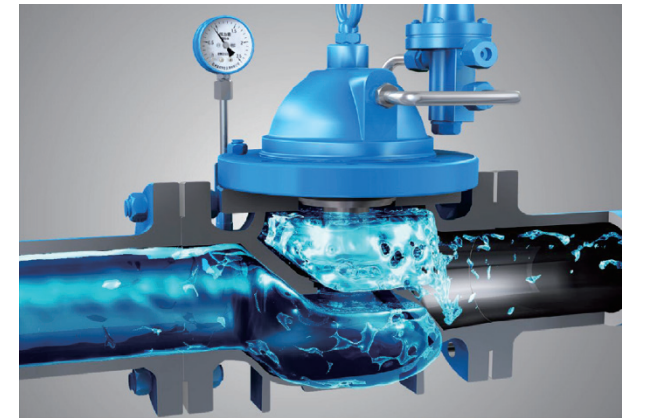
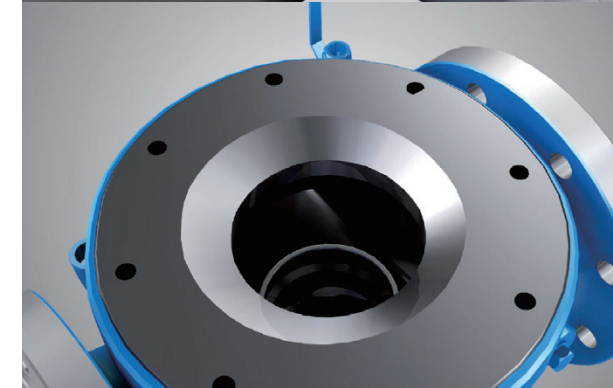
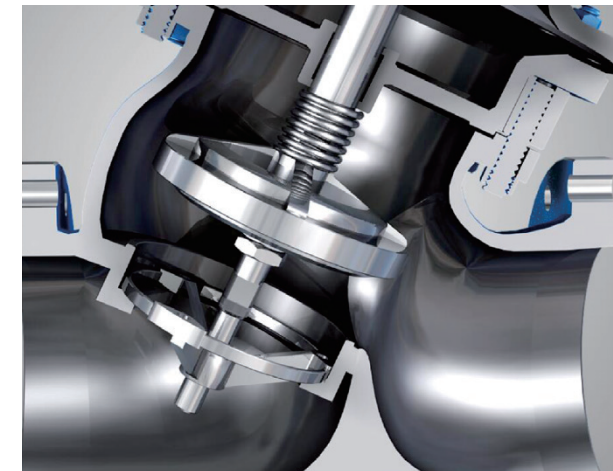
Leading the
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Leading the global valve industry.

The advanced computer simulation analysis technology is adopted to analyze the stress, temperature, flow, and other parameters of the valves and their distributions, and evaluate the valve service performance under corresponding working

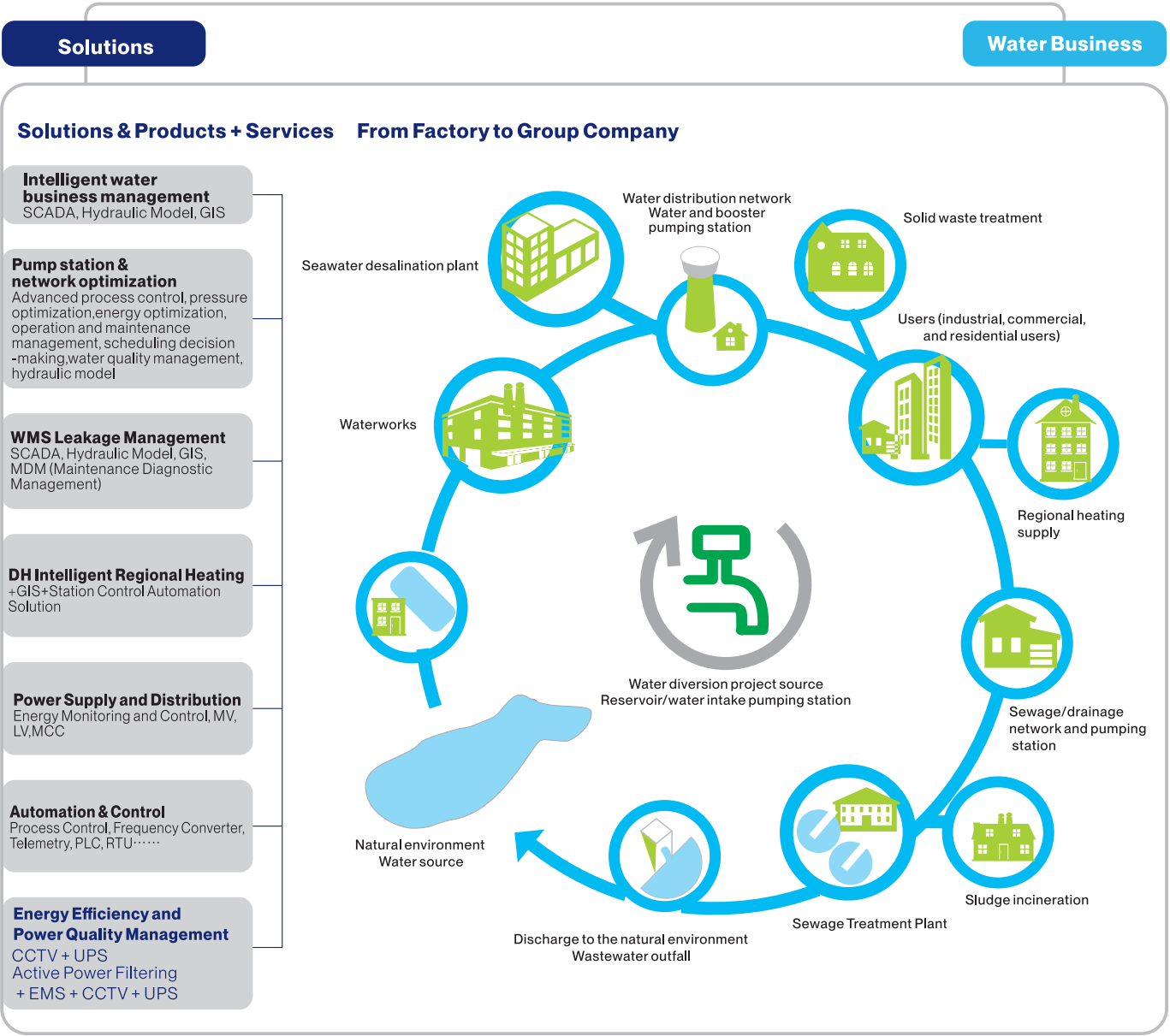
conditions, optimize and address problems regarding valve application, thus protecting the product performance from the very beginning and maximize the value delivery to customers.



OVERALL SOLUTION OF
SMART VALVES

Leading the
Global Valve Industry.

We are the global technology leader
From the bottom to the top, covering the entire water cycle process



Customer value

Teji Valve Group can provide intelligent water network solutions covering production control, operation scheduling and enterprise management applications

Increase operational efficiency by up to 20%

Reduce energy consumption by up to 30%, reduce leakage by 5-30%

Reduce overall costs by 20%

Intelligent water management solution helps control, manage and optimize the water infrastructural facilities

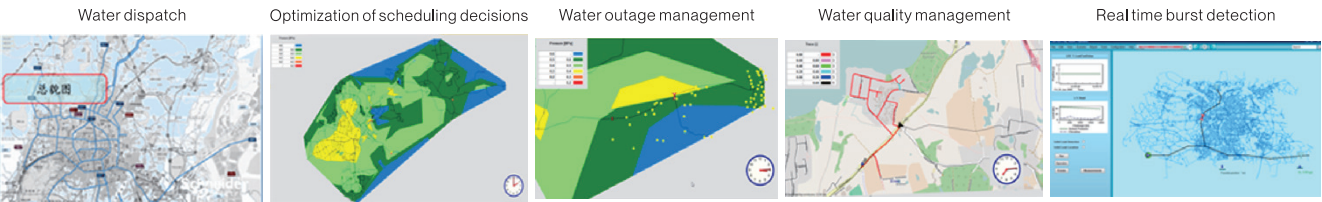
Leakage management



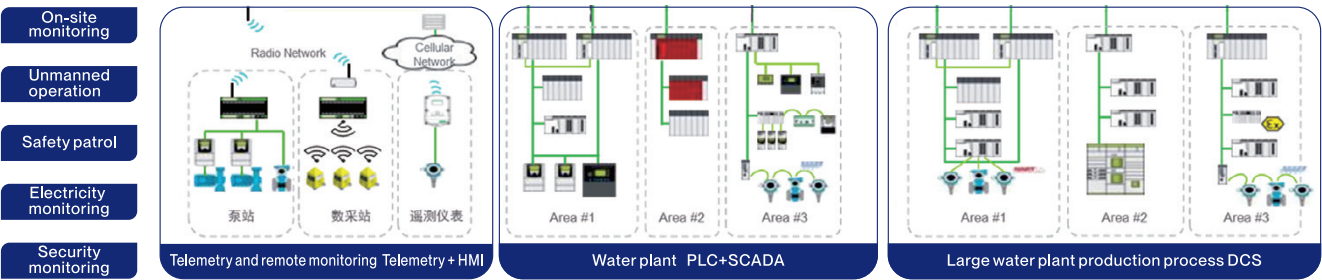
Energy consumption management



Production and operation management platform



Centralized control and scheduling platform/database



SERVICE

- Energy audit
- Data analysis
- Upgrade and maintenance
- Energy use and procurement recommendations
- Planning and design
- Operation and maintenance support
- Demand investigation
- System integration

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Leading the
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◆ OVERVIEW OF WATER CONTROL VALVES

○ OVERVIEW

Hydraulic control valve is composed of a main valve and its external needle valve, pilot valve, etc., and used together.The function and place have evolved into remote control float ball valve, fixed level valve, pressure reducing valve, slow closing check valve,flow control valve, pressure relief valve, water hammer relief valve, electric control valve, pressure difference control valve.The main valve is composed of body,

diaphragm, stem assembly and seat and other main parts. Hydraulic control valve is generally diaphragm type, the caliber provided by our company is DN40-DN600mm using diaphragm type.Products are widely used in water treatment engineering, water transmission engineering, pipe network system, industrial water.

○ CHARACTERISTIC

1. High performance and high quality material combination to meet different industry standards
2. High performance anti-corrosion coating and stainless steel connector
3. High stability of the internal material selection
4. Low flow of high stability control design
5. High induction, high sensitivity of the disc diaphragm
6. High precision seismic pressure gauge configuration

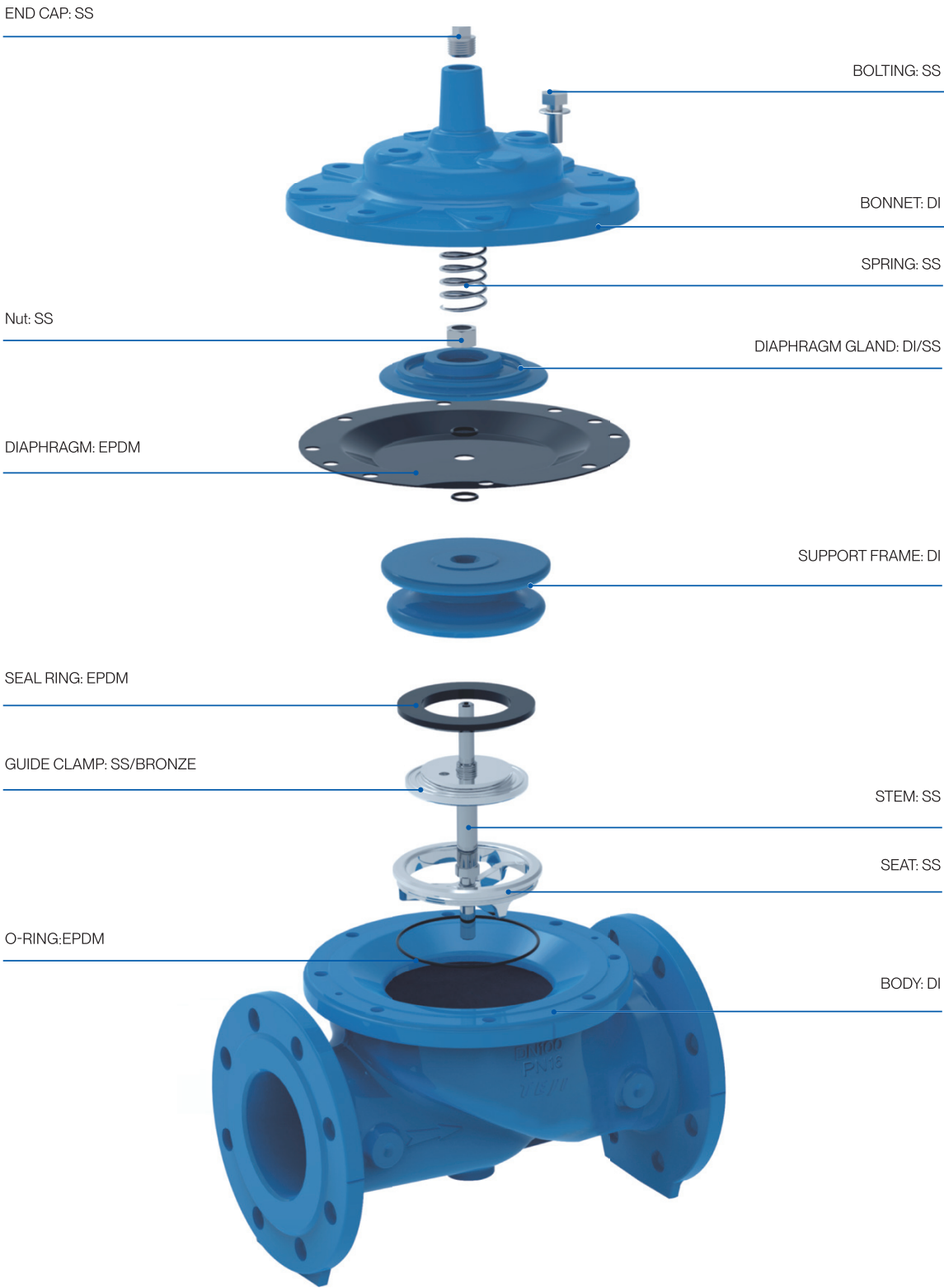
7. Self-cleaning built-in filter
8. High performance, high sensitivity, high stability of stainless steel guide valve
9. Easy to disassemble the control pipeline
10.100% test qualified
11. Professional lifting design is easy to install
12. Easy to learn easy to install, debug and maintenance instructions

○ MATERIAL OF MAIN PARTS

NO.	Parts	Material	Standard
1	Body	DI	EN-JS1040
2	Seat	SS	AISI 304
3	O-ring	Rubber	NBR
4	O-ring	Rubber	NBR
5	Bolting	SS	A2
6	Gasket	SS	A2
7	Bonnet	DI	EN-JS1040
8	Shaft sleeve	LEAD	CZ 122
9	Spring	SS	AISI 304
10	Nut	SS	A2
11	laphragm	Rubber	NBR
12	Diaphragm gland	DI	EN-JS1040
13	Pin	SS	AISI 304
14	Support frame	DI	EN-JS1040
15	Seal ring	Rubber	NBR
16	Guide clamp	SS	AISI 304
17	Stem	SS	AISI 304
18	Plug screw	SS	AISI 304

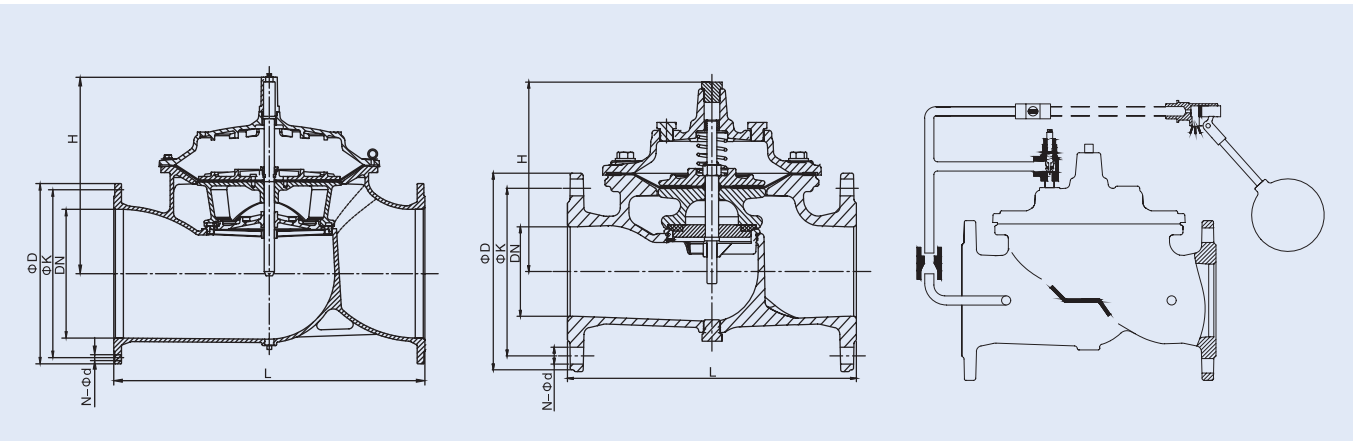
NO.	Parts	Material	Standard
1	Body	DI	GJS 500-7
2	Seat	Copper alloy	C37710
3	O-ring	Rubber	NBR
4	Screw	SS	A2
5	Gasket	SS	A2
6	Bolting	SS	A2-70
7	Bonnet	DI	GJS 500-7
8	Shaft sleeve	Copper alloy	C37710
9	Thrust nut	SS	AISI 304
10	Thrust bearing	SS	AISI 304
11	Diaphragm	EPDM+Nylon	EPDM+Nylon Fabric
12	Diaphragm galnd	DI	GJS 500-7
13	Pin	SS	AISI 304
14	Support frame	DI	GJS 500-7
15	Seal ring	Rubber	EPDM
16	Guide clamp	DI	GJS 500-7
17	Stem	SS	AISI 304
18	End cap	SS	AISI 304
19	O-ring	Rubber	NBR
20	Top cap	SS	AISI 304
21	End cap	SS	AISI 304

◆ MAIN VALVE PARTS



T100 REMOTE CONTROL FLOATING BALL VALVE

It is suitable for the water inlet of the pool or the elevated water tower.



○ MAIN EXTERNAL AND CONNECTING DIMENSIONS

UNIT: mm

DN	L	H	Φ D				Φ K				N-Φ d			
			PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40
40	230	139	150				110				4-Φ 19			
50	230	139	165				125				4-Φ 19			
65	290	159	185				145				4-Φ 19		8-Φ 19	
80	310	179	200				160				8-Φ 19			
100	350	214	220		235		180		190		8-Φ 19		8-Φ 23	
125	400	275	250		270		210		220		8-Φ 19		8-Φ 28	
150	480	333	285		300		240		250		8-Φ 23		8-Φ 28	
200	600	407	340		360	375	295		310	320	8-Φ 23	12-Φ 23	12-Φ 28	12-Φ 31
250	730	476	405		425		350	355	370		12-Φ 23	12-Φ 28	12-Φ 31	
300	850	526	460		485		400	410	430		12-Φ 23	12-Φ 28	16-Φ 31	
350	980	580	520		555		460	470	490		16-Φ 23	16-Φ 28	16-Φ 34	

○ MAIN EXTERNAL AND CONNECTING DIMENSIONS

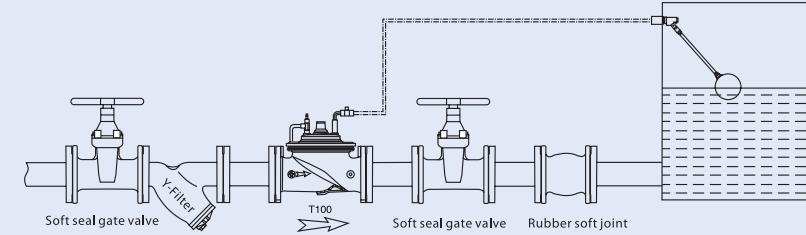
UNIT: mm

DN	L	H	Φ D		Φ K		N-Φ d	
			PN10	PN16	PN10	PN16	PN10	PN16
400	1100	670	580		515		16-Φ28	
500	1250	790	670		620		20-Φ28	
600	1450	930	780		725		20-Φ31	

Note: This product structure length conforms to JB/T 10674 standard.

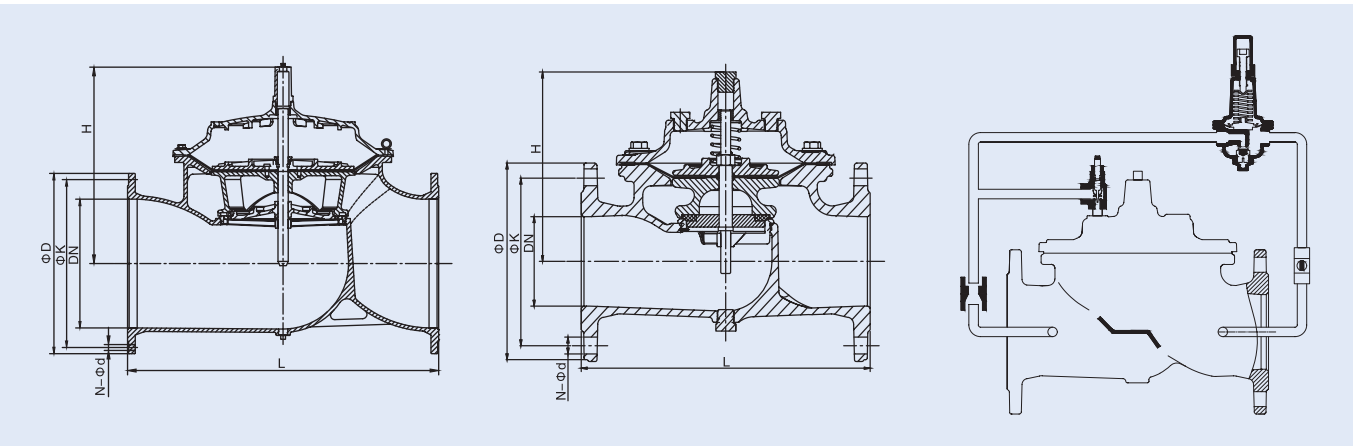
○ FEATURE

- 1. Through the liquid level rise or fall to close or open the pipeline.
- 2. Manually turn off or open.
- 3. Can be installed solenoid valve to achieve remote control of opening and closing.



T200 PRESSURE REDUCING AND STABILIZING VALVE

Suitable for civil buildings, petroleum, chemical, water plants and other water supply, fire and air conditioning system.



MAIN EXTERNAL AND CONNECTING DIMENSIONS

UNIT: mm

DN	L	H	Φ D				Φ K				N-Φ d			
			PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40
40	230	139	150				110				4-Φ19			
50	230	139	165				125				4-Φ19			
65	290	159	185				145				4-Φ19		8-Φ19	
80	310	179	200				160				8-Φ19			
100	350	214	220		235		180		190		8-Φ19		8-Φ23	
125	400	275	250		270		210		220		8-Φ19		8-Φ28	
150	480	333	285		300		240		250		8-Φ23		8-Φ28	
200	600	407	340		360	375	295		310	320	8-Φ23	12-Φ23	12-Φ28	12-Φ31
250	730	476	405		425		350	355	370		12-Φ23	12-Φ28	12-Φ31	
300	850	526	460		485		400	410	430		12-Φ23	12-Φ28	16-Φ31	
350	980	580	520		555		460	470	490		16-Φ23	16-Φ28	16-Φ34	

MAIN EXTERNAL AND CONNECTING DIMENSIONS

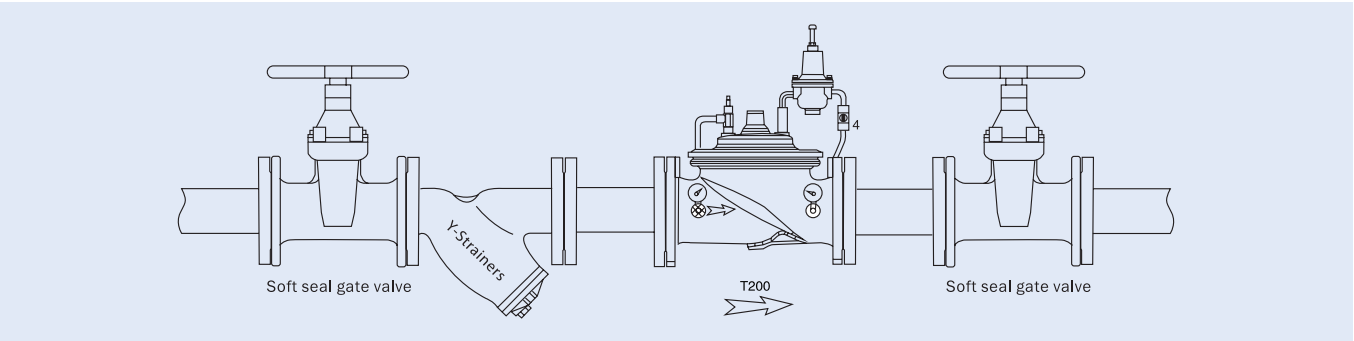
UNIT: mm

DN	L	H	Φ D		Φ K		N-Φ d	
			PN10	PN16	PN10	PN16	PN10	PN16
400	1100	670	580		515	525	16-Φ28	16-Φ31
500	1250	790	670	715	620	650	20-Φ28	20-Φ34
600	1450	930	780	840	725	770	20-Φ31	20-Φ37

Note: This product structure length conforms to JB/T 10674 standard.

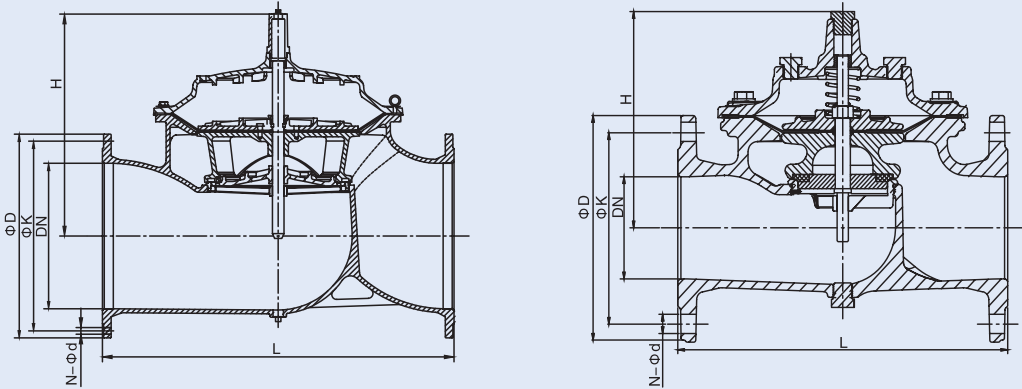
FEATURE

- 1. Reduce the high pressure at the inlet end of the pipeline to a stable set outlet pressure.
- 2. Distribute the main line of different pressures equally to the back end pipeline.



T205 PRESSURE REDUCING AND HOLDING VALVE

Suitable for civil buildings, petroleum, chemical, water plants and other water supply, fire and air conditioning system.



MAIN EXTERNAL AND CONNECTING DIMENSIONS

UNIT: mm

DN	L	H	Φ D				Φ K				N-Φ d			
			PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40
40	230	139	150				110				4-Φ 19			
50	230	139	165				125				4-Φ 19			
65	290	159	185				145				4-Φ 19		8-Φ 19	
80	310	179	200				160				8-Φ 19			
100	350	214	220		235		180		190		8-Φ 19		8-Φ 23	
125	400	275	250		270		210		220		8-Φ 19		8-Φ 28	
150	480	333	285		300		240		250		8-Φ 23		8-Φ 28	
200	600	407	340		360	375	295		310	320	8-Φ 23	12-Φ 23	12-Φ 28	12-Φ 31
250	730	476	405		425		350	355	370		12-Φ 23	12-Φ 28	12-Φ 31	
300	850	526	460		485		400	410	430		12-Φ 23	12-Φ 28	16-Φ 31	
350	980	580	520		555		460	470	490		16-Φ 23	16-Φ 28	16-Φ 34	

MAIN EXTERNAL AND CONNECTING DIMENSIONS

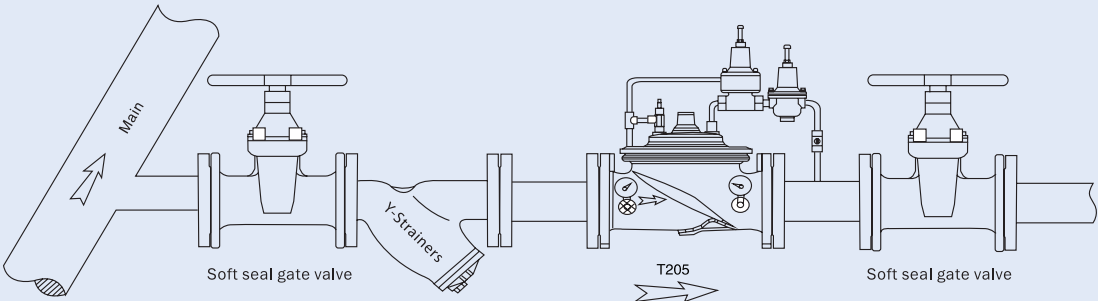
UNIT: mm

DN	L	H	Φ D		Φ K		N-Φ d	
			PN10	PN16	PN10	PN16	PN10	PN16
400	1100	670	580		515	525	16-Φ 28	16-Φ 31
500	1250	790	670	715	620	650	20-Φ 28	20-Φ 34
600	1450	930	780	840	725	770	20-Φ 31	20-Φ 37

Note: This product structure length conforms to JB/T 10674 standard.

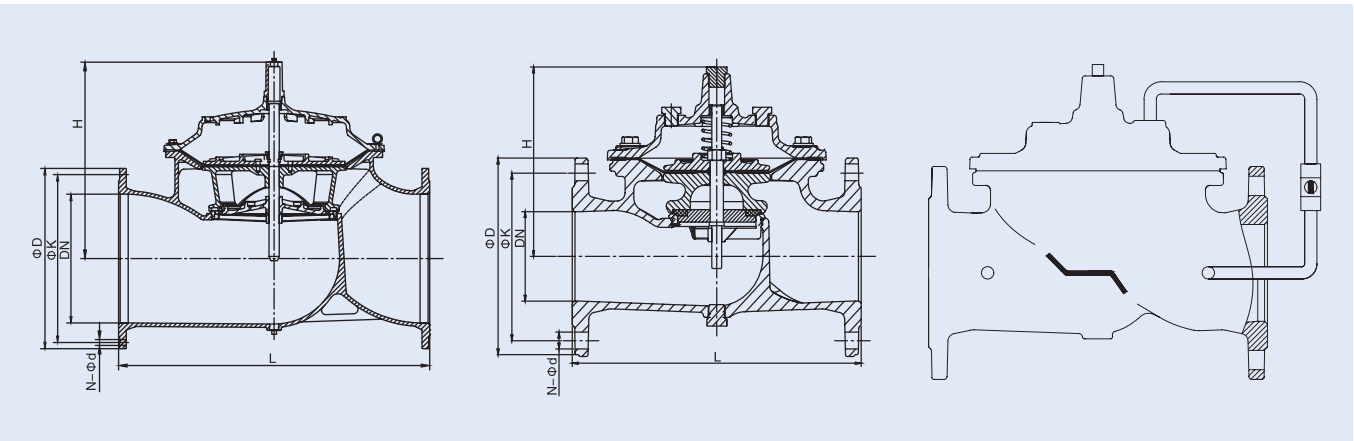
FEATURE

1. When giving priority to ensuring the minimum water supply pressure of the front end high-pressure pipeline, provide low pressure to the backend pipe network and protect the backend low-pressure pipe network from the excess pressure impact of the front-end high-pressure pipe network.
2. Maintain the minimum pressure at the pump outlet and provide a stable pressure of the back-end pipe network.



T300 SLOW CLOSING CHECK VALVE

It is suitable for the pump outlet of the water supply network system to prevent the impact of water hammer on the pipeline.



○ MAIN EXTERNAL AND CONNECTING DIMENSIONS

UNIT: mm

DN	L	H	Φ D				Φ K				N-Φ d			
			PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40
40	230	139	150				110				4-Φ 19			
50	230	139	165				125				4-Φ 19			
65	290	159	185				145				4-Φ 19		8-Φ 19	
80	310	179	200				160				8-Φ 19			
100	350	214	220		235		180		190		8-Φ 19		8-Φ 23	
125	400	275	250		270		210		220		8-Φ 19		8-Φ 28	
150	480	333	285		300		240		250		8-Φ 23		8-Φ 28	
200	600	407	340		360	375	295		310	320	8-Φ 23	12-Φ 23	12-Φ 28	12-Φ 31
250	730	476	405		425		350	355	370		12-Φ 23	12-Φ 28	12-Φ 31	
300	850	526	460		485		400	410	430		12-Φ 23	12-Φ 28	16-Φ 31	
350	980	580	520		555		460	470	490		16-Φ 23	16-Φ 28	16-Φ 34	

○ MAIN EXTERNAL AND CONNECTING DIMENSIONS

UNIT: mm

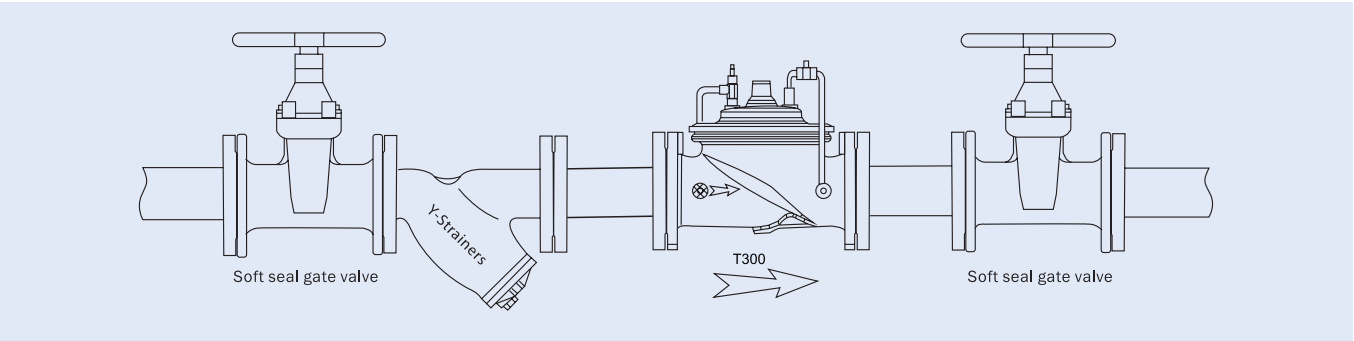
DN	L	H	Φ D		Φ K		N-Φ d	
			PN10	PN16	PN10	PN16	PN10	PN16
400	1100	670	580		515		16-Φ 28	
500	1250	790	670		620		20-Φ 28	
600	1450	930	780		725		20-Φ 31	

Note: This product structure length conforms to JB/T 10674 standard.

○ FEATURE

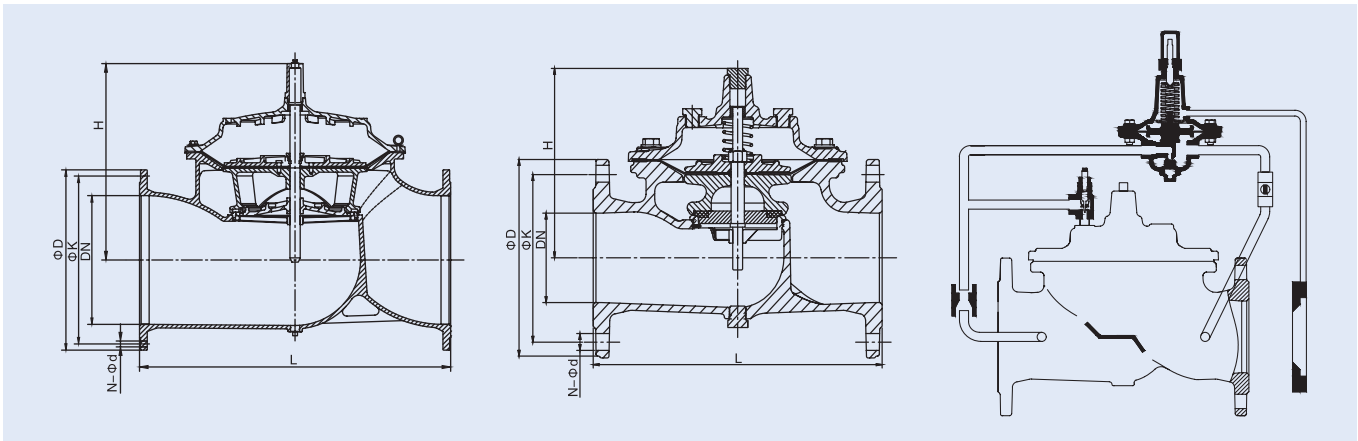
When there is a water hammer at the downstream outlet end, the main valve is quicklyclosed to prevent the downstream water hammer from damaging the upstream pipe network and equipment. At the same time, when the pump starts

the water supply and the pipeline is in a state of no water pressure, the slow closing check valve slowly opens the downstream water supply to reduce the impact of high-speed water flow on the downstream pipeline andequipment.



T400 FLOW CONTROL VALVE

It is suitable for limiting the flow of water supply lines to water tanks, waterworks and gravity flow systems,avoiding peak water consumption and delaying water supply.



MAIN EXTERNAL AND CONNECTING DIMENSIONS

UNIT: mm

DN	L	H	Φ D				Φ K				N-Φ d			
			PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40
40	230	139	150				110				4-Φ 19			
50	230	139	165				125				4-Φ 19			
65	290	159	185				145				4-Φ 19		8-Φ 19	
80	310	179	200				160				8-Φ 19			
100	350	214	220		235		180		190		8-Φ 19		8-Φ 23	
125	400	275	250		270		210		220		8-Φ 19		8-Φ 28	
150	480	333	285		300		240		250		8-Φ 23		8-Φ 28	
200	600	407	340		360	375	295		310	320	8-Φ 23	12-Φ 23	12-Φ 28	12-Φ 31
250	730	476	405		425		350	355	370		12-Φ 23	12-Φ 28	12-Φ 31	
300	850	526	460		485		400	410	430		12-Φ 23	12-Φ 28	16-Φ 31	
350	980	580	520		555		460	470	490		16-Φ 23	16-Φ 28	16-Φ 34	

MAIN EXTERNAL AND CONNECTING DIMENSIONS

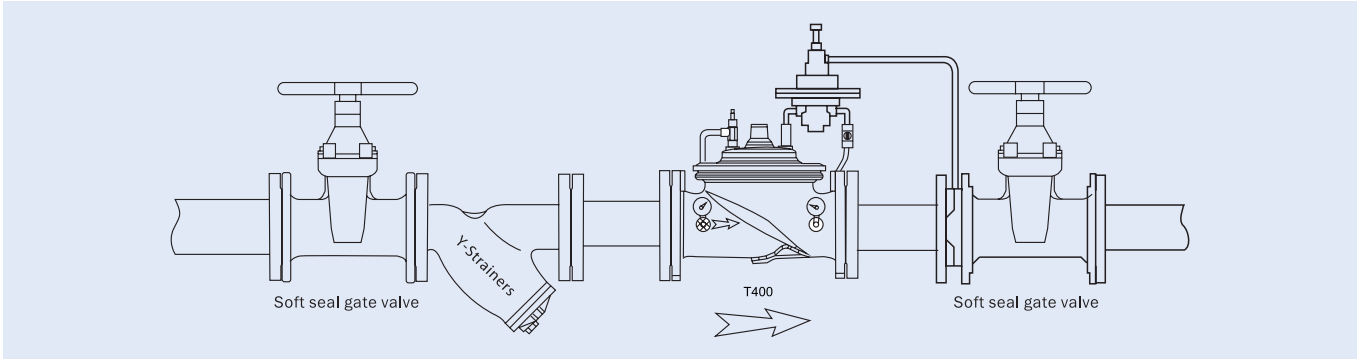
UNIT: mm

DN	L	H	Φ D		Φ K		N-Φ d	
			PN10	PN16	PN10	PN16	PN10	PN16
400	1100	670	580		515	525	16-Φ 28	16-Φ 31
500	1250	790	670	715	620	650	20-Φ 28	20-Φ 34
600	1450	930	780	840	725	770	20-Φ 31	20-Φ 37

Note: This product structure length conforms to JB/T 10674 standard.

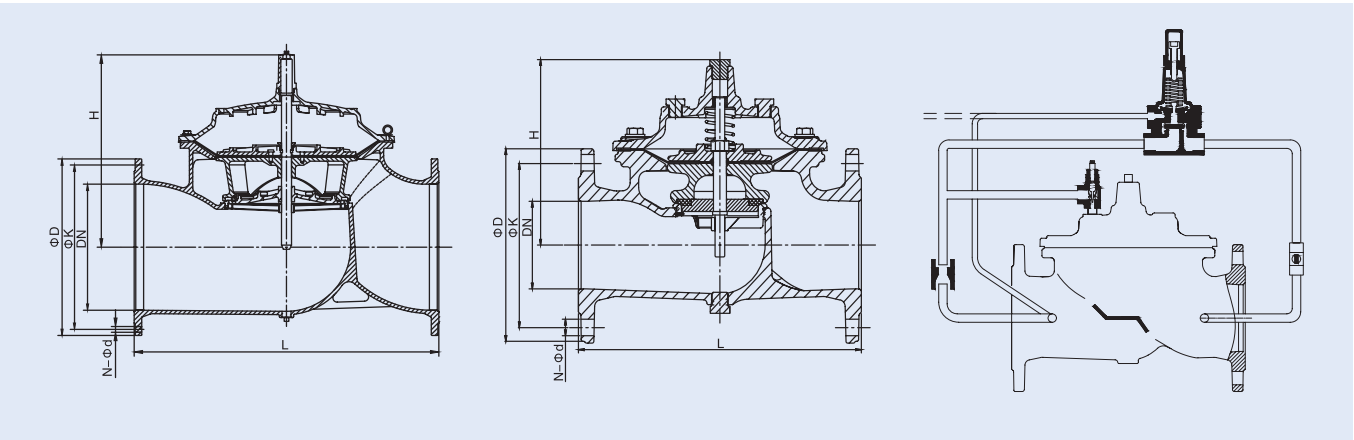
FEATURE

1. Limit the maximum flow of the pipeline does not exceed the set value, and is not affected by upstream and downstream pressure changes.
2. Manually turn off or continue the water supply to balance the pipeline flow.



T500 PRESSURE RELIEF AND HOLDING VALVE

Suitable for high-rise buildings, fire water supply and other water system management road.



MAIN EXTERNAL AND CONNECTING DIMENSIONS

UNIT: mm

DN	L	H	ΦD				ΦK				N-Φd			
			PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40
40	230	139	150				110				4-Φ19			
50	230	139	165				125				4-Φ19			
65	290	159	185				145				4-Φ19		8-Φ19	
80	310	179	200				160				8-Φ19			
100	350	214	220		235		180		190		8-Φ19		8-Φ23	
125	400	275	250		270		210		220		8-Φ19		8-Φ28	
150	480	333	285		300		240		250		8-Φ23		8-Φ28	
200	600	407	340		360	375	295		310	320	8-Φ23	12-Φ23	12-Φ28	12-Φ31
250	730	476	405		425		350	355	370		12-Φ23	12-Φ28	12-Φ31	
300	850	526	460		485		400	410	430		12-Φ23	12-Φ28	16-Φ31	
350	980	580	520		555		460	470	490		16-Φ23	16-Φ28	16-Φ34	

MAIN EXTERNAL AND CONNECTING DIMENSIONS

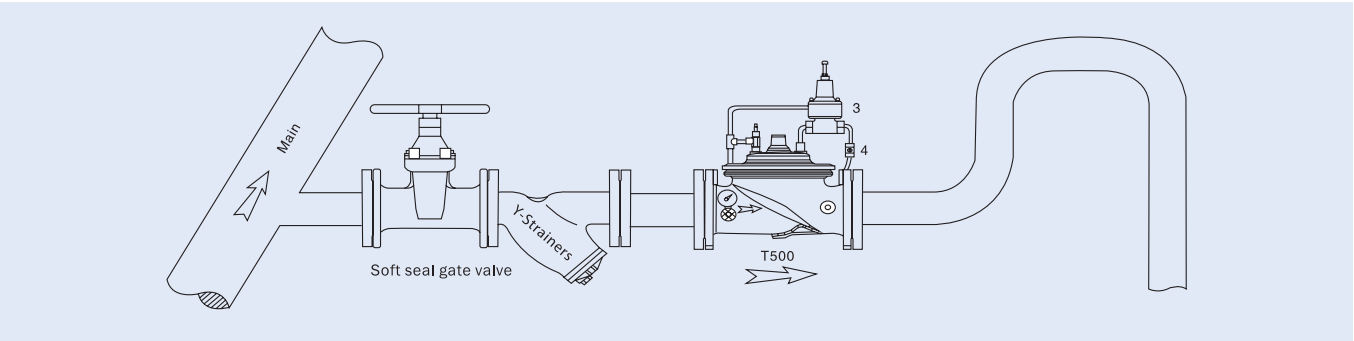
UNIT: mm

DN	L	H	ΦD		ΦK		N-Φd	
			PN10	PN16	PN10	PN16	PN10	PN16
400	1100	670	580		515	525	16-Φ28	16-Φ31
500	1250	790	670	715	620	650	20-Φ28	20-Φ34
600	1450	930	780	840	725	770	20-Φ31	20-Φ37

Note: This product structure length conforms to JB/T 10674 standard.

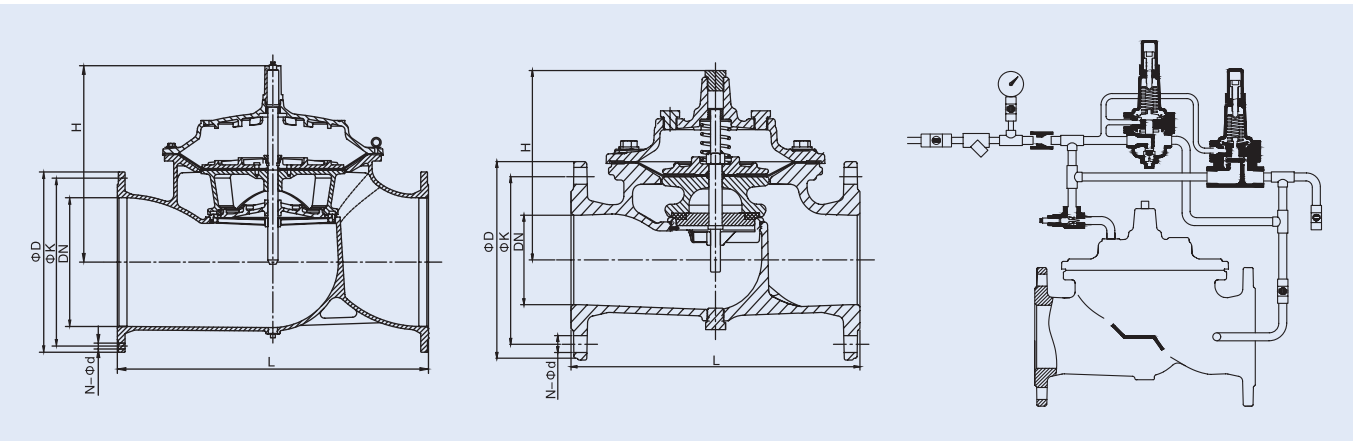
FEATURE

1. When installed in series in the pipeline, maintain the minimum set pressure of the upstream pipe network.
2. The bypass branch pipe pressure relief installation, when the pressure reaches
- theset value, release the excess pressure of the upstream pipeline,reduce or preventsecondarywater shock.



