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宇明阀门集团
YUMING VALVE GROUP

Harbor the world a Better Tomorrow

— Warmly celebrate the 50th anniversary of Yuming valve group —

中国驰名商标
China Well-known Trademark



企业简介

Company Profile

宇明阀门集团有限公司位于“中国阀门之乡”荥阳，北临黄河，毗邻S314省道，连霍高速、陇海铁路，交通便利，物流发达。公司始建于1972年，工业园区占地面积82000平方米。现有员工500余人，各类专业技术人员80余人，注册资金1亿元。已成为集研发、制造、销售于一体的专业阀门制造商。

2021年，宇明阀门出口营业额突破2000万美元；2022年，宇明阀门出口营业额突破2500万美元，并试图在未来做的更好。在2021年新增两条生产线，主要生产大型工程类阀门(DN4000以下)；并在2021年底投资郑州一阀流体科技有限公司，拥有生产设备600多台，其中机加工、试验机、测量设备300多台，操作人员约400多人，我们拥有多年的阀门制造经验，并且拥有最专业的团队。我们想强调的是，在宇明的研发部门有6名高级工程师和12名相关的主要工程师帮助CAD绘图和技术支持，另外4名专家在QC部门。

除了优秀的生产团队，宇明阀门还拥有全面的销售管理，与全球客户打交道。95%的营业额来自出口俄罗斯、阿根廷、菲律宾、越南、印度尼西亚、哥伦比亚、智利、瑞典、挪威、比利时、法国、德国、罗马尼亚、意大利、西班牙、土耳其、以色列、伊朗、埃及、南非、澳大利亚、马来西亚、泰国、新加坡、美国、香港、台湾和韩国，与中外朋友合作共赢，建立了牢固的合作关系，同时更结下了深厚的情谊，为宇明阀门的发展注入了持久的活力。

选择“宇明”，选择“信任”。

Yuming Valve Group Co., Ltd. is located in Xingyang, the "Hometown of Valves in China", facing the Yellow River to the north, adjacent to S314 Provincial Highway, Lianhuo Expressway and Longhai Railway, with convenient transportation and developed logistics. The company was founded in 1972, and the industrial park covers an area of 82,000 square meters. There are more than 500 employees, more than 80 professional and technical personnel of various types, and a registered capital of 100 million yuan. It has become a professional valve manufacturer integrating R&D, manufacturing and sales.

2021, Yuming valve export turnover exceeded 20 million US dollars. In 2022, Yuming valve export turnover exceed 25 million US dollars, and is trying to do more in the future. In 2021, two new production lines has added, mainly producing bigger size (up to DN4000) engineering valves; and at the end of 2021, we invested in Zhengzhou Yiva Fluid Technology Co., Ltd., and we have more than 600 production facilities, including more than 300 machining, testing machines, and measuring equipment. about 400 operators, we have many years of valve manufacturing experience, and have the most professional team. We would like to emphasize that there are 6 senior engineers and 12 related main engineers in Yuming's R&D department to help with CAD drawing and technical support, and the other 4 experts are in the QC department.

In addition to an excellent production team, Yuming Valve also has a comprehensive sales management to deal with global customers. And 95% of the turnover comes from exports to Russia, Argentina, the Philippines, Vietnam, Indonesia, Colombia, Peru, Chile, Sweden, Norway, Belgium, France, Germany, Romania, Italy, Spain, Turkey, Israel, Iran, Egypt, South Africa, Australia, Malaysia, Thailand, Singapore, the United States, Hong Kong, Taiwan and South Korea, and win-win cooperation with Chinese and foreign friends, established a deep cooperative relationship, and at the same time forged a stronger friendship, which injected lasting vitality into the development of Yuming.

Select "Yuming", select "Trust"

YUMING VALVE GROUP

Expert in Industry Fluid System Control

企业资质

Enterprise Qualification

企业获得的资质和荣誉，是对宇明集团过去取得成绩的肯定，也是对宇明集团创造明日辉煌的鼓舞和鞭策！向新的台阶迈进，是宇明人顽强拼搏，永远追求的信念！

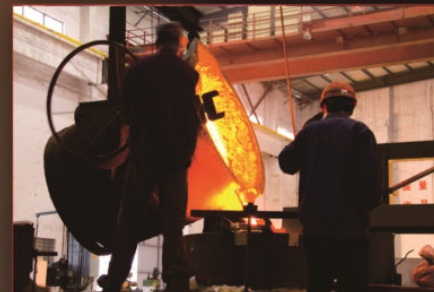