T550 WATER HAMMER RELIEF VALVE

It is suitable for the pumping station system of water works and water diversion projects.



○ MAIN EXTERNAL AND CONNECTING DIMENSIONS

UNIT: mm

DN	L	H	Φ D				Φ K				N-Φ d			
			PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40
40	230	139	150				110				4-Φ 19			
50	230	139	165				125				4-Φ 19			
65	290	159	185				145				4-Φ 19		8-Φ 19	
80	310	179	200				160				8-Φ 19			
100	350	214	220		235		180		190		8-Φ 19		8-Φ 23	
125	400	275	250		270		210		220		8-Φ 19		8-Φ 28	
150	480	333	285		300		240		250		8-Φ 23		8-Φ 28	
200	600	407	340		360	375	295		310	320	8-Φ 23	12-Φ 23	12-Φ 28	12-Φ 31
250	730	476	405		425		350	355	370		12-Φ 23	12-Φ 28	12-Φ 31	
300	850	526	460		485		400	410	430		12-Φ 23	12-Φ 28	16-Φ 31	
350	980	580	520		555		460	470	490		16-Φ 23	16-Φ 28	16-Φ 34	

○ MAIN EXTERNAL AND CONNECTING DIMENSIONS

UNIT: mm

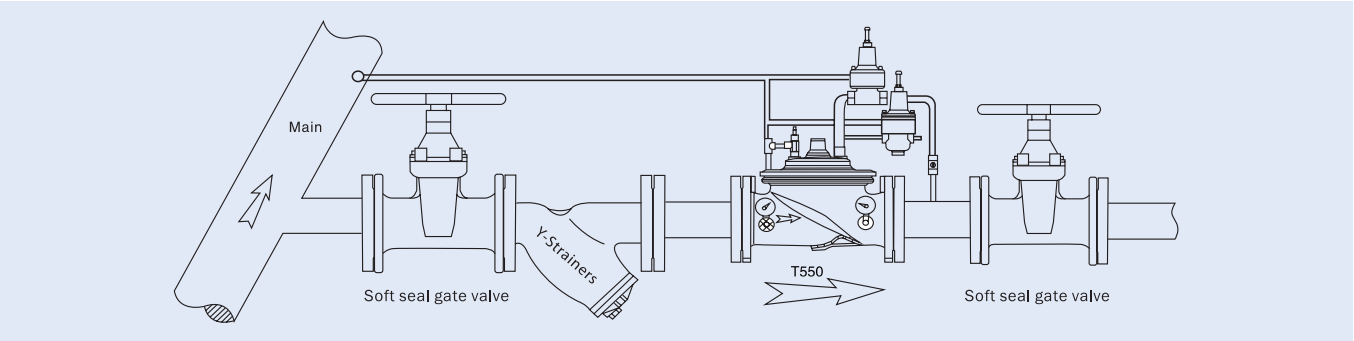
DN	L	H	Φ D		Φ K		N-Φ d	
			PN10	PN16	PN10	PN16	PN10	PN16
400	1100	670	580		515		16-Φ 28	
500	1250	790	670		620		20-Φ 28	
600	1450	930	780		725		20-Φ 31	

Note: This product structure length conforms to JB/T 10674 standard.

○ FEATURE

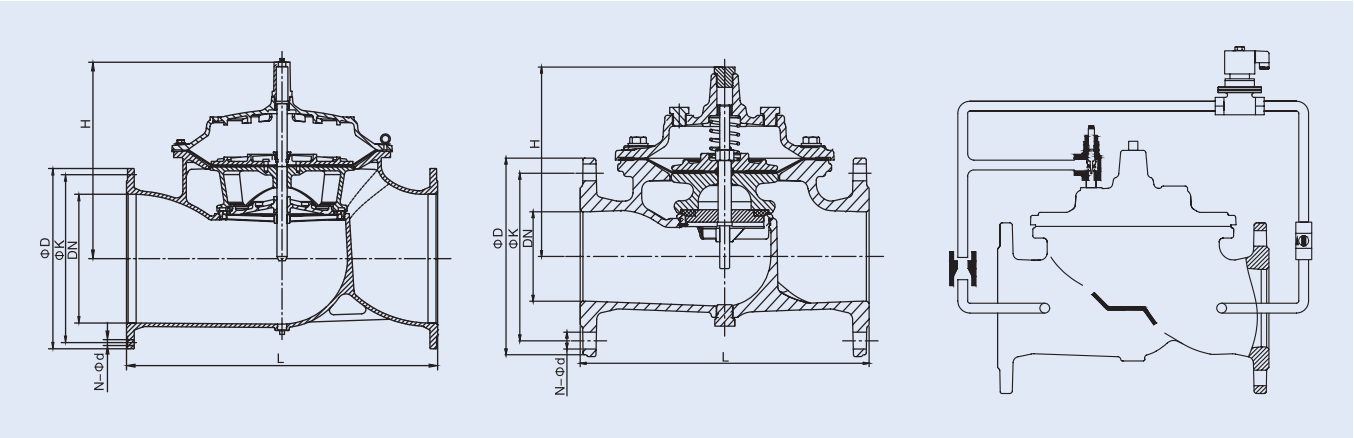
When the pump is shut down or powered off, the water hammer protects the pump network. The main valve is opened to keep the system connected to the outside world and

release the returned pressure wave. When the pump starts, the system gradually pressurizes to the set value, and when the set value is exceeded, the main valve opens to ensure the set pressure value of the pipeline.



T600 ELECTRIC CONTROL VALVE

The valve is widely used in high-rise buildings, living areas and other water supply network systems and urban water supply projects.



○ MAIN EXTERNAL AND CONNECTING DIMENSIONS

UNIT: mm

DN	L	H	Φ D				Φ K				N-Φ d			
			PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40
40	230	139	150				110				4-Φ 19			
50	230	139	165				125				4-Φ 19			
65	290	159	185				145				4-Φ 19		8-Φ 19	
80	310	179	200				160				8-Φ 19			
100	350	214	220		235		180		190		8-Φ 19		8-Φ 23	
125	400	275	250		270		210		220		8-Φ 19		8-Φ 28	
150	480	333	285		300		240		250		8-Φ 23		8-Φ 28	
200	600	407	340		360	375	295		310	320	8-Φ 23	12-Φ 23	12-Φ 28	12-Φ 31
250	730	476	405		425		350	355	370		12-Φ 23	12-Φ 28	12-Φ 31	
300	850	526	460		485		400	410	430		12-Φ 23	12-Φ 28	16-Φ 31	
350	980	580	520		555		460	470	490		16-Φ 23	16-Φ 28	16-Φ 34	

○ MAIN EXTERNAL AND CONNECTING DIMENSIONS

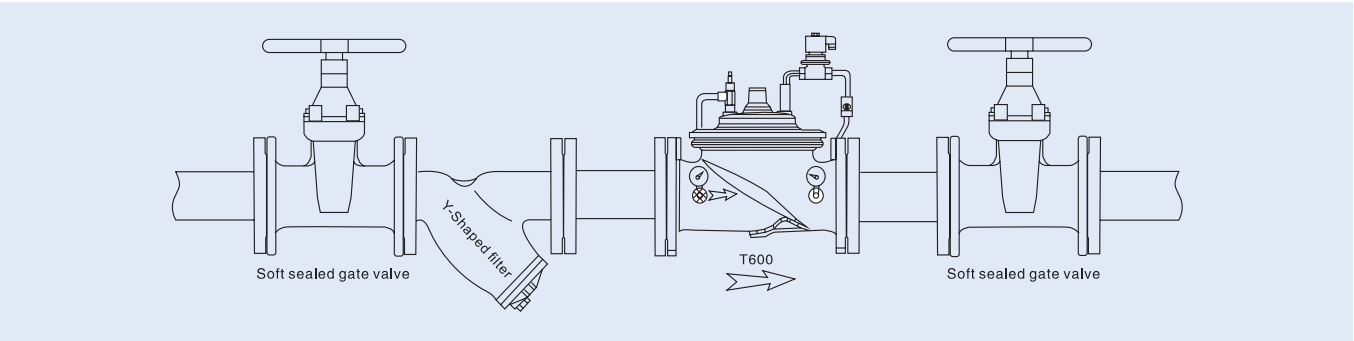
UNIT: mm

DN	L	H	Φ D		Φ K		N-Φ d	
			PN10	PN16	PN10	PN16	PN10	PN16
400	1100	670	580		515		16-Φ 28	
500	1250	790	670		620		20-Φ 28	
600	1450	930	780		725		20-Φ 31	

Note: This product structure length conforms to JB/T 10674 standard.

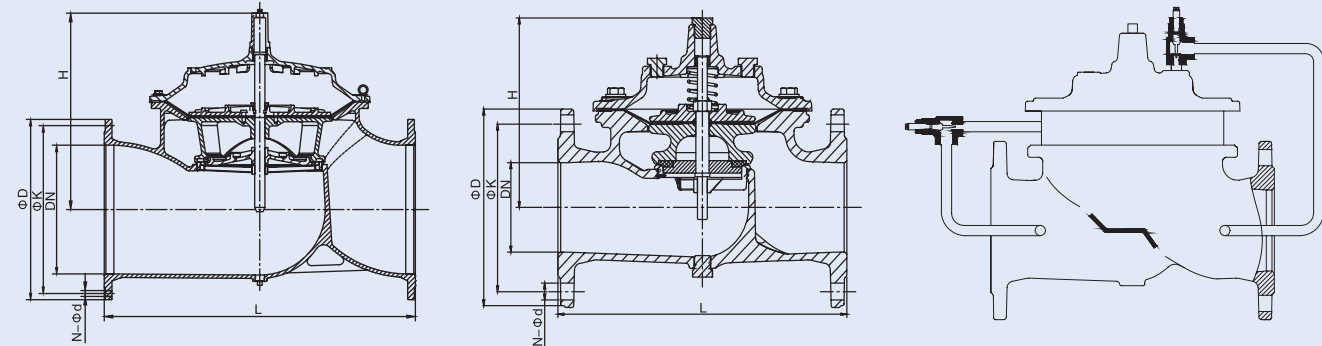
○ FEATURE

1. Remote control pipeline shut down orcontinue to supply water, not affected by import and export pressure. Itcan also be used for level control by transmitting open or close signals using level sensors.
2. When power is off, automatically reset the open (normally open) or closed (normally closed) state.



T700 MULTI FUNCTION WATER PUMP CONTROL VALVE

It is suitable for the pump outlet of large diameter and large flow water supply network system.



MAIN EXTERNAL AND CONNECTING DIMENSIONS

UNIT: mm

DN	L	H	ΦD				ΦK				N-Φd			
			PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40
40	230	139	150				110				4-Φ19			
50	230	139	165				125				4-Φ19			
65	290	159	185				145				4-Φ19		8-Φ19	
80	310	179	200				160				8-Φ19			
100	350	214	220		235		180		190		8-Φ19		8-Φ23	
125	400	275	250		270		210		220		8-Φ19		8-Φ28	
150	480	333	285		300		240		250		8-Φ23		8-Φ28	
200	600	407	340		360	375	295		310	320	8-Φ23	12-Φ23	12-Φ28	12-Φ31
250	730	476	405		425		350	355	370		12-Φ23	12-Φ28	12-Φ31	
300	850	526	460		485		400	410	430		12-Φ23	12-Φ28	16-Φ31	
350	980	580	520		555		460	470	490		16-Φ23	16-Φ28	16-Φ34	

MAIN EXTERNAL AND CONNECTING DIMENSIONS

UNIT: mm

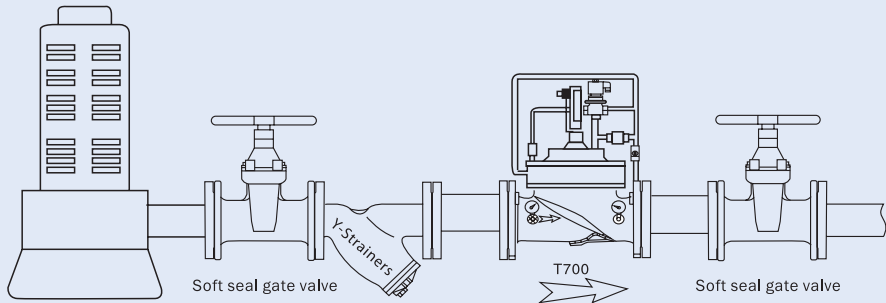
DN	L	H	ΦD		ΦK		N-Φd	
			PN10	PN16	PN10	PN16	PN10	PN16
400	1100	670	580		515		16-Φ28	16-Φ31
500	1250	790	670		620		20-Φ28	20-Φ34
600	1450	930	780		725		20-Φ31	20-Φ37

Note: This product structure length conforms to JB/T 10674 standard.

FEATURE

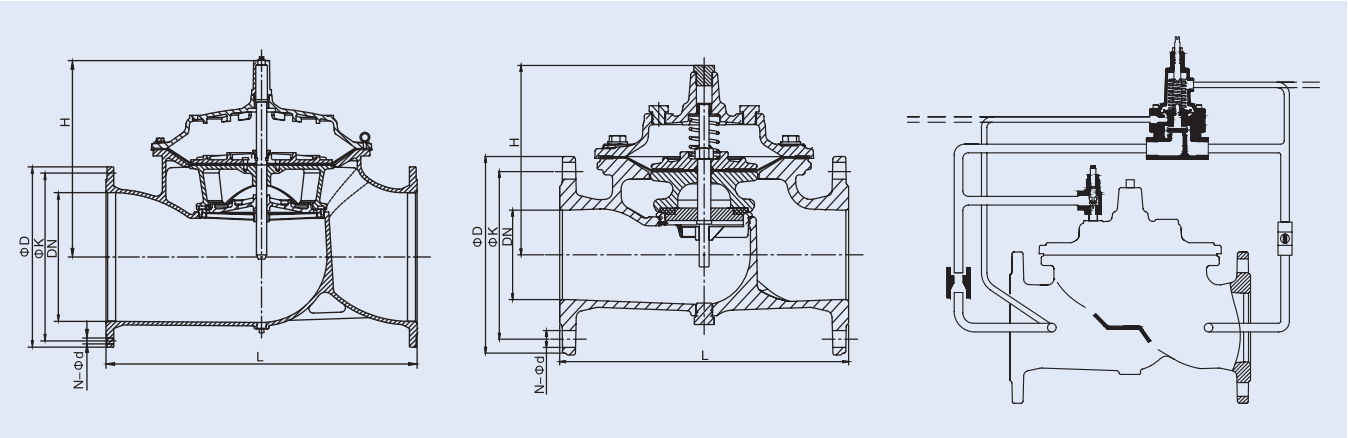
When there is a water hammer at the downstream outlet, 0-85% of the main valve flow is quickly closed, and 85-100% is slowly closed to prevent the downstream water hammer from damaging the upstream pipe network and equipment. When the pump starts, especially when the pump starts the water supply, the valve slowly

opens to the downstream water supply when the pipeline is in a state of no water and no pressure, reducing the impact of high-speed water flow on the downstream pipeline and equipment.



T800 DIFFERENTIAL PRESSURE CONTROL VALVE

The valve is mainly used in construction, water treatment and other industries. Control the pressure difference between any two points in the pipeline at the set value, Unaffected by pressure changes and flow in the pipeline.



○ MAIN EXTERNAL AND CONNECTING DIMENSIONS

UNIT: mm

DN	L	H	Φ D				Φ K				N-Φ d			
			PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40
40	230	139	150				110				4-Φ 19			
50	230	139	165				125				4-Φ 19			
65	290	159	185				145				4-Φ 19		8-Φ 19	
80	310	179	200				160				8-Φ 19			
100	350	214	220		235		180		190		8-Φ 19		8-Φ 23	
125	400	275	250		270		210		220		8-Φ 19		8-Φ 28	
150	480	333	285		300		240		250		8-Φ 23		8-Φ 28	
200	600	407	340		360	375	295		310	320	8-Φ 23	12-Φ 23	12-Φ 28	12-Φ 31
250	730	476	405		425		350	355	370		12-Φ 23	12-Φ 28	12-Φ 31	
300	850	526	460		485		400	410	430		12-Φ 23	12-Φ 28	16-Φ 31	
350	980	580	520		555		460	470	490		16-Φ 23	16-Φ 28	16-Φ 34	

○ MAIN EXTERNAL AND CONNECTING DIMENSIONS

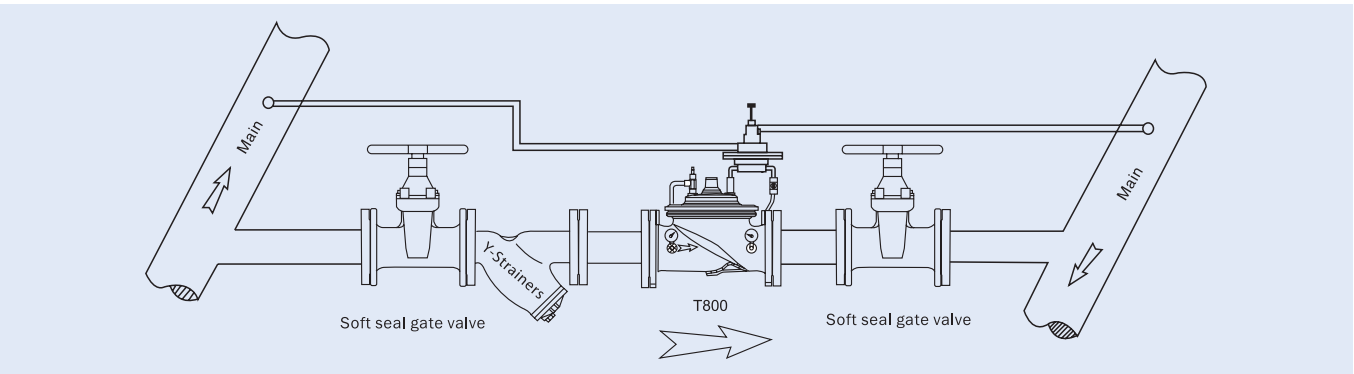
UNIT: mm

DN	L	H	Φ D		Φ K		N-Φ d	
			PN10	PN16	PN10	PN16	PN10	PN16
400	1100	670	580		515		16-Φ28	16-Φ31
500	1250	790	670	715	620	650	20-Φ28	20-Φ34
600	1450	930	780	840	725	770	20-Φ31	20-Φ37

Note: This product structure length conforms to JB/T 10674 standard.

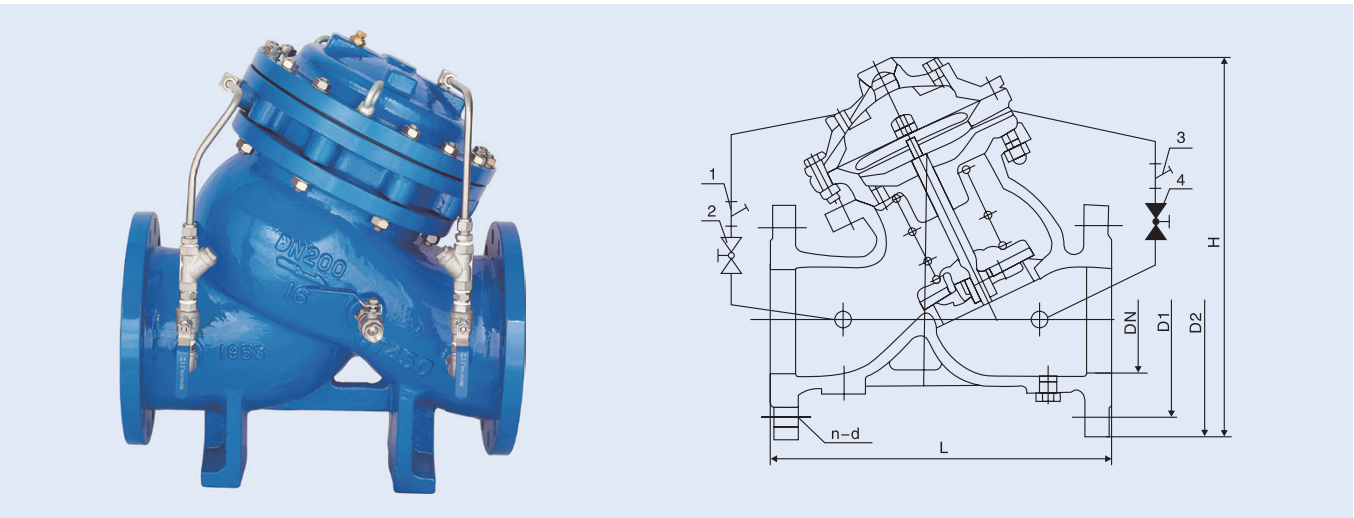
○ FEATURE

Control the pressure difference between any two points in the pipeline at the set value, independent of pressure changes in the pipeline and flow.



JD745X MULTIFUNCTIONAL WATER PUMP CONTROL VALVE

The valve is installed in the pump outlet, can achieve slow opening, full opening, fast closing, slow closing and other functions.



PRODUCT OVERVIEW

The JD745X multifunctional water pump control valve produced by our company is designed and manufactured with reference to imported products and domestic advanced products of the same type. The main use is installed in the high-rise building water supply system and other water supply system of the pump outlet pipe, to prevent the media backflow, to prevent water hammer and water hammer phenomenon, a valve both electric valve, check valve and water hammer fire three functions, can effectively improve the safety and reliability of water supply system.

WORKING PRINCIPLE

When the pump is opened, the inlet pressure acts under the sliding disc, and the inlet pressure also enters the diaphragm through the small ball valve and the small filter on the inlet side, so that the valve is slowly opened to prevent the opening of the pump water hammer. When the pump is stopped, the sliding disc under the action of its own weight and spring, first quickly shut down 90% to prevent water backflow and prevent the production of water hammer, and the remaining 10% is entered into the upper part of the diaphragm by the medium at the outlet end through the small ball valve and the small filter, and the closing speed slows down the production of a buffer stroke to prevent the pressure accumulation and achieve quiet closure.

TECHNICAL PARAMETER

Normal pressure PN(MPa)	Shell test pressure MPa	Seal test pressure MPa	Min operating pressure MPa	Slow closing time	Service	Service(℃)
1.0	1.5	1.1	≥0.04	3-60s(adjustable)	Water	0-80
1.6	2.4	1.76	≥0.04	3-60s(adjustable)	Water	0-80
2.5	3.75	2.75	≥0.04	3-60s(adjustable)	Water	0-80

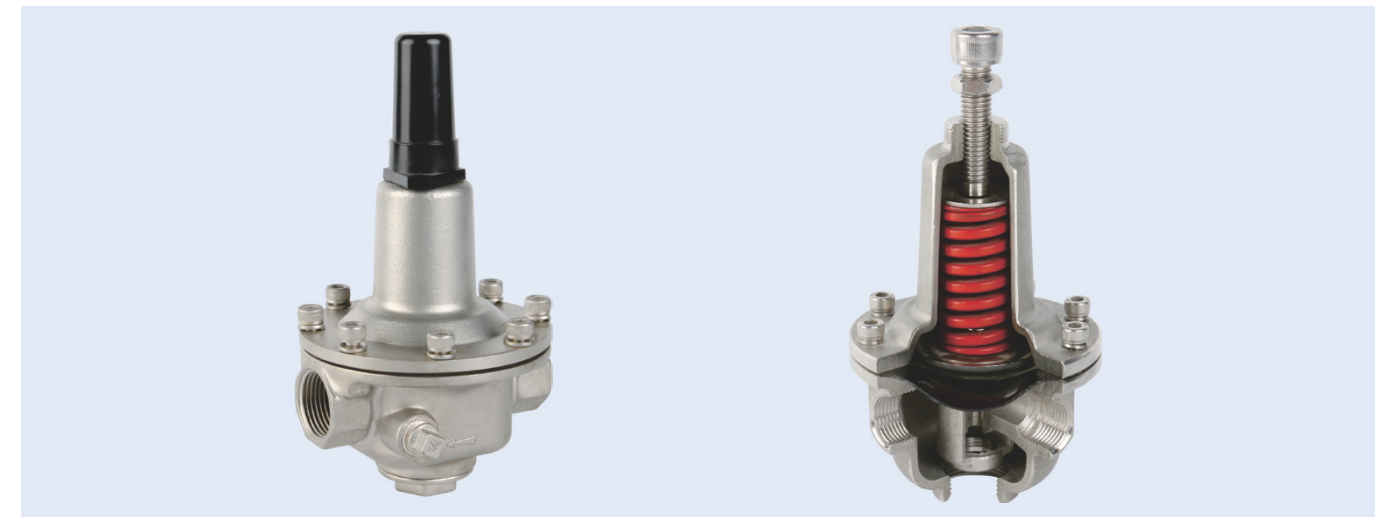
MAIN EXTERNAL AND CONNECTING DIMENSIONS(PN10/16/25)

UNIT: mm

DN	L	H	D			D1			n-d		
			1.0MPa	1.6MPa	2.5MPa	1.0MPa	1.6MPa	2.5MPa	1.0MPa	1.6MPa	2.5MPa
50	205	293	165	165	165	125	125	125	4-18	4-18	4-18
65	215	328	185	185	185	145	145	145	4-18	4-18	8-18
80	250	364	200	200	200	160	160	160	8-18	8-18	8-18
100	320	418	220	220	235	180	180	190	8-18	8-18	8-22
125	365	481	250	250	270	210	210	220	8-18	8-18	8-22
150	388	543	285	285	300	240	240	250	8-22	8-22	8-26
200	450	673	340	340	360	295	295	310	8-22	12-22	8-26
250	540	792	395	405	425	350	355	370	12-22	12-26	12-26
300	600	927	445	460	485	400	410	430	12-22	12-26	12-30
350	635	957	505	520	555	460	470	490	16-22	16-26	16-33
400	700	1188	565	580	620	515	525	550	16-26	26-30	16-36
450	780	1218	615	640	670	565	585	600	20-26	20-30	20-36
500	810	1256	670	715	730	620	650	660	20-26	20-33	22-36
600	900	1600	780	840		725	770		20-30	20-36	
700	980	1750	895	910		840	840		24-30	24-36	
800	1120	1900	1015	1025		950	950		24-33	24-39	
900	1220	2100	1115			1050			28-33		
1000	1320	2400	1230			1160			28-36		

Note: This table does not list the specifications and parameters, please consult our technical department.

D200 PRESSURE REDUCING VALVE



DESIGN AND TEST STANDARDS

ASSE 3001 Pressure reducing valves for water supply networks
En1567 Pressure reducing valves for water - Requirements and tests

SPECIFICATION

Balanced structure design
Large diaphragm size ensures quick response of pressure reducing valve
Special hanging basket stem design to avoid jamming during movement
Mount at any Angle
Easy operation and maintenance

FEATURE

The D200 pressure reducing valve automatically converts the higher inlet pressure of the pipeline into a lower outlet pressure, and keeps it relatively stable; Regardless of changes in pipeline flow and inlet pressure. In normal use, the ratio between the

change of outlet pressure and the change of inlet pressure is less than 0.1 after the valve is set, the pressure can be adjusted by adjusting screws. When there is no user water at the outlet, the valve is closed to achieve static pressure seal.

SPECIFICATION

Inch: 3/8"-2"
Type: Direct acting
Interface: PT/NPT
Material: 304/316/Bronze
Medium: water
Operating temperature: 0-80°C
Pressure rating: PN10, PN16

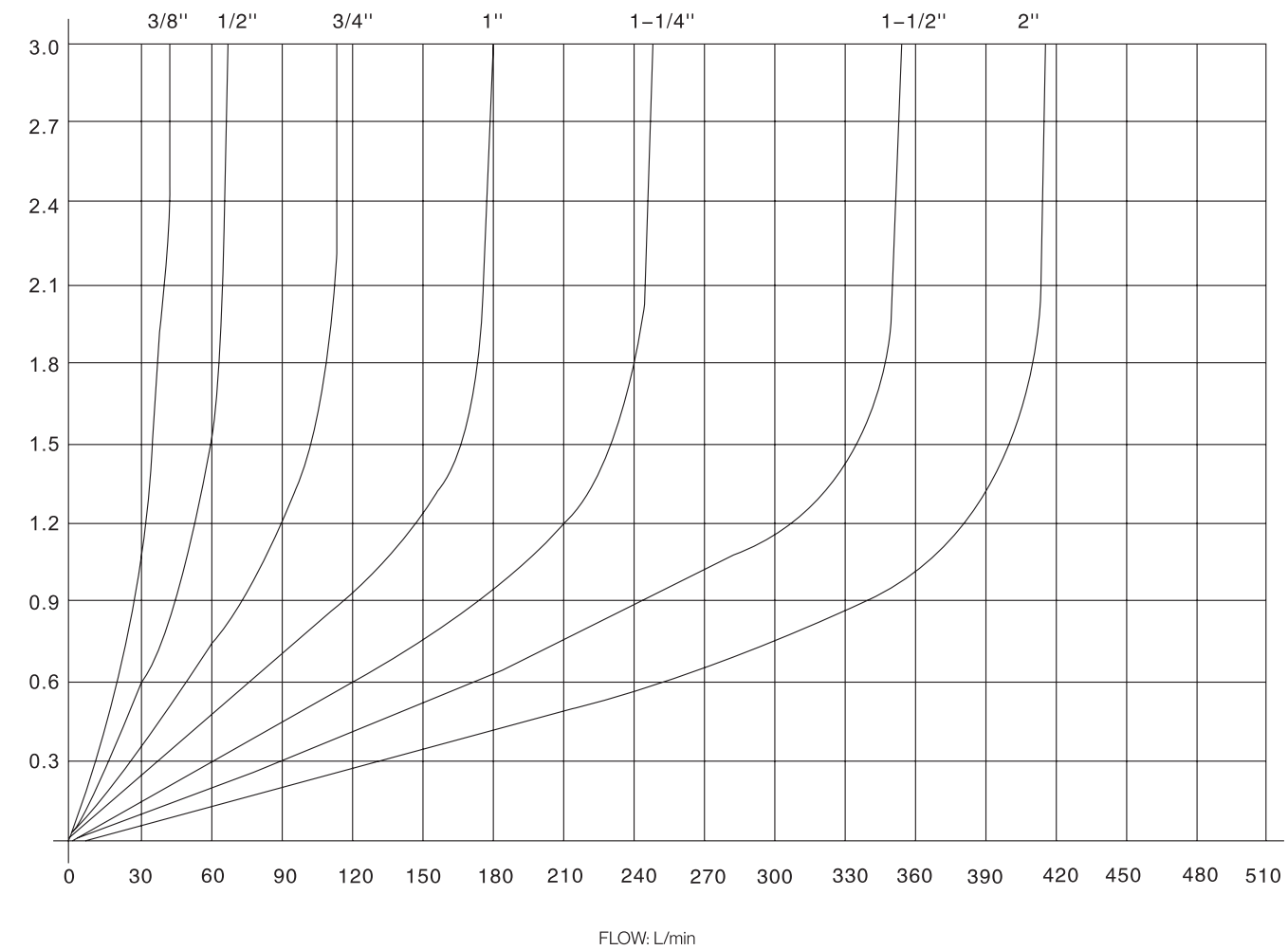


◦ WHY USE DIRECT-ACTING PRESSURE REDUCING VALVE D200

As the population on earth grows, we are faced with more and more challenges from the environment. Conserving energy and water supplies is one of the most important ways to address this global challenge. We can't increase water supply, we can only reduce waste.
The use of direct acting pressure reducing valves is one of the simplest solutions to reduce water waste without changing our lifestyle. The D200 is an automatic control

valve installed in residential buildings that reduces the pressure in the main network and uses less water when the water pressure in the line is reduced.
Installing the D200 valve is not only good for the environment, it also saves safety. Excessive pressure can be harmful to the household plumbing system, causing damage to pipes, faucets, appliances, etc. The D200 is also effective in commercial buildings and irrigation systems.

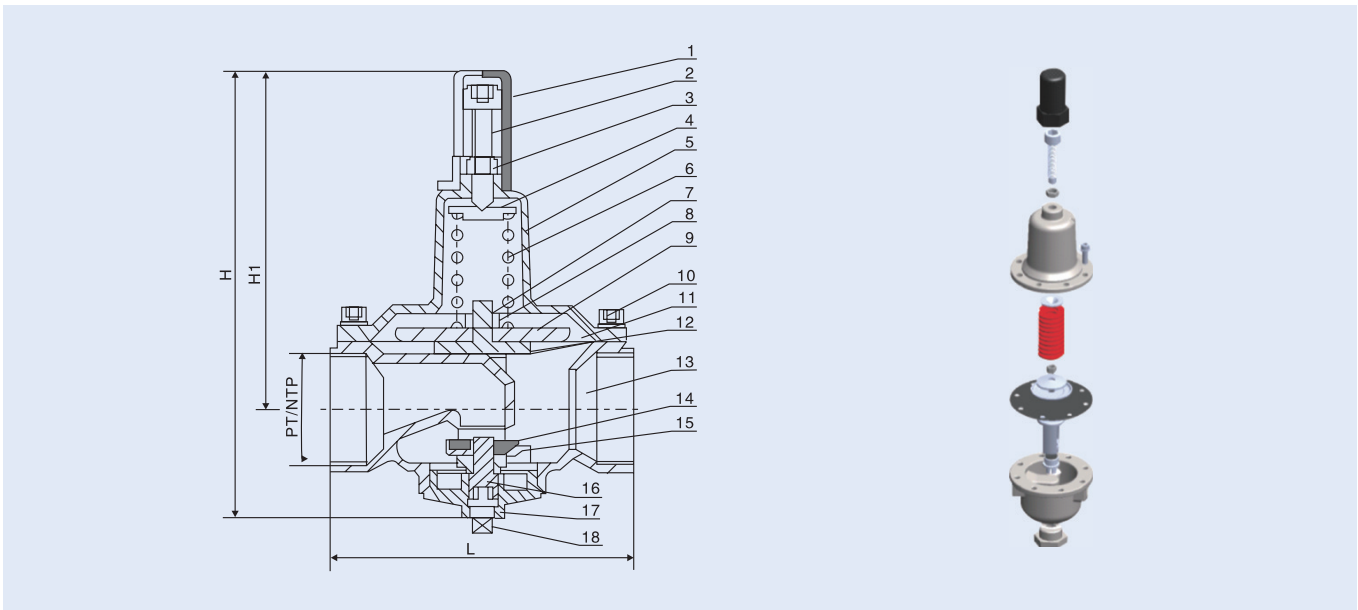
◦ FLOW CURVE AND CALIBER SELECTION



◦ ORDINARY HOUSEHOLD WATER CONSUMPTION

2 PCS BIDET
1 PCS SHOWER
2 PCS HAND BASIN
2 PCS FLUSH TOILET
1 PCS BATHTUB
1 PCS VEGETABLE BASIN
1 PCS WASHING MACHINE

FLOW=12L/MIN
FLOW=9L/MIN
FLOW=12L/MIN
FLOW=12L/MIN
FLOW=12L/MIN
FLOW=12L/MIN
FLOW=12L/MIN



◦ MIAN PART MATERIAL

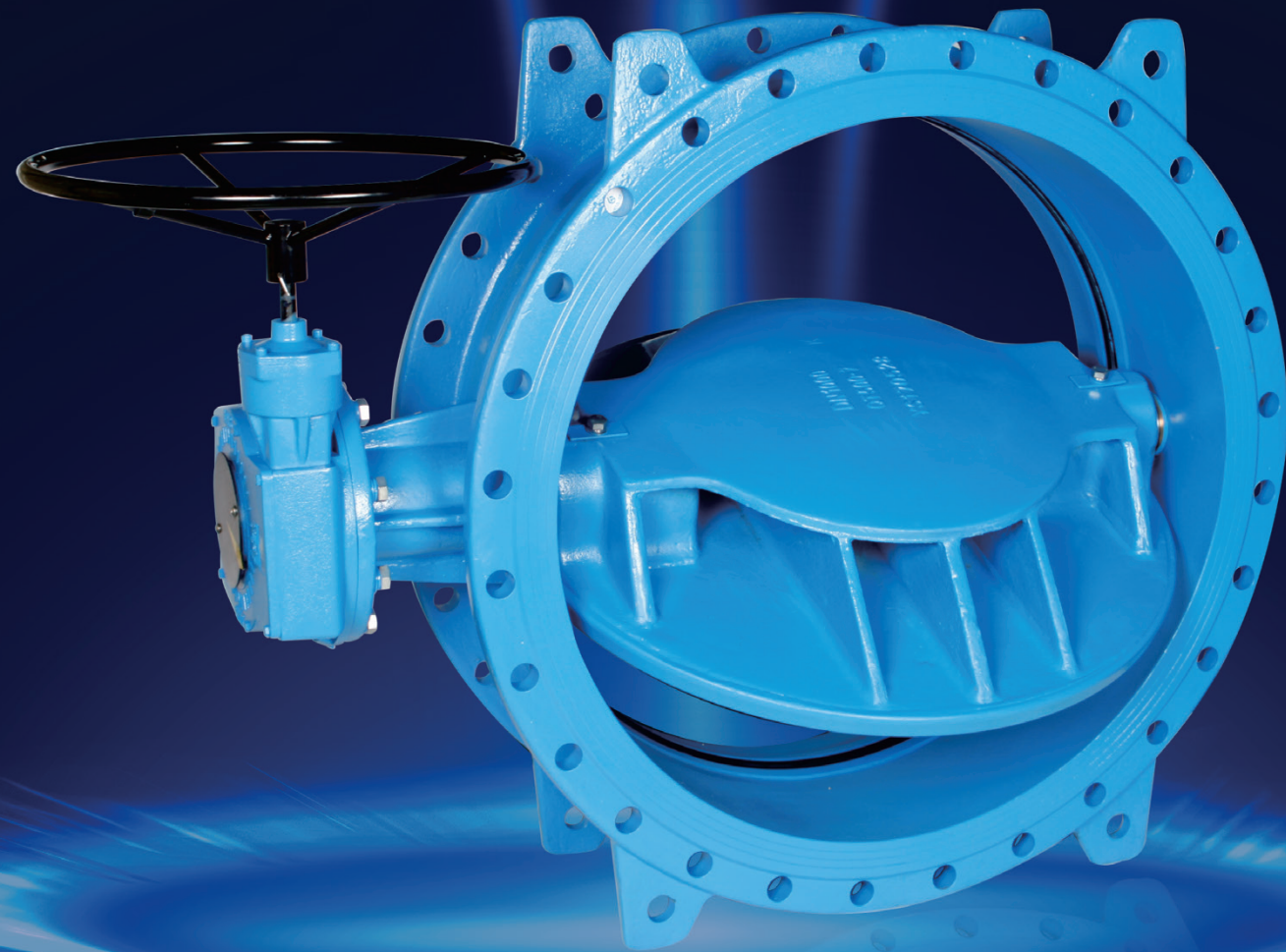
NO.	Name	Material	NO.	Name	Material
1	Jacket	ABS	10	Socket Head Cap Screw	A2
2	Adjusting screw	SUS304	11	Diaphragm	NBR+NYLON
3	Lock nut	A2	12	Stem	SUS304
4	Spring gland	SUS304	13	Body	SUS304
5	Bonnet	SUS304	14	Wedge	SUS304+NBR
6	Spring	Cr-Van	15	O-Ring	NBR
7	Lock nut	A2	16	Positioning Screw	SUS304
8	Belleville spring	CS+NI	17	Bottom	SUS304
9	Diaphragm gland	SUS304	18	Plug Screw	SUS304

◦ MAIN EXTERNAL AND CONNECTING DIMENSIONS

UNIT: mm

Structure size				
Inch	DN	L	H	H1
3/8"	10	80	175	133
1/2"	15	97	168	128
3/4"	20	100	178	135
1"	25	106	183	139
1 1/4"	32	112	188	143
1 1/2"	40	124	190	144
2"	50	170	216	164

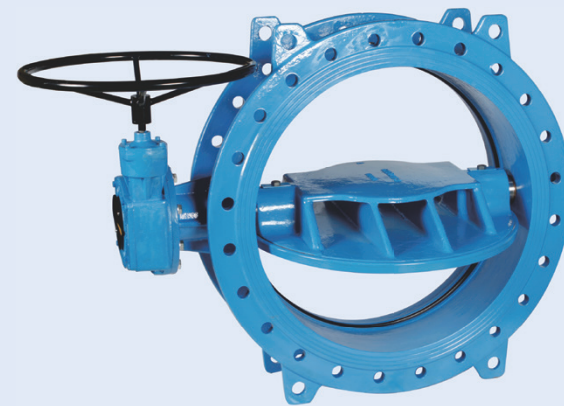
D342X GLUE FLANGED BUTTERFLY VALVE



Leading the global valve industry.

PRODUCT CHARACTERISTICS

1. Double eccentric structure, not only can reduce the operating torque of the valve, but also can reduce the contact friction with the valve seat during operation, extend the life of the valve and improve the reliability of the seal.
2. Design and test standards are applicable to switching and regulating conditions.
3. After the valve body and the disc are sprayed with epoxy resin, ensure that the whole butterfly valve is completely isolated from corrosion.



1. The thin structure design of the disc and the truss type can ensure the flow area of the medium and reduce the loss of water head.
2. The seat is installed on an epoxy coating to eliminate the risk of rust on the back of the seat.
3. The special design of the seat makes it possible to repair the seat online when it is damaged to a certain extent.



1. All cast iron parts are treated by epoxy resin fusion, with a thickness of 250um, which can be highly anti-corrosion and durable.
2. The lifting lug and base mounting point are integrated with the valve body, which is convenient for transportation.

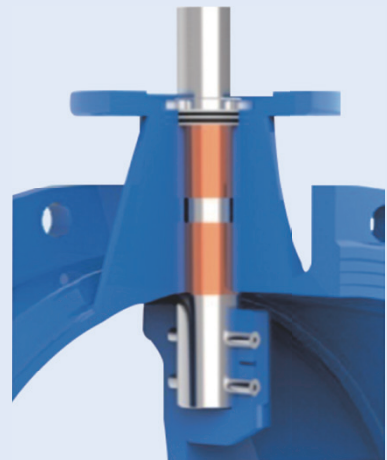


PRODUCT CHARACTERISTICS

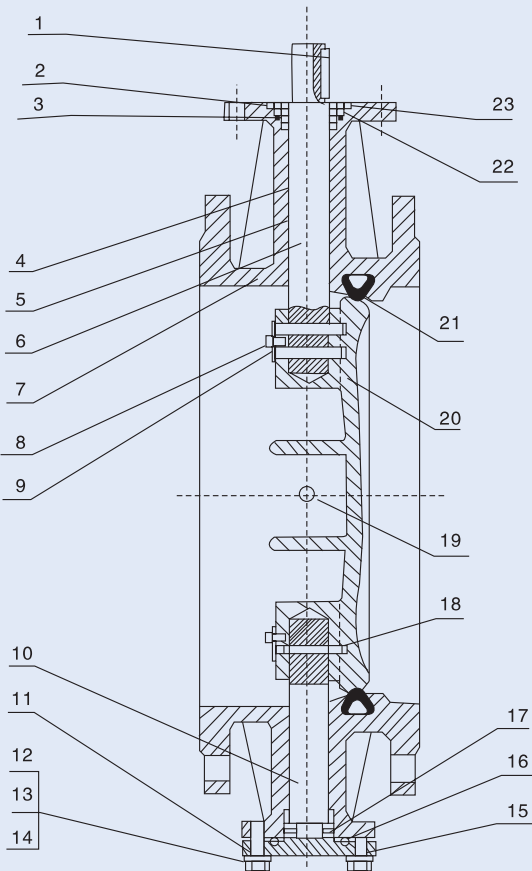
- 1. Adopts dovetail seat locking structure design, without seat fixing device, avoiding the possibility of loosening and rust. The seat is protected from washout even under the most demanding conditions.
- 2. According to the size and damage of the butterfly valve, the valve seat can be repaired on the spot; In certain cases, the valve can be serviced online from outside the body without disassembling or emptying the pipe.



- 1. Roller bearings are conducive to vertical installation
- 2. Reliable sealing of three PTFE-backed O-rings
- 3. Double PTFE reinforced bronze bearing
- 4. Adjustable flat bearing



- 1. Double high-strength steel fixed pin delivers high torque
- 2. Blind lock device to avoid water infiltration through the valve disc
- 3. Mechanical retaining pin to ensure reliability

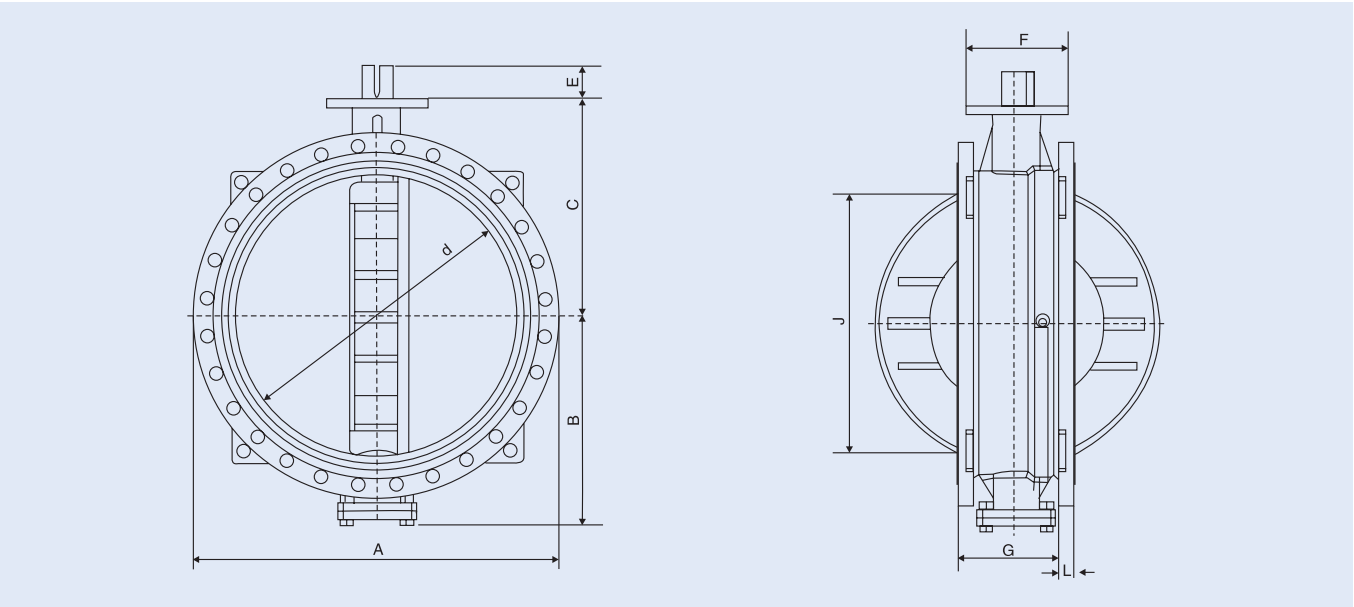


TECHNICAL DATA

Size range-flange type	DN50-1600mm
Rating	PN10, PN16
Temperature	0℃ ~80℃
Top flange standard	ISO 5211
F to f-flange	EN588-BASIC SERIES 13
F to f-wafer	EN588-BASIC SERIES 20
Service	DRINKING WATER, RAW WATER, CLEAN AIR
Flange ends standard	EN1092/ISO 7005 PN10/16, for other standard flanges, please consult us.

MIAN PART MATERIAL

NO.	Parts	Qty	Material	Std
1	Key	1	45	
2	Sealing ring	3	NYLON	
3	O-ring	3	EPDM OR NBR	
4	Copper self-lubricating bearing	2	COPPERBASE+COMPOSITE COATING	
5	Copper self-lubricating bearing	2	COPPERBASE+COMPOSITE COATING	
6	Main stem	1	SUS431	
7	Body	1	QT500-7	
8	Hex hewd bolt	2	SUS304	GB/T5783
9	Release tablet	2	Q235	
10	Auxiliary stem	1	SUS431	
11	Lowwe cover	1	QT500-7	
12	Flat washer	4	SUS304	GB/T 97.2
13	Spring ring	4	SUS304	GB/T 93
14	Hex hewd bolt	4	SUS304	GB/T 5783
15	Hex socket locking screw	4	SUS304	GB/T 77
16	O-ring	1	EPDM OR NBR	
17	Thrust bearing	1	E52100	GB/T 301
18	Pin	3	SUS431	
19	End cap	2	SUS304	GB/T 97.2
20	Disc	1	QT500-7	
21	Sealing ring	1	EPDM OR NBR	
22	Countersunk screw	4	SUS304	GB/T 819.2



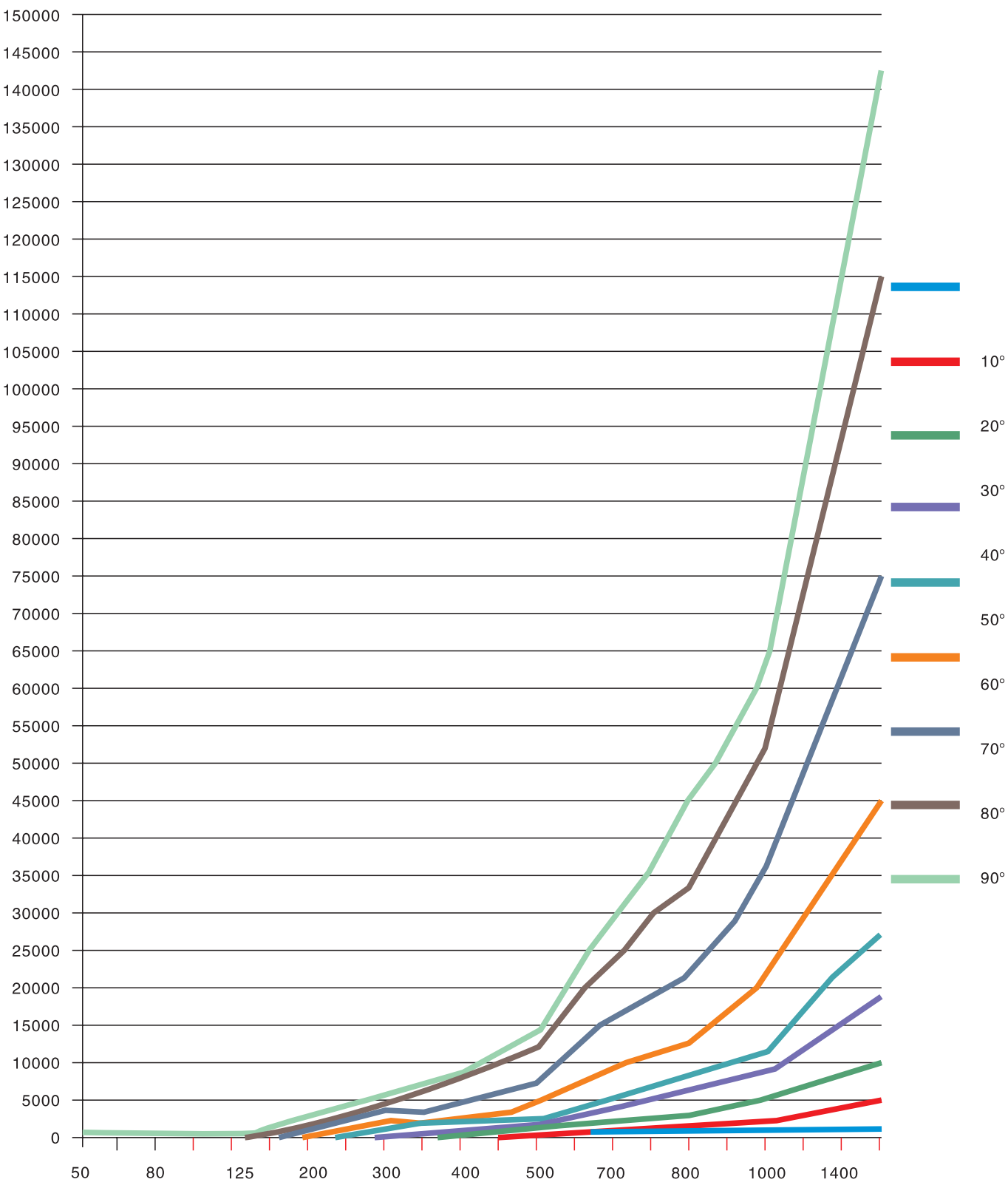
MAIN EXTERNAL AND CONNECTING DIMENSIONS

UNIT: mm

Main Contour Dimensions														ISO 5211 Top Flange Land Datas						
DN	A		B	C	D	E	F	G	H	I	J	K	L		ISO	Stem	Key	Pod	Hole NO	Hole
mm	mm		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm		5211	mm	WxH	Φ		Φ
	PN10	PN16											PN10	PN16	TYPE		mm	mm		mm
50	165	165	70	105	47	25	65	108	43	106	N/A	28	19.0	19.0	F05	9×9	N/A	50	4	7
65	185	185	75	110	60	25	65	112	46	126	N/A	47	19.0	19.0	F05	9×9	N/A	50	4	7
80	200	200	80	115	74	25	65	114	46	141	N/A	64	19.0	19.0	F05	9×9	N/A	50	4	7
100	220	220	95	140	94	25	90	127	52	161	N/A	84	19.0	19.0	F07	11×11	N/A	70	4	9
125	250	250	120	160	118	25	90	140	56	190	N/A	110	19.0	19.0	F07	17×17	N/A	70	4	9
150	285	285	125	165	146	25	90	140	56	217	58	140	19.0	19.0	F07	17×17	N/A	70	4	9
200	340	340	155	205	191	38	125	152	60	272	125	186	20.0	20.0	F10	Φ 25	8×7	102	4	12
250	395	405	190	240	237	38	125	165	68	327	178	232	22.0	22.0	F10	Φ 28	8×7	102	4	12
300	445	460	220	275	288	38	150	178	78	377	248	282	24.5	24.5	F12	Φ 32	10×8	125	4	14
350	505	520	311	330	332	50	150	190	92	433	291	330	24.5	26.5	F12	Φ 35	10×8	125	4	14
400	565	580	353	365	382	75	150	216	102	484	335	383	24.5	28.0	F12	Φ 35	10×8	125	4	14
450	615	640	377	400	434	75	150	222	114	534	391	435	25.5	30.0	F12	Φ 45	14×9	125	4	14
500	670	715	421	445	484	75	210	229	127	582	443	483	26.5	31.5	F16	Φ 50	14×9	165	4	22
600	780	840	530	485	583	75	210	267	154	686	541	584	30.0	36.0	F16	Φ 50	14×9	165	4	22
700	895	910	608	564	677	105	300	292	N/A	N/A	634	N/A	32.5	39.5	F25	Φ 75	20×12	254	8	18
800	1015	1025	670	624	779	105	300	318	N/A	N/A	736	N/A	35.0	43.0	F25	Φ 75	20×12	254	8	18
900	1115	1125	685	670	879	105	300	330	N/A	N/A	841	N/A	37.5	46.5	F25	Φ 75	20×12	254	8	18
1000	1230	1255	722	755	979	118	350	410	N/A	N/A	916	N/A	40.0	50.0	F30	Φ 100	28×16	298	8	22
1200	1455	1485	840	880	1179	122	350	470	N/A	N/A	1107	N/A	40.0	57.0	F30	Φ 120	32×18	298	8	22
1400	1675	1685	1000	950	1370	145	415	530	N/A	N/A	1297	N/A	46.0	60.0	F35	Φ 150	36×20	356	8	34
1600	1915	N/A	1118	1130	1567	150	415	600	N/A	N/A	1486	N/A	49.0	N/A	F35	Φ 150	36×20	356	8	34

Note: D342X glue flange butterfly valve>DN1800caliber, according to the working condition, consult us.

◉ KV APPROXIMATE VALUE CHART



◉ KV APPROXIMATE VALUE

Valve opening									
DN	10°	20°	30°	40°	50°	60°	70°	80°	90°
50	5	9	16	29	44	67	91	116	141
65	5	9	16	29	46	69	96	128	151
80	7	10	21	37	58	87	120	161	190
100	14	20	38	69	112	168	233	311	368
125	26	38	72	129	209	317	436	582	688
150	43	61	112	199	320	476	657	874	1034
200	72	101	217	378	601	910	1294	1731	2111
250	125	175	393	652	1025	1575	2259	3063	3927
300	180	263	586	909	1406	2393	3320	4606	5981
350	32	300	620	1150	1700	2200	3650	6150	7300
400	50	350	760	1400	2140	2820	4600	7600	8400
450	54	412	950	1630	2520	3400	5600	8960	11000
500	50	470	1075	1920	2570	4580	7920	11810	14240
600	79	748	1716	3060	4096	7302	12610	18800	22680
700	96	866	2166	3980	5176	9270	16050	23430	28850
750	128	1025	2712	4740	6336	11660	19320	29840	35560
800	192	1389	3035	5575	7765	12700	22150	33470	46280
900	288	1760	3900	6970	9580	16820	28220	43450	52900
1000	360	2187	5055	8500	11440	21050	36160	52100	63400
1200	504	2731	6745	12260	15970	29200	48900	73800	90800
1400	660	3800	8700	15000	22500	38100	62500	96000	117300
1600	943	4260	9800	18500	27000	46000	75200	116000	142500

100P MULTI-OFFSET FULLY-RUBBER-LINING BUTTERFLY VALVE



PRODUCT OVERVIEW

The multi-offset fully-rubber-lining butterfly valve is a product with excellent sealing and corrosion-resistant performances, which can prevent the formation of scale inside the valve. It is characterized by high quality and long service life due to its light operating torque and low failure rate. For the body lining, the COS curve rubber seat is used to prevent any contact between the fluid medium in the pipeline and the body, thus avoiding the formation of scale. The disc is designed with a spherical structure and is wholly coated with unique material and technology to isolate the pipeline fluid medium from the disc, preventing corrosion of the disc and reducing pollution to the water quality. It is the preferred pipeline network product for municipal pipeline networks, seawater desalination systems, sewage treatment systems, and water circulating systems in petrochemical and electric power fields.

COS CURVE RUBBER SEAT

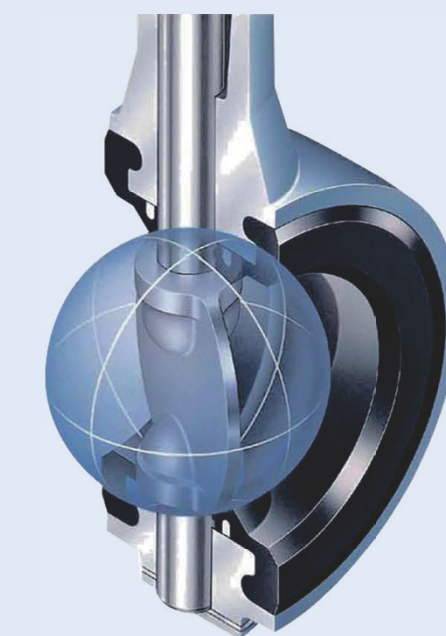
The sealing structure of the valve COS curve helps to ensure that: the valve has no torque increase during its rotation; and when it is about to be completely closed, the disc and the seat ring contact simultaneously around the 360° circumference. With the COS curve rubber seat, the sealing torque of the valve can be adjusted automatically to the size required for the working pressure at that time, thus minimizing friction and torque while ensuring zero leakage. The unique sealing surface of the COS curve makes the gas sealing process equivalent to double offset valve, which significantly reduces friction and torque, and extends the service life of the rubber seat. The sealing structure is made of rubber material and wrapped on the body to prevent falling from the body, and completely isolate the body from the fluid, so as to protect the water quality.

THE SPHERICAL DISC MOVEMENT TRAJECTORY ENABLES FLEXIBLE AND SMOOTH VALVE OPERATION

The disc is machined into a complete sphere shape, with each part of the sealing surface being a part of the sphere surface, including the axial sealing surfaces at the upper and lower ends of the disc. This type of sealing surface ensures smooth operating during sealing even though the contact is unavoidable. Therefore, it actually reduces the torque and friction while improving the sealing performance. Particularly, the friction at the axial sealing area is reduced. The adoption of only this technique helps increase the seat ring's lifespan by three times. When using the product in systems prone to scale formation, the spherical disc can be coated with rubber to isolate it from the medium, so as to prevent scale formation inside the valve, reduce the friction on and protect the seat during the opening and closing of the disc.

ADAPTIVE VALVE STEM SEALING ACHIEVED BY EMBEDDED STRUCTURE

The stem sealing system consists of a main seal and a secondary seal. The main seal is achieved by the close fit between the seat ring and the end surface of the disc. The secondary seal is achieved by an embedded metal ring inside the seat ring. The embedded ring acts as an adaptive stem seal. This structure can automatically close the gap between the stem and the rubber seat when the stem is tilted due to unbalanced forces, eliminating the possibility of axial leakage.





PRODUCT CHARACTERISTICS

Fully-rubber-lining multi-offset structure
Automatic adjustment at central position of disc
Various actuators available for selection
Stem surface covered by the seat eliminates concerns about body corrosion
Bidirectional pressurized valve structure
Internal surface lined with rubber cuts off contact between metal and fluid
Large-diameter hollow disc with lightweight and high-strength properties
Reliable stem hole sealing structure
Excellent bearings with low friction and high corrosion-resistant performances

EXECUTIVE STANDARD

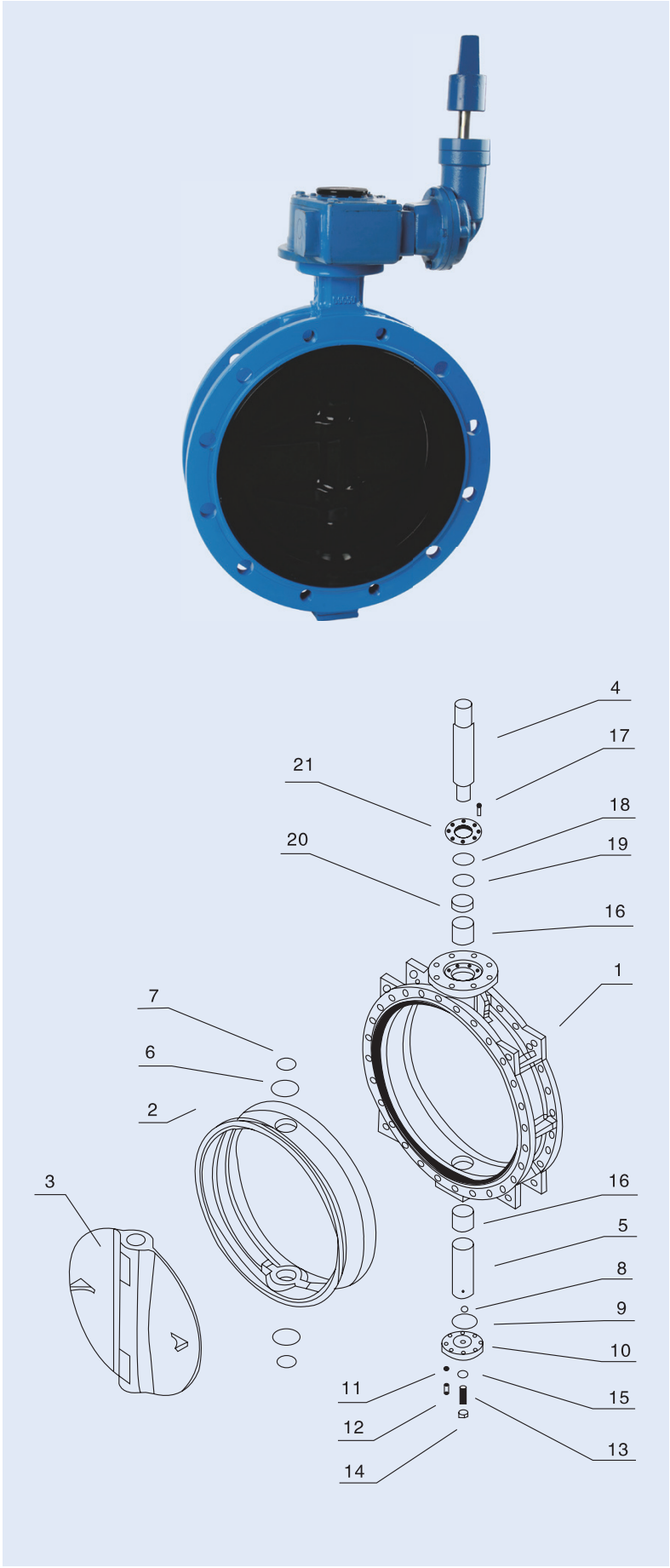
Design and manufacture:GJ/T3049
Flanged joint:GB/T17241.6 GB/T9124 GB/T42164
Pressure test:GB/T13927

MAIN TECHNICAL PARAMETERS

Model		700P
Nominal bore		DN150-DN2400
Face to face		JIS B 2002(123)
Connecting flange		GB PN10,ANSI 125Lb,BS4504,PN10,JIS 5K,JIS 10K
Medium flow direction		Two-way
Max. operating pressure		1.0MPa,1.6MPa
Allowable leakage		Leakless type
Pressure testing	Shell strength test	1.5MPa,2.4MPa
	Seat sealing test	1.1MPa,1.76MPa
Applicable temperature range		-10-80℃ (NBR),-20-120℃ (EPDM)
Continuous use temperature range		0-60℃ (NBR),0-100℃ (EPDM)
Standard materials	Body	QT450-10
	Disc	QT450-10+(Nickel-coated or nylon-coated or EPDM hard rubber coated), CF8M, CF8
	Stick	2Cr13,SUS403
	Seat	NBR,EPDM
Application		Water (raw water, purified water, industrial water, seawater), air, weakly corrosive gas or liquid (component materials can be adjusted according to specific fluid medium)
Actuator connection flange		Company standard
Actuator		Worm gear, cylinder, motor
Surface treatment process		Anti-rust treatment, blue coating

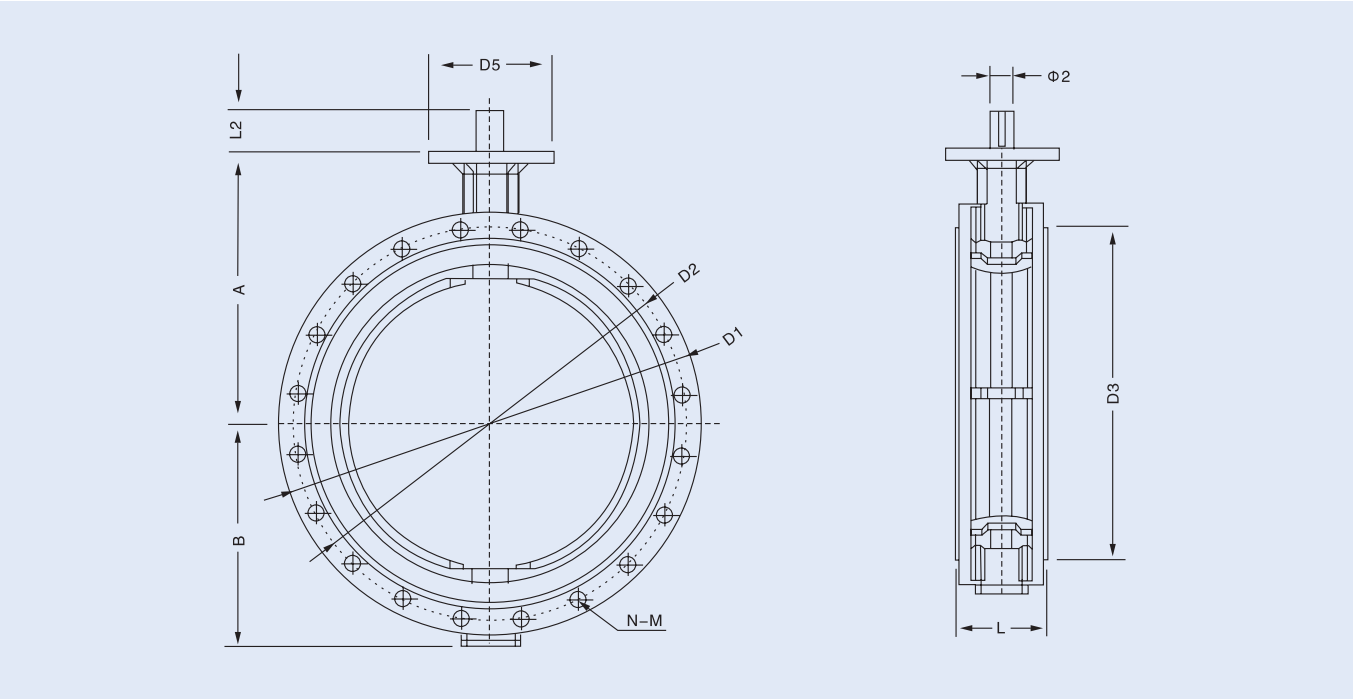
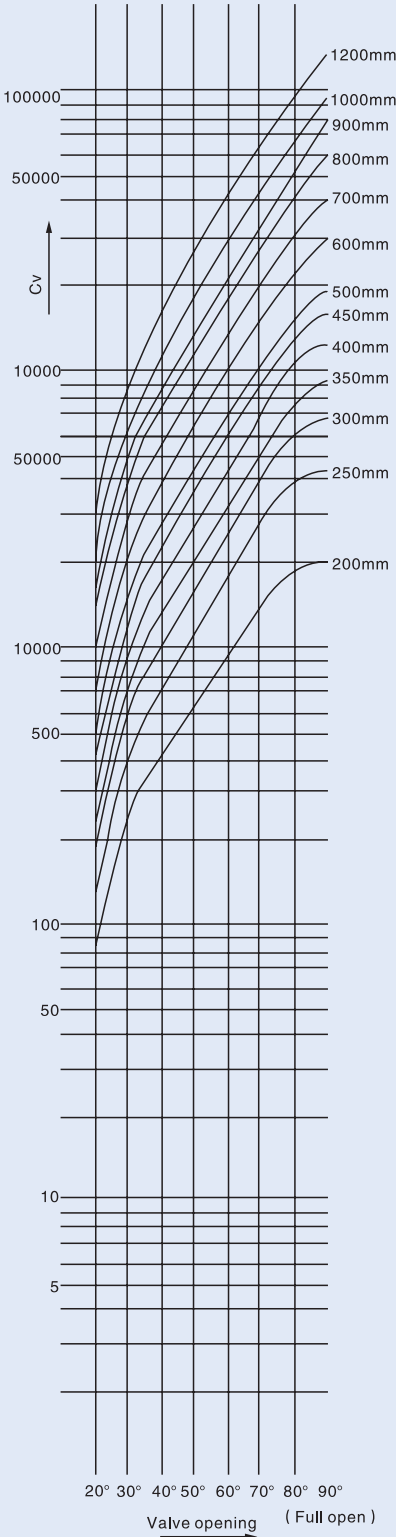
MATERIALS FOR MAIN PARTS

NO.	Name	Amount
1	Body	1
2	Seat	1
3	Baffle	1
4	Upper stem	1
5	Lower stem	1
6	Secondary seal ring	2
7	O-ring	2
8	Steel ball	1
9	O-ring	1
10	Bottom bonnet	1
11	Spring gasket	4
12	Hex bolt	4
13	Hexagonal head full thread screw	1
14	Hexagon nut	1
15	Sealing gasket	1
16	Self-lubricating bearing	2
17	Socket head cap screw	8
18	O-ring	1
19	O-ring	1
20	Gland cover	1
21	Gland	1



700P CV VALUE

Model	Standard size		Valve opening							
	mm	inch	20°	30°	40°	50°	60°	70°	80°	90°
700P	200	8	71	239	417	646	969	1457	1836	1950
	250	10	139	375	693	1135	1746	2724	3855	4200
	300	12	184	544	995	1593	2461	3909	5571	6400
	350	14	215	678	1248	1982	3028	4827	7054	9000
	400	16	304	905	1656	2649	4094	6460	9782	12000
	450	18	381	1158	2136	3433	5274	8120	12430	15000
	500	20	496	1440	2631	4209	6434	10085	15436	17500
	\	22	571	1765	3234	5141	7833	12066	17999	22500
	600	24	688	2074	3815	6126	9433	14595	21897	26500
	\	26	817	2441	4473	7159	11013	17254	26972	32500
	700	28	934	2807	5122	8152	12511	19728	30929	39000
	\	30	935	3220	5965	9450	14328	22687	38260	52000
	800	32	1200	3721	6791	10771	16553	26976	43316	59000
	\	34	1164	4018	7516	12063	18567	29284	46350	66000
	900	36	1358	4497	8298	13177	20139	32362	53126	73000
	1000	40	1784	5835	10740	17060	26110	42070	68860	95000
	\	44	2075	7030	13020	20680	31530	50420	83340	114000
	1200	48	2570	8520	15710	24900	37930	60280	98640	138000
	\	54	3385	10180	18810	30490	47840	75750	119000	173000

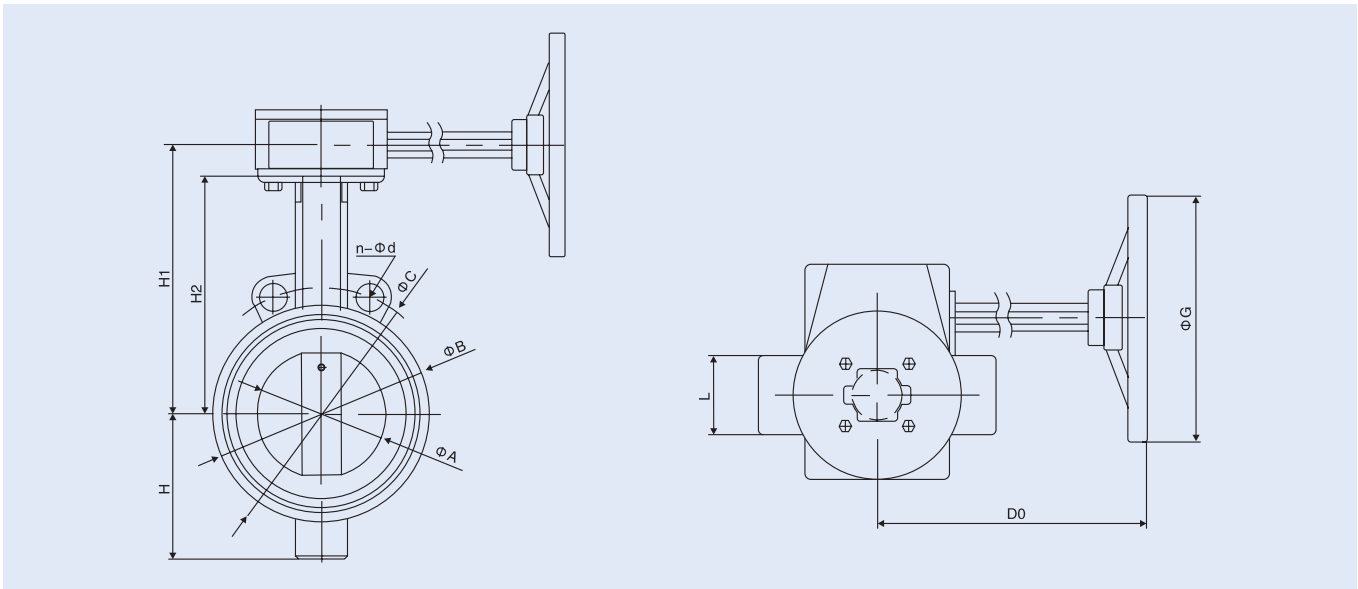


MAIN EXTERNAL AND CONNECTING DIMENSIONS

UNIT: mm

DN	A	B	D1	D2	D3	D5	L	L2	N-M	Φ2
150	190	155	285	240	211	90	100	32	8-M20	18.92
200	230	195	340	295	266	115	100	45	8-M20	22.1
250	269	220	405	350	319	115	110	45	12-M20	28.45
300	296	250	460	400	370	140	110	45	12-M20	31.6
350	341	285	520	460	429	140	120	45	16-M20	31.6
400	361	315	580	515	480	197	130	51	16-M24	33.15
450	391	332	615	565	530	197	150	51	20-M24	38
500	431	360	670	620	582	197	160	52	20-M24	41.15
600	521	425	780	725	682	276	170	70	20-M27	50.65
700	601	482	895	840	794	300	180	82	24-M27	63.35
800	661	550	1015	950	901	300	200	82	20-M30	63.35
900	701	605	1115	1050	1001	300	230	110	28-M30	75
1000	736	657	1230	1160	1112	300	250	141	28-M33	85
1200	918	798	1465	1380	1328	350	300	145	32-M36	105
1400	1000	972	1675	1590	1530	350	300	146	36-M39	105
1600	1122	1115	1915	1820	1750	455	457	200	40-M45	140
1800	1157	1142	2115	2020	1950	455	670	210	44-M45	180
2000	1267	1257	2325	2230	2150	455	760	250	48-M45	210

WBLX-WBGX WAFER BUTTERFLY VALVE



MAIN TECHNICAL PARAMETERS

Model	D71/371X-10/10Q/16/16Q	
Nominal pressure(PN)	10	16
Seal test (MPa)	1.1	1.76
Shell pressure (MPa)	1.5	2.4
Applicable temp.(≤℃)	80	80
Applicable medium	Water/oil	

MATERIALS FOR MAIN PARTS

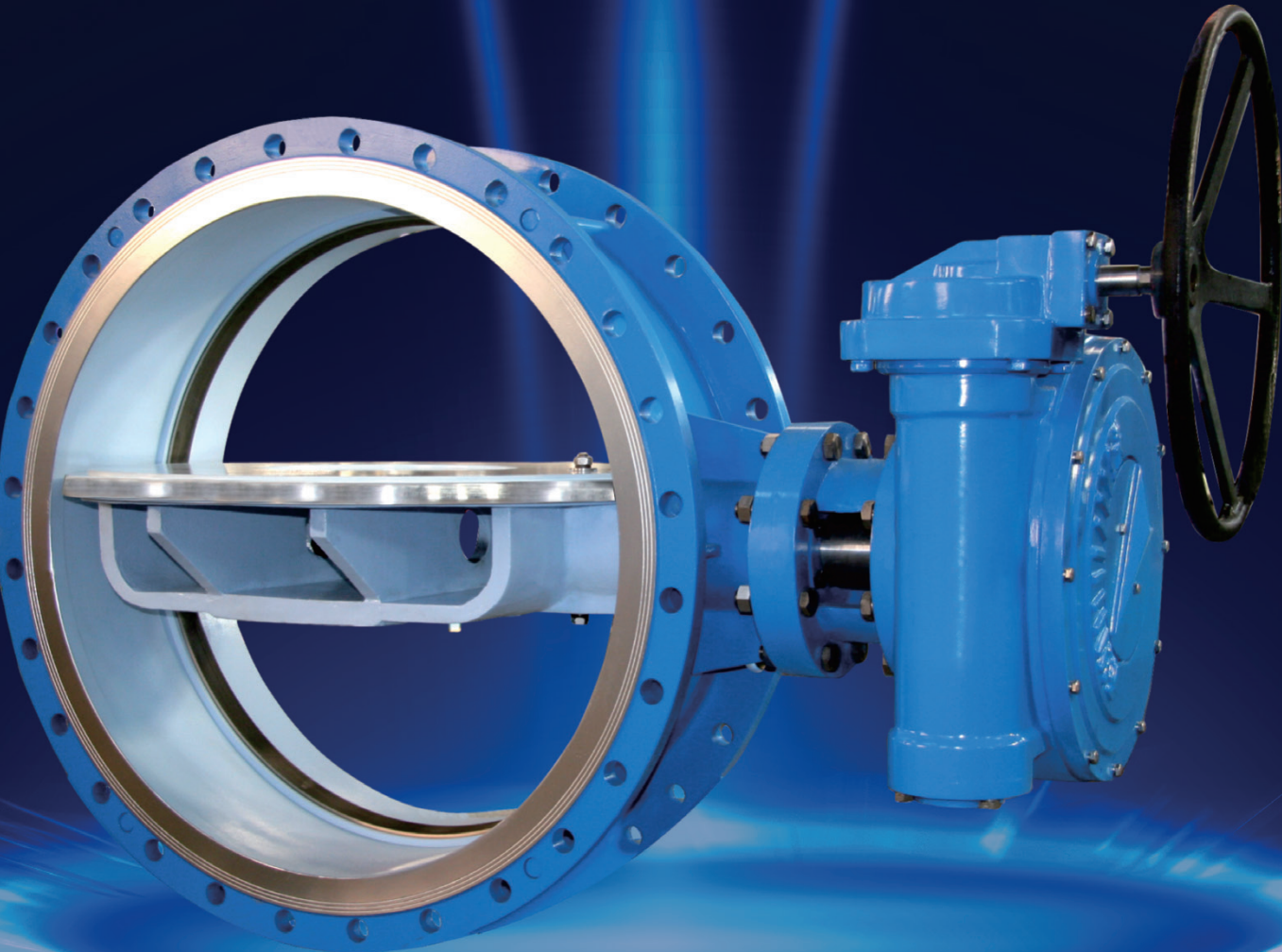
Name of parts	Material
Body	Cast iron
Disc	DI/SS
Stem	SS
Sealing ring	Rubber

MAIN EXTERNAL AND CONNECTING DIMENSIONS(PN10)

UNIT: mm

NPS	DN	L	Φ A	Φ B	Φ C	n-Φ d	H	H1	H2	Φ G	D0
2"	50	43	53	95	125	4-18	68	150	134	150	152
2.5"	65	46	65	108	145	4-18	76	155	143	150	152
3"	80	46	79	125	160	4-18	84	165	158	150	152
4"	100	52	104	156	180	4-18	110	185	172	150	152
5"	125	56	124	182	210	4-18	115	197	180	150	152
6"	150	56	155	206	240	4-22	129	221	198	150	152
8"	200	60	202	262	295	4-22	164	269	249	300	220
10"	250	68	250	322	350	4-22	194	303	279	300	220
12"	300	78	302	372	400	4-22	224	343	310	300	220
14"	350	78	334	420	460	4-22	253	387	344	300	220
16"	400	102	390	475	515	4-26	295	525	400	300	278
18"	450	114	440	530	565	4-26	-	550	425	300	278
20"	500	127	492	580	620	4-26	-	605	480	300	278

DS343H BIDIRECTION HARD SEAL BUTTERFLY VALVE



◦ PRODUCTION OVERVIEW

The bidirectional hard-sealed butterfly valve is an optimized design by our technical personnel on the basis of absorbing the structural advantages and features of the same type of foreign products and overcoming the defects of the original product in use. It is more durable and reliable in sealing performance. The butterfly valve is designed according to the three-dimensional offset principle, with the sealing pair composed of two overlapped conical surfaces. After the rotation center of the disc passes through the offset values set for the body and seat, instant contact and separation for opening and closing are achieved. The metal-to-graphite

layered structure of the disc sealing ring realizes a labyrinth seal, ensuring not only the low torque of valve opening/closing, but also satisfactory sealing performance of the butterfly valve. The bidirectional pressure bearing butterfly valve adopts minimal offset valve and enhanced strengths of disc, valve shaft, and actuator to achieve leak-free bidirectional sealing. This product, which is stable and reliable in quality, has been widely used by enterprises in both China and overseas countries, and won high praises from the users. It is a high-quality product worthy of your trust.

◦ PRODUCT USE

The disc of the bidirectional hard-sealed butterfly valve is designed with a flow-through double-plate-truss structure and manufactured with high-strength ductile iron to ensure the strength of the disc under water flow impact and guarantee low

water loss. This valve is suitable for being used in water supply systems, power plants, and other pipelines, serving as bidirectional opening/closing and regulating devices. Its regulation range is 0-90°.

◦ CHARACTERISTIC

- 1. The valve adopts an inclined elliptical disc radial dynamic balance sealing system, where the forces on both sides of the valve inlet and outlet are approximately balanced, so as to achieve the small torque of valve opening and reliable bidirectional sealing performance. It reaches 100% bidirectional pressure bearing.
- 2. The integral metal sealing ring is adopted for the valve sealing surface, which is manufactured by high-precision machine. The sealing surface is in elliptical shape

and composes the sealing pair together with the metal sealing surface of the seat. During valve opening and closing, the disc sealing surface makes instant contact or separation at various points along the 360° circumference, enabling quick and accurate opening or closing actions. 3. A triple offset structure is adopted, that is, adding a sealing cone angle offset on the basis of the double offset butterfly valve.

◦ EXECUTIVE STANDARD

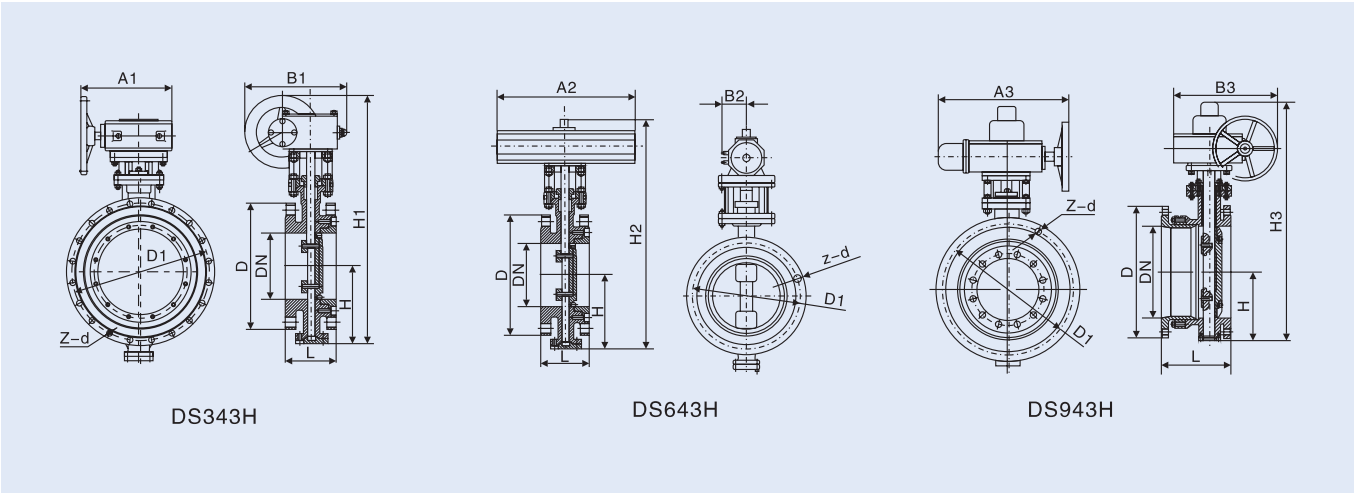
Design and manufacture	Flange connection	Face to Face	Test and inspection
GB/T 12238,JB/T8527	GB/T 9124,JB/T79,HG20592	GB/T12221	GB/T13927

◦ MAIN TECHNICAL PARAMETERS

Nominal diameter	DN(mm)	50-2000				50-500
Nominal pressure	PN(MPa)	0.6	1.0	1.6	2.5	4.0
Test pressure (mpa)	Strength test	0.9	1.5	2.4	3.75	6.0
	Positive sealing test	0.66	1.1	1.76	2.75	4.4
	Reverse sealing test	0.66	1.1	1.76	2.75	4.4
		0.6	0.6	0.6	0.6	0.6
Leakage rate	Zero leakage or<0.1×DNmm³ /s(conform to GB/T13927)					
Applicable temp.	Carbon steel: -29℃ -425℃ SS : -40℃ -600℃					
Applicable medium	Air, water, steam, gas, oil and acid, alkali, salt with weak corrosive media					
Driving form	Worm gear drive, pneumatic drive, electric drive, hydraulic drive					

◦ MATERIALS FOR MAIN PARTS

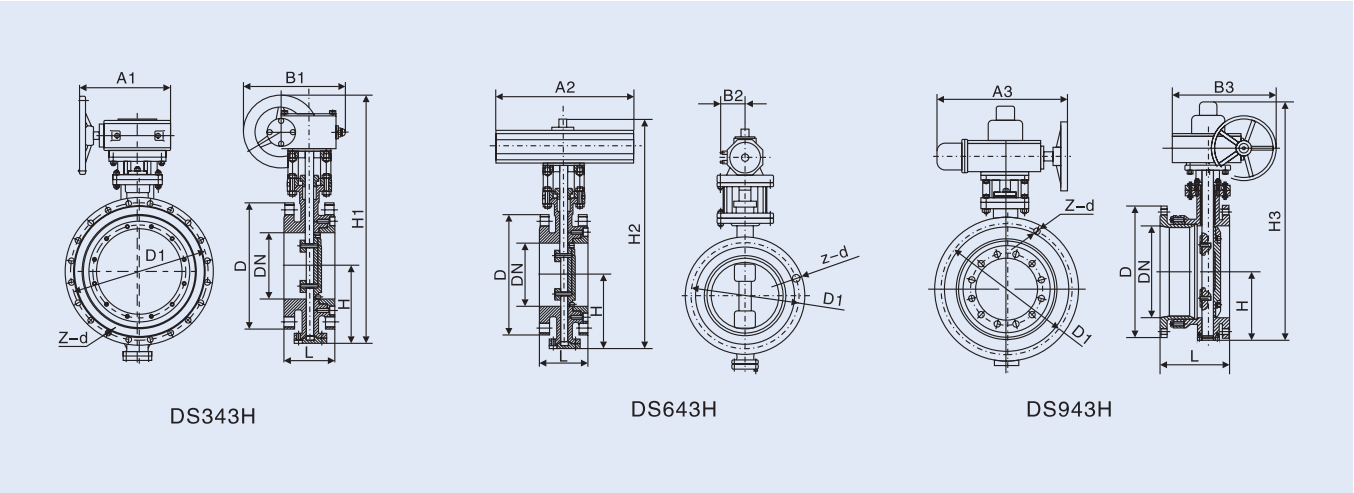
Name of parts	Material
Body	Cast steel,SS,DI
Disc	Cast steel,SS,DI
Seat	SS,Hardfacing of hard alloys such as Stellite
Sealing ring	Combination of stainless steel and high-temperature resistant graphite plate into multiple layers
Stem	2Cr13
Shaft sleeve	Austenitic stainless steel, brass
Filler	Flexible graphite,PTFE
Packing gland	Cast steel,SS
Supports	Cast steel,SS



MAIN EXTERNAL AND CONNECTING DIMENSIONS

UNIT: mm

Nominal diameter DN		Structural length(STD value)		Overall dimensions (reference value)										Connection size (STD value)					
		L		H	DS343H			DS643H			DS943H			PN0.6MPa			PN1.0MPa		
mm	Inch	Short	Long		H1	A1	B1	H2	A2	B2	H3	A3	B3	D	D1	Z-d	D	D1	Z-d
40	1½"	106	140	107	330	180	200	605	245	72	530	250	255	130	100	4-14	150	110	4-18
50	2"	108	150	112	350	180	200	625	245	72	530	250	255	140	110	4-14	165	125	4-18
65	2½"	112	170	115	370	180	200	645	245	72	530	250	255	160	130	4-14	185	145	4-18
80	3"	114	180	120	380	180	200	675	355	92	565	250	255	190	150	4-18	200	160	8-18
100	4"	127	190	138	420	180	200	715	355	92	600	250	255	210	170	4-18	220	180	8-18
125	5"	140	200	164	460	180	200	800	355	92	640	250	255	240	200	8-18	250	210	8-18
150	6"	140	210	175	555	270	280	850	250	170	705	300	315	265	225	8-18	285	240	8-22
200	8"	152	230	200	760	400	425	925	250	170	775	300	315	320	280	8-18	340	295	8-22
250	10"	165	250	243	830	400	425	1035	450	220	945	300	315	375	335	12-18	395	350	12-22
300	12"	178	270	250	895	450	560	1070	450	220	1070	300	315	440	395	12-22	445	400	12-22
350	14"	190	290	280	950	450	560	1190	450	280	1140	300	315	490	445	12-22	505	460	16-22
400	16"	216	310	305	1190	535	580	1250	650	280	1210	300	315	540	495	16-22	565	515	16-26
450	18"	222	330	350	1255	535	580	1295	650	280	1335	575	714	595	550	16-22	615	565	20-26
500	20"	229	350	380	1305	535	580	1455	850	380	1415	575	714	645	600	20-22	670	620	20-26
600	24"	267	390	445	1340	570	660	1585	850	380	1605	656	810	755	705	20-26	780	725	20-30
700	28"	292	430	480	1520	750	550	1700	1250	380	1844	656	810	860	810	24-26	895	840	24-30
800	32"	318	470	530	1710	750	550	1865	1250	380	2040	656	810	975	920	24-30	1015	950	24-33
900	36"	330	510	580	1810	750	550	2015	1500	580	2255	785	863	1075	1020	24-30	1115	1050	28-33
1000	40"	410	550	650	1960	900	750	2226	1500	580	2380	785	863	1175	1120	28-30	1230	1160	28-36
1200	48"	470	630	760	2250	1000	925	-	-	-	2640	785	863	1405	1340	32-34	1455	1380	32-39
1400	56"	530	710	850	2435	1000	925	-	-	-	2886	810	890	1630	1560	36-34	1675	1590	36-42
1600	64"	600	790	1030	2780	1000	925	-	-	-	3156	810	890	1830	1760	40-34	1915	1820	40-48
1800	72"	670	870	1230	3020	1100	980	-	-	-	3421	830	930	2045	1970	44-41	2115	2020	44-48
2000	80"	760	950	1350	3270	1100	980	-	-	-	3685	830	940	2265	2180	48-48	2325	2230	48-48
2200	88"	-	1000	1450	3470	1200	1050	-	-	-	3885	-	-	2475	2390	52-48	2550	2440	52-56
2400	96"	-	1100	1550	3670	1200	1050	-	-	-	4055	-	-	2685	2600	56-48	2760	2670	56-56
2600	104"	-	1200	1650	3870	1300	1120	-	-	-	4260	-	-	2905	2810	60-54	2960	2850	60-56
2800	112"	-	1300	1750	4080	1300	1120	-	-	-	4490	-	-	3115	3020	64-54	3180	3070	64-56
3000	120"	-	1400	1850	4280	1400	1190	-	-	-	4690	-	-	3315	3220	68-54	3405	3290	68-62

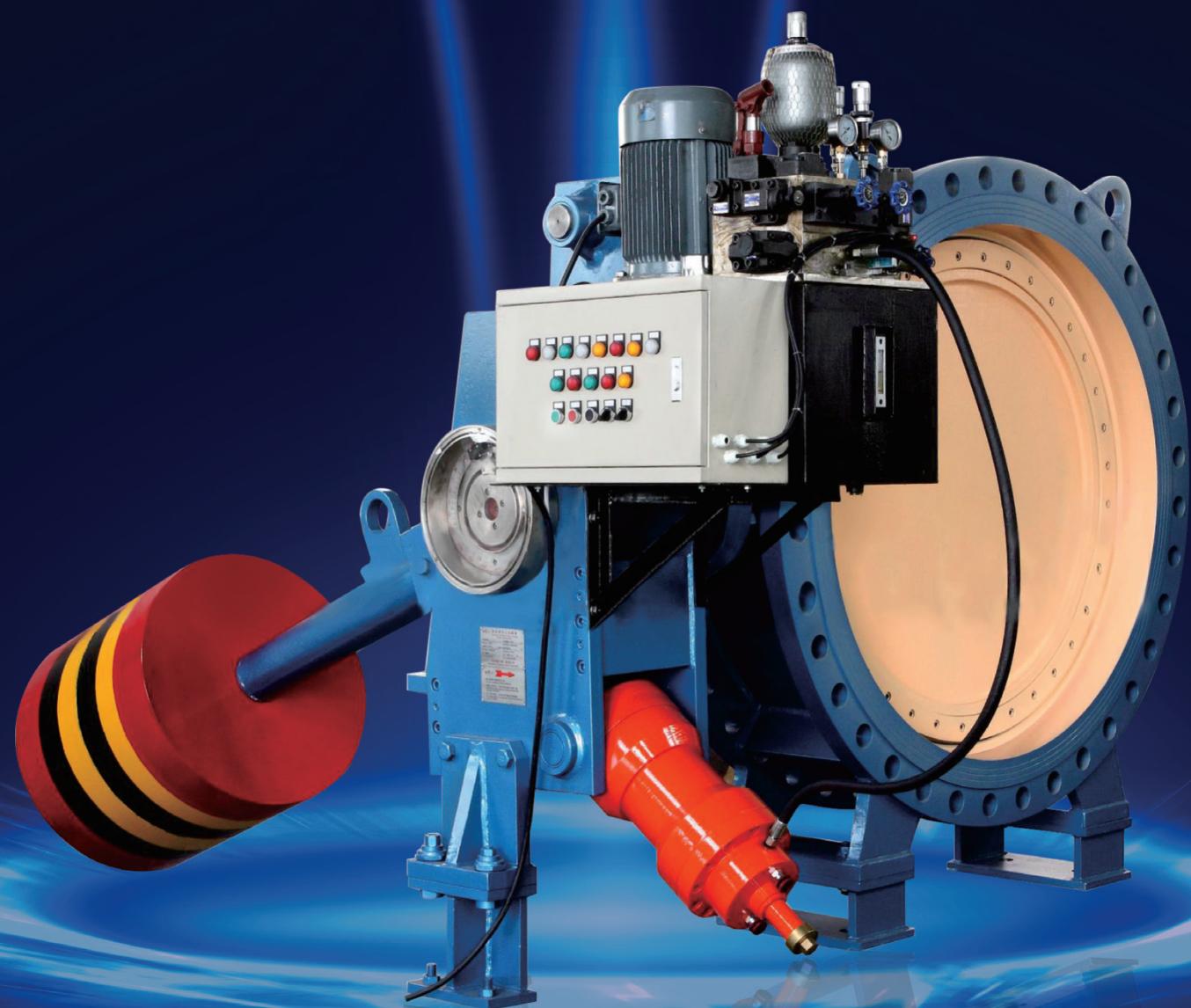


MAIN EXTERNAL AND CONNECTING DIMENSIONS

UNIT: mm

Nominal diameter DN		Structural length(STD value)		Overall dimensions (reference value)										Connection size (STD value)					
		L		H	DS343H			DS643H			DS943H			PN1.6MPa			PN2.5MPa		
mm	Inch	Short	Long		H1	A1	B1	H2	A2	B2	H3	A3	B3	D	D1	Z-d	D	D1	Z-d
50	2"	108	150	112	350	180	200	625	245	72	530	250	255	165	125	4-18	165	125	4-18
65	2½"	112	170	115	370	180	200	625	245	72	530	250	255	185	145	4-18	185	145	8-18
80	3"	114	180	120	380	180	200	645	245	72	565	250	255	200	160	8-18	200	160	8-18
100	4"	127	190	138	420	180	200	675	355	92	600	250	255	220	180	8-18	235	190	8-22
125	5"	140	200	164	460	180	200	715	355	92	640	250	255	250	210	8-18	270	220	8-26
150	6"	140	210	175	555	270	280	800	355	92	705	300	315	285	240	8-22	300	250	8-26
200	8"	152	230	200	760	400	425	850	250	170	775	300	315	340	295	12-22	360	310	12-26
250	10"	165	250	243	830	400	425	925	250	170	945	300	315	405	355	12-26	425	370	12-30
300	12"	178	270	250	895	450	560	1035	450	220	1070	300	315	460	410	12-26	485	430	16-30
350	14"	190	290	280	950	450	560	1070	450	220	1140	300	315	520	470	16-26	555	490	16-33
400	16"	216	310	305	1190	535	580	1190	450	220	1210	300	315	580	525	16-30	620	550	16-36
450	18"	222	330	350	1255	535	580	1250	650	280	1335	575	714	640	585	20-30	670	600	20-36
500	20"	229	350	380	1305	535	580	1290	650	280	1415	575	714	715	650	20-33	730	660	20-36
600	24"	267	390	445	1340	570	660	1455	850	380	1605	656	810	840	770	20-36	845	770	20-39
700	28"	292	430	480	1520	750	550	1585	850	380	1844	656	810	910	840	24-36	960	875	24-42
800	32"	318	470	530	1710	750	550	1700	1250	380	2040	656	810	1025	950	24-39	1085	990	24-48
900	36"	330	510	580	1810	750	550	1865	1250	380	2255	785	863	1125	1050	28-39	1185	1090	28-48
1000	40"	410	550	650	1960	900	750	2015	1250	380	2380	785	863	1255	1170	28-42	1320	1210	28-55
1200	48"	470	630	760	2250	1000	925	2250	1250	380	2640	785	863	1485	1390	32-48	1530	1420	32-55
1400	56"	530	710	850	2435	1000	925	-	-	-	2886	810	890	1685	1590	36-48	1755	1640	36-60
1600	64"	600	790	1030	2780	1000	925	-	-	-	3156	810	890	1930	1820	40-56	1975	1860	40-60
1800	72"	670	870	1230	3020	1100	980	-	-	-	3421	-	-	2130	2020	44-56	2195	2070	44-68
2000	80"	760	950	1350	3270	1100	980	-	-	-	3685	-	-	2345	2230	48-62	2425	2300	48-68

HYDRAULIC—CONTROLLED SLOW—CLOSING BUTTERFLY VALVE



PRODUCTION OVERVIEW

The hydraulic-controlled slow-closing butterfly valve is a relatively new type of pipeline control device in both China and overseas countries. It is characterized by low flow resistance coefficient, high degree of intelligence, full scope of functionality, and stable and reliable performance. It is mainly installed at the turbine inlet of hydroelectric power station to serve as the inlet valve for the turbines, or installed at the pump outlets of various pump stations in water conservancy, electric power, and

water supply/drainage systems to replace check valves and gate valves. Following the principle of hydraulic transition process, the valve can cooperate with the pipeline host during operation to effectively eliminate water hammer in the pipeline, thus achieving reliable pipeline shut-off, and protecting the safety of the pipeline system through the preset opening/closing program.

PRODUCT CHARACTERISTICS

In terms of functionality, it can be used to replace the original electric gate valve and check valve at the outlet of the water pump. Meanwhile, it can compose an integrity involving mechanical, electrical, and hydraulic systems, reducing the footprint and infrastructure investment. It has a complete range of electric-hydraulic control functions and can be used as an independent system for on-site debugging and control without additional configuration; or it can also be used as a device unit of a distributed control system (DCS), centrally managed by the central computer through I/O channels, and linked with water pumps, turbines, bypass valves, and other pipeline equipment; it is designed with manual function, allowing users to manually open and close the valve when lacking power supply, so as to meet the valve debugging and control requirements under special operating conditions. It is featured with good controllability, wide adjustment range, and strong adaptability. The electric-hydraulic control system has been set with multiple adjustment points, and allows to set opening/closing programs according to different pipeline control

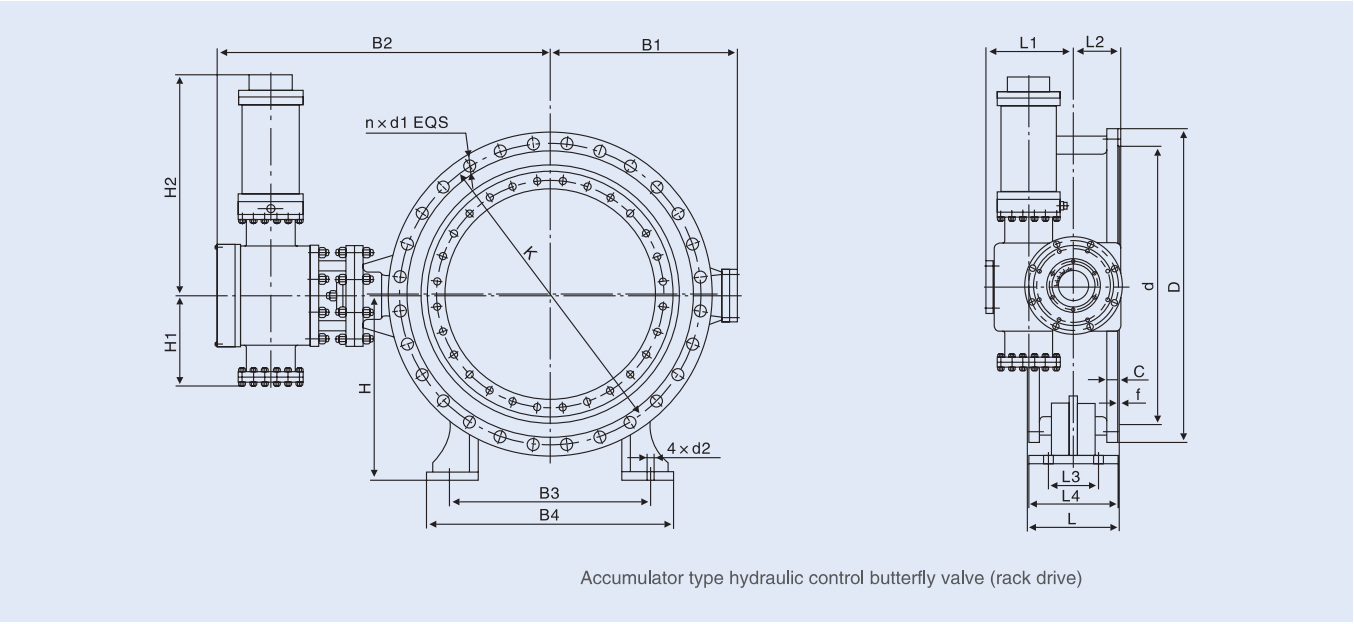
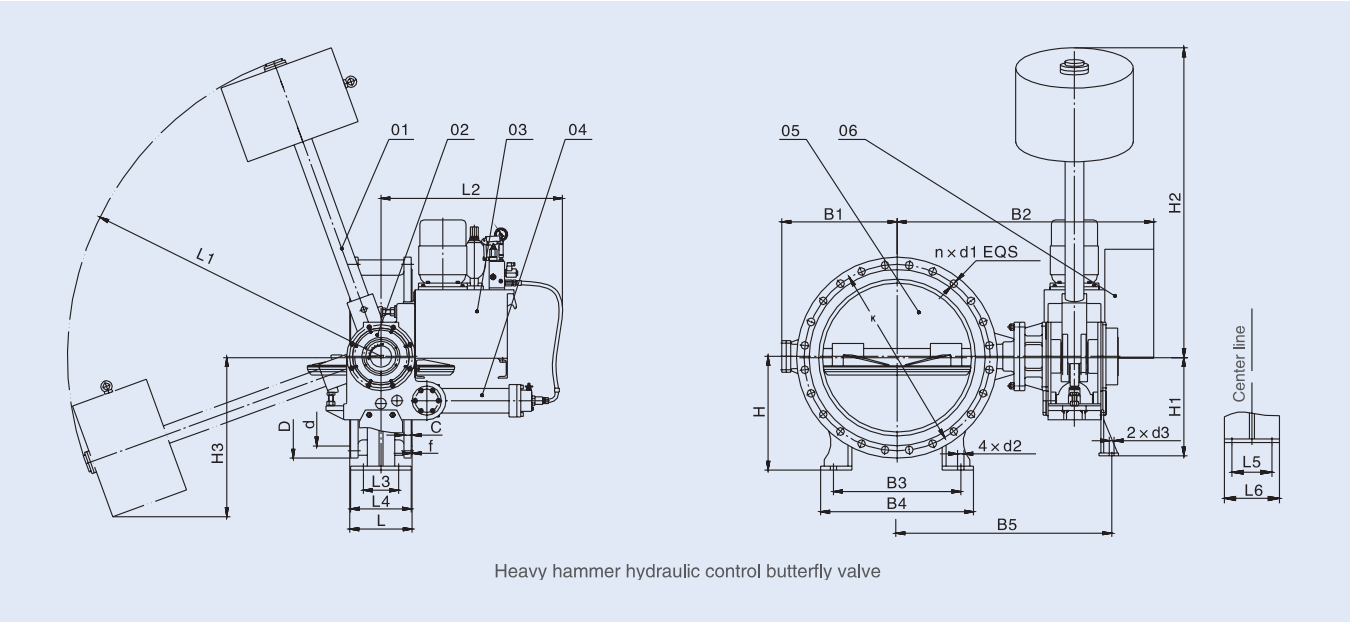
requirements, so as to ensure that the valve can automatically open according to the preset time and angle, and close in either quick or slow speed under the premise of satisfying opening and closing conditions. Meanwhile, it can also achieve no-power valve closing to effectively eliminate destructive water hammer, prevent water pump and turbine runaway accidents, reduce pressure fluctuations in the pipeline network system, and ensure the safe and reliable operation of equipment. The main valve seal is featured with triple offset metal seal or double offset rubber seal structure, which is easy to open and close, and provides reliable sealing effect; an additional enlarged offset enables good self-closing and self-sealing performance of the valve. The medium/small-diameter discs are designed as streamlined plate structure, and the large-diameter discs are designed as double-plate-truss structure, which ensure smooth water flow, low valve flow resistance coefficient, and significant energy-saving effects.

TECHNICAL PARAMETERS

Product standard		JB/T 5299,GB/T 14478,GB/T 12238,JB/T 8527	
Gearing		JB/T 5299 Q/BZZ 09	
Face to face		GB/T 12221	
Piping flange	Gray cast iron flange	GB/T 17241.6	
	Ductile iron flange	GB/T 12380.1-12380.3	
	Steel flange	GB/T 9124	
Accumulator standard		GB/T 2352	
Test and inspection		GB/T 14478,GB/T 13927	
Quality guarantee		ISO9001	
Nominal diameter DN		150-5000mm	
Nominal pressure PN		0.25-6.4MPa	
Test pressure	Seal	1.1×PN	
	Strength	1.5×PN	
Working pressure (MPa)		≤1.0×PN	
Medium temperature (℃)		≤80℃	
Piping medium		Clean water, sea water, sand water, oil products, etc	
Opening and closing parameter	Nominal diameter	<1000	≥1000
	Opening valve time	10-60 sec. (adjustable)	20-120 sec. (adjustable)
	Closing time	Quick close	1.5-15 sec. (adjustable)
		Slow close	2.5-60 sec. (adjustable)
	Closing angle	Quick close	75°±10°(adjustable)
		Slow close	15°±10°(adjustable)

MATERIALS FOR MAIN PARTS

Name of parts	Material
Body	Gray cast iron,DI,carbon steel
Disc	Gray cast iron,DI,carbon steel
Shaft	SS,carbon steel
Body sealing surface	Copper alloy,SS
Disc sealing ring	High quality NBR,SS/Flexible graphite stacking
Sliding bearing	Copper alloy
Packing	V-Sealing ring,Flexible graphite
Wallboard	Carbon steel



MAIN EXTERNAL AND CONNECTING DIMENSIONS(PN10)

UNIT: mm

DN	L	D	K	d	C	f	n	d1	d2	d3	L1	L2	L3	L4	L5	L6	H	H1	H2	H3	B1	B2	B3	B4	B5
500	229	670	620	582	28	2	20	26	32	24	1200	820	150	220	120	180	400	400	1165	630	430	1085	400	500	830
600	267	780	725	682	34	2	20	30	32	24	1200	820	150	220	120	180	460	460	1165	630	515	1210	450	550	965
700	292	895	840	794	34	5	24	30	32	24	1400	920	180	300	160	220	520	520	1380	710	555	1250	570	700	1005
800	318	1015	950	901	36	5	24	33	32	24	1400	920	180	300	160	220	580	580	1380	710	605	1305	650	780	1060
900	330	1115	1050	1001	38	5	28	33	36	24	1600	920	180	300	160	220	640	640	1575	820	670	1360	700	860	1110
1000	410	1230	1160	1112	38	5	28	36	36	24	1600	920	200	360	160	220	690	680	1575	820	755	1480	740	900	1235
1100	410	1340	1270	1222	42	5	28	36	36	28	1600	1030	200	360	160	220	750	740	1575	820	805	1520	760	920	1295
1200	470	1455	1380	1328	44	5	32	39	36	28	1600	1030	200	360	160	220	810	740	1575	820	855	1580	790	950	1335
1250	470	1505	1430	1378	44	5	32	39	36	28	1600	1030	200	360	160	220	810	740	1575	820	875	1600	790	950	1365
1300	530	1575	1490	1425	44	5	32	42	42	28	1800	1030	260	400	160	220	860	740	1770	940	965	1690	820	960	1460
1400	530	1675	1590	1530	48	5	36	42	42	28	1800	1030	260	400	160	220	940	740	1770	940	1070	1790	840	1000	1530
1500	600	1785	1700	1640	48	5	36	48	42	28	2100	1150	260	400	160	220	1000	830	2060	1040	1145	1910	900	1050	1575
1600	600	1915	1820	1750	52	5	40	48	42	28	2100	1150	270	400	160	220	1080	830	2060	1040	1210	1995	1100	1300	1615
1750	670	2065	1970	1900	54	5	44	48	42	28	2100	1150	300	500	160	220	1130	830	2070	1080	1275	2065	1350	1500	1680
1800	670	2115	2020	1950	56	5	44	48	42	28	2100	1150	300	500	160	220	1130	830	2070	1080	1290	2093	1370	1570	1710
2000	760	2325	2230	2150	60	5	48	48	42	32	2300	750	360	560	200	300	1250	920	2250	1150	1380	2205	1400	1650	1848
2200	590	2550	2440	2370	60	6	52	56	42	32	2300	770	300	450	200	300	1320	920	2250	1150	1480	2280	1600	1880	1948
2250	590	2600	2490	2420	60	6	52	56	42	32	2300	770	300	450	200	300	1320	920	2250	1150	1530	2310	1600	1880	1978
2400	650	2760	2650	2570	64	6	56	56	48	32	2400	920	350	500	200	300	1440	980	2350	1190	1590	2350	1740	2020	2110
2600	700	2960	2850	2780	66	6	60	56	48	32	2400	920	400	550	200	300	1520	980	2350	1190	1750	2470	1850	2200	2238
2800	760	3180	3070	3000	68	6	64	56	48	32	2500	960	500	650	200	300	1620	1000	2440	1250	1850	2640	2000	2400	2355
3000	810	3405	3290	3210	72	6	68	62	48	32	2500	960	550	700	200	300	1720	1000	2440	1250	1950	2780	2160	2560	2535
3200	870	3655	3540	3460	82	6	72	62	48	28	2500	960	600	750	200	300	1820	1000	2440	1250	2080	2980	2360	2760	2695

Note: This table does not list the specifications and parameters, please consult our technical department.

MAIN EXTERNAL AND CONNECTING DIMENSIONS(PN10)

UNIT: mm

DN	L	D	K	d	C	f	n	d1	d2	L1	L2	L3	L4	H	H1	H2	B1	B2	B3	B4
500	229	670	620	582	28	2	20	26	—	305	145	—	—	—	285	495	430	885	—	—
600	267	780	725	682	34	2	20	30	—	305	145	—	—	—	285	495	515	1010	—	—
700	292	895	840	794	34	5	24	30	—	305	145	—	—	—	285	495	555	1050	—	—
800	318	1015	950	901	36	5	24	33	—	345	155	—	—	—	300	660	605	1105	—	—
900	330	1115	1050	1001	38	5	28	33	36	345	155	180	300	640	300	660	670	1160	700	860
1000	410	1230	1160	1112	38	5	28	36	36	430	155	200	360	690	415	835	755	1280	740	900
1100	410	1340	1270	1222	42	5	28	36	36	430	155	200	360	750	415	835	805	1320	760	920
1200	470	1455	1380	1328	44	5	32	39	36	430	155	200	360	810	415	835	855	1380	790	950
1250	470	1505	1430	1378	44	5	32	39	36	430	155	200	360	810	415	835	875	1400	790	950
1300	530	1575	1490	1425	44	5	32	42	42	430	155	260	400	860	415	835	965	1490	820	960
1400	530	1675	1590	1530	48	5	36	42	42	480	240	260	400	940	620	930	1070	1590	840	1000
1500	600	1785	1700	1640	48	5	36	48	42	480	240	260	400	1000	620	930	1145	1710	900	1050
1600	600	1915	1820	1750	52	5	40	48	42	480	240	270	400	1080	620	930	1210	1795	1100	1300
1750	670	2065	1970	1900	54	5	44	48	42	480	240	300	500	1130	620	930	1275	1865	1350	1500
1800	670	2115	2020	1950	56	5	44	48	42	480	240	300	500	1130	620	930	1290	1893	1370	1570
2000	760	2325	2230	2150	60	5	48	48	42	520	320	360	560	1250	830	1275	1380	2005	1400	1650
2200	590	2550	2440	2370	60	6	52	56	42	520	320	300	450	1320	830	1275	1480	2080	1600	1880

Note: This table does not list the specifications and parameters, please consult our technical department.

RVHX RESILIENT SEATED SEALING GATE VALVE



EXECUTIVE STANDARD

Item	Executive STD	Export STD
Manufacturing standards	CJ/T216	EN 171 DIN3352
Face to face	GB/T12221	BS DIN1558-1 DIN 3202
Flange standard	GB/T17241.6	EN1092-2
Test pressure	GB/T13927	BS EN 12266-1 BS EN12266-2

CHARACTERISTICS OF ELASTIC SEAT SEAL GATE VALVES

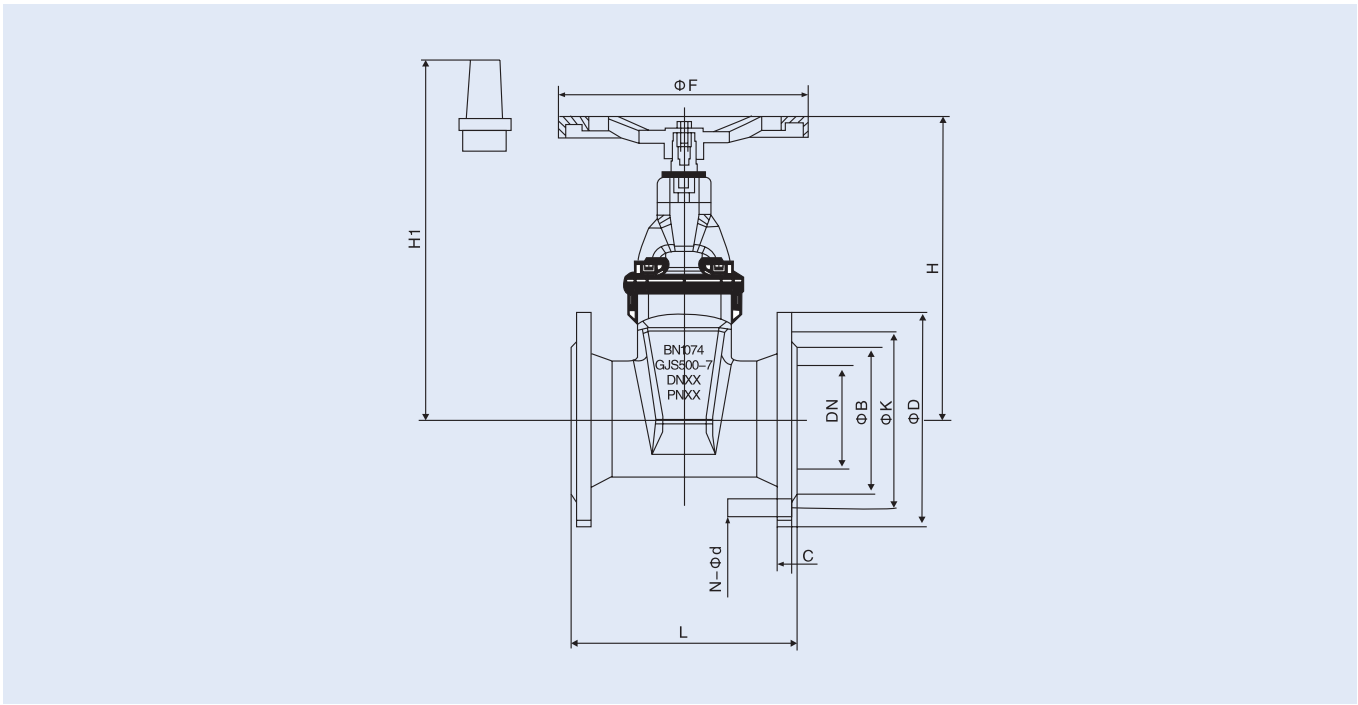
Environmentally friendly coatings	The resilient seated gate valve is sprayed with environmental-friendly epoxy resin under high temperature to prevent the valve from rusting permanently.
Full-bore flat-bottom runner	The bottom of the seat has no groove and can hardly result in debris accumulation, and the runner is of the same diameter as the pipeline, so as to minimize the flow resistance.
Fully rubber-coated disc	The disc is made of advanced geometric compression molding technology to achieve high-strength adhesion.
Tapered stem	The tapered design enhances the strength of the stem and optimizes the structure of the valve for durability.
U-shaped guide sleeve	The guide groove of the disc is embedded with a u-shaped guide sleeve made of nylon engineering plastic to reduce opening and closing friction.

BASIC PARAMETERS

Applicable medium	Water, seawater, air, oil products, natural gas, weakly corrosive fluids
Driving method	Handwheel, transmission cap, electric, pneumatic
Installation method	Vertical installation and horizontal installation
Operating temperature	0℃ - 80℃
Connection method	Flange

◦ MATERIALS FOR MAIN PARTS

NO.	Parts	Material	Specification
1	Body	DI,SS	QT 450 304
2	Copper nut	Copper alloy	Forged brass/bronze
3	Stem	SS	ASI 420/AISI 431
4	Sealing gasket	Rubber	NBR
5	Bonnet	DI,SS	QT450 304
6	U-ring	Rubber	NBR
7	O-ring	Rubber	NBR
8	Shaft sleeve	Plastic	PC
9	O-ring	Rubber	NBR
10	Dust cover	Rubber	NBR
11	Handwheel	Carbon steel,cast iron	Standard parts
12	Flat gasket	Galvanized carbon steel,SS	Standard parts 304
13	Hexagon headed bolt	Carbon steel, SS	Standard parts 304
14	Transmission cap	DI	GJS 500-7
15	Hexagon headed bolt	Carbon steel, SS	Standard parts 304
16	Shaft cover	DI,SS	GJS 500-7 304
17	Disc	DI + rubber	QT450+EPDM
18	Hexagon headed bolt	Carbon steel, SS	Standard parts 304



◦ MAIN EXTERNAL AND CONNECTING DIMENSIONS

UNIT: mm

Model	Nominal diameter DN	L			ΦD		ΦK		n-Φd		C		ΦB	H	H1	ΦF
		BS	F4	F5	PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16				
RVHX-0050	50	178	150	250	165		125		4-Φ19		18		95	220	267	175
RVHX-0065	65	190	170	270	185		145		4-Φ19		18		116	245	292	175
RVHX-0080	80	203	180	280	200		160		8-Φ19		18		132	275	320	200
RVHX-0100	100	229	190	300	220		180		8-Φ19		18		156	330	367	250
RVHX-0125	125	254	200	325	250		210		8-Φ19		18		170	365	402	250
RVHX-0150	150	267	210	350	285		240		8-Φ23		18		211	405	450	280
RVHX-0200	200	292	230	400	340		295		8-Φ23	12-Φ23	18		260	510	556	350
RVHX-0250	250	330	250	450	400		350	355	12-Φ23	12-Φ28	19		320	615	658	350
RVHX-0300	300	356	270	500	455		400	410	12-Φ23	12-Φ28	21		370	695	740	350
RVHX-0350	350	381	290	550	520		470		16-Φ28		26.5		429	890	955	400
RVHX-0400	400	406	310	600	580		525		16-Φ31		28		480	970	1040	400
RVHX-0450	450	432	330	650	640		565	585	20-Φ28	20-Φ31	30		520	1025	1105	400
RVHX-0500	500	457	350	700	715		620	650	20-Φ28	20-Φ34	31.5		609	1153	1235	450
RVHX-0600	600	508	390	800	810	840	725	770	20-Φ31	20-Φ37	36		720	1310	1395	450

900HS MULTI-FUNCTIONAL MICRO-RESISTANCE SLOW-CLOSING CHECK VALVE

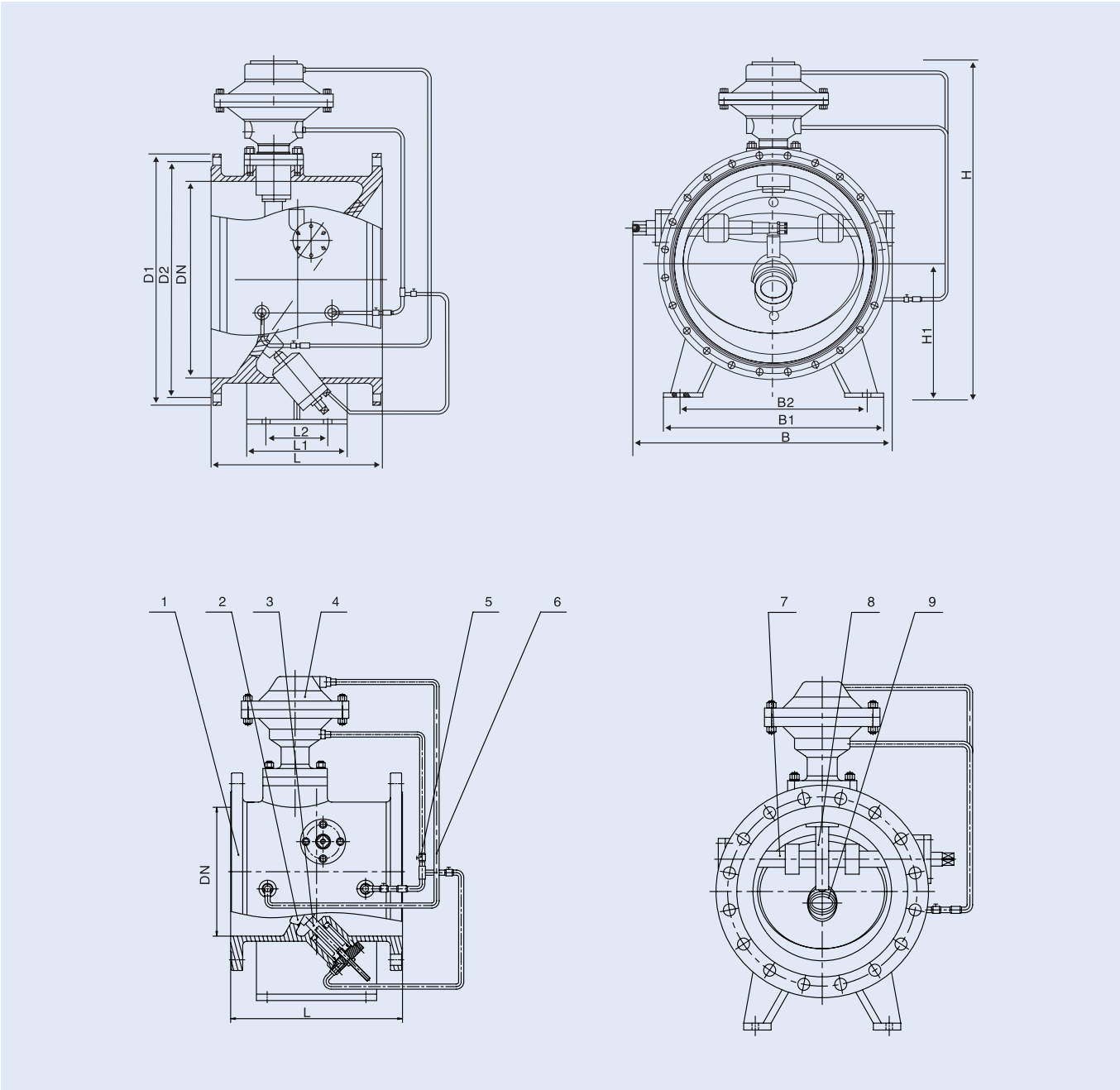


◦ PRODUCT OVERVIEW

Multi-functional micro-resistance slow-closing check valve is the fifth generation of new products after the old manual control valves, hydraulic butterfly valves, multi-functional hydraulic valves and hydraulic automatic valves and other control valves for water pump export. Through the fluid design of the valve, the formation of linear flow path, low energy consumption, stable operation, good sealing effect, it both electric gate valve, electric butterfly valve and check valve functions, by improving the fast closing time, can better eliminate water hammer hazards, to protect the pump and pipeline network system safety. Multi-functional micro-resistance slow-closing check valve is mainly used in centrifugal pumps, mixed-flow pumps and axial-flow pumps of automated water supply and drainage pumping stations for the outlet pipe, designed with two kinds of piston and diaphragm control devices, which can be applied to clear water, raw water media and sewage, slurry water media respectively. Due to the compact structure, small volume, light weight, especially suitable for large diameter pipeline system. Can be widely used in electric power, environmental protection, metallurgy, petrochemical, water, municipal, food and other industries supply and drainage systems, sewage pumping station, chemical fluid delivery system, is currently the most innovative structure at home and abroad, the most advanced performance, the operation of the most reliable pumping station new control equipment.

◦ MAIN TECHNICAL CHARACTERISTICS OF PRODUCTS

- 1. Multiple functions:**
With the elimination of water hammer, slow closure and check back, reproducing the function of starting the pump, etc., the function is diversified.
- 2. Slowly open the pump:**
In the system after starting the pump check valve at the inlet end of the microporous check valve, only to reach a certain pressure situation check valve can be slowly opened, minimizing the start pump current, thus ensuring the safety of the motor and electronic control system.
- 3. Fast shut-off and slow closure:**
With a unique small valve plate structure, when the pump stops, the first fast shutdown and then slow closure effectively eliminates the water hammer generated by the system to ensure the safe operation of the system.
- 4. Exquisite appearance:**
The structure adopts the design of the upper control device, saving space in appearance, and the unique connection structure of the valve ensures the reliability of operation. Valve fittings precision manufacturing structure of good strength, external pipe accessories reasonable and beautiful layout.
- 5. Convenient installation:**
Adopting valve plate inclined design, characterized by small volume, small space occupation and light weight, convenient construction, reduce installation costs, and can be applied to multiple working conditions installation.
- 6. Convenient maintenance:**
Adopts an integrated structure. There is no need for external power and components to reduce the failure rate; the opening and closing of the valve is driven by the conveyed medium, which can be automatically interlocked with the pump. There is no need to operate manually with external power, the filter in the conduit channel has a two-way automatic flushing function, and the overhaul of the components in the control chamber can be carried out at the same time under normal operation of the system.
- 7. Reduce head loss:**
The use of oblique valve plate media overflow is large, along the loss and local loss is very small; reduce power consumption to achieve the purpose of energy saving.
- 8. Reliable sealing:**
Soft and hard double sealing structure and metal hard sealing junction sealing vice friction torque is very small; oblique eccentric structure sealing vice, shorten the shut-off valve stroke, reduce the sealing ring slip distance, reduce the friction torque, to achieve the effect of instantaneous clutch. And it has the function of anti-sand and pressure automatic compensation; body, plate sealing angle optimization design, so that the valve opening and closing flexible and reliable.



○ MAIN PARTS MATERIAL

NO.	Part name	Material
1	Body	Cast Steel, DI
2	Disc	Cast Steel, DI
3	Slow closing piston	Cast Steel
4	Control part	304,NBR
5	Ball valve	Brass

NO.	Part name	Material
6	Bypass group	Copper,304
7	Stem	2Cr13
8	Control ejector lever	2Cr13
9	Disc	Carbon steel, SS

○ MAIN EXTERNAL AND CONNECTING DIMENSIONS

UNIT: mm

Nominal diameter DN	Length	External dimensions								Connecting dimension(standard data)					
										PN1.0MPa			PN1.6MPa		
mm	L	L1	L2	H	H1	B	B1	B2	n-b	D	D1	n-d	D	D1	n-d
200	190	/	/	520	/	355	/	/	/	340	295	8-22	340	295	12-22
250	250	/	/	580	/	420	/	/	/	395	350	12-22	405	355	12-26
300	270	/	/	710	/	490	/	/	/	445	400	12-22	460	410	12-26
350	290	/	/	770	/	560	/	/	/	505	460	16-22	520	470	16-26
400	406	/	/	830	/	625	/	/	/	565	515	16-26	580	525	16-30
450	432	/	/	870	/	685	/	/	/	615	565	20-26	640	585	20-30
500	457	/	/	930	/	720	/	/	/	670	620	20-26	715	650	20-33
600	508	/	/	1090	/	910	/	/	/	780	725	20-30	840	770	20-36
700	610	300	220	1260	520	1050	760	650	4-30	895	840	24-30	910	840	24-36
800	660	360	240	1440	600	1170	820	720	4-30	1015	950	24-33	1025	950	24-39
900	711	420	300	1535	650	1315	950	820	4-30	1115	1050	28-33	1125	1050	28-39
1000	811	460	350	1750	700	1460	1040	900	4-36	1230	1160	28-36	1255	1170	28-42
1200	850	500	410	1960	800	1580	1240	1070	4-36	1455	1380	32-39	1485	1390	32-48
1400	950	620	500	2250	900	1900	1400	1250	4-36	1675	1590	36-42	1685	1590	36-48
1600	1100	750	600	2500	1020	2100	1520	1300	4-36	1915	1820	40-48	9130	1820	40-55
1800	1200	860	700	2820	1150	2400	1620	1400	4-36	2115	2020	44-48	2130	2020	44-55
2000	1300	980	820	3150	1250	2750	1800	1550	4-48	2325	2230	48-48	2345	2230	48-60
2200	1450	1100	900	3500	1360	3000	1980	1700	4-48	2560	2440	52-62	/	/	/
2400	1550	1250	1100	3800	1480	3200	2320	2020	4-48	2760	2650	56-56	/	/	/
2600	1700	1400	1200	4180	1600	3500	2380	2050	4-48	2960	2850	60-48	/	/	/
2800	1850	1550	1350	4550	1700	3800	2520	2240	4-48	3180	3070	64-48	/	/	/
3000	2000	1680	1460	4900	1850	4100	2990	2660	4-48	3400	3290	68-48	/	/	/

◦ MAIN PART MATERIAL

Name	Normal material	Chrome nickel stainless steel	Seawater resistant material
Spindle	SS 2Cr13	ZG1Cr18Ni9Ti	316L
Diaphragm/piston	Nitrile rubber/SS	EPDM/2Cr13	EPDM/316L
Body sealing surface	Semi-ferritic high-chromium steel D507 Cemented carbide STL A102 SS	ZG1 Cr18Ni9Ti	ZcuZn38Mn2Pb2 mangnese brass
Hard seal	D507+A102	316L+316L	T+316L

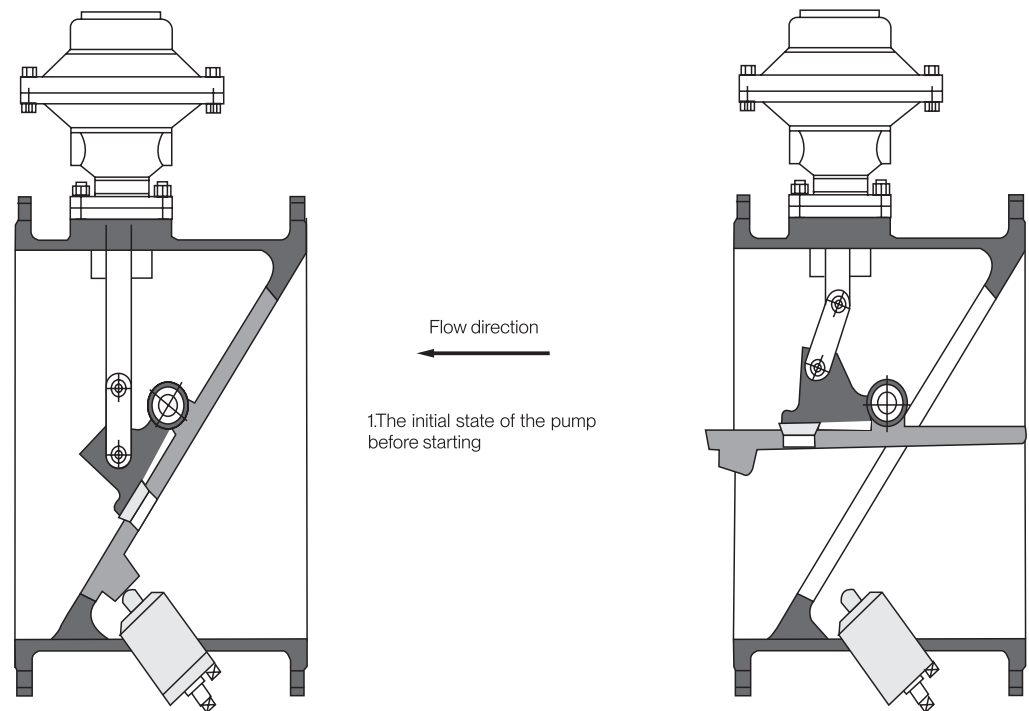
◦ MAIN MANUFACTURE STANDARD

Project	National standard	International standard
Pressure test standards	GB/T13927	
Flange Standard	GB/T 9124	JIS B2071
Structure length standard	GB12221	ISO5752 JISB2002
Design and manufacture standard	GB/T12236	ANSI/API 600 ANSI/ASTM A216 API 6D
Material standard	GB/T12229 GB/T12230	ASTM A351 ASTM A703

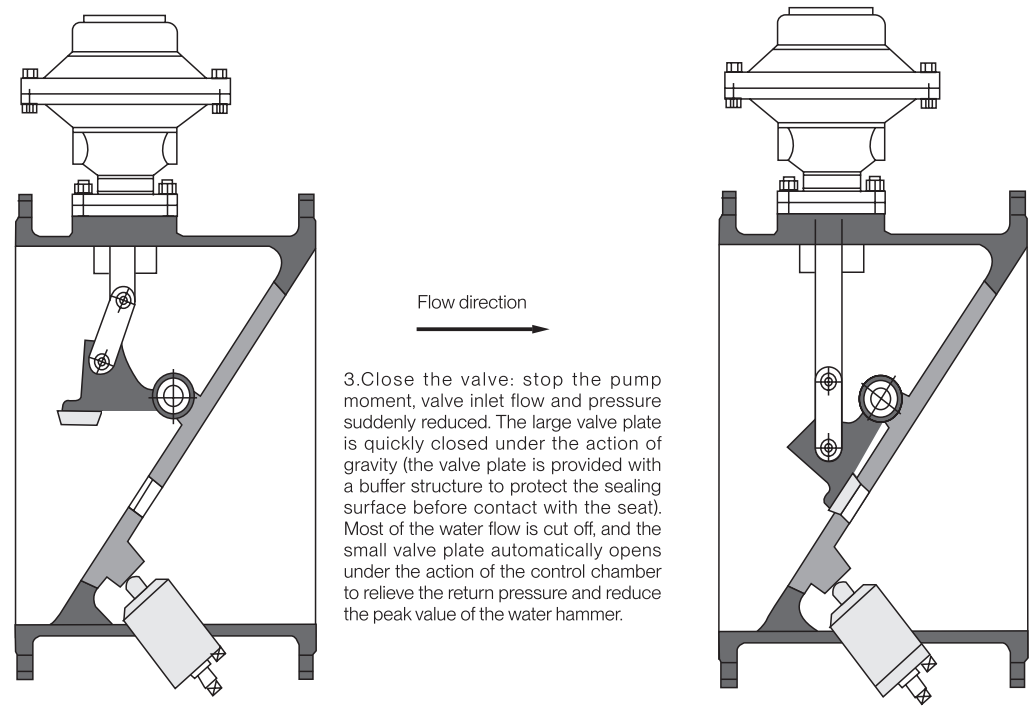
◦ MAIN TECHNICAL PERFORMANCE

Project		Size	
		<100mm	≥1000mm
Valve closing time(s)	Fast	1-2.5	1-5
	Slow	3-60	5-90
Minimum working pressure(Mpa)		0.05	
Resistance coefficient		0.3-1.1	
Opening time		10-60	
Peak water hammer		≤1.5 Times the pump outlet rated pressure	
Maximum pump reversal speed		≤1.2 Times pump rated speed	
Applicable temperature		Unspecified is 0-80℃ , -25℃ -200℃ can be produced.	

◦ WORKING PRINCIPLES(AS BELOW)

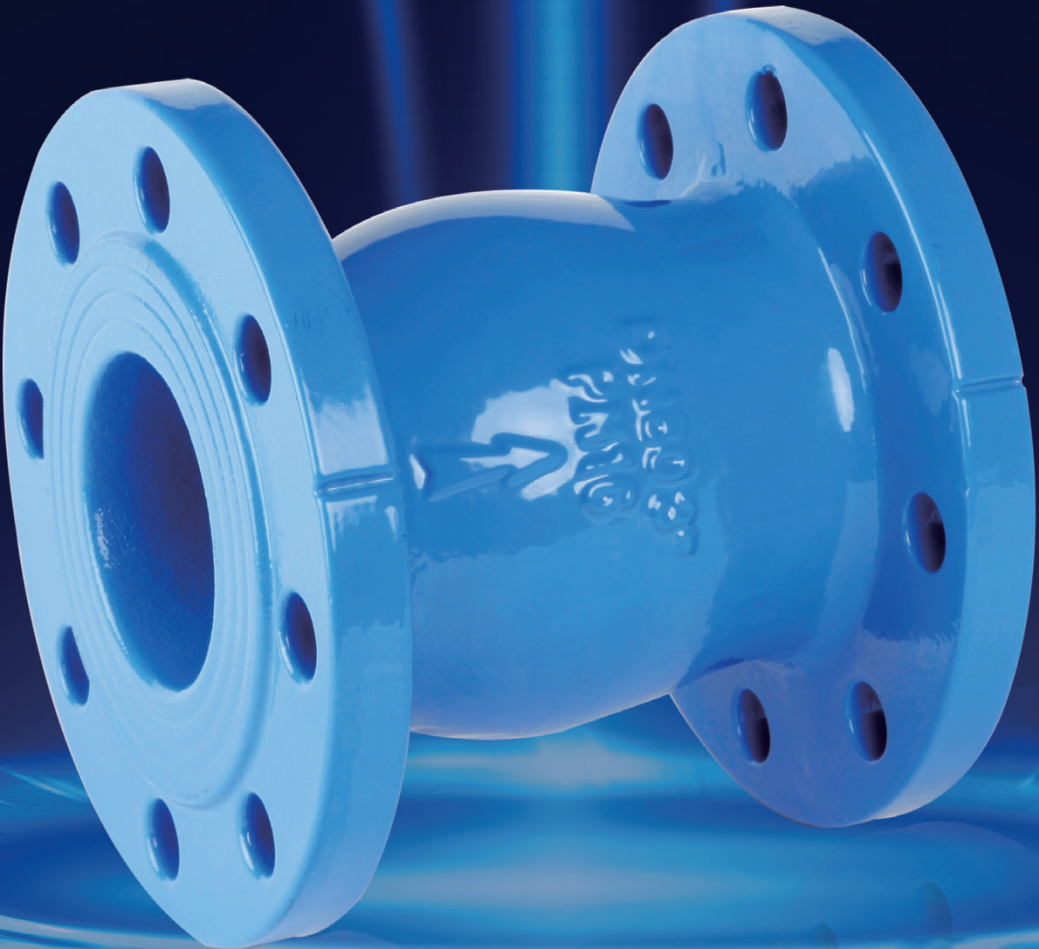


2. When the water pump starts, the water pressure enters the lower chamber of the control chamber through the bypass pipe with micro-hole check valve at the inlet. Under the hydraulic action of the inlet end, the large valve plate is slowly opened together with the small valve plate. The opening speed of the valve can be set by adjusting the opening of the bypass ball valve according to the working conditions to achieve the best effect.



4. At the same time when the large valve disc is closed, part of the return water enters the upper chamber of the control chamber through the bypass pipe, pushes the control rod down, closes the small valve plate to completely cut off the medium, and the closing time can be adjusted by the regulating valve on the bypass pipe, so that the peak value of the water hammer is within the control range.

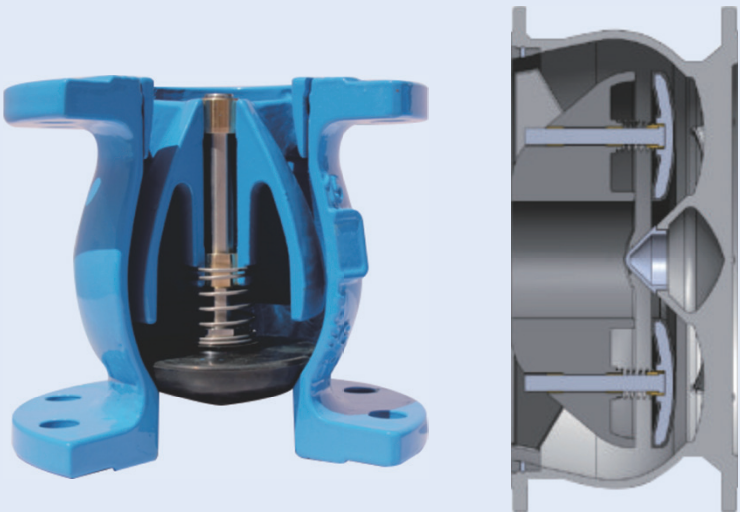
DRVZ SILENT CHECK VALVE



Leading the global valve industry.

DSIGN FEATURE

- 1. Reasonable streamlined design
- 2. No noise
- 3. Low pressure loss
- 4. 0.2s Quick close
- 5. Flow velocity 2m/s fully open
- 6. Fully covered rubber disc
- 7. Valve body guide body powder epoxy coating



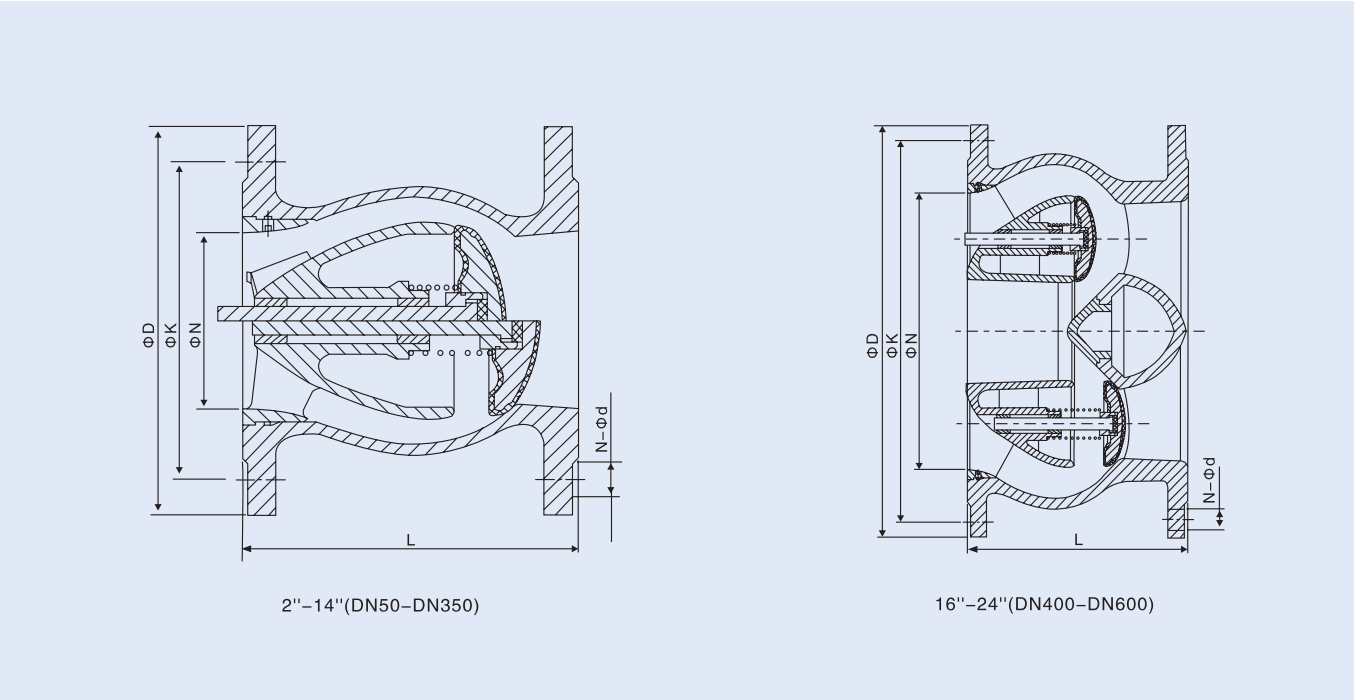
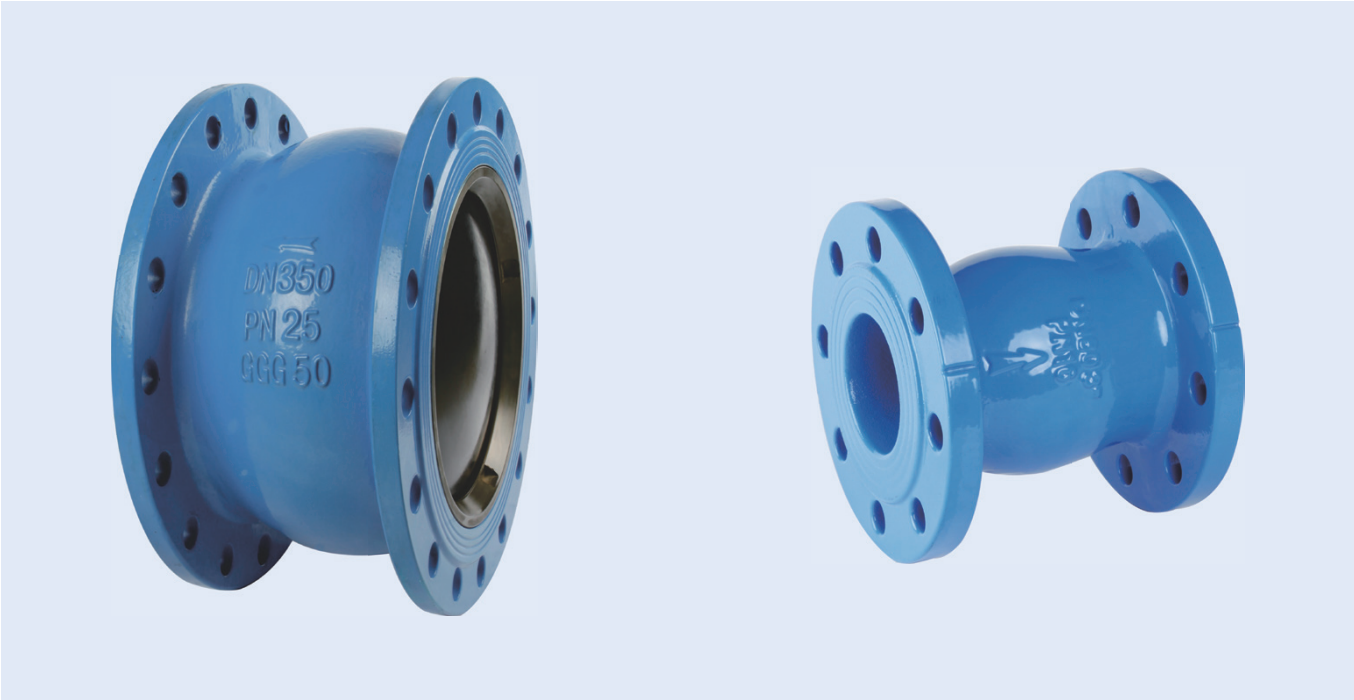
SPECIFICATION PARAMETER

Project	Technical specification
Size	2"-24"(DN50-DN600)
Pressure	PN10/16/25
Medium	Clear water
Temperature	-10℃ -80℃

STANDARD MATERIAL CONFIGURATION SHEET

2"-14"(DN50-DN350)

Name	Material
Boyd	GJS 500-7
Disc	GJS 500-7+EPDM
Spring	AISI 304
O-ring	NBR
Stem	AISI 304
Gasket	EPDM
Disc nut	AISI 304
Guide sleeve	C61900
Baffler	GJS 500-7



STANDARD MATERIAL CONFIGURATION TABLE

16"–24" (DN400–DN600)

Name	Material
Body	GJS 500-7
Disc	GJS 500-7+EPDM
Spring	AISI 304
Stem	AISI 304
Gasket	EPDM
Disc nut	AISI 304
Guide sleeve	C61900
Plug diversion	GJS 500-7
Baffler	GJS 500-7
Set screw	A2

DESIGN STANDARD

Design	BS EN1074-3 BS EN 12334
Construction length	GB12221/ EN 558-1 / ISO5752 Series 14
Flange standard	GB17241.6/EN 1092-2/ISO7005-2
Test and inspection	BS EN 12266

MAIN EXTERNAL AND CONNECTING DIMENSIONS

UNIT: mm

Nominal diameter	L	Φ D			Φ K			N- Φ d		
		PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25
2"(DN50)	150	165	165	165	125	125	125	4- Φ19	4- Φ19	4- Φ19
2.5"(DN65)	170	185	185	185	145	145	145	4- Φ19	4- Φ19	8- Φ19
3"(DN80)	180	200	200	200	160	160	260	8- Φ19	8- Φ19	8- Φ19
4"(DN100)	190	220	220	235	180	180	190	8- Φ19	8- Φ19	8- Φ23
5"(DN125)	200	250	250	270	210	210	220	8- Φ19	8- Φ19	8- Φ28
6"(DN150)	210	285	285	300	240	240	250	8- Φ23	8- Φ23	8- Φ28
8"(DN200)	230	340	340	360	295	295	310	8- Φ23	12- Φ23	12- Φ28
10"(DN250)	250	405	405	425	350	355	370	12- Φ23	12- Φ28	12- Φ31
12"(DN300)	270	460	460	485	400	410	430	12- Φ23	12- Φ28	16 - Φ31
14"(DN350)	290	520	520	555	460	470	490	16- Φ23	16- Φ28	16- Φ34
16"(DN400)	310	580	580	620	515	525	550	16- Φ28	16- Φ31	16- Φ37
18"(DN450)	330	615	640	670	565	585	600	20- Φ28	20- Φ31	20- Φ37
20"(DN500)	350	670	715	730	620	650	660	20- Φ28	20- Φ34	20- Φ37
24"(DN600)	390	780	840	845	725	770	770	20- Φ31	20- Φ37	20- Φ40

SFCV RUBBER FLAP CHECK VALVE

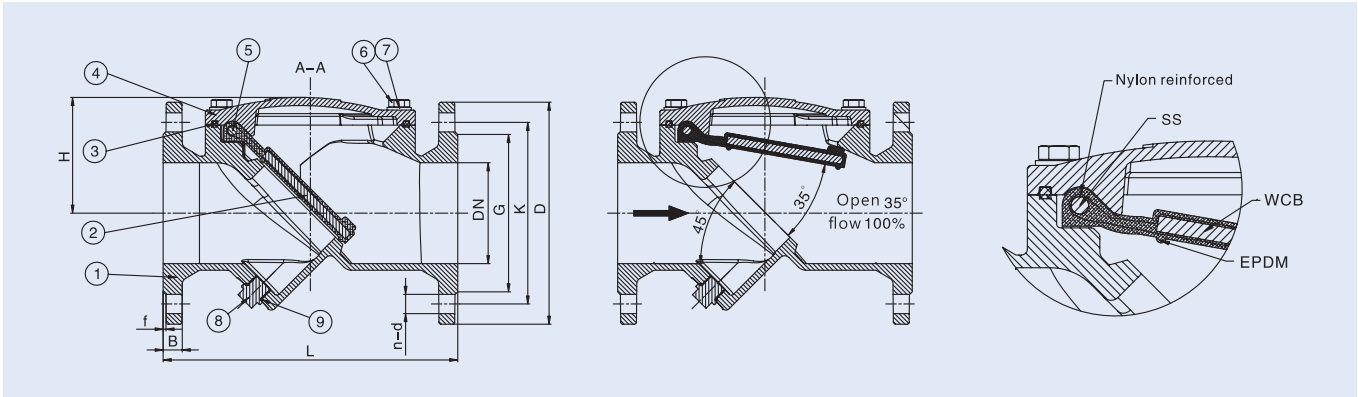
It is applicable to the outlet of water supply and drainage system pipelines to prevent medium backflow.



PRODUCT OVERVIEW

Rubber flap check valve adopts inclined structure, the whole basin area to ensure smooth water flow, the main parts of the valve are: valve body, valve cover, steel shaft, rubber plate composition. The non-return rubber flap is made of steel plate coated with reinforced nylon cloth and nitrile rubber as a whole. The encapsulation is tight, the geometry is accurate, and the sealing elasticity is good, so that the steel plate is completely isolated from the fluid. In order to make the valve flap have good

opening and closing elasticity, the upper part of the valve flap is designed without steel skeleton, and the rubber flap is designed with elastic limiting device on the back of the rubber flap. Angle to achieve reduced opening resistance, to achieve fast opening and fast closing. The valve cover and the valve body are sealed with a type O sealing ring, and the switching life of the rubber flap can reach 1 million times.



MIAN PART MATERIAL

NO.	Part name	Material	Standard
1	Body	QT450-10	DIN 1693
2	Baffle	EPDM+WCB	ASTM A126/ISO4633
3	Bonnet gasket	NBR	ISO 4633
4	Bonnet	QT450-10	DIN 1693
5	Pin	2Cr13	ASTM A276
6	Bolt	304	ASTM A276
7	Washers	304	ASTM A276
8	Nuts	304	ASTM A276
9	Seal ring	NBR	ISO 4633

MAIN TECHNICAL DATA

DN	DN50-300	
PN	1.6MPa	
Test pressure	Strength	2.4MPa
	Sealing	1.8MPa
Temperature	0-80℃	
Medium	Water	

REFERENCE STANDARD

Flange	EN 1092-2
Structure length	DIN3202-F6
Test	EN 12266

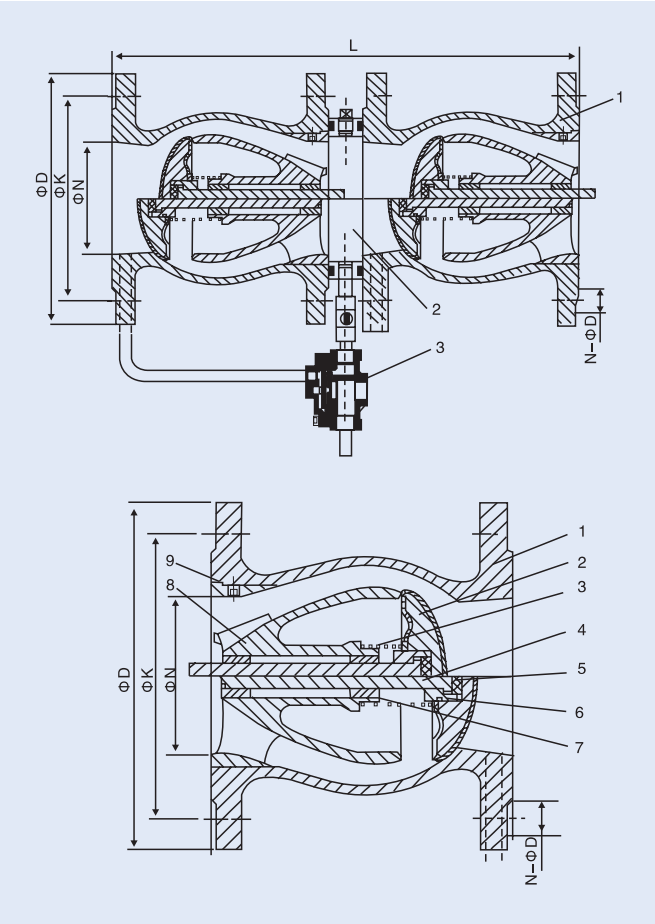
MAIN EXTERNAL AND CONNECTING DIMENSIONS

UNIT: mm

DN	L	D	K	G	n-d	B	f	H
50	203	165	125	99	4-Φ19	19	3	88
65	216	185	145	118	4-Φ19	19	3	100
80	241	200	160	132	8-Φ19	19	3	108
100	292	220	180	156	8-Φ19	19	3	118
125	330	250	210	184	8-Φ19	19	3	150
150	356	285	240	211	8-Φ23	19	3	160
200	495	340	295	266	12-Φ23	20	3	250
250	622	405	355	319	12-Φ28	22	3	295
300	698	460	410	370	12-Φ28	24.5	4	330

HS41X BACKFLOW PREVENTER

It is applicable to water supply and drainage, electric power, metallurgy, petroleum, chemical, gas, urban construction, papermaking, textile, pharmaceutical, food, shipbuilding, energy, drilling and other fields.



PRODUCT OVERVIEW

Backflow preventer is a kind of installation in all kinds of piping system for strictly preventing the medium from flowing backward, to protect the medium or equipment after it is not contaminated non-reversing type of valve. By two series connection of the check valve and isolation chamber part of the composition, sealing tight, to ensure complete isolation of the medium, safe and reliable, long service life.

MAIN PARTS MATERIALS

NO.	Part	Material
1	Body	GJS 500-7
2	Disc	GJS 500-7+EPDM
3	Spring	AISI 304
4	Stem	AISI 304
5	Gaskets	EPDM
6	Disc nut	AISI 304
7	Guide sleeve	C61900
8	Baffle	GJS 500-7
9	Set screw	A2

MAIN EXTERNAL AND CONNECTING DIMENSIONS

UNIT:mm

DN	L	Φ D				Φ K				N- Φ d			
		PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40
50	330	165				125				4- Φ 19			
65	370	185				145				4- Φ 19		8- Φ 19	
80	390	200				160				8- Φ 19			
100	410	220		235		180		190		8- Φ 19		8- Φ 23	
125	430	250		270		210		220		8- Φ 19		8- Φ 28	
150	450	285		300		240		250		8- Φ 23		8- Φ 28	
200	490	340		360	375	295		310	320	8- Φ 23	12- Φ 23	12- Φ 28	12- Φ 31
250	550	405		425	-	350	355	370	-	12- Φ 23	12- Φ 28	12- Φ 31	-
300	590	460		485	-	400	410	430	-	12- Φ 23	12- Φ 28	16- Φ 31	-
350	630	520		555	-	460	470	490	-	16- Φ 23	16- Φ 28	16- Φ 34	-

CARX COMPOUND EXHAUST VALVE

This valve is installed at the outlet of the pump or water distribution line, used to discharge the air accumulated in the pipe to improve the efficiency of the pipeline and the use of water pumps, when the pipe once the negative pressure, this valve quickly sucked in the outside world air, in order to prevent damage to the pipeline due to negative pressure.



• APPLICATIONS

CARX Compound exhaust valves are used in water supply systems, fire fighting, agricultural irrigation.

• TECHNICAL PARAMETER

Size range: DN 50-300mm
Pressure Class: PN1.0MPa, 1.6MPa, 2.5MPa, Class 150
Operating temperature: -10°C -80°C
Fluid medium: water
End connection: PN10/16/25, ANSI 150LB

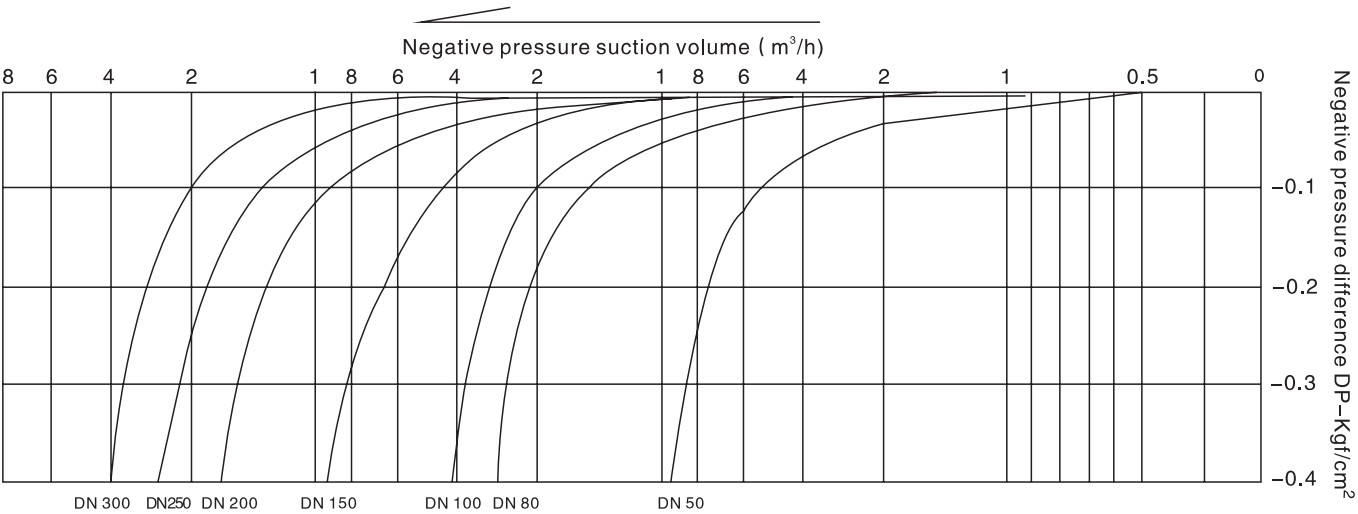
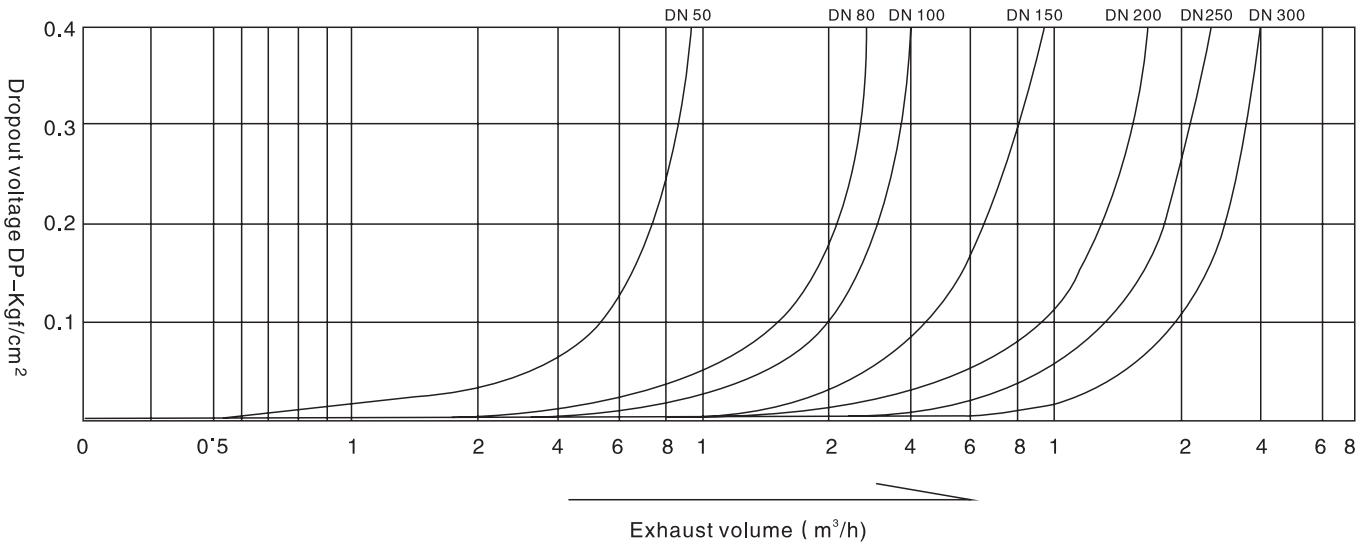
• CARX-THE COMBINED EXHAUST VALVE HAS 3 FUNCTIONS

1. When the empty pipeline system is filled with water, a large amount of air can be discharged;
2. Can continuously discharge the trace amount of air accumulated in the pipeline system;
3. When the pipeline flow is empty, it can be inhaled by a large amount of air in the atmosphere to prevent the pipeline from breaking or deformation.

• PECULARITY

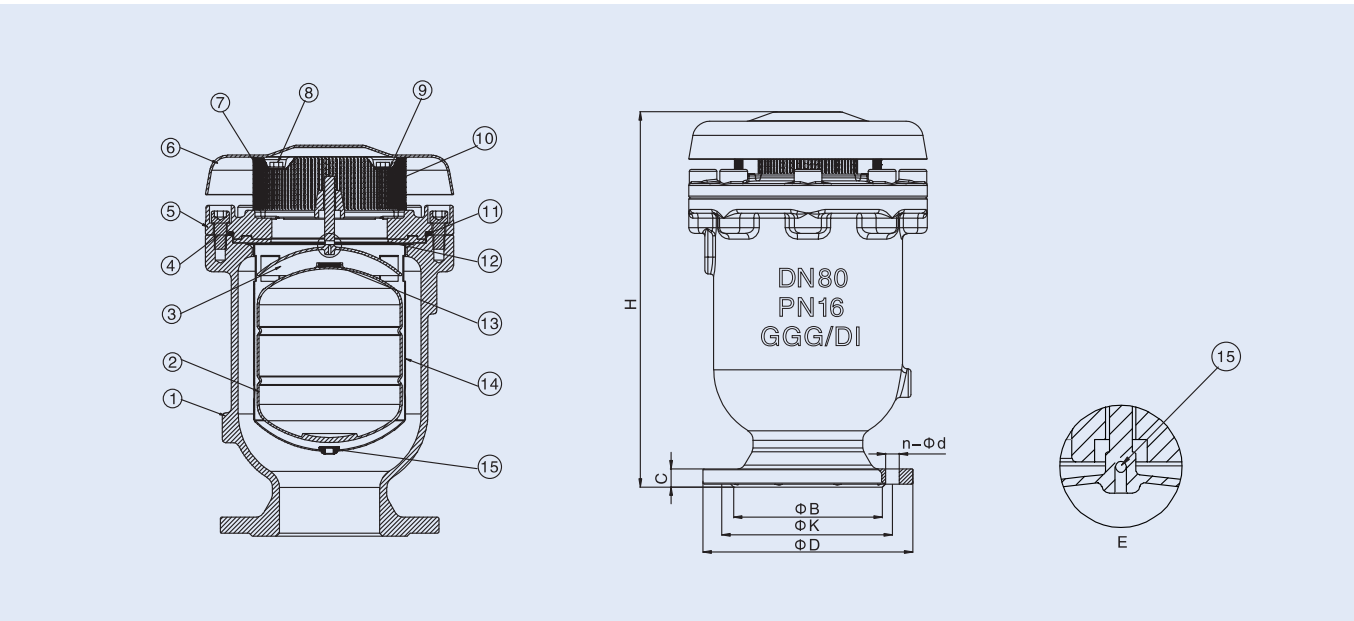
1. Exquisite advanced mechanical design, strong and durable float, can prevent damage by sudden water hammer.
2. Before the water level does not rise to push the float to seal the exhaust big hole; Even if the compressed air velocity reaches the speed of sound, the float can remain in the bottom position.
3. There is no arm or lever to prevent vibration and falling off problems.
4. There is a stainless steel sleeve outside the float to ensure that the float slides in the set guide rail.
5. The bottom rubber anti-collision pad has the function of protecting the collision in the fall of the float in the case of negative pressure, through the exquisite design of enough holes you can achieve rapid drainage and suction function.
6. The upper filter as an optional part, with safety protection and prevent insects or birds from entering the function.
7. The inside and outside of the valve body are coated with epoxy resin, which can achieve longer service life.
8. Manufacturing standards in line with GJ/T 217, BS EN 1074-3 and AWWA C512.
9. Flange drilling and dimensions comply with GB/T 17241.6, BSEN 1092 and BSEN 558 and ANSI specifications.

○ SUCTION AND EXHAUST PERFORMANCE CURVE



○ CARX-FAST RESERCH

Water flow range Maximum flow rate(m³ /h)	1360	4160	8500	19100	33400	76300
Main pipe size(mm)	DN 400	400-700	750-1000	1050-1500	1500-2000	2100-3000
Exhaust valve inlet size(mm)	50	80	100	150	200	300
Exhaust valve outlet size(mm)	50	80	100	150	200	300
Micro-exhaust orifice size(mm)	1.6	2	2.5	3	4	4



○ MIAN PART MATERIAL

NO.	Part name	Material	Standard
1	Body	DI	EN GJS 500-7
2	Floating ball	Stainless steel	AISI 304
3	Sealed cap	Stainless steel	AISI 304
4	Hex head bolt	Stainless steel	G.I Steel/AISI 304
5	Hex head bolt	Stainless steel	G.I Steel/AISI 304
6	Strainer	Stainless steel	AISI 304
7	Dust cap	Cold-roll steel sheet	Outsource
8	Bonnet	DI	EN GJS 500-7
9	Cavity seal ring	Rubber	EPDM
10	End cap	Carbon steel	Outsource
11	Vent gasket	Rubber	EPDM
12	Outer thimble	Stainless steel	AISI 304
13	Crash cushion	Rubber	EPDM
14	End cap	Carbon steel	Outsource
15	Small nozzle	Stainless steel	AISI 304

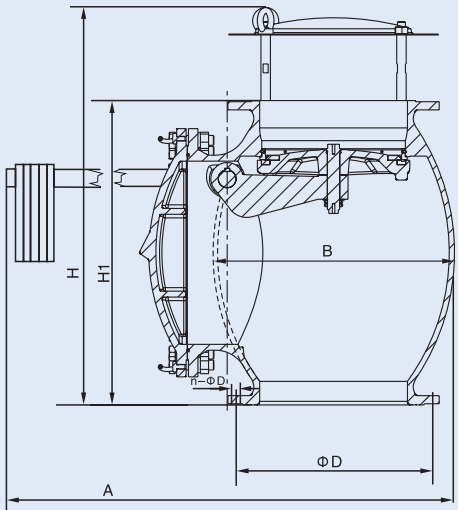
○ MAIN EXTERNAL AND CONNECTING DIMENSIONS

UNIT:mm

Product model number	DN	Φ D			Φ K			N- Φ d			H
		PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25	
CARX-0050	50	165	165	165	125	125	125	4- Φ19	4- Φ19	4- Φ19	280
CARX-0080	80	200	200	200	160	160	160	8- Φ19	8- Φ19	8- Φ19	365
CARX-0100	100	220	220	235	180	180	190	8- Φ19	8- Φ19	8- Φ23	395
CARX-0150	150	285	285	300	240	240	250	8- Φ23	8- Φ23	8- Φ28	485
CARX-0200	200	340	340	360	295	295	310	8- Φ23	12- Φ23	12- Φ28	570
CARX-0250	250	395	405	425	350	355	370	12- Φ23	12- Φ28	12- Φ31	655
CARX-0300	300	445	460	485	400	410	430	12- Φ23	12- Φ28	16- Φ31	750

GARX VACUUM MAKE-UP VALVE

It is suitable for water supply, fire-fighting and air-conditioning systems in civil buildings, petroleum, chemical industry, waterworks and so on.



SUMMARIZE

Vacuum make-up valve can be opened automatically and quickly when negative pressure occurs in the system to make up gas to the system, or make up water from the regulator tower to make up for the system vacuum, limit the vacuum pressure

within the safe design of the system, destroy the vacuum effect, and ensure the safe operation of the system.

PERFORMANCE FEATURE

- 1.Open the need for low vacuum, when the system pressure is lower than the atmospheric pressure of 200mm water column, the valve is quickly opened.
- 2. Sealing effect is good.
- 3. Inhale or replenish water quickly.

TECHNICAL DATA

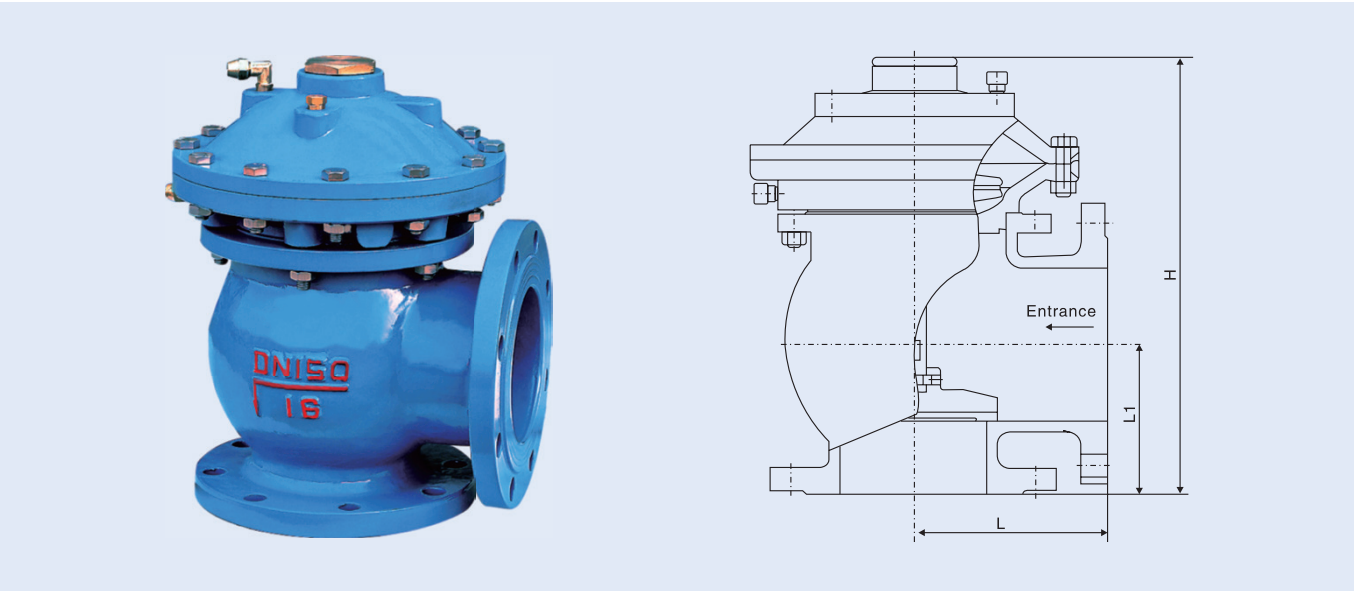
- 1.Working pressure:1.0-1.6mpa
- 2. Nomianl size working:DN300-800mm
- 3. Temperature applicable:-30-70°C
- 4. Medium:clear water, raw water, sewage, mining

EXTERNAL DIMENSION

Nominal size(mm)	Nominal pressure PN	Total height H(mm)	Construction length H1	Total wegh A×B(mm)	Diameter of center circle of bolt hole D(mm)	Bolt hole quantity n	Bolt hole diameter D (mm)
300	1.0	780	610	790×530	400	12	23
	1.6				410		28
350	1.0	880	686	960×600	460	16	23
	1.6				470		28
400	1.0	980	760	1130×673	515		28
	1.6				525		31
450	1.0	1120	864	1300×740	565	20	28
	1.6				585		31
500	1.0	1200	914	1460×800	620		28
	1.6				650		34
600	1.0	1400	1067	1790×940	725		31
	1.6				770		37
700	1.0	1570	1180	2120×1080	840	24	31
	1.6						37
800	1.0	1690	1330	2460×1210	950		34
	1.6						40

JM744X DIAPHRAGM TYPE MUD DISCHARGE VALVE

It is usually installed at the bottom of the sedimentation tank of a wastewater treatment plant to discharge the sediment and dirt settled at the bottom of the tank.



◦ SUMMARIZE

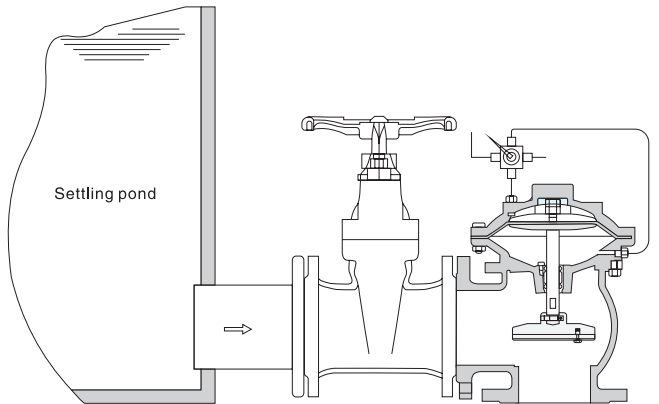
JM744X, JM644X diaphragm type hydraulic and pneumatic quick opening mud valve is a kind of angular truncated valve with hydraulic source or pneumatic source as the actuator. It is usually installed in rows on the outer wall of the bottom of the settling tank to remove the sediment and dirt from the bottom of the pool. The valve is divided into two chambers by nylon reinforced rubber diaphragm, connected with

hydraulic or pneumatic source, and controlled by electric or manual two-position four-way directional valve to achieve rapid mud discharge. The valve will replace the diaphragm piston, no motion friction, more suitable for mud and other granular media, greatly improve the service life of the valve.

◦ TECHNICAL DATA

Nominal pressure:PN0.6MPa,1.0MPa,1.6MPa
Nominal size:DN100-400mm
Lowest drive pressure:0.15MPa
Applicable medium:Water, sewage
Medium applicable:Clear water, gas
Temperature flange:0-80℃
Standard experiment:GB/T 17241.6 GB/T 9124
Standard:GB/T 13927 API 598

◦ TYPICAL INSTALLTION PICTURE



◦ MAIN PART MATERIAL

Part name	Body, bonnet	Diaphragm pressure plate valve disc	Stem	Diaphragm
Material	DI, carbon steel	DI, bronze	Stainless steel	Nylon intense rubber

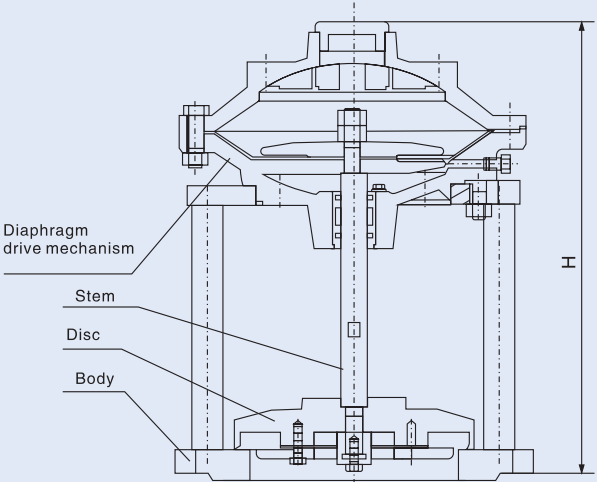
◦ MAIN EXTERNAL AND CONNECTING DIMENSIONS

UNIT:mm

DN	100	150	200	250	300	350	400
L	160	190	225	260	280	315	340
L1	120	150	190	220	260	300	340
H	370	440	530	615	785	880	970

JM742X DIAPHRAGM BOTTOM DISCHARGE VALVE

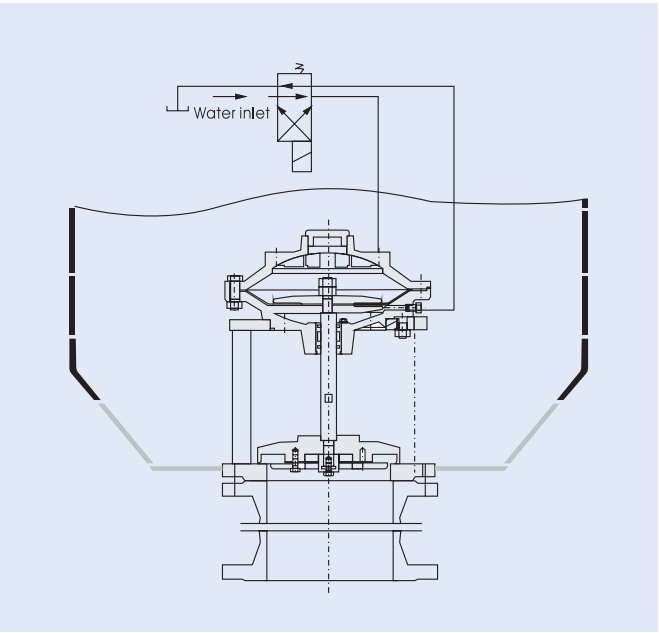
Diaphragm type pool bottom discharge valve is installed at the bottom of all kinds of sedimentation pools, discharging mud and sand and pollutants at the bottom of the pool through the control of the reversing valve.



OVERVIEW

This product is installed at the bottom of all kinds of settling pools, and the sediment and dirt at the bottom of the pool can be removed by opening and closing the control valve of the reversing valve.

TYPICAL INSTALLATION PICTURE



TECHNICAL DATA

Nominal pressure:PN1.0MPa
Open and close pressure:0.15-0.6MPa
Diaphragm transmission medium:clear water, air
Applicable medium:Clean water, sewage
Working temperature:0-80℃

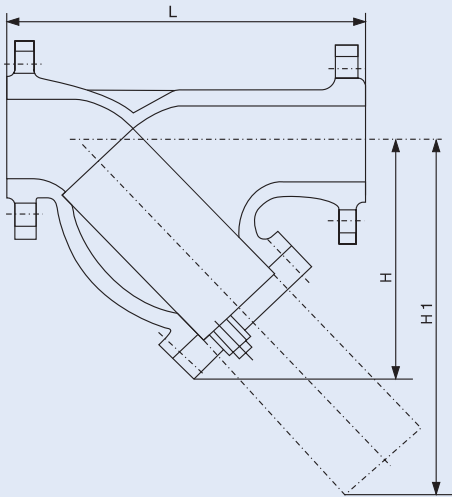
MAIN EXTERNAL AND CONNECTING DIMENSIONS

UNIT:mm

DN	100	150	200	250	300	350	400
H	260	375	430	525	585	600	680

SY4P-Y TYPE FILTER

Usually installed at the inlet end of pressure reducing valves, pressure relief valves, fixed water level valves or other equipment, used to remove impurities in the medium to protect the normal use of valves and equipment.



PRODUCT OVERVIEW

SY4P-Y type filter is a filter equipment necessary for the use of hydraulic control valves and precise mechanical products that are easy to clog. It is usually installed at the inlet end of hydraulic control valves and other equipment to prevent particulate impurities from entering the channel, causing blockage, so that valves or other equipment can not be used normally. The SY4P-Y filter has the advantages of simple structure, low flow resistance, and can remove dirt online without dismantling.

TECHNICAL DATA

Model	Nominal pressure (MPa)	Shell test pressure (MPa)	Working pressure (MPa)
SY4P	1.6	2.4	1.6

MAIN PART MATERIAL

Part name	Body	Strainer	O-ring
Material	DI carbon steel	Stainless steel	NBR

MAIN EXTERNAL AND CONNECTING DIMENSIONS

SY4P-10/16/25 UNIT:mm

DN		65	80	100	125	150	200	250	300	350	400	450	500
L	Thread	-	-	-	-	-	-	-	-	-	-	-	-
	Flange	250	280	350	400	440	500	580	670	780	850	850	100
H	Thread	-	-	-	-	-	-	-	-	-	-	-	-
	Flange	198	210	250	305	358	450	503	578	598	618	693	765
H1	Thread	-	-	-	-	-	-	-	-	-	-	-	-
	Flange	270	295	344	422	485	602	710	815	844	872	978	1080

PQ340X TOP ECCENTRIC HALF BALL VALVE

It is suitable for clear water, raw water (including mud and sand), sewage, seawater, steam, oil, aluminum oxide, city heating and heating and other demanding systems.



PRODUCT OVERVIEW

The top eccentric half ball valve is a new product successfully developed after absorbing and absorbing advanced technology at home and abroad to weigh the advantages and disadvantages of ordinary ball valves, butterfly valves, gate valves and other valves. The metal crown is fixed on the eccentric ball, and the valve is opened and closed through the 90 degree rotation of the eccentric crankshaft. The metal seat touching the sealing surface of the metal crown is an axial and radial floating structure. The simple, reliable and effective sealing method makes it not only more advantageous to replace other valves, the valve structure adopts the eccentric tightening principle, and achieves the purpose of closing, adjusting and closing through the transmission mechanism. The ball of the double eccentric valve is hidden in the valve chamber when it is opened, the flow load surface is large, and the valve is not washed, and there is no flow resistance. When the valve is open, the spool is not washed, and when it is closed, the spherical spool is progressive along the

seat, with shear function, effectively cutting the scale barrier, and achieving reliable sealing. It is particularly effective for the transport of media prone to scaling. The valve hemisphere is the metal crown fixed on the eccentric ball, on the ball with different alloy crown, the valve seat is also the corresponding surfacing alloy, after special treatment, the sealing surface is combined into anticorrosion, wear, high temperature resistance and other types to meet the needs of different working conditions. The valve seat and the ball crown leave a compensatory amount, when the valve seat is worn, and then turn a little when closed, it can still be reliably sealed and extend the service life. The biggest feature of the valve is that the valve can be checked and repaired online after the pressure relief of the operating system, and the maintenance only needs to open the valve cover to lift out the ball crown and support body without removing the whole valve from the pipeline.

SCOPE OF APPLICATION

1. It is applicable to clear water, raw water (including mud and sand), sewage, seawater, steam, oil, aluminum oxide, city heating and heating and other demanding systems.
2. Soft seal eccentric half ball valve applicable temperature -40 °C ~ 135 °C , while the hard seal eccentric half ball valve applicable temperature for room temperature to 600 °C or so.
3. It is suitable for dam bottom release valve and control valve (high flow rate state). Coal powder ash slag, suitable for liquid, solid two-phase mixing or liquid transport in the chemical reaction with crystallization precipitation or scaling of industrial pipeline transport. Product scaling characteristics according to the customer required media,

temperature requirements are different, the ball crown using chrome molybdenum, vanadium alloy, valve seat surfacing chrome, molybdenum alloy, chrome alloy, stainless steel alloy to meet the needs of different slurry transportation.

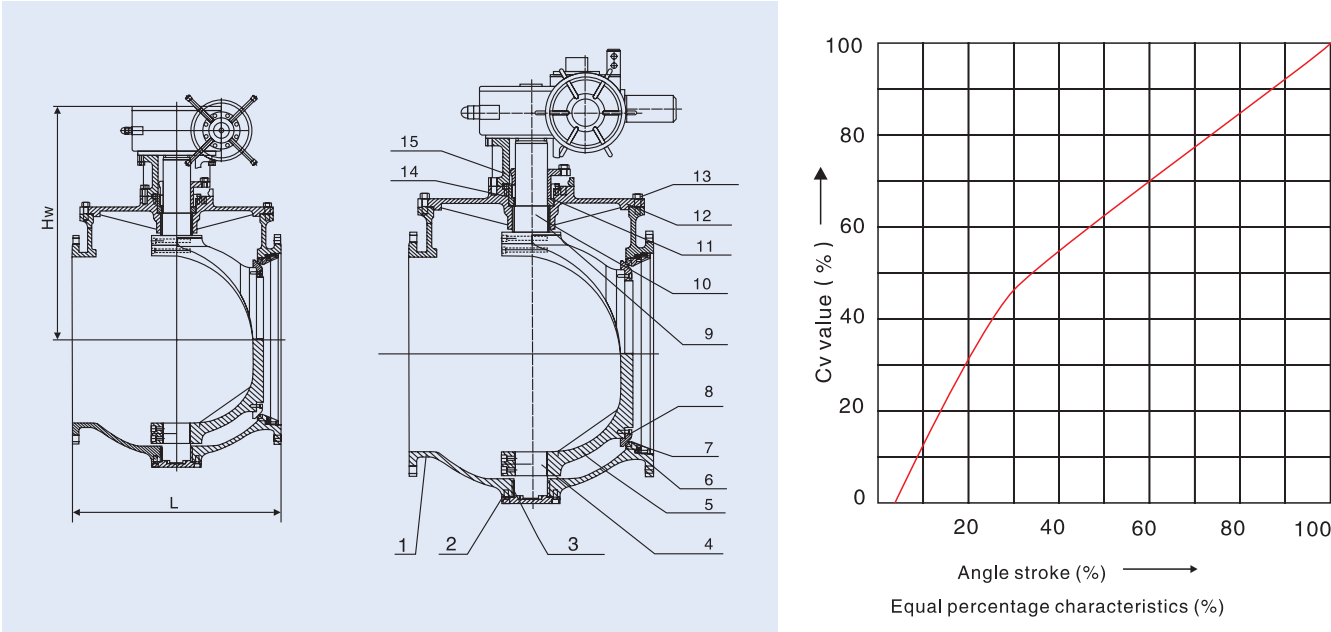
4. Applicable to pump conveying traditional valves, such as pressurized systems, central air-conditioning system.
5. Can be configured as safety valve flow control valve, burst pipe valve, pressure reducing valve.
6. Applicable to water system, gas system, natural gas system and other underground pipelines (small height).

PERFORMANCE STANDARD

Performance standard design and manufacture	GB/T26146
Test and inspect	GB/T13927
Flange connection	GB/T9124
Construction length	GB/T12221,XH923

MAIN PERFORMANCE STANDARD

Nominal pressure	PN				
Maximum working pressure at room temperature (MPa)	1.0	1.6	2.5	4.0	6.4
Shell strength test pressure (MPa)	1.5	2.4	3.8	6.0	9.6
Gas seal test pressure (MPa)	0.6	0.6	0.6	0.6	0.6
High pressure test pressure (MPa)	1.1	1.76	2.75	4.4	7.1
Leakage rate	< 0.1×DNmm ³ /s(Comply with GB/T13927 standard)				
Applicable temperature	Soft seal: -40℃ ~350℃ ,Metal seal : -50℃ ~600℃				
Applicable medium	Natural gas, water steam, oil products, acids, alkalis, pulverized coal, coal ash, waste residue, mud, granular, fibrous and other media				
Transmission form	Worm gear drive, electric drive, pneumatic drive, hydraulic drivesoft seal; metal seal				



◉ MAIN PART MATERIAL

NO.	Name	Material		
1	Body	QT,WCB	ZG1Cr18Ni9Ti	ZG0Cr18Ni12Mo2Ti
2	Back cap	Q235A	1Cr18Ni9Ti	0Cr18Ni12Mo2Ti
3	Sleeve	SF-1	FB090	FB316
4	Lower stem	2Cr13	1Cr18Ni9Ti	0Cr18Ni12Mo2Ti
5	Ball	QT,WCB	ZG1Cr18Ni9Ti	ZG0Cr18Ni12Mo2Ti
6	Pressing plate	Q235A	1Cr18Ni9Ti	0Cr18Ni12Mo2Ti
7	Seat	Q235A+PTFE	1Cr18Ni9Ti/PTFE	0Cr18Ni12Mo2Ti/PTFE
8	Sleeve	1Cr18Ni9Ti Special treatment	1Cr18Ni9Ti Special treatment	0Cr18Ni12Mo2Ti Special treatment
9	Upper stem	2Cr13	FB090	FB316
10	Packing	2Cr13	1Cr18Ni9Ti	0Cr18Ni12Mo2Ti
11	Bonnet	QT,WCB	ZG1Cr18Ni9Ti	ZG0Cr18Ni12Mo2Ti
12	Bolt	WCB	ZG1Cr18Ni9Ti	ZG0Cr18Ni12Mo2Ti
13	Nut	35	0Cr18Ni9	0Cr18Ni9
	Packing	45	0Cr18Ni9	0Cr18Ni9
14	Pressing plate	Flexible graphite	Flexible graphite	Flexible graphite
15	York	WCB	ZG1Cr18Ni9Ti	ZG0Cr18Ni12Mo2Ti

◉ ORDERING INSTRUCTIONS

1, top-mounted hard (soft) seal eccentric semi-ball valves have different temperature levels, different applicable media, please demand side order must specify the use of temperature, media.
Note: higher temperature valve seal material must be changed.

2, the demand side if you need to go beyond the existing mode of operation, specifications, size and material range of hard (soft) seal eccentric half ball valve, the factory can also be designed and manufactured separately, but must be specified in the ordering contract.

◉ MAIN EXTERNAL AND CONNECTING DIMENSIONS

UNIT:mm

Nominal pressure PN	Nominal diameter DN	Size(mm)								
		L	D	K	d	b	f	Z-d0	Hw	Hd
1.6MPa	100	229	220	180	156	22	2	8-Φ18	330	380
	125	254	250	210	184	22	2	8-Φ18	345	405
	150	267	285	240	211	24	2	8-Φ22	370	440
	200	292	340	295	266	24	2	12-Φ22	405	470
	250	330	405	350	319	26	2	12-Φ26	480	540
	300	356	460	400	370	28	2	12-Φ26	520	580
	350	430	520	460	429	30	2	16-Φ26	570	630
	400	530	580	515	480	32	2	16-Φ30	630	710
	450	580	640	565	530	40	2	20-Φ30	690	770
	500	660	715	620	582	44	2	20-Φ33	740	820
	600	840	840	725	682	54	2	20-Φ36	840	940
	700	900	910	840	794	50	5	24-Φ36	960	1040
	800	1000	1025	950	901	42	5	24-Φ39	1080	1180
	900	1100	1125	1050	1001	44	5	28-Φ39	1190	1280
	1000	1200	1255	1160	1112	46	5	28-Φ42	1310	1420
	1100	1250	1370	1280	1222	48	5	28-Φ42	1390	1480
	1200	1300	1485	1380	1328	52	5	32-Φ48	1420	1530
	1400	1500	1685	1590	1530	58	5	36-Φ48	1540	1630
	1600	1800	1930	1820	1750	64	5	40-Φ55	1660	1750
	1800	2000	2130	2020	1950	68	5	44-Φ55	1790	1860
	2000	2200	2345	2230	2150	70	5	48-Φ60	1920	1990

HYDRAULIC CONTROL CHECK ECCENTRIC HALF BALL VALVE

Widely used in petroleum, chemical industry, iron and steel, metallurgy, environmental protection, medicine, food, paper and other fields; especially suitable for multi-phase flow media pipeline.



PRODUCT OVERVIEW

The hydraulic control check eccentric half ball valve is full diameter valve, full open flow resistance coefficient is equal to the pipeline; Simple structure, light weight, its height is only half of the gate valve, and the weight is only 213 of the same ordinary ball valve; Compared with other valves, it has greater structural advantages. The sealing surface of the valve is made of all-alloy steel or cemented carbide material, which greatly improves the erosion resistance of the sealing surface under the condition of high flow rate; And has good high temperature resistance. The valve is 90 part rotating structure, easy to control. It is used with the company's hydraulic actuator series products, which greatly improves its adaptability to working conditions. Widely used in petroleum, chemical industry, steel, metallurgy, environmental protection. Medicine, food, paper and other fields; Especially suitable for multiphase flow media pipeline.

TEST PRESSURE

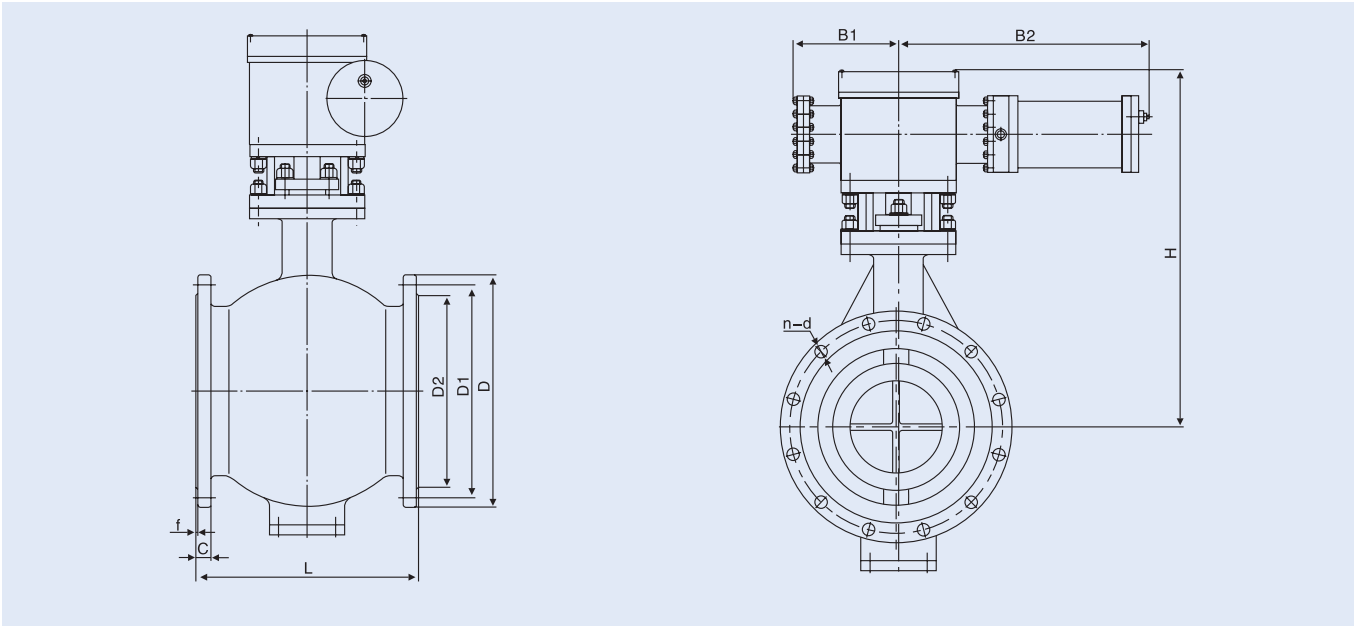
Nominal pressure (MPa)	Maximum working pressure at room temperature (MPa)	Shell test pressure (MPa)	Gas seal test pressure (MPa)	High pressure test pressure (MPa)
1.6	1.6	2.4	0.6	1.76
2.5	2.5	3.8	0.6	2.76
4.0	4.0	6.0	0.6	4.4
6.4	6.4	9.6	0.6	7.1
Class150	2.0	3.0	0.6	2.2
Class300	5.0	7.5	0.6	5.5

SCOPE OF USE

Shell material	Seat material	Applicable tempertature	Applicable medium
Carbon steel C type	PTFE+SS	≤150℃	Water ,steam,oil
	SS	≤250℃	
Chromium nickel titanium steel P type	PTFE+SS	≤150℃	Nitric acid
	SS	≤200℃	
Chromium nickel titanium steel R type	PTFE+SS	≤150℃	Acetic acid
	SS	≤200℃	
Chromium nickel titanium steel I type	Body + Carbide	≤550℃	Steam, smelting,energy

MAIN PART MATERIAL

Body, Bonnet	GB	WCB		ZG1Cr18Ni9Ti		ZF0Cr18Ni12Mo2Ti		ZG15Cr1Mo1V
	ASTM	WCB		CF8		CF8M		WC9
Ball	GB	ZG2Cr13		ZG1Cr18Ni9Ti/ Special surface treatment		ZG0Cr18Ni12Mo2Ti/ Special surface treatment		ZG15Cr1Mo1V/ Special surface treatment
	ASTM	CA15		CF8+HF		CF8M+HF		WC9+HF
Stem	GB	2Cr13		1Cr18Ni9Ti		0Cr18Ni2Mo2Ti		25Cr2Mo2V
	ASTM	420		304		316		F22a
Seat	GB	PTFE	2Cr13	PTFE	1Cr18Ni9Ti	PTFE	0Cr18Ni12Mo2Ti	D517
	ASTM	PTFE	420	PTFE	304	PTFE	316	HF
Packing	GB	PTFE	Flexible graphite	PTFE	Flexible graphite	PTFE	Flexible graphite	Flexible graphite
	ASTM	PTFE	Flexible graphite	PTFE	Flexible graphite	PTFE	Flexible graphite	Flexible graphite
Bolt	GB	35		0Cr18Ni9		0Cr18Ni9		15Cr1Mo1V
	ASTM	A193 B7		A320-B8		A320-B8		A193 B16
Nut	GB	45		0Cr18Ni9		0Cr18Ni9		20CrMo
	ASTM	A1942H		A194-8		A194-8		A194-4



◉ MAIN EXTERNAL AND CONNECTING DIMENSIONS (PN10)

UNIT:mm

DN	L	D	D1	D2	b	n	d	H	B1	B2
50	178	160/165	125	100	18	4	18	310	187	187
65	190	180/185	145	120	20	4	18	325	187	187
80	203	195/200	160	135	20	4	18	350	187	187
100	229	215/220	180	155	22	8	18	385	187	187
125	254	245/250	210	185	22	8	18	405	187	187
150	267	280/285	240	210	24	8	23	425	187	187
200	292	335/340	295	265	24	8	23	460	175	395
250	330	390/395	350	320	26	12	23	535	175	395
300	356	440/445	400	368	28	12	23	580	175	395
350	380	500/505	460	428	28	16	23	620	175	395
400	430	565	515	482	30	16	25/26	700	175	395
450	502	615	565	532	30	20	25/26	760	250	425
500	550	670	620	585	32	20	25/26	810	250	425
600	660	780	725	685	36	20	30	820	285	495
700	750	895	840	800	36	24	30	960	285	495
800	850	1010	950	905	38	24	34	985	300	660
900	950	1110	1050	1005	38	28	34	1045	415	835
1000	1050	1220	1160	1115	38	28	36	1130	415	835
1200	1300	1450	1380	1325	40	32	39	1225	415	835
1400	1500	1675	1590	1525	44	36	42	1330	620	930

Note: This table does not list the specifications and parameters, please consult our technical department.

◉ MAIN EXTERNAL AND CONNECTING DIMENSIONS (PN16)

UNIT:mm

DN	L	D	D1	D2	b	n	d	H	B1	B2
50	178	160/165	125	100	18	4	18	310	187	187
65	190	180/185	145	120	20	4	18	325	187	187
80	203	195/200	160	135	20	8	18	350	187	187
100	229	215/220	180	155	22	8	18	385	187	187
125	254	245/250	210	185	22	8	18	405	187	187
150	267	280/285	240	210	24	8	23	425	187	187
200	292	335/340	295	265	24	12	23	460	175	395
250	330	405	355	320	26	12	25/26	535	175	395
300	356	460	410	375	28	12	25/26	580	175	395
350	380	520	470	435	30	16	25/26	620	175	395
400	430	580	525	485	32	16	30	700	175	395
450	502	640	585	545	34	20	30	760	250	425
500	550	705/715	650	605	36	20	34	810	250	425
600	660	840	770	718	38	20	41/36	820	285	495
700	750	910	840	788	40	24	41/36	960	285	495
800	850	1020/1025	950	898	42	24	41	985	300	660
900	950	1120/1125	1050	998	44	28	41	1045	415	835
1000	1050	1255	1170	1110	46	28	42/48	1130	415	835
1200	1300	1485	1390	1325	52	32	48/54	1225	415	835
1400	1500	1685	1590	1525	58	36	48/54	1330	620	930

◉ MAIN EXTERNAL AND CONNECTING DIMENSIONS (PN25)

UNIT:mm

DN	L	D	D1	D2	b	n	d	H	B1	B2
50	178	160/165	125	100	20	4	18	310	187	187
65	190	180/185	145	120	22	4	18	325	187	187
80	203	195/200	160	135	22	8	18	350	187	187
100	229	230	190	160	24	8	23	385	187	187
125	254	270	220	188	28	8	25/26	405	187	187
150	267	300	250	218	30	8	25/26	425	175	395
200	292	360	310	278	34	8	25/26	460	175	395
250	330	425	370	332	36	12	30	535	175	395
300	356	485	430	390	40	12	30	580	175	395
350	380	550/555	490	448	44	16	34	620	250	425
400	430	610/620	550	505	46	16	34/36	700	250	425
450	502	660/670	600	555	48	20	34/36	760	250	425
500	550	730	660	610	50	20	41/36	810	300	660
600	660	840/845	770	718	50	20	39	820	300	660
700	750	955/960	875	815	50	24	48/42	960	300	660
800	850	1070/1085	990	930	54	24	48	985	415	835
900	950	1180/1185	1090	1025	58	28	54/48	1045	415	835
1000	1050	1305/1320	1210	1140	62	28	55	1130	415	835
1200	1300	1525/1530	1420	1350	70	32	55	1225	620	930
1400	1500	1750/1755	1640	1560	70	36	60	1330	630	1270

Note: This table does not list the specifications and parameters, please consult our technical department.

BIDIRECTIONAL FLOW HARD SEALING ROTARY BALL VALVE

It is suitable for metallurgical, mining, petrochemical, chemical, electric power, environmental protection, municipal and other industries as pipeline opening and closing and regulation.



PRODUCTION OVERVIEW

The bidirectional flow hard sealing rotary ball valve is developed by combining the superior sealing performance of the ball valve and the advantageous structure of the butterfly valve. It has the superior bidirectional pressure of the fixed ball valve, and can be used in the liquid pipeline containing fine particles. It has the practical advantages of high operating temperature and long service life. Its essence is the combination of butterfly valve and eccentric half ball valve structure function, the installation is superior to half ball valve and fixed ball valve. The sealing principle combines the front end sealing of the fixed ball valve with the forced sealing of the eccentric butterfly valve, so as to realize the high and low two-way cutting in the pipeline. In the case that the pump stops running and the pipe outlet pressure is higher than the inlet pressure, the use of rotary ball valves can effectively prevent the backflow

of backwater, which is also a function that butterfly valves and half ball valves do not have. The rotary ball valve on the two sealing surfaces can be used according to different hardness needs by supersonic plasma spraying, vacuum protection and other advanced processes to form martensitic stainless steel, austenitic stainless steel, cemented carbide and other gradient functional materials. With its superior cost performance, the valve will certainly cause the reform of the pipe network valve, which makes the ordinary pipe network, especially the water system pipe network, can also enjoy the same high-performance and high-quality products of high-end systems such as thermal power and gas at low and medium prices.

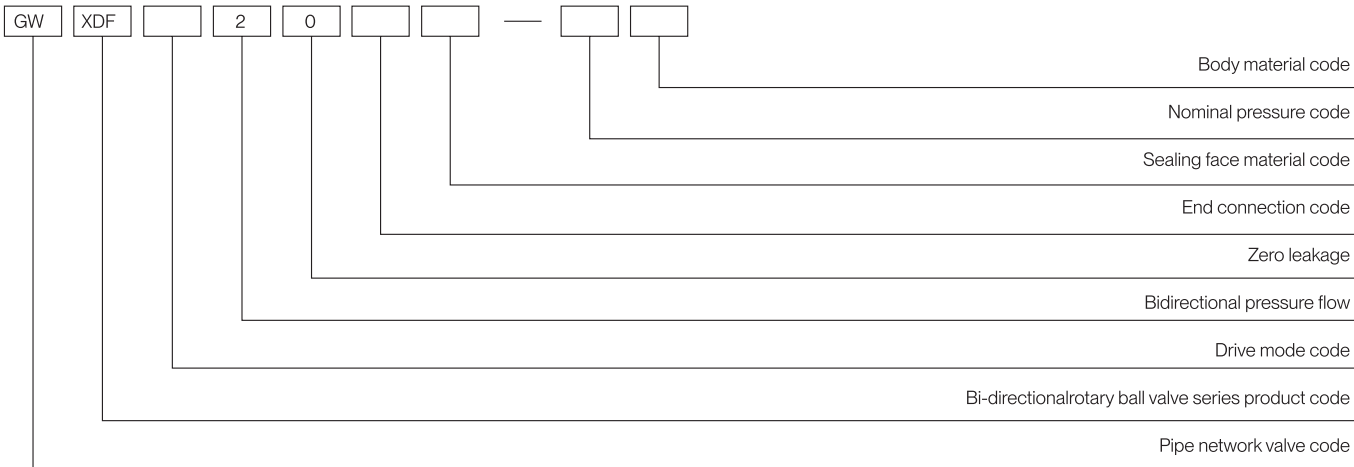
EXECUTIVE STANDARD

Executive standard	Std NO.	Std name
Flange std	GB/T9124	Integral steel pipe flange
	GB/T17241.6	Integral cast iron pipe flange
F to F std	GB/T12221	Metal valve structure length
Pressure test std	GB/T13927	General purpose valve pressure test
	GB/T9092	Test and inspection of valves
Structural design std	GB/T12237	General valve flanges and butt welded steel ball valves
	GB/T12238	General valve flanges and clamp connection butterfly valves
Material std	GB/T12226	General valve gray cast iron technical conditions
	GB/T12227	General valve ductile iron casting technical conditions
	GB/T12229	General valve carbon steel casting technical conditions
	GB/T12230	General valve austenitic steel casting technical conditions

MAIN PERFORMANCE SPECIFICATION

DN(mm)	Nominal pressure (MPa)	Test pressure (MPa)			Temperature (°C)	Service
		Shell test	Seal test	Back seal test		
DN50-3000mm	0.6	0.9	0.66	0.66	0-200°C	Clean water, sewage, oil products, etc
	1.0	1.5	1.1	1.1		
	1.6	2.4	1.76	1.76		
	2.5	3.75	2.75	2.75		
	4.0	6.0	4.4	4.4		
	6.3	9.45	6.93	6.93		

Parts name	Material
Body	Gary CI,DI,CS,SS
Disc	WCB,Q235,SS
Stem	SS
SEAL	WCB,Q235,SS



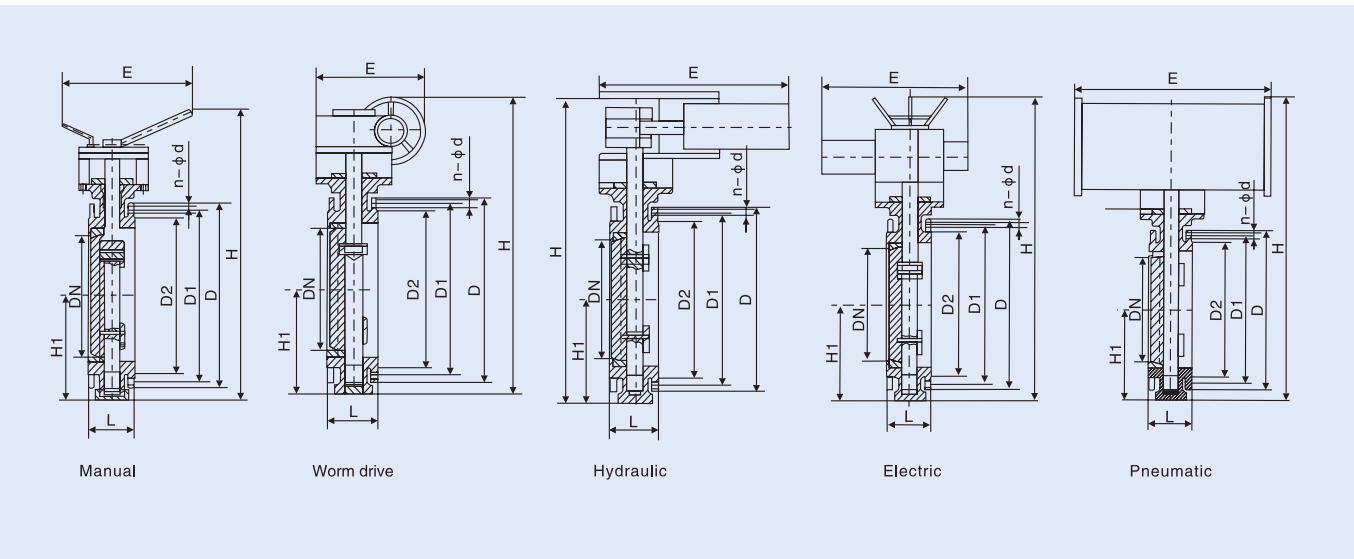
Code	1	2	3	6	7	9
Driving mode	Manual	Worm gear	Pneumatic	Hydrodynamic	Electric	Electric

Code	4	7
Connection	Flange	Wafer

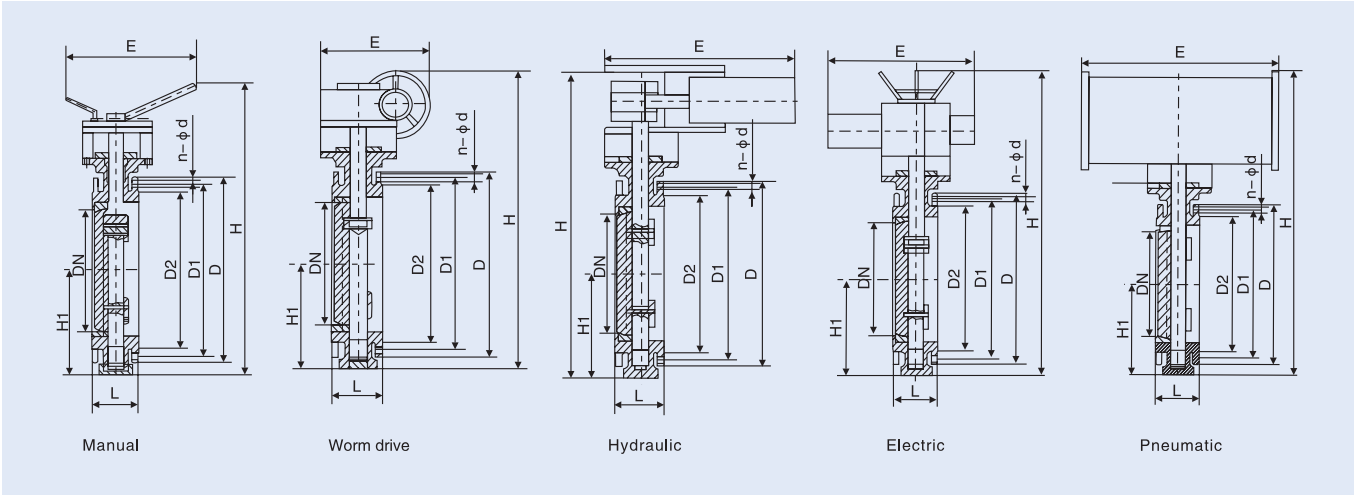
Code	H	R	Y
Sealing face material	Martensitic ss	Austenitic ss	Cemented carbide

Code	6	10	16	25	40
Norminal pressure(MPa)	0.6	1.0	1.6	2.5	4.0

Code	Z	Q	C	I	P	R
Material	Gary CI	DI	WCB	1Cr5Mo,ZG1Cr5Mo	1Cr18Ni13MoTi, ZG1Cr18Ni13MoTi	1Cr18Ni12MoTi,ZG1Cr18Ni12MoTi



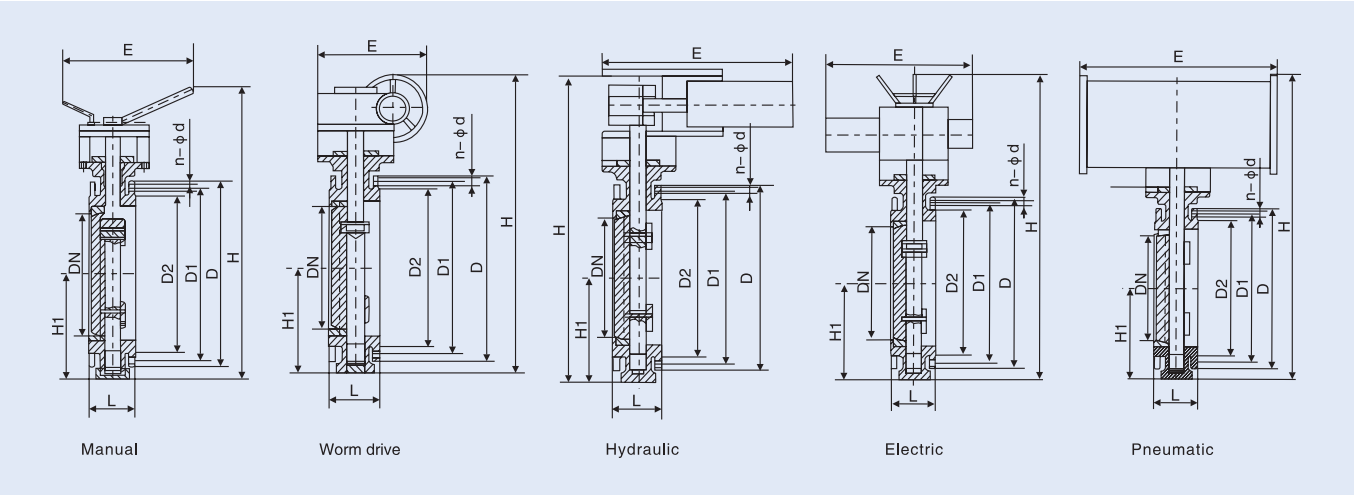
DN(mm)	L	D	D1	D2	H1	n- φ d	E			H		
							Manual	Pneumatic	Electric	Manual	Pneumatic	Electric
50	108	165	125	99	112	4-18	200	245	255	350	625	530
65	112	185	145	118	115	4-18	200	245	255	370	625	530
80	114	200	160	132	120	8-18	200	245	255	380	645	565
100	127	220	180	156	138	8-18	200	355	255	420	675	600
125	140	250	210	184	164	8-18	200	355	255	460	715	640
150	140	285	240	211	175	8-22	280	355	315	555	800	705
200	152	340	295	266	200	8-22	425	250	315	760	850	775
250	165	395	350	319	230	12-22	425	250	315	830	925	945
300	178	445	400	370	260	12-22	560	450	315	895	1035	1070
350	190	505	460	429	300	16-22	560	450	315	950	1070	1140
400	216	565	515	480	340	16-26	580	450	315	1190	1190	1210
450	222	615	565	530	350	20-26	580	650	714	1255	1250	1335
500	229	670	620	582	380	20-26	580	650	714	1305	1290	1415
600	267	780	725	682	450	20-30	660	850	810	1340	1455	1605
700	292	895	840	794	480	24-30	550	850	810	1520	1585	1844
800	318	1015	950	901	530	24-33	550	1250	810	1710	1700	2040
900	330	1115	1050	1001	580	28-33	550	1250	863	1810	1965	2255
1000	410	1230	1160	1112	650	28-36	750	1250	863	1960	2015	2380
1200	470	1455	1380	1328	760	32-39	925	1250	863	2250	2250	2640
1400	530	1675	1590	1530	850	36-42	925	1250	1055	2434	2250	2866
1600	600	1915	1820	1750	1030	40-48	925	1250	1055	2780	2750	3156
1800	670	2115	2020	1950	1230	44-48	980	1250	1183	3020	2950	3421
2000	760	2325	2230	2150	1350	48-48	980	1500	1286	3270	3350	3685



◉ MAIN EXTERNAL AND CONNECTING DIMENSIONS

PN1.6MPa

DN(mm)	L	D	D1	D2	H1	n-φd	E			H		
							Manual	Pneumatic	Electric	Manual	Pneumatic	Electric
50	108	165	125	99	112	4-18	200	245	255	350	625	530
65	112	185	145	118	115	4-18	200	245	255	370	625	530
80	114	200	160	132	120	8-18	200	245	255	380	645	565
100	127	220	180	156	138	8-18	200	355	255	420	675	600
125	140	250	210	184	164	8-18	200	355	255	460	715	640
150	140	285	240	211	175	8-22	280	355	315	555	800	705
200	152	340	295	266	200	12-22	425	250	315	760	850	775
250	165	405	355	319	230	12-26	425	250	315	830	925	945
300	178	460	410	370	260	12-26	560	450	315	895	1035	1070
350	190	520	470	429	300	16-26	560	450	315	950	1070	1140
400	216	580	525	480	340	16-30	580	450	315	1190	1190	1210
450	222	640	585	548	350	20-30	580	650	714	1255	1250	1335
500	229	715	650	609	380	20-33	580	650	714	1305	1290	1415
600	267	840	770	720	450	20-36	660	850	810	1340	1455	1605
700	292	910	840	794	480	24-36	550	850	810	1520	1585	1844
800	318	1025	950	901	530	24-39	550	1250	810	1710	1700	2040
900	330	1125	1050	1001	580	28-39	550	1250	863	1810	1965	2255
1000	410	1255	1170	1112	650	28-42	750	1250	863	1960	2015	2380
1200	470	1485	1390	1328	760	32-48	925	1250	863	2250	2250	2640
1400	530	1685	1590	1530	850	36-48	925	1250	1055	2434	2250	2866
1600	600	1930	1820	1750	1030	40-55	925	1250	1055	2780	2750	3156
1800	670	2130	2020	1950	1230	44-55	980	1250	1183	3020	2950	3421
2000	760	2345	2230	2150	1350	48-60	980	1500	1286	3270	3350	3685



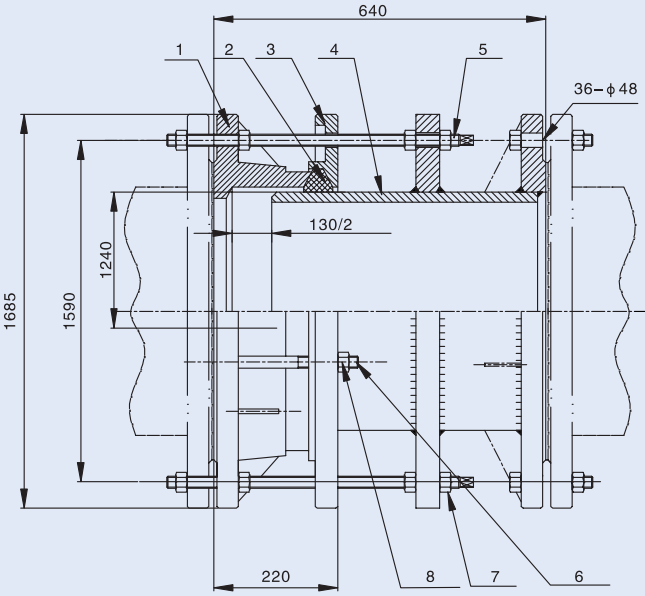
◉ MAIN EXTERNAL AND CONNECTING DIMENSIONS

PN2.5MPa

DN(mm)	L	D	D1	D2	H1	n-φd	E			H		
							Manual	Pneumatic	Electric	Manual	Pneumatic	Electric
50	108	165	125	99	112	4-18	200	245	255	350	625	530
65	112	185	145	118	115	8-18	200	245	255	370	625	530
80	114	200	160	132	120	8-18	200	245	255	380	645	565
100	127	235	190	156	138	8-22	200	355	255	420	675	600
125	140	270	220	184	164	8-26	200	355	255	460	715	640
150	140	300	250	211	175	8-26	280	355	315	555	800	705
200	152	360	310	274	200	12-26	425	250	315	760	850	775
250	165	425	370	330	230	12-26	425	250	315	830	925	945
300	178	485	430	389	260	16-30	560	450	315	895	1035	1070
350	190	555	490	448	300	16-33	560	450	315	950	1070	1140
400	216	620	550	503	340	16-36	580	450	315	1190	1190	1210
450	222	670	600	548	350	20-36	580	650	714	1255	1250	1335
500	229	730	660	609	380	20-36	580	650	714	1305	1290	1415
600	267	845	770	720	450	20-39	660	850	810	1340	1455	1605
700	292	960	875	820	480	24-42	550	850	810	1520	1585	1844
800	318	1085	990	928	530	24-48	550	1250	810	1710	1700	2040
900	330	1185	1090	1028	580	28-48	550	1250	863	1810	1965	2255
1000	410	1320	1210	1140	650	28-55	750	1250	863	1960	2015	2380
1200	470	1530	1420	1350	760	32-55	925	1250	863	2250	2250	2640
1400	530	1755	1640	1560	850	36-60	925	1250	1055	2434	2550	2866
1600	600	1975	1860	1780	1030	40-60	925	1250	1055	2780	2750	3156
1800	670	2195	2070	1985	1230	44-68	980	1250	1183	3020	2950	3421
2000	760	2425	2300	2210	1350	48-68	980	1500	1286	3270	3350	3685

VSSJA-2(B2F) DOUBLE FLANGE LIMIT EXPANSION JOINT

It is mainly used to absorb axial displacement and withstand pressure thrust in the allowable displacement range of pipe loose sleeve connection.

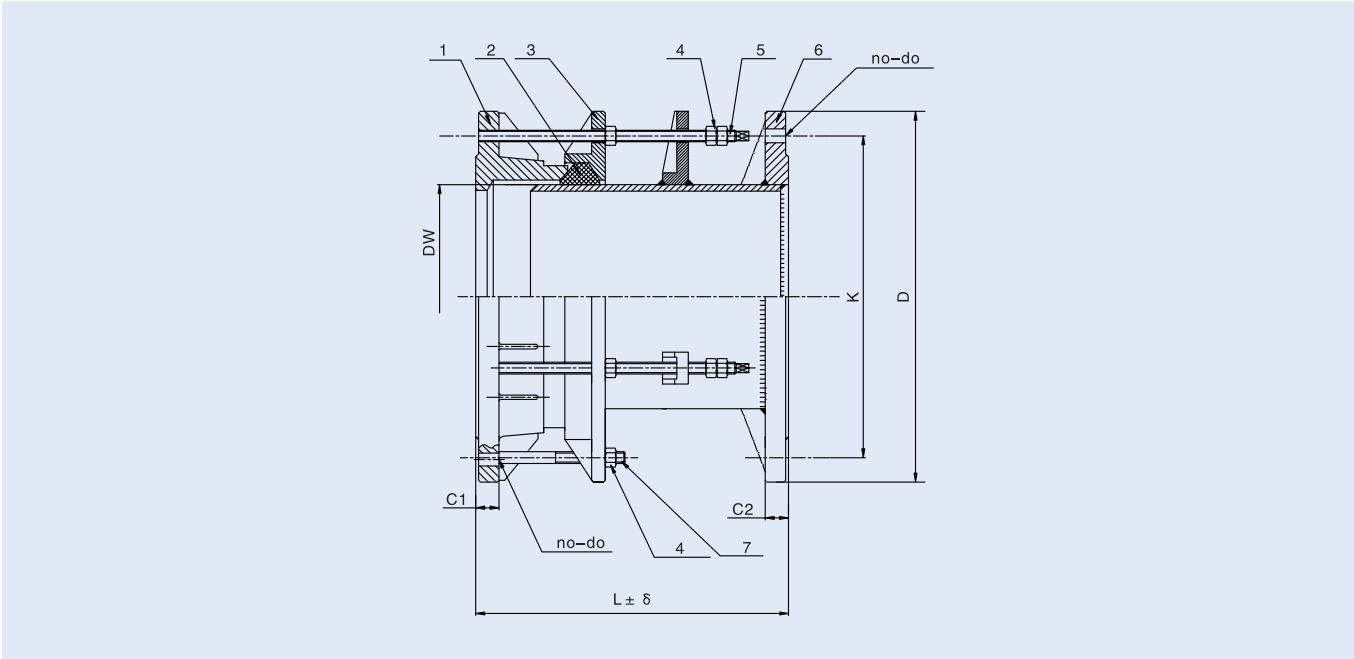


MAIN TECHNICAL PARAMETERS

Technical parameters			
Rating		1.0MPa	1.6MPa
Testing class	Strength	1.5MPa	2.4MPa
	Seal	1.1MPa	1.76MPa
Temperature		-10℃ -80℃	
Service		Clean water	

MAIN PARTS

NO.	Std	Name	Qty	Material	Notes
1	GB/T6170	Nut	n1	Q235	D. ZN12DC
2	GB/T6170	Nut	n1	Q235	D. ZN12DC
3	MSB2	Bolt	n1	Q235	D. ZN12DC
4	MSB1	Bolt	n1	Q235	D. ZN12DC
5	1.6 B2F-1400-3	Flange limit stub	1	Q235	
6	1.6 B2F-1400-2	Gland	1	QT450-10	
7	MSB3	Sealing ring	1	NBR	
8	1.6 B2F-1400-3	Body		WCB	



○ MAIN PARTS

NO.	Std	Name	Qty	Material	Notes
1	1.6B2F-400-700-1	Body	1	WCB	
2	MSB3	Sealing Ring	1	NBR	
3	1.6B2F-400-700-2	Gland	1	QT450-10	
4	GB/T1670	Nut	n	Q235	D.Zn12DC
5	MSB1	Bolt	n1	Q235	D.Zn12DC
6	1.6B2F-400-1700-3	Flange Limit Stub	1	Q235	
7	MSB2	Stud	n1	Q235	D.Zn12DC

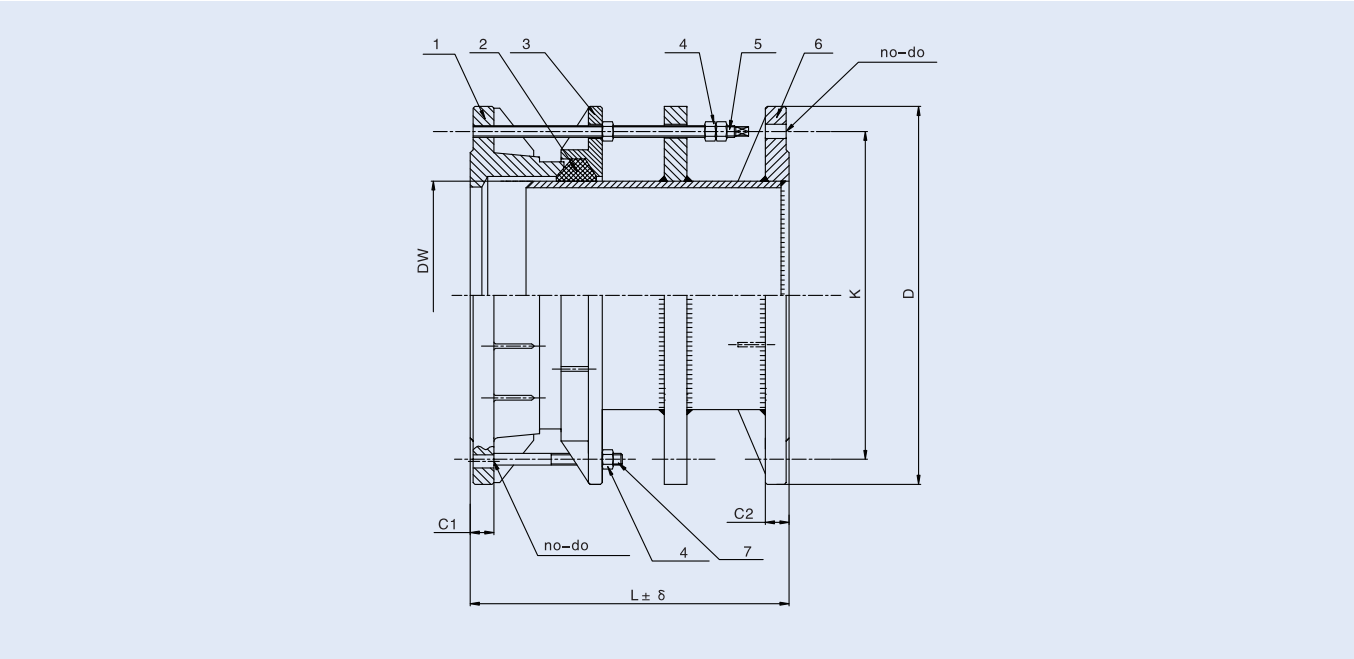
○ MAIN EXTERNAL AND CONNECTING DIMENSIONS

UNIT: mm

DN	DW	D	K	L	δ	no-do	C1	C2	n1-Th*S	n1-Th*S3	n-Th
400	426	580	525	400	32.5	16-Φ30	28	38	4-M20*145	4-M20*280	16-M20
450	480	640	585	400	32.5	20-Φ30	30	42	5-M20*145	5-M20*280	20-M20
500	530	715	650	400	32.5	20-Φ33	32	46	5-M20*145	5-M20*280	20-M20
600	630	840	770	400	32.5	20-Φ36	36	54	5-M20*145	5-M20*280	20-M20
700	720	910	840	400	32.5	24-Φ36	40	40	6-M20*145	6-M20*280	24-M20

○ TECHNICAL REQUIREMENT

1. Product technical performance requirements according to GB/T12465 "Pipe loose sleeve compensation joint" standard.
2. C1 flange according to GB/T17241.6PN16 standard.
3. C2 flange DN400-600 according to GB/T9119 PN16 standard, DN700 according to GB/T9124 PN16 standard (welded plate).



○ MAIN PARTS

NO.	Std	Name	Qty	Material	Notes
1	1.6B2F-800-1800-1	Body	1	WCB	
2	MSB3	Sealing Ring	1	NBR	
3	1.6B2F-800-1800-2	Gland	1	QT450-10	
4	GB/T1670	Nut	n	Q235	D.Zn12DC
5	MSB1	Bolt	n1	Q235	D.Zn12DC
6	1.6B2F-800-1800-3	Flange Limit Stub	1	Q235	
7	MSB2	Stud	n1	Q235	D.Zn12DC

○ MAIN EXTERNAL AND CONNECTING DIMENSIONS

UNIT: mm

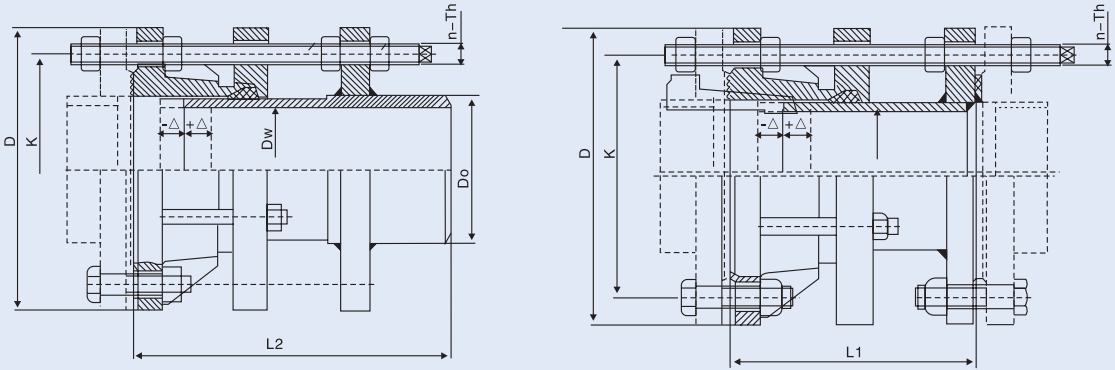
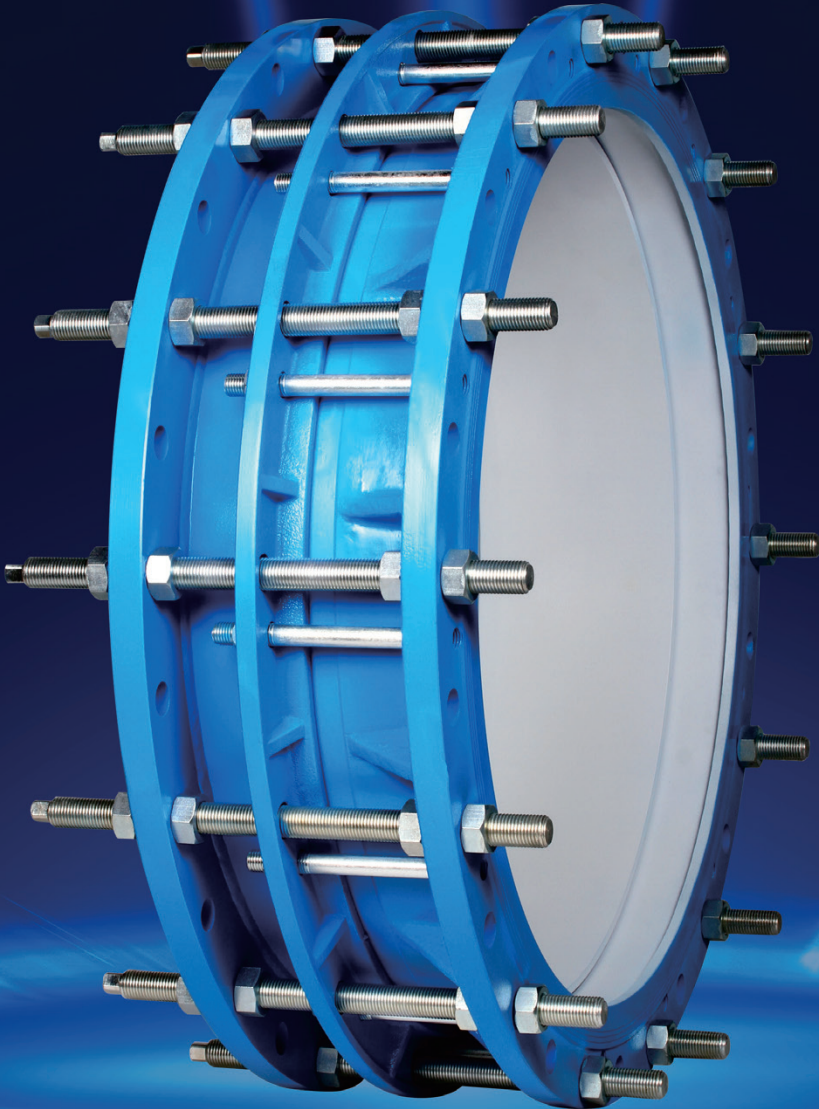
DN	DW	D	K	L	δ	no-do	C1	C2	n1-Th*S	n1-Th*S3	n-Th
800	820	2130	950	600	65	24-Φ39	43	42	6-M24*240	6-M24*460	24-M24
900	920	1930	1050	600	65	28-Φ39	47	44	7-M24*240	7-M24*460	28-M24
1000	1202	1685	1170	600	65	28-Φ39	50	46	7-M24*240	7-M24*460	28-M24
1200	1220	1485	1390	600	65	32-Φ48	57	52	8-M24*240	8-M24*460	32-M24
1400	1420	1225	1590	640	65	36-Φ48	60	58	9-M24*240	9-M24*460	36-M24
1600	1620	1125	1820	640	65	40-Φ55	65	64	10-M24*240	10-M24*460	40-M27
1800	1820	1025	2020	640	65	44-Φ55	70	68	11-M24*240	11-M24*460	44-M27

○ TECHNICAL REQUIREMENT

1. Product technical performance requirements according to GB/T12465 "Pipe loose sleeve compensation joint" standard.
2. C1 flange according to GB/T17241.6PN16 standard.
3. C2 flange GB/T9124 PN16 standard (welded plate).

VSSJAF-2 (C2F) DOUBLE FLANGE FORCE TRANSMISSION JOINT

It is suitable for conveying mediums as seawater, fresh water, hot and cold water, drinking water, domestic sewage, crude oil, fuel oil, lubricating oil, finished oil, air, gas, steam, and granular powders.



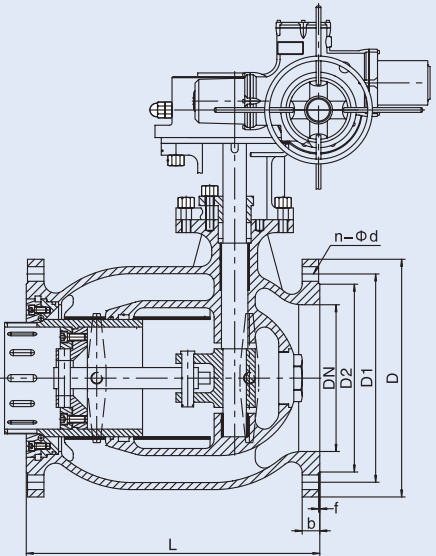
○ MAIN EXTERNAL AND CONNECTING DIMENSIONS

UNIT: mm

DN	DW		External dimensions			Adjustment amount Δ	Flanged joint size									
	Dw	Do	L	L2	L1		0.6MPa			1.0MPa			1.6MPa			
							D	K	n-Th	D	K	n-Th	D	K	n-Th	
65	76	76	400	200	400	±20	160	130	4-M12	185	145	4-M16	185	145	4-M16	
80	89	89					190	150	4-M16	200	160	4-M16	200	160	4-M16	
100	114	114					210	170		220	180					
125	140	140					240	200	4-M16	250	210	4-M20	250	210		
150	168	168					265	225		285	240		285	240	4-M20	
200	219	219					320	380		340	295		340	295	6-M20	
250	273	273					375	335	6-M16	395	350	6-M20	405	355	6-M24	
300	325	325	420	220	420	±25	440	395	6-M20	340	400	6-M20	460	410		
350	377	377					490	445		395	460	8-M20	520	470	16-M45	
400	426	426					540	495	8-M20	445	515	8-M24	580	525	14-M39	
450	480	480					595	550		505	565	10-M24	640	585	14-M36	
500	530	530					440	240	440	645	600	10-M20	565	620	-	715
600	630	630	755	705	10-M24	615				725	10-M27	840	770	12-M33		
700	720	720	860	810	12-M24	670				840	12-M27	910	840	10-M33		
800	820	820	600	350	600	±30	975	920	12-M27	780	950	12-M30	1025	950	10-M30	
900	920	920					1075	1020		895	1050	14-M30	1125	1050	10-M27	
1000	1020	1020	620	370	650		1175	1120	14-M27	1115	1160	14-M33	1255	1170	8-M27	
1200	1220	1220					1405	1340	16-M30	1230	1380	16-M36	1485	1390	8-M24	
1400	1420	1424	630	380	670		1630	1560	18-M33	1675	1590	18-M39	1685	1590	18-M45	
1600	1620	1624					1830	1760	20-M33	1915	1820	20-M45	1930	1820	20-M52	
1800	1820	1824					2045	1970	22-M36	2115	2020	22-M45	2130	2020	22-M52	
2000	2020	2026	650	400	700		2265	2180	24-M39	2325	2230	24-M45	2345	2230	22-M56	
2200	2220	2226					2478	2390	26-M39	2550	2440	26-M52	-	-	-	
2400	2420	2426					2685	3600	28-M39	2760	2650	28-M52	-	-	-	
2600	2620	2626	750	450	840		±40	2905	2810	30-M35	2960	2850	30-M52	-	-	-
2800	2820	2826						3115	3020	32-M45	3180	3070	32-M52	-	-	-
3000	3020	3026				3315		3220	34-M45	3290	3290	34-M56	-	-	-	
3200	3220	3230				3525		3430	36-M45	-	-	-	-	-	-	

ELECTRIC FLOW AND PRESSURE CONTROL VALVE

New multifunctional valves suitable for pipeline network systems of urban water supply, industrial water supply, mine water supply, power plants, and water diversion projects.



PRODUCTION OVERVIEW

The electric flow and pressure control valve is a control valve that works in conjunction with an automatic control system. It is mainly used to control the pressure before (or after) the valve, the flow rate passing through the valve, and the liquid level in the tank. The valve utilizes the principle of energy dissipation through composite

holes to reduce high pressure before the valve to low pressure after the valve; it can also control the flow rate passing through the valve or the liquid level in the tank by adjusting the size of the valve opening; the valve can also be used as a drain valve for reservoir dams.

PRODUCT CHARACTERISTICS

It controls the water flow to collide in the sleeve, achieving a good energy dissipation effect; the trims are made of austenitic stainless steel for long service life; the sleeve adopts a self-balancing structure for light torque operation; the valve sealing is reliable, achieving zero-leakage closure; the bronze guide rails are used for sleeve

sliding to achieve precise and stable operation; the valve can accurately adjust and control the pressure, flow rate, and liquid level; the valve is equipped with internationally renowned brand electric actuators; meanwhile, automatic control system with user-defined configuration can be provided as well.

TECHNICAL PARAMETERS

Diameter pressure:DN150-DN2000(6"-80")
Operating temperature:0℃ -85℃
Seal test:1.1pn
Shell test:1.5pn
Applicable medium:water
Source:380V, 50Hz
Electrical installation type:regulatory type
Signal input/output:4-20mA

PRODUCT STANDARD

Flange connection standard:GB/T17241.6
Inspection test standard:GB/T13927

MATERIALS FOR MAIN PARTS

Name of parts	Material name	Chinese standards
Body	DI	QT450-10
Piston	SS	06Cr19Ni10
Export parts	SS	06Cr19Ni10
Seat	SS	06Cr19Ni10
Stem	SS	20Cr13
Crank	DI	QT450-10
Connecting bearing	SS	20Cr13
Hinge seat	SS	06Cr19Ni10
Sealing ring	Copper bronze	NR
V-packing	Buna-n rubber	NBR
Axial sleeve	Copper bronze	—
Guideway	Copper bronze	—

MAIN EXTERNAL AND CONNECTING DIMENSIONS (PN16)

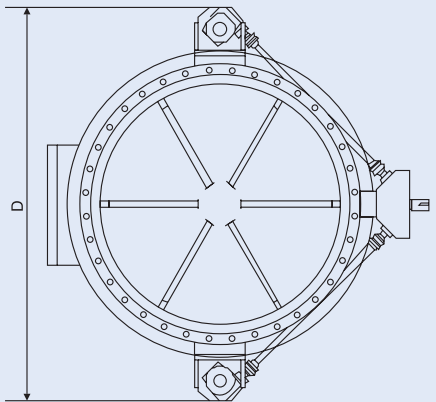
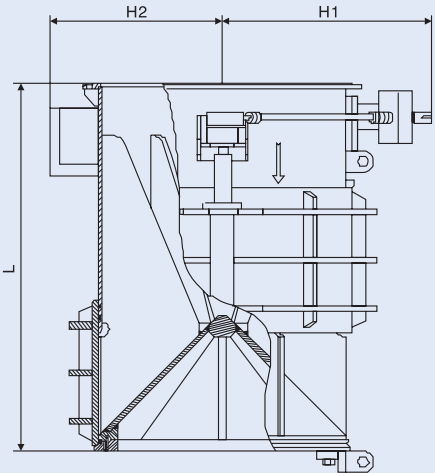
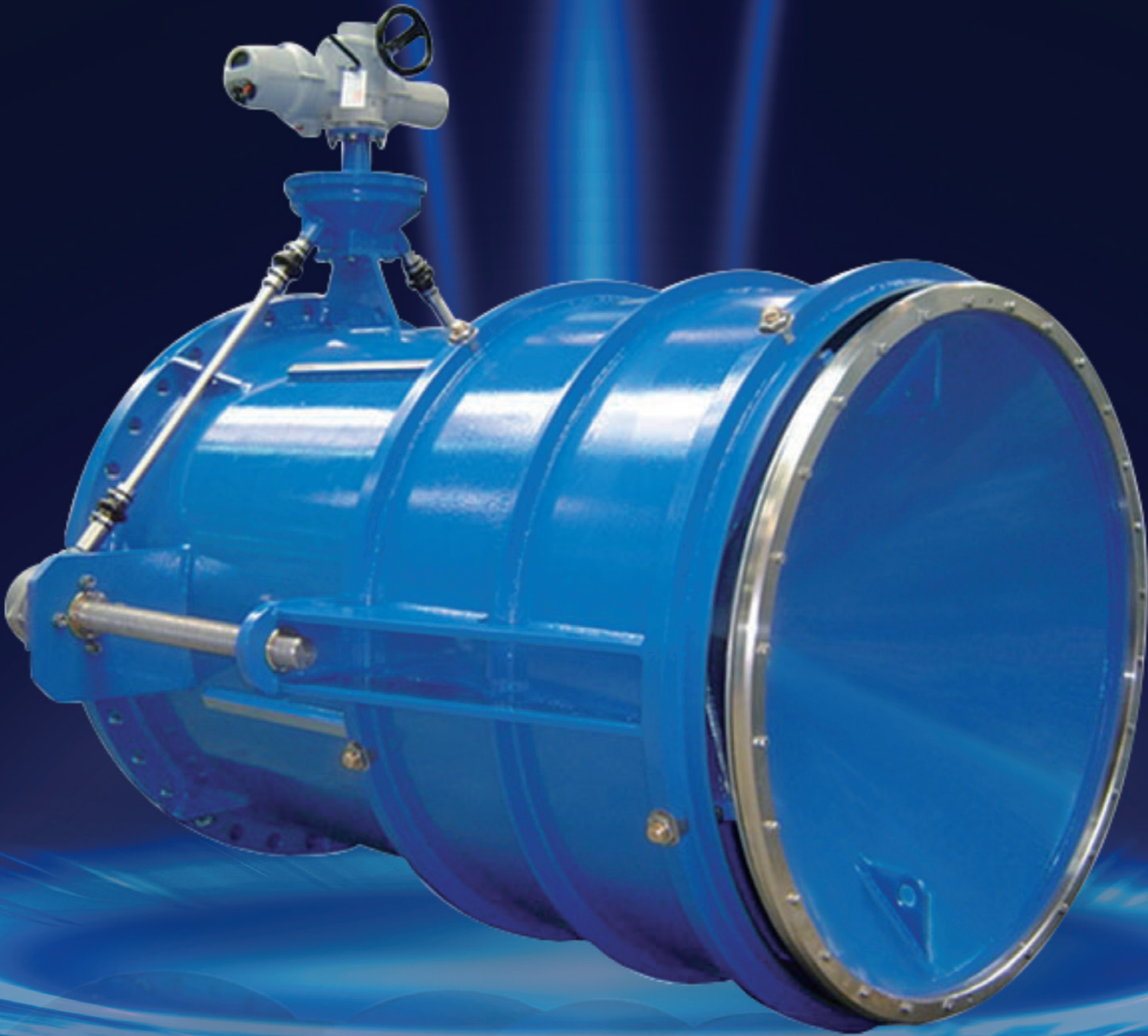
UNIT: mm

Nominal diameter DN	L	D	D1	D2	b	f	n-Φd	Nominal diameter DN	L	D	D1	D2	b	f	n-Φd
150	350	285	240	211	24	2	8-22	700	1400	910	840	794	40	5	24-36
200	400	340	295	266	24	2	12-22	800	1600	1025	950	901	42	5	24-39
250	500	405	355	319	26	2	12-26	900	1800	1125	1050	1001	44	5	28-39
300	600	460	410	370	28	2	12-26	1000	2000	1255	1170	1112	46	5	28-42
350	700	520	470	429	30	2	16-26	1200	2400	1485	1390	1328	52	5	32-48
400	800	580	525	480	32	2	16-30	1400	2800	1685	1590	1530	58	5	36-48
450	900	640	585	548	40	2	20-30	1600	3200	1930	1820	1750	64	5	40-55
500	1000	715	650	609	40	2	20-33	1800	3600	2130	2020	1950	68	5	44-55
600	1200	840	770	720	40	2	20-36	2000	4000	2345	2230	2150	70	5	48-60

Note: This table does not list the specifications and parameters, please consult our technical department.

FIXED CONE VALVE

The fixed cone valve is usually used as a free discharge valve for the bypass valve of a hydroelectric generator set or as a continuous discharge flow control valve for a hydropower station and reservoir, showing good energy dissipation effect.



PRODUCTION OVERVIEW

The fixed cone valve is usually used as a free discharge valve for the bypass valve of a hydroelectric generator set, or as a continuous discharge flow control valve for a hydropower station and reservoir, showing good energy dissipation effect. The valve itself has the advantages of simple structure, large flow coefficient, low dynamic load of valve load-bearing capacity, and adaptability to any water head. Meanwhile, it can be horizontally, vertically, or inclined deployed, and is durable for use. It has been

widely used for flow rate control at positions of turbine bypass, reservoir discharge, or continuous discharge, especially as downstream environmental-protection flow discharge and supplementing downstream river flow during dry seasons. The valve is an important equipment for the modernization of water conservancy and hydropower engineering.

PRODUCT CHARACTERISTICS

- 1. Body: it is designed as a cylindrical shape with a flange connected to the upstream channel or pipeline. The metal conical seat ring at the downstream end is designed with a floating structure to isolate the stress that can deform the body. The conical part at the front end of the valve is fixed inside the body through guide rib pieces, and the adjusting sleeve can slide freely on the rib pieces. The valve has two seals at front and rear sides respectively to prevent leakage during closure and operation. The rear seal structure uses double EPDM rubber rings, which is durable for use; the front seal is a dual seal structure composing of soft and hard parts: the soft seal is in ring seal form, effectively avoiding high-speed erosion at the conical mouth, and improving the service life. The seal structures are all detachable for easy maintenance and replacement.
- 2. Adjusting sleeve: it is designed as a cylindrical shape that opens and closes the

- valve through linear motion along the axis. The surface of the nozzle at the front end of the adjusting sleeve is hardened, aiming to effectively withstand high-speed erosion. When the adjusting sleeve stroke ends, it contacts the seat ring, forming a dual soft-hard seal.
- 3. Rectification hood: if the drained water flow needs to be guided,, an inflatable rectification hood can be installed on the cone which is fixed at the front end of the body. The rectification hood can control the spread of the jet-flow to prevent water from splashing on the valve and achieve concentrated drainage of the water flow to downstream. During this process, it also partially dissipates energy of the water flow.
- 4. Drive device: the conical bleeding valve can be driven by electric, hydraulic cylinder, or manual methods according to the operating conditions.

TECHNICAL PARAMETERS

Applicable medium:Neutral liquids such as clean water and sewage, suitable for working in media with high impurity content
Applicable temperature:-29℃ -80℃
Test standard: Valve strength in accordance with GB/T 13927 standard: 1.5 x PN Sealing test: 1.1 x PN
Flange standard:Steel flange GB/T9124 or according to customer requirements
Pressure range:0.6-1.6MPa

MATERIALS FOR MAIN PARTS

Name of parts	Materials	Name of parts	Materials
Body/cone	Carbon steel/SS	Guiding rib surface	CuAl10Ni5Fe4
Adjusting sleeve	Carbon steel/SS	Gearbox	SS+Carbon steel
O-ring/ Rubber ring	EPDM rubber	Turbobox	SS+Carbon steel
Seat ring	SS 316+Ni copper	Support	Carbon steel WCB
Drive shaft/ screw	SS 2Cr13	Fairing	SS 304

MAIN EXTERNAL AND CONNECTING DIMENSIONS (PN10)

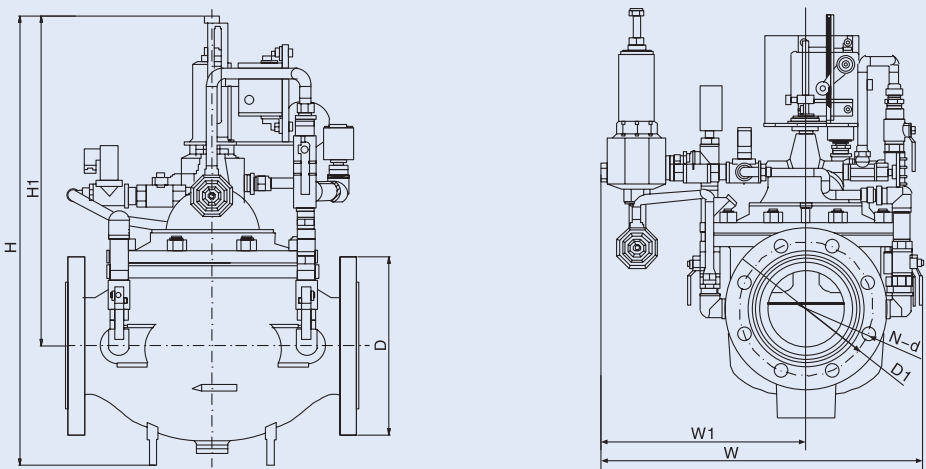
UNIT: mm

DN	200	300	400	450	500	600	700	900	1000	1100	1200	1300	1400	1500	1600	1800	2000
L	570	720	940	980	1120	1240	1350	1600	1780	1900	2100	2250	2350	2400	2560	2800	2900
H1	280	320	480	500	540	580	680	740	860	950	1020	1100	1200	1350	1420	1500	1820
H2	220	300	380	420	450	480	510	600	720	780	840	890	920	1030	1150	1240	1450
D	450	600	1000	1000	1160	1250	1400	1600	1900	2200	2300	2580	2580	2700	2780	2820	3100
WT(Kg)	380	410	490	520	580	950	1150	1750	2000	2500	3600	4400	5100	5900	6700	8900	9900

Note: This table does not list the specifications and parameters, please consult our technical department.

506X SURGE RELIEF VALVE

This valve is mainly installed at the bypass of the water supply pipeline at the outlet of the water pump to protect and prevent the equipment behind the pump from being damaged by the water hammer after the pump stops.



PRODUCTION OVERVIEW

The 506X surge relief valve has incomparable advantages such as compact structure, long service life, self-controlled pressure relief, and water hammer prevention. This valve can be widely used at the bypass of the water pipelines at the pump outlet position to protect the equipment behind the pump from being damaged by water hammer caused by the pump stop. When water hammer occurs, the valve opens to release pressure through external piping control.

MATERIALS FOR MAIN PARTS

NO.	Name of parts	Materials
1	Body	QT450-10 or Cast steel
2	Nut	A2-70
3	Bolt stud	OCr19Ni9
4	Bonnet	QT450-10 or Cast steel
5	Spring	OCr19Ni9
6	Axial sleeve	ZCuAl10Fe3
7	Diaphragm gland	ZCuAl10Fe3 or QT450-10
8	Diaphragm	BUNA-N
9	Valve (middle)	ZCuAl10Fe3 or QT450-10
10	O-ring	NBR
11	Seat	ZCuAl10Fe3 or SS
12	O-ring gland	ZCuAl10Fe3
13	Shaft	OCr19Ni9

MAIN EXTERNAL AND CONNECTING DIMENSIONS(PN10/16/25)

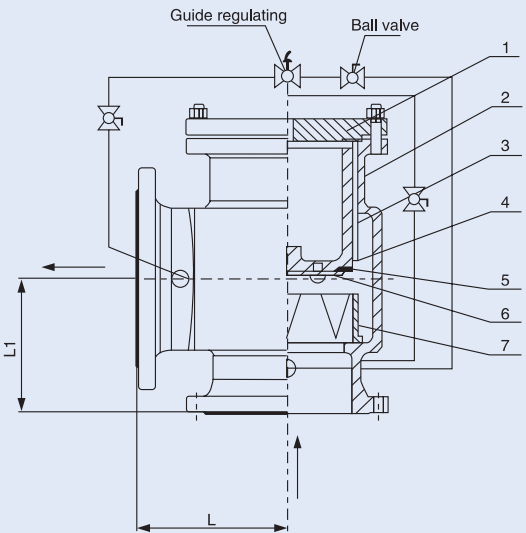
UNIT: mm

Nominal diameter DN	L(mm)		D			D1			N-d			H (mm)	H1 (mm)	W (mm)	W1 (mm)
	PN10/16	PN25	PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25				
50	241		165	165	165	125	125	125	4-Φ19	4-Φ19	4-Φ19	439	344	372	264
65	234.5	242.5	185	185	185	145	145	145	4-Φ19	4-Φ19	4-Φ19	434.5	339.5	381.5	269
80	280		200	200	200	160	160	160	8-Φ19	8-Φ19	8-Φ19	463.5	357.5	383	274
100	360		220	220	220	180	180	180	8-Φ19	8-Φ19	8-Φ19	553	405	436	277.5
150	455		285	285	285	240	240	240	8-Φ19	8-Φ19	8-Φ19	657.5	497.5	454.5	306.5
200	587		340	340	340	295	295	295	8-Φ23	8-Φ23	8-Φ23	781	550	514.5	316.5
250	790		395	405	425	350	355	370	12-Φ28	12-Φ28	12-Φ31	889.5	605.5	590	364.5
300	900		445	460	485	400	410	430	12-Φ28	12-Φ28	16-Φ31	1014.5	704.5	610	336.5
400	962		565	580	620	515	525	550	16-Φ28	16-Φ31	16-Φ37	1128.5	774.5	656.5	376.5
500	1076		670	715	730	620	650	660	20-Φ28	20-Φ34	20-Φ37	1387.5	972.5	766.5	386.5
600	1232		780	840	—	725	770	—	20-Φ31	20-Φ37	—	1610	1119	846.5	411.5
700	1437.3		895	910	—	840	840	—	24-Φ31	24-Φ37	—	1834.5	1268.5	941.5	442.5
800	1750		1015	1025	—	950	950	—	24-Φ34	24-Φ40	—	2067.5	1420.5	1037	473.5

Note: This table does not list the specifications and parameters, please consult our technical department.

SURGE ANTICIPATING VALVE

The valve has hydraulic automatic control function to lift and discharge water unconditionally under high pressure. The main valve can open and close slowly, and can be used on the outlet pipeline of water pumps, close to the water hammer source such as check valves.



PRODUCTION OVERVIEW

The surge anticipating valve consists of the main valve, high-pressure hydraulic pilot valve, guide pipe, and other components. It is featured with hydraulic automatic control, and can lift up to drain water unconditionally under high-pressure. Its main valve can be quickly opened and slowly closed. The valve can be used on the outlet pipeline of the water pump, approaching the position of the water hammer source

such as check valves. With an external T-shaped two-way connection, it can open in advance to prevent water hammer and unconditionally discharge high-pressure water hammer, serving as a safety protection device for pump stations, effectively improving system safety and reliability.

TECHNICAL PARAMETERS

- 1. Equipment model:GA6700(Through type), GA6600(Angular)
- 2. Nominal pressure:PN1.0- 6.4MPa
- 3. Set pressure: ① High Pressure: 1.1 times of the actual working pressure; ② High pressure: 1.15 times of the actual working pressure.
- 4. The response time of the surge relief valve is no more than 0.5 second, that is, the time from the occurrence of water hammer to the action that the surge relief valve takes to drain water is less than 0.5 second.
- 5. Applicable medium:Raw water, clean water
- 6. Medium temperature:1-80℃
- 7. Strength test:1.15 Times work pressure
- 8. Seal test:1.1 Times work pressure

MATERIALS FOR MAIN PARTS

NO.	Name	Material
1	Body,bonnet	DI, cast steel,SS
2	Seat	SS
3	Piston	SS
4	High pressure hydraulic pilot valve	SS
5	Piston ring	Buna-N rubber
6	Seat seal	Buna-N rubber
7	Pilot valve ring	Buna-N rubber
8	Seat gasket ring	Buna-N rubber
9	Bolting pad	Alloy steel
10	Gasket	Alloy steel

MAIN EXTERNAL AND CONNECTING DIMENSIONS

UNIT: mm

DN	200	250	350	400
L	226	260	290	330
L1	245	295	320	375

HYDRAULIC CONTROL BALL VALVE

It is mainly used in large/medium-sized hydropower stations, installed in front of the water turbine, serving as the inlet valve of the water turbine.



PRODUCTION OVERVIEW

The hydraulic control ball valve is mainly used in medium/large-sized hydropower stations. It shall be installed in front of the turbine, serving as the inlet valve for the turbine. It needs to be connected to the upstream pressure steel pipe and the downstream spiral casing inlet pipe. On one hand, when the turbine or generator needs maintenance, the valve can be used to safely cut off the water flow in the

pipeline for maintenance, while on the other hand, in case of abnormal conditions in the turbine or generator, the valve can quickly and effectively cut off the water flow to prevent accidents. The hydraulic control ball valve can be used in medium containing sediment-laden water. This valve can only be used as a shut-off valve and not for flow regulation.

PRODUCT CHARACTERISTICS

The hydraulic control ball valve mainly consists of mechanical valve system, mechanical transmission system, hydraulic control system, electrical automatic control system, bypass system, upstream joint pipe, downstream expansion joint pipe, and drainage system. Mechanical valve system: it mainly includes body, ball, stem, and movable seat. This is the core part of the entire valve, mainly used to cut off the water flow in the pipeline. Mechanical transmission system: it mainly includes gearbox, gears, racks, oil cylinders, and stroke indicators. The mechanical transmission part is mainly used to drive to open and close the valve, and to send position signals by the stroke. Electrical automatic control system: it mainly includes electrical control box, low-voltage electrical components, intelligent controller PLC, switch power supply, etc. It is used to control the valve opening and closing actions through the intelligent control of the PLC and various logic coordination with the central control system. Bypass system: it includes (hydraulic) control valves, manual valves, steel pipes, elbows, etc. The function of this part is to balance the upstream and downstream pressure differentials before the opening and closing of the valve, thus avoiding water hammer phenomena and effectively reducing the operating torque of the valve under full pressure differential. The hydraulic valve is installed at the downstream of the bypass pipeline, cutting off or connecting the bypass pipeline through hydraulic operation; the manual valve is installed in front of the hydraulic valve in the upstream of the bypass pipeline, cutting off the bypass pipeline for (hydraulic) control valve

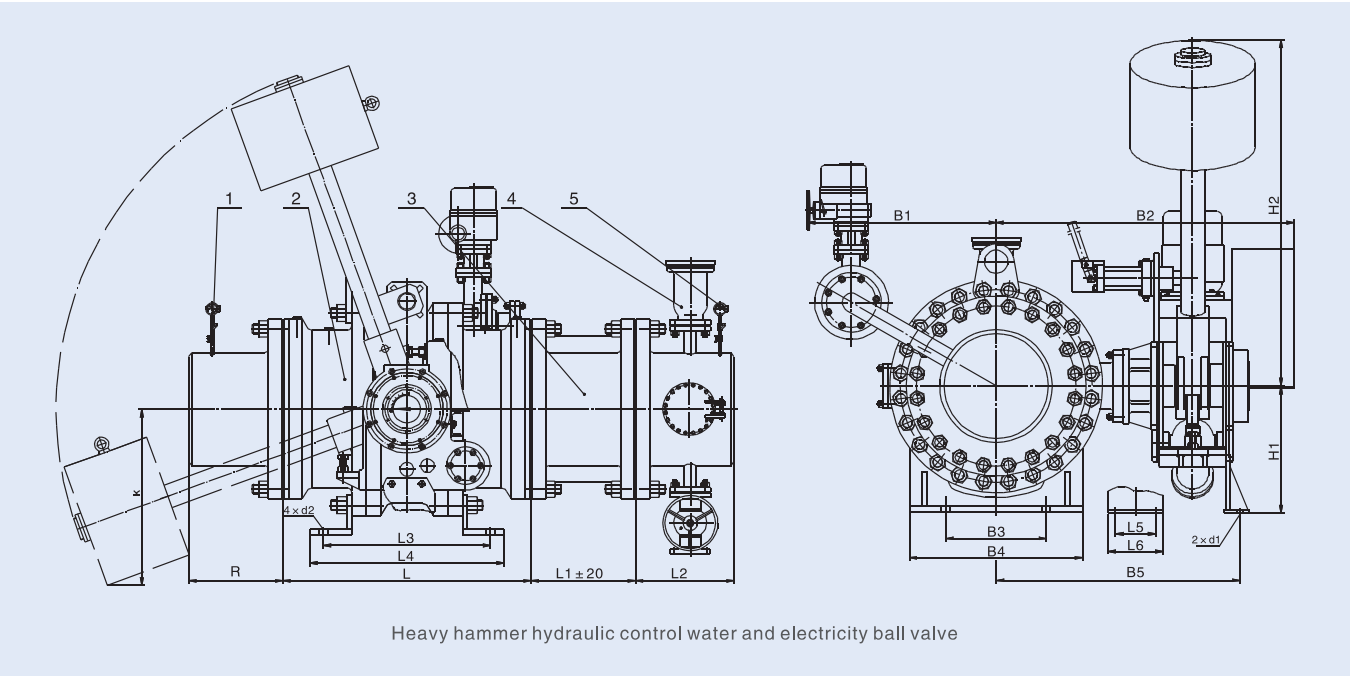
maintenance when the (hydraulic) control valve fails. Upstream joint pipe: it includes joint pipe, flange, and upstream pressure gauge, and is used to connect the valve to the upstream pressure steel pipe. Downstream expansion joint pipe: it includes joint pipe, flange, downstream pressure gauge, and is used to connect the valve to the downstream spiral casing. The joint pipe and the spiral casing are connected by flanges to facilitate the installation of the pipeline and valve. When it is necessary to inspect and repair the seat seal of the main valve, the joint pipe and flange can be easily removed to replace the sealed seat. On the other hand, it can adapt to the axial expansion and contraction of the pipeline caused by temperature and pressure changes. Drainage system: it includes manual waste valve, manual drain valve, and automatic exhaust valve. The manual waste valve is located at the bottom of the body (also the lowest part of the entire pipeline) and is used to drain the accumulated sediment and other impurities in the body during maintenance. The manual drain valve is installed at the bottom of the joint pipe and is used to drain the remaining water flow in the pipeline during maintenance of the valve or generator, facilitating downstream maintenance work. The automatic exhaust valve is installed at the top of the joint pipe and is used to automatically release the air in the pipeline before opening the main valve, so as to prevent the air from entering the turbine blades with the water flow and causing severe "cavitation" phenomena.

TECHNICAL PARAMETERS

Face To Face		GB/T12221	
Piping flange		Steel flange	GB/T9124
Accumulator standard		GB/T2352	
Testing and Inspection		GB/T 14478,GB/T 13927,DL/T 1068	
Quality assurance		ISO 9001	
Nominal diameter DN (mm)		500-3000	
Nominal pressure PN (MPa)		1.6-42	
Test pressure(MPa)	Seal	1.1xPN	
	Strength	1.5xPN	
Working pressure(MPa)		0.8xPN	
Medium temp.(℃)		≤80	
Hydraulic oil		N32#-46#	
Applicable medium		Water, sediment water, etc	

MATERIALS FOR MAIN PARTS

Name of parts	Material
Body	Carbon steel
Disc	Carbon steel
Shaft	SS,Carbon steel
Body sealing surface	copper alloy,SS,STL
Disc sealing ring	high quality NBR, SS
Sliding bearing	copper alloy,Composite bearings
Packing	V-Sealing ring,Flexible graphite
Wallboard	Carbon steel



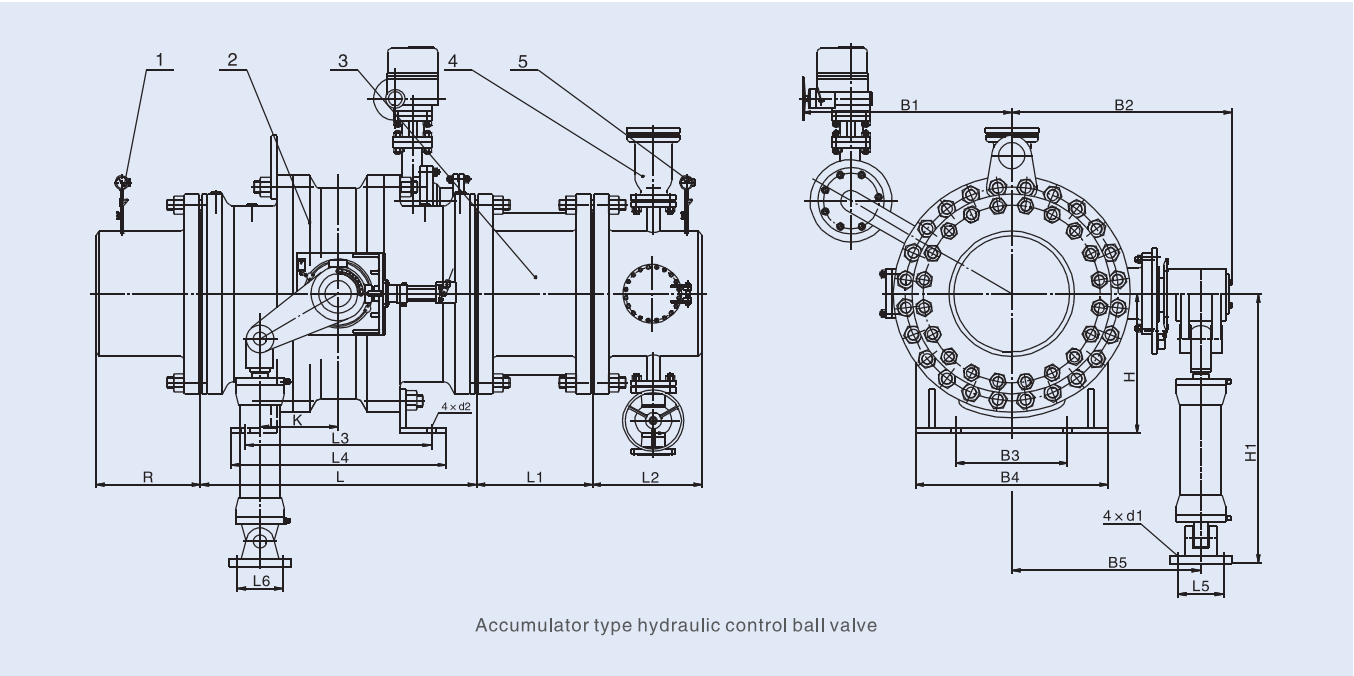
Heavy hammer hydraulic control water and electricity ball valve

MAIN EXTERNAL AND CONNECTING DIMENSIONS (PN10)

UNIT: mm

DN	L	R	L1	L2	L3	L4	L5	L6	K	H	H1	H2	B1	B2	B3	B4	B5	d1	d2
500	1054	600	500	600	700	830	160	220	520	600	300	970	930	640	400	500	830	24	30
600	1232	600	500	600	750	880	160	220	710	650	570	1380	1010	710	450	550	965	24	30
700	1397	600	600	600	850	980	160	220	710	700	570	1380	1060	770	570	700	1005	24	36
800	1651	650	600	650	1050	1200	160	220	710	750	570	1380	1110	820	650	780	1060	24	36
900	1880	700	700	700	1250	1400	160	220	820	800	570	1575	1170	880	700	860	1110	24	36
1000	1820	700	700	700	1250	1400	160	220	820	850	570	1575	1230	930	740	900	1235	24	36
1200	2060	800	800	800	1350	1600	160	220	820	950	570	1575	1350	1030	790	950	1335	24	42
1400	2300	800	800	1250	1550	1820	160	220	940	1050	940	1770	1490	1145	840	1000	1530	28	42
1600	2500	850	900	1250	1750	2050	160	220	1050	1150	1080	2070	1620	1260	1100	1300	1575	28	42
1800	2800	850	900	1250	2000	2350	160	220	1050	1250	1080	2070	1750	1370	1370	1570	1710	28	42
2000	3000	900	950	1250	2200	2550	200	280	1130	1350	1250	2275	1860	1470	1400	1650	1848	28	42
2200	3300	900	950	1300	2500	2850	200	280	1130	1450	1250	2275	1970	1590	1600	1880	1948	32	42
2400	3500	950	1000	1300	2700	3050	200	280	1220	1550	1440	2370	2090	1710	1740	2020	2110	36	48
2600	3750	950	1000	1300	2900	3250	200	280	1220	1650	1440	2370	2250	1830	1850	2200	2238	36	48
2800	3960	1000	1050	1300	3100	3500	200	280	1220	1750	1440	2370	2380	1930	2000	2400	2355	36	48
3000	4260	1000	1050	1300	3350	3750	200	280	1300	1850	1580	2470	2510	2035	2160	2560	2535	42	48

Note: This table does not list the specifications and parameters, please consult our technical department.



Accumulator type hydraulic control ball valve

MAIN EXTERNAL AND CONNECTING DIMENSIONS (PN10)

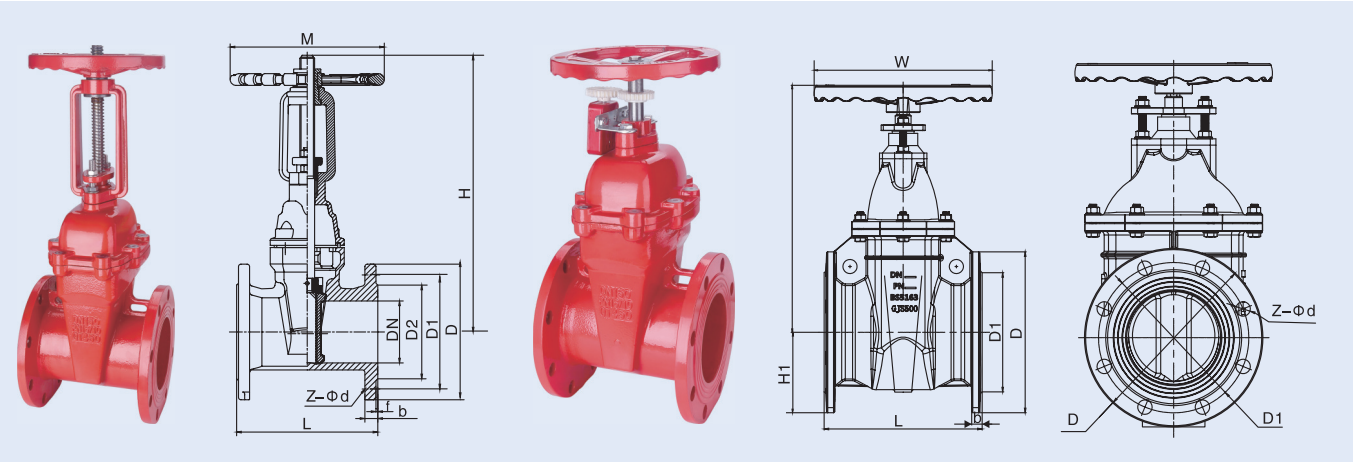
UNIT: mm

DN	L	R	L1	L2	L3	L4	L5	L6	K	H	H1	B1	B2	B3	B4	B5	d1	d2
500	1054	600	500	600	700	830	100	120	200	600	815	930	640	400	500	450	20	20
600	1232	600	500	600	750	880	100	120	200	650	815	1010	710	450	550	500	30	30
700	1397	600	600	600	850	980	120	150	250	700	905	1060	770	570	700	640	20	36
800	1651	650	600	650	1050	1200	120	150	250	750	905	1110	820	650	780	715	20	36
900	1880	700	700	700	1250	1400	160	200	300	800	1000	1170	880	700	860	795	20	36
1000	1820	700	700	700	1250	1400	160	200	300	850	1000	1230	930	740	900	825	20	36
1200	2060	800	800	800	1350	1600	200	240	400	950	1285	1350	1030	790	950	865	24	42
1400	2300	800	800	1250	1550	1820	200	240	400	1050	1285	1490	1145	840	1000	905	24	42
1600	2500	850	900	1250	1750	2050	240	320	500	1150	1410	1620	1260	1100	1300	1160	24	42
1800	2800	850	900	1250	2000	2350	240	320	500	1250	1545	1750	1370	1370	1570	1260	24	42
2000	3000	900	950	1250	2200	2550	320	400	550	1350	1645	1860	1470	1400	1650	1360	27	42
2200	3300	900	950	1300	2500	2850	320	400	550	1450	1765	1970	1590	1600	1880	1480	27	42
2400	3500	950	1000	1300	2700	3050	400	480	606	1550	1885	2090	1710	1740	2020	1605	36	48
2600	3750	950	1000	1300	2900	3250	400	480	606	1650	2015	2250	1830	1850	2200	1725	36	48
2800	3960	1000	1050	1300	3100	3500	400	480	606	1750	2115	2380	1930	2000	2400	1825	36	48
3000	4260	1000	1050	1300	3350	3750	400	480	650	1850	2245	2510	2035	2160	2560	1935	42	48

Note: This table does not list the specifications and parameters, please consult our technical department.

FIRE GATE VALVE

It is suitable for fire extinguishing pipeline systems; also suitable for domestic water supply, drainage systems, sewage treatment systems, chemical fluid transport systems.



PRODUCTION OVERVIEW

The fire gate valve is a type of valve commonly seen in fire extinguishing pipeline systems. It achieves sealing by the contact of the seat and the disc., achieves connection and disconnection of the fire extinguishing pipeline system, and enables

users to visually judge the valve's opening and closing status. Rising stem gate valves and non-rising stem signal gate valves are two types of valves commonly used in fire extinguishing systems.

PRODUCT CHARACTERISTICS

- 1. Full-bore runner, minimal fluid resistance when the valve is fully opened and the disc is totally lifted above the runner;
- 2. The flow direction of the medium is not restricted. It does not disturb the flow, and does not reduce the pressure;
- 3. Fully-rubber-coated plate, good sealing performance;
- 4. The inner and outer surfaces of the valve are coated with red-color non-toxic epoxy by electrostatic spraying technique.

PRODUCT APPLICATION

It is suitable for fire extinguishing pipeline systems; also suitable for domestic water supply, drainage systems, sewage treatment systems, chemical fluid transport systems, etc. Typical application industries include: fire pipeline networks, water plants and water source projects, environmental protection, municipal facilities, power and utilities, construction industry, steel, metallurgy, paper industry, etc.

TECHNICAL PARAMETERS

Nominal diameter	DN50-DN300
Max working pressure	PN16
Operating temperature	-15℃ -80℃
Liquid medium	Water
Connection type	Flange
Authentication	Fire certification
Connection standards	GB/T 17241.6
Face to face	GB/T 12221
Testing standards	GB/T 5135.6
Rated voltage	AC220V
Rated current	3A
Protection level	IP54

MATERIALS FOR MAIN PARTS

Name of parts	Materials	Brand
Body	DI	QT450-10
Bonnet	DI	QT450-10
Disc	Ductile iron coating	QT450+EPDM
Stem	SS	S42000
Handwheel	DI	QT450
Bolt	Carbon steel galvanized	45

EXTERNAL CONNECTION DIMENSIONS

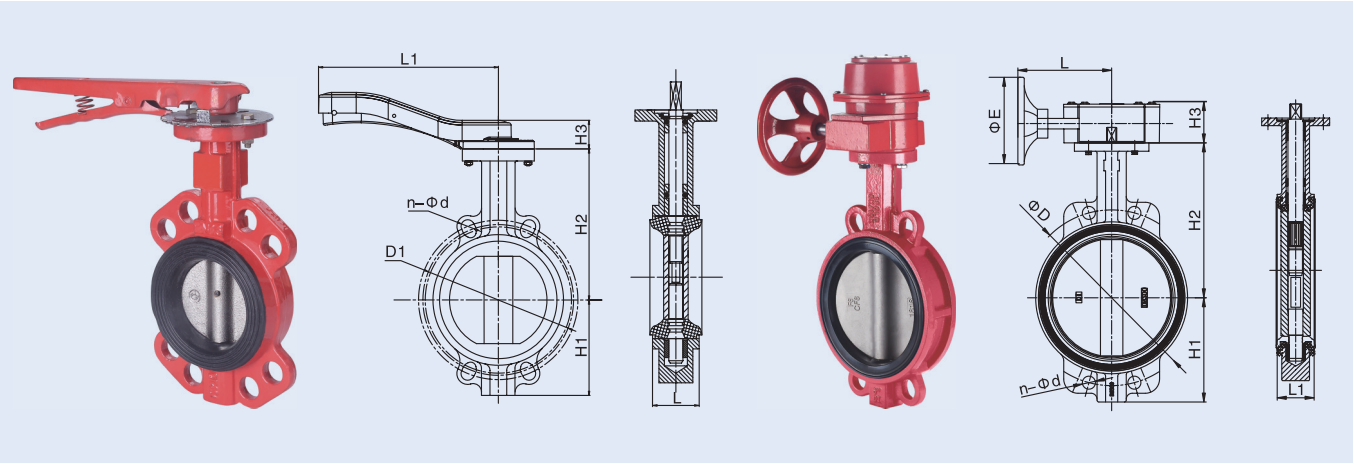
DN	Model	L	H1	H2	H2'	ΦE
50	ZSZF4-Q-50-16	190	83	320	345	200
65	ZSZF4-Q-65-16	190	93	320	365	203
80	ZSZF4-Q-80-16	203	100	380	420	203
100	ZSZF4-Q-100-16	229	110	450	500	203
125	ZSZF4-Q-125-16	254	125	495	560	280
150	ZSZF4-Q-150-16	267	143	595	670	280
200	ZSZF4-Q-200-16	292	170	730	830	365
250	ZSZF4-Q-250-16	330	203	920	1050	400
300	ZSZF4-Q-300-16	356	230	1070	1250	400

EXTERNAL CONNECTION DIMENSIONS

DN	Model	L	H1	H2	ΦE
50	ZSXZF4-Q-50-16	190	83	300	200
65	ZSXZF4-Q-65-16	190	93	300	203
80	ZSXZF4-Q-80-16	203	100	338	203
100	ZSXZF4-Q-100-16	229	110	385	203
125	ZSXZF4-Q-125-16	254	125	415	280
150	ZSXZF4-Q-150-16	267	143	472	280
200	ZSXZF4-Q-200-16	292	170	585	365
250	ZSXZF4-Q-250-16	330	203	738	400
300	ZSXZF4-Q-300-16	356	230	860	400

FIRE BUTTERFLY VALVE

It is suitable for use in water supply and drainage systems and fire extinguishing systems in building to achieve connection/cut-off and flow rate control of pipeline system



PRODUCTION OVERVIEW

It achieves functions of pipeline system opening and closing, and flow control. It is suitable for water supply and drainage systems, and building fire protection systems, etc.

PRODUCT CHARACTERISTICS

- 1. Simple structure, easy operation;
- 2. Easy installation, good sealing performance;
- 3. Long service life, high reliability;
- 4. Good interchangeability of parts;
- 5. Structure without pins or backrests ensures more reliable sealing.

OPERATIONAL PRINCIPLE

Users can control the rotation of the sealing disc by the rotating handle or handwheel, and control the opening and closing of valves, as well as regulate the flow rate.

MATERIALS FOR MAIN PARTS

Name of parts	Materials	Brand
Body	DI, Surface epoxy spraying	QT450-10
Disc	DI, Surface epoxy spraying	QT450-10
Seat	Rubber	EPDM
Stem	SS	431 (1Cr17Ni2)

TECHNICAL PARAMETERS

Nominal diameter	DN50-DN300
Max working pressure	PN16
Operating temperature	-15℃ ~80℃
Liquid medium	Water
Connection method	Clamping type
Connection standards	GB/T 17241.6 ISO5211
Face to face	GB/T 12221
Testing standards	GB/T 5135.6

CONNECTING DIMENSIONS(HANDLE TYPE)

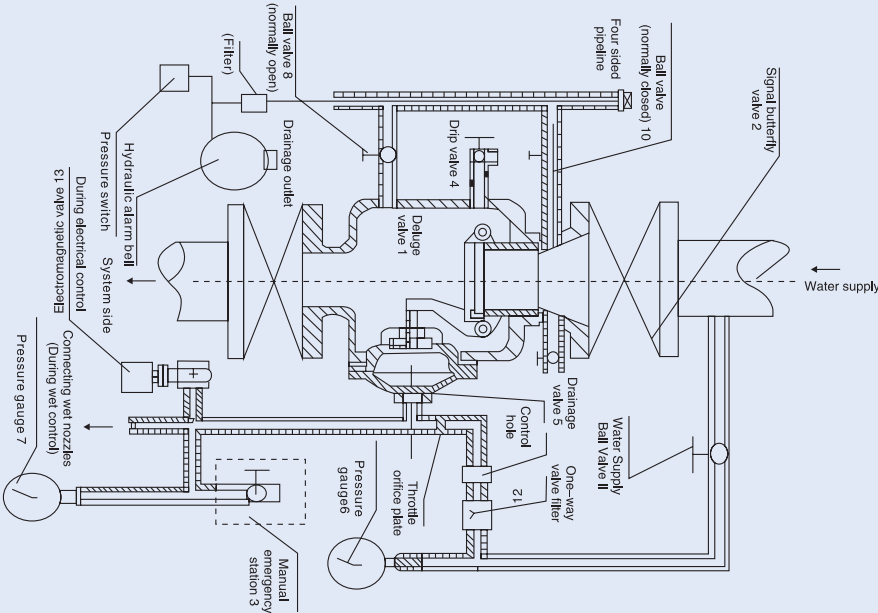
DN(mm)	Model	H1	H2	H3	L	L1
50	ZSDF7-Q-50-16	80	161	95	215	43
65	ZSDF7-Q-65-16	89	175	95	215	46
80	ZSDF7-Q-80-16	95	181	95	215	46
100	ZSDF7-Q-100-16	114	200	95	215	52
125	ZSDF7-Q-125-16	127	213	95	215	56
150	ZSDF7-Q-150-16	139	226	95	215	56

CONNECTING DIMENSIONS(WORM GEAR TYPE)

DN(mm)	Model	H1	H2	H3	L1	L	E
50	ZSDF7-Q-50-16	80	161	66	43	160	150
65	ZSDF7-Q-65-16	89	175	66	46	160	150
80	ZSDF7-Q-80-16	95	181	66	46	160	150
100	ZSDF7-Q-100-16	114	200	66	52	160	150
125	ZSDF7-Q-125-16	127	213	66	56	160	150
150	ZSDF7-Q-150-16	139	226	66	56	160	150
200	ZSDF7-Q-200-16	175	260	82	60	240	298
250	ZSDF7-Q-250-16	203	292	82	68	240	298
300	ZSDF7-Q-300-16	242	337	84	78	225	298

DELUGE ALARM VALVE

It is suitable for open water sprinkling systems, water curtain systems, water mist systems; together with fire detection devices, open system nozzles, system networks and necessary pipeline accessories, it forms a sprinkler fire extinguishing system.



PRODUCTION OVERVIEW

The deluge alarm valve consists of the deluge alarm body, pressure switch, hydraulic alarm bell, and pipeline accessories. Deluge alarm valves are widely used in open water sprinkler systems, water curtain systems, and water mist systems. The deluge alarm valve, together with fire detection device, open system nozzle, system pipeline network, and necessary pipeline accessories, compose the deluge sprinkler fire extinguishing system.

PRODUCT CHARACTERISTICS

- 1. Quick water sprinkling for fire extinguishing: it is generally used as a fire barrier. Therefore, the nozzles of the system are open. All open nozzles in the designed sprinkling area can spray water simultaneously when the system is activated. The deluge system is controlled by the deluge valve, and the pipeline is normally dry.
- 2. The pre-action system can cater to both dry and wet systems. The pipeline is normally dry. But it is linked to the alarm system. Once an alarm is triggered, water can be pre-filled, and the nozzles are closed at that time. The system is adopted with deluge valves. The requirements for such system are high. However, the advantage is that the pipeline of the system normally contains no water, which can prevent accidental sprinkler or freezing cracks.
- 3. Deluge sprinkler systems and pre-action system are designed for use in different occasions and designed with different flow rates and different required water volumes.

MAIN PERFORMANCE SPECIFICATION

Nominal pressure	PN1.6MPa
Rated working pressure	1.2MPa
Applicable medium temperature	≤70℃
Installation ambient temperature	4-70℃
Electromagnetic valve voltage	DC24V 1.5A

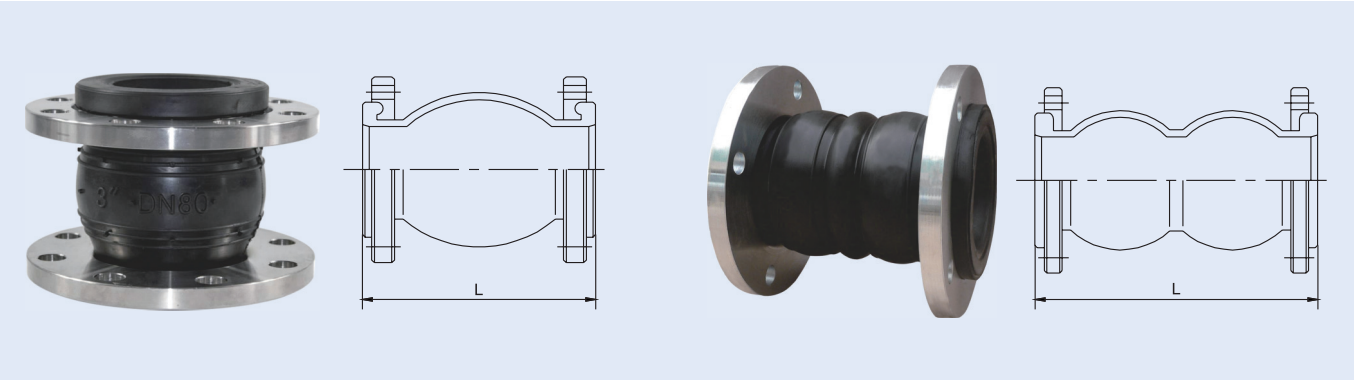
MAIN EXTERNAL AND CONNECTING DIMENSIONS(HANDLE TYPE)

UNIT: mm

Model specifications	DN	Outer diameter of flange	Body height	Center to center distance of holes	Number of holes	System external dimensions L x B x H
ZSFM-65	65	185	260	145	4-Φ18	615×398×450
ZSFM-80	80	195	280	160	8-Φ18	625×420×458
ZSFM-100	100	215	300	180	8-Φ18	642×450×505
ZSFM-125	125	245	310	210	8-Φ18	650×460×492
ZSFM-150	150	280	340	240	8-Φ18	660×495×538
ZSFM-200	200	335	400	295	12-Φ22	760×545×585
ZSFM-250	250	400	530	355	12-Φ26	870×620×680

SINGLE AND DOUBLE BALL RUBBER FLEXIBLE JOINTS

It is widely used in chemical, construction, water supply, drainage, petroleum, light and heavy industry, refrigeration, sanitation, plumbing, fire protection, electricity and other infrastructural engineering, especially suitable for pipelines with large vibrations and frequent cold and hot changes.



PRODUCTION OVERVIEW

It can be used for the connecting of water supply and drainage pipelines and air pipelines in buildings and petrochemical industries, and can eliminate pipeline vibrations, compensate for pipeline expansion, and make the installation easier.

PRODUCT CHARACTERISTICS

Lightweight, easy to install, good damping effect.

MATERIALS FOR MAIN PARTS

Flange connection—carbon steel
Rubber ball—steel wire reinforced rubber

PERFORMANCE SPECIFICATIONS

Model	DJT/SJT-1	DJT/SJT-2	DJT-3
Working pressure	1.0	1.6	2.5
Burst pressure	2	3	4.5
Vacuum degree	53.3	86.7	100
Applicable temperature	-15~115℃		
Applicable medium	Air, water, seawater, oil, acid-base, etc		

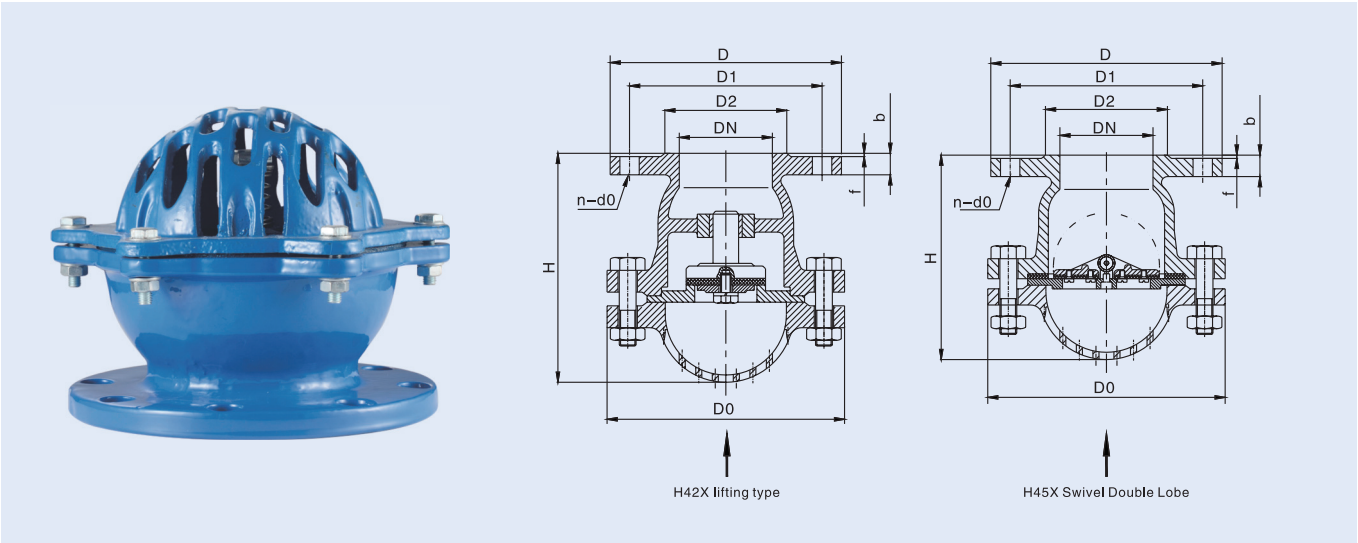
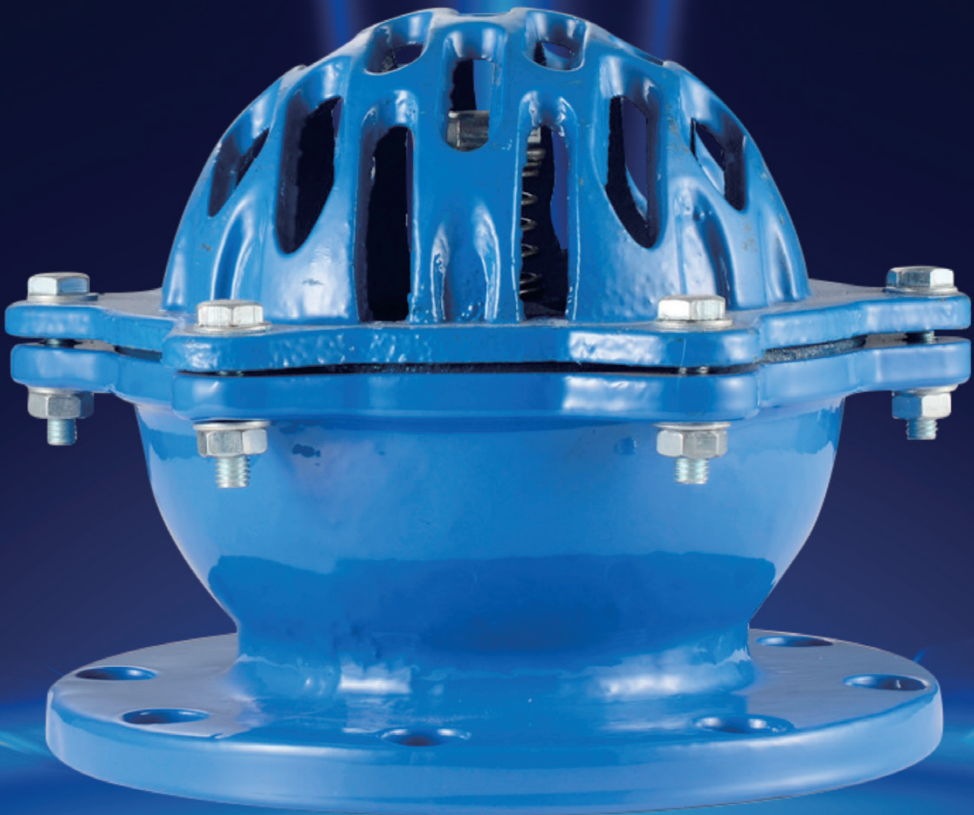
MAIN EXTERNAL AND CONNECTING DIMENSIONS(HANDLE TYPE)

UNIT: mm

DN		50	65	80	100	125	150	200	250	300
Single ball	L	105	115	135	150	165	180	190	230	245
	Axial displacement	Elongation	7	7	8	10	12	12	16	16
		Compress	10	13	15	19	19	20	25	25
	Lateral displacement	10	11	12	13	13	14	22	22	22
	Deflection angle	15	15	15	15	15	15	10	10	10
Double ball	L	175	175	175	225	225	225	300	315	325
	Axial displacement	Elongation	30	30	30	35	35	35	35	35
		Compress	50	50	50	50	50	50	60	60
	Lateral displacement	19	19	19	24	24	24	26	26	26
	Deflection angle	15	15	15	15	15	15	15	15	15

BOTTOM VALVE

It is widely used in purification equipment, petroleum, chemical, metallurgy, power, textile and other production process control systems. It is an important valve of the regulating system to control the one-way flow of medium in the pipeline and prevent media backflow.



PRODUCTION OVERVIEW

This valve is mainly installed at the bottom of the underwater suction pipe of the water pump to prevent the liquid in the water pump pipe from returning to the water source, ensuring one-way flow. It is widely used as the pump accessories in various water supply and drainage, petrochemical, and metallurgical industries.

PRODUCT CHARACTERISTICS

Reasonable structure, reliable performance, good disc sealing effect, flexible opening and closing, long service life.

EXECUTIVE STANDARD

Flange standard: GB/T17241(cast iron),GB/T9124(cast steel)
Testing and Inspection: GB/T13927

MAIN PERFORMANCE SPECIFICATION

Nominal pressure	0.25	MPa
Strength test	0.4	
Seal test	0.25	
Applicable temperature	≤80	℃
Applicable medium	Water, sewage, etc	

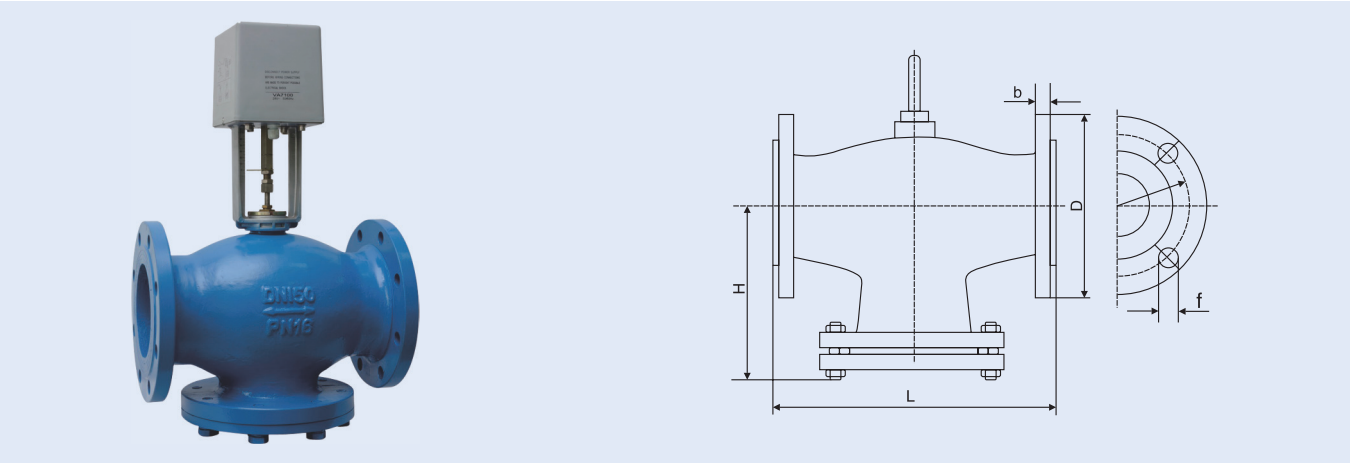
MATERIALS FOR MAIN PARTS

Name of parts	Material
Body/bonnet/disc	Cast iron, SS
Sealing ring	Rubber
Axial sleeve	Brass
Gasket	Graphite

MAIN EXTERNAL AND CONNECTING DIMENSIONS

PN0.25MPa

DN(mm)		50	65	80	100	125	150	200	250	300	350	400	500
H42X	D0	154	190	215	255	295	345	430	475	545	-	-	-
	H	160	191	216	255	285	336	405	497	580	-	-	-
H45X	D0	-	-	-	-	-	-	-	475	545	620	705	855
	H	-	-	-	-	-	-	-	445	548	637	726	760



VB7000 SERIES ELECTRIC TWO-WAY VALVE

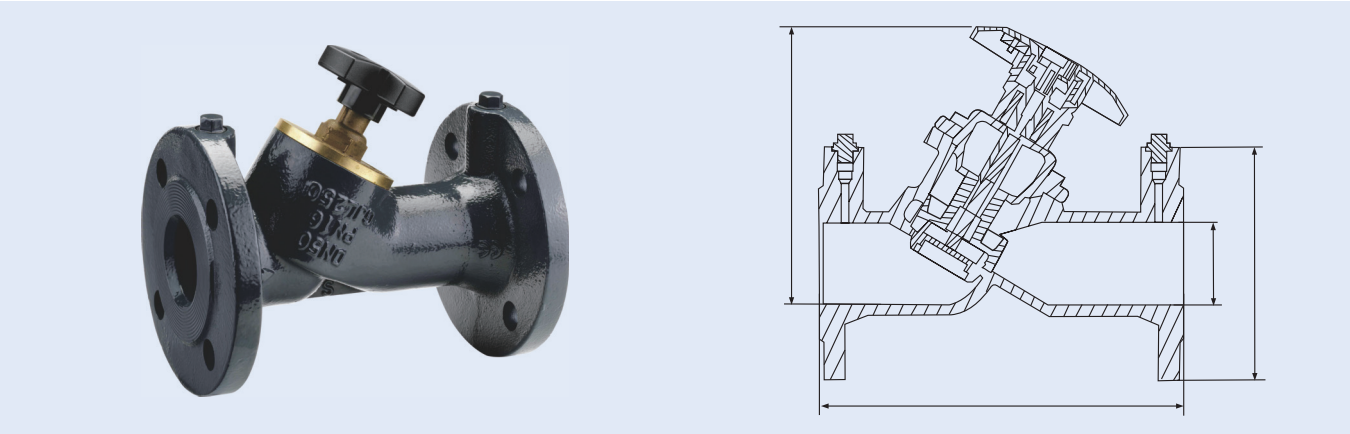
PRODUCTION OVERVIEW

The VB7000 series electric two-way valve includes the body, bonnet, disc, stem, shaft seal, and sealing components. This valve is used for fluid control in systems such as central air conditioning, heating, water treatment, industrial processing industries, etc. The two-way and three-way forms of the products are available.

MAIN EXTERNAL AND CONNECTING DIMENSIONS

UNIT: mm

PN1.6 MPa						
DN	65	80	100	125	150	200
L	290	310	350	400	480	533
H	158	195	216	237	282	289



RV-TYPE STATIC BALANCE VALVE

PRODUCTION OVERVIEW

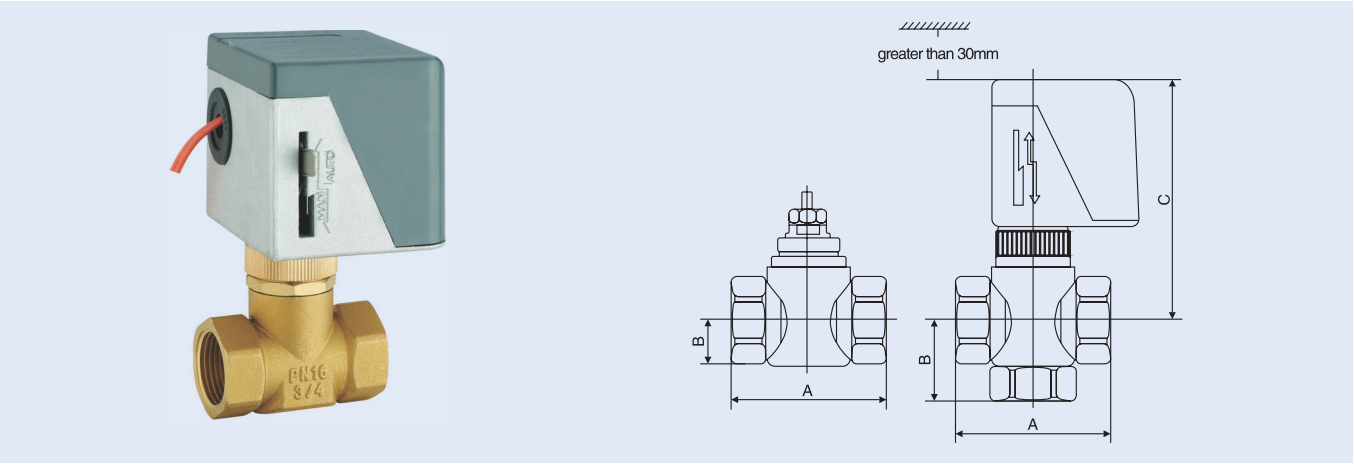
The RV-type static balance valve is a liquid pipeline flow control valve, which facilitates accurate flow regulation, and effectively addresses issues of uneven temperature distribution and hydraulic imbalance in pipeline systems. It not only offers good regulating performance but also features opening display and control

functions. Equipped with a flow pressure measuring valve, this valve allows to finish debugging with only one time adjustment by intelligent instruments. It can keep the total water volume in the system within a reasonable range, thus achieving pipeline balance and significant energy savings.

MAIN EXTERNAL AND CONNECTING DIMENSIONS

UNIT: mm

PN1.6 MPa													
DN	32	40	50	65	80	100	125	150	200	250	300	350	400
D	100	110	125	145	160	180	210	240	295	355	410	470	515
L	180	180	215	240	280	310	355	400	465	550	600	850	1150
H1	275	275	305	345	395	430	283	285	467	480	515	1035	1280



VA7010 SWITCH-TYPE ELECTRIC TWO-WAY VALVE

PRODUCTION OVERVIEW

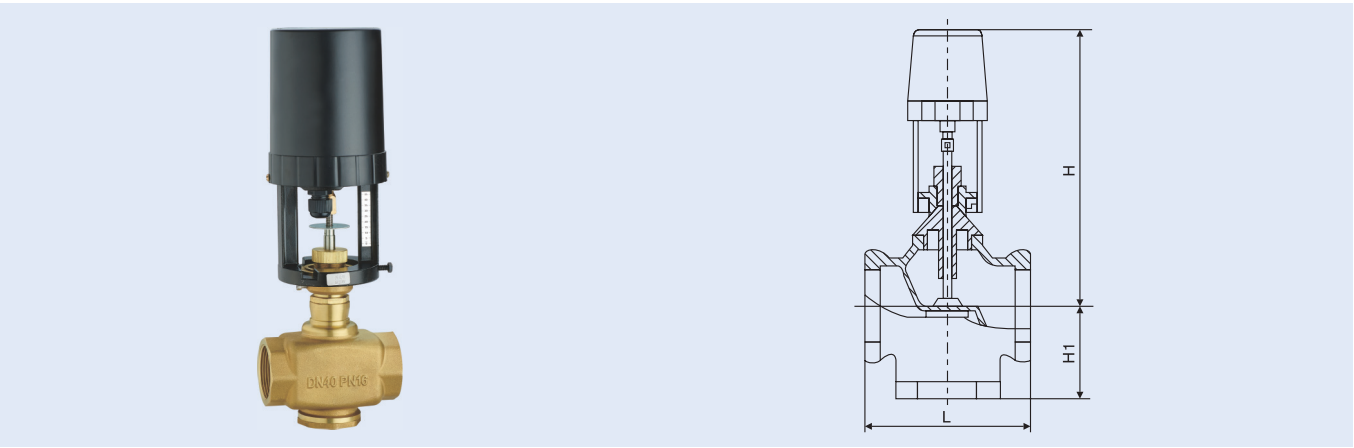
The VA7010 switch-type electric two-way valve is used to control the opening and closing of cold or hot water pipelines of the air-conditioning system to regulate room temperature. The actuator is driven by a unidirectional hysteresis synchronous motor, with the valve spring for reset. The valve remains closed when it is not in operation and opens when a signal is provided by the thermostat, allowing the electric valve

to connect to the AC power supply and open the valve and make the chilled or hot water enter the fan coil unit, so as to provide cool or heated air to the room. When the room temperature reaches the set value on the thermostat, the thermostat cuts off power to the electric valve, and the reset spring closes the valve to stop the water flowing into the fan coil unit.

MAIN EXTERNAL AND CONNECTING DIMENSIONS

UNIT: mm

PN1.6 MPa						
Size(mm)	Two-way			Three-way		
	15	20	25	15	20	25
A	58	67	90	58	67	90
B	14.5	19	24	29	34	38
C	100	104.5	109.5	101	106	110



VB3200 ELECTRIC TWO/THREE-WAY CONTROL VALVE

PRODUCTION OVERVIEW

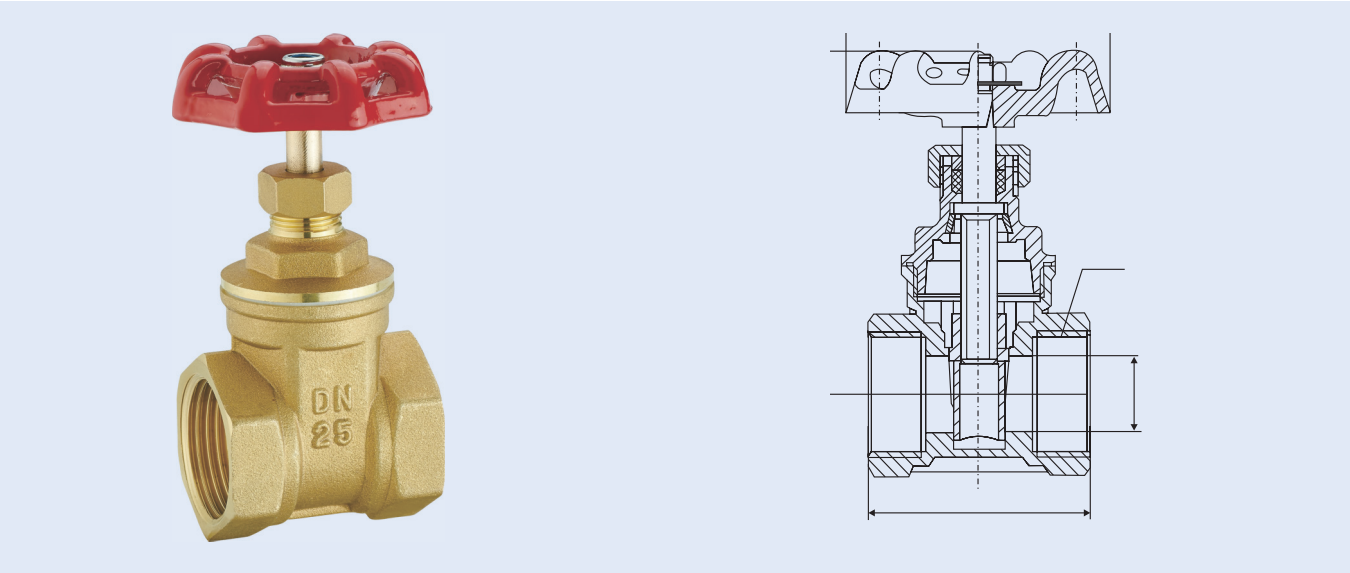
VB3200 electric two/three-way control valve is equipped with drive control device to regulate the flow of steam or flow rate of heating, ventilation, and air conditioning systems. The actuator features an aluminum bracket and plastic casing, making

it compact and lightweight. It uses a synchronous motor with a hysteresis clutch mechanism for reliable self-protection. The transmission gears are made of metal, which significantly improves the service life of the drive.

MAIN EXTERNAL AND CONNECTING DIMENSIONS

UNIT: mm

PN1.6 MPa				
DN	25	32	40	50
L	110	120	130	145
H	265	270	275	285
H1	80	85	85	90

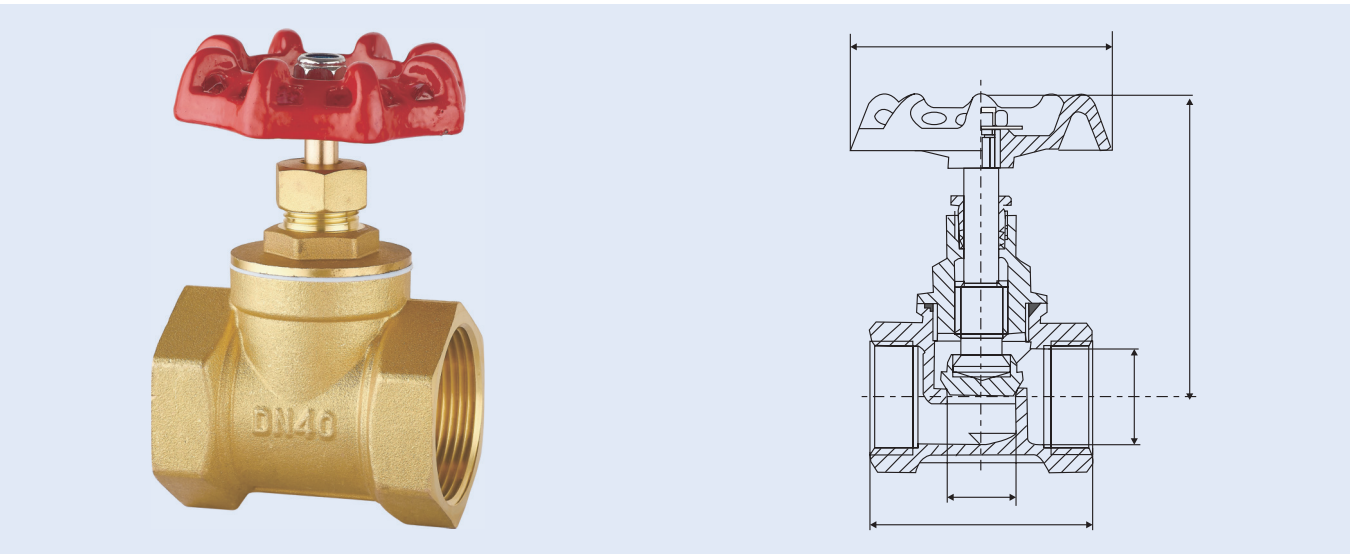


BRASS SCREW THREAD GATE VALVE (Z15W) • MAIN EXTERNAL AND CONNECTING DIMENSIONS

• TECHNICAL SPECIFICATIONS

Nominal pressure: PN1.6MPa
Working medium: water, non-corrosive liquid, saturated steam ($\leq 0.6\text{MPa}$)
Operating temperature: -20°C $\leq 150^{\circ}\text{C}$
Pipe thread standard: conform to ISO228 standard

DN(mm)	NPS(in)	A	B	C	D	G
15	1/2"	43	12.7	71	54	1/2"
20	3/4"	46	16	76	54	3/4"
25	1"	49	20	86	60	1"
32	1 1/4"	52	26	99	68	1 1/4"
40	1 1/2"	56.5	32	109.5	72	1 1/2"
50	2"	64	43	130.5	80	2"
65	2 1/2"	80	52	160	100	2 1/2"
80	3"	83	63.5	186.5	110	3"
100	4"	101.5	84	227.5	125	4"

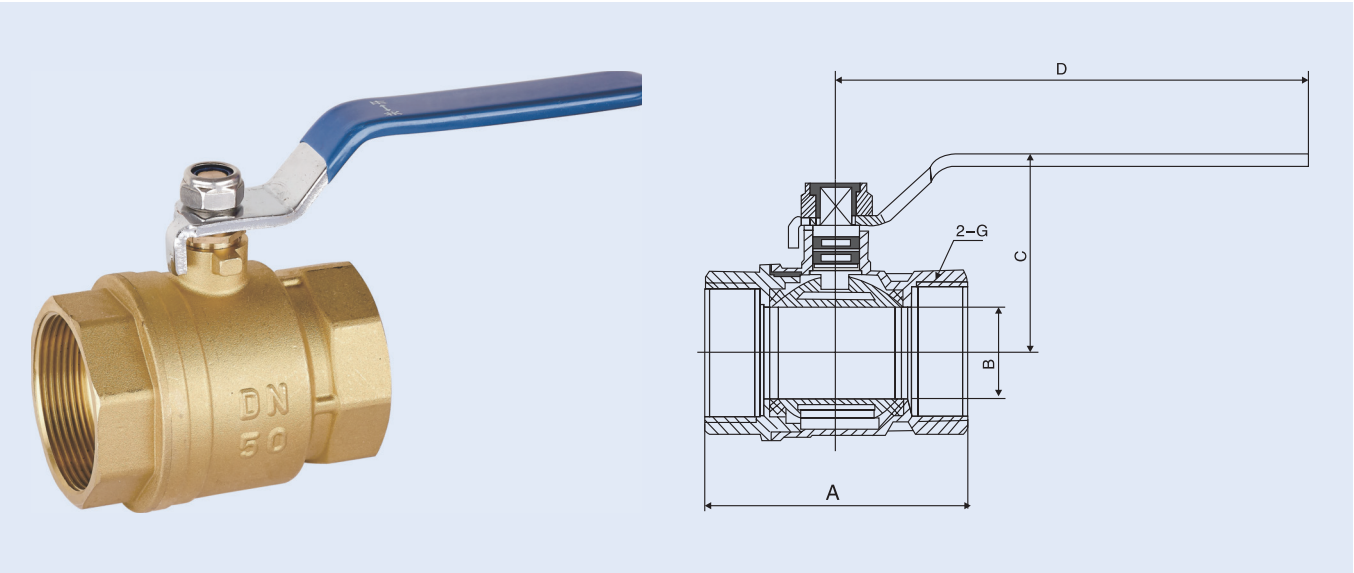


SCREW THREAD GLOBE VALVE (J15W) • MAIN EXTERNAL AND CONNECTING DIMENSIONS

• TECHNICAL SPECIFICATIONS

Nominal pressure: PN1.6MPa
Working medium: water, non corrosive liquids, saturated steam($\leq 0.6\text{MPa}$)
Operating temperature: -20°C $\leq 150^{\circ}\text{C}$
Pipe thread standard: in accordance with ISO228 standard

DN(mm)	NPS(in)	A	B	C	D	G
15	1/2"	45	12.5	65-68.5	55	1/2"
20	3/4"	51	16	71-76	60	3/4"
25	1"	64.5	22	82-90	72	1"
32	1 1/4"	75	26	95.4-106.5	80	1 1/4"
40	1 1/2"	100	41	122.5-136	110	2"



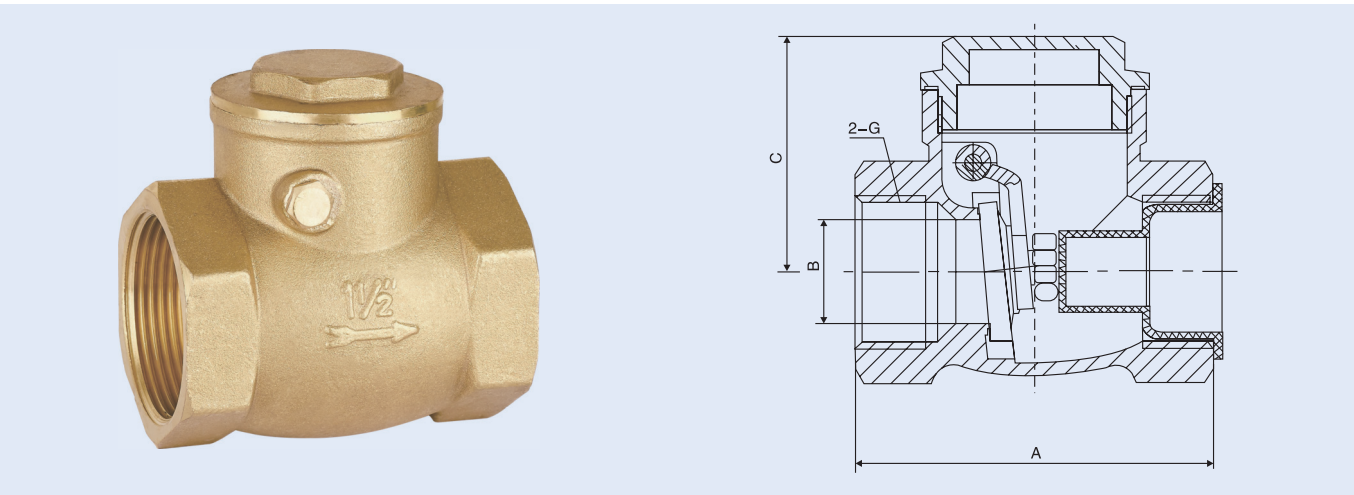
SCREW THREAD BALL VALVE (Q11F)

• TECHNICAL SPECIFICATIONS

Nominal pressure: PN1.6MPa
Working medium: water, non-corrosive liquid, saturated steam ($\leq 0.6\text{MPa}$)
Operating temperature: -20°C $\leq 100^{\circ}\text{C}$
Pipe thread standard: in accordance with ISO228 standard

• MAIN EXTERNAL AND CONNECTING DIMENSIONS

DN(mm)	NPS(in)	A	B	C	D	G
15	1/2"	52.8	14	41	98	1/2"
20	3/4"	63	19	44.5	98	3/4"
25	1"	72	23.5	55	110	1"
32	1 1/4"	80	30	61	140	1 1/4"
40	1 1/2"	90.6	37	66	140	1 1/2"
50	2"	106	46.5	75	155	2"
65	2 1/2"	132.4	56	92	190	2 1/2"
80	3"	151	68.5	106	230	3"
100	4"	190.5	85	117.5	230	4"



Horizontal check valve (H11W)

• TECHNICAL SPECIFICATIONS

Nominal pressure: PN1.6MPa
Working medium: water, non corrosive liquid ($\leq 0.6\text{MPa}$)
Operating temperature: -10°C $\leq 100^{\circ}\text{C}$
Pipe thread standard: in accordance with ISO228 standard

• MAIN EXTERNAL AND CONNECTING DIMENSIONS

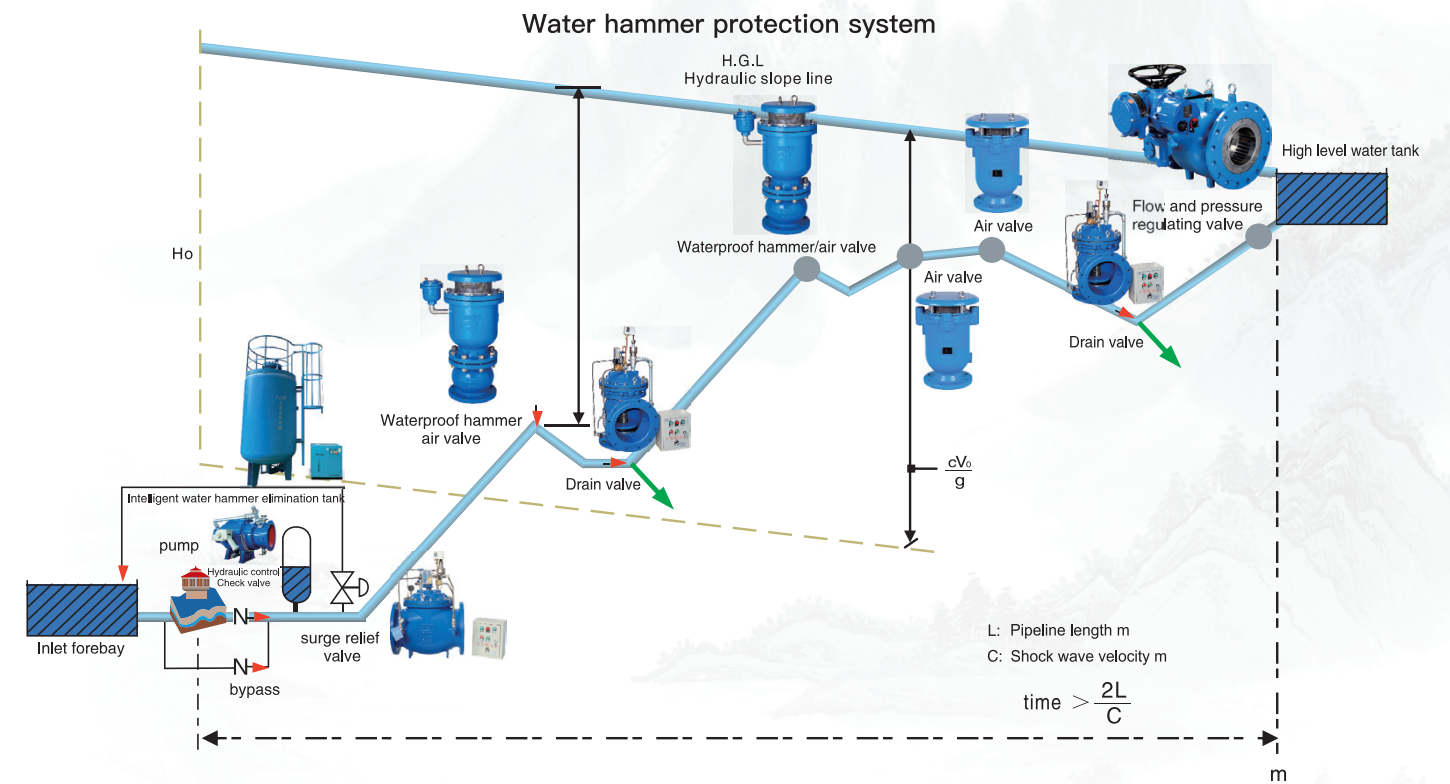
DN(mm)	NPS(in)	A	B	C	G
15	1/2"	48	13	34	1/2"
20	3/4"	59	17	40.5	3/4"
25	1"	68	23	46	1"
32	1 1/4"	78	30	51.5	1 1/4"
40	1 1/2"	88	35	57.5	1 1/2"
50	2"	105	45	68.5	2"
65	2 1/2"	130	63	85.5	2 1/2"
80	3"	147	75	95.5	3"
100	4"	180	93	116.5	4"

APPLICATION FIELD

Leading the
Global Valve Industry.



Leading the global valve industry.



“Pursuing excellent quality, making achievements by scientific management.” Over the past few years, the company has maintained stable product quality for a long time, passing all national and local quality supervision spot checks and having no quality accidents or major customer complaints. Customers are highly satisfied with the product quality.

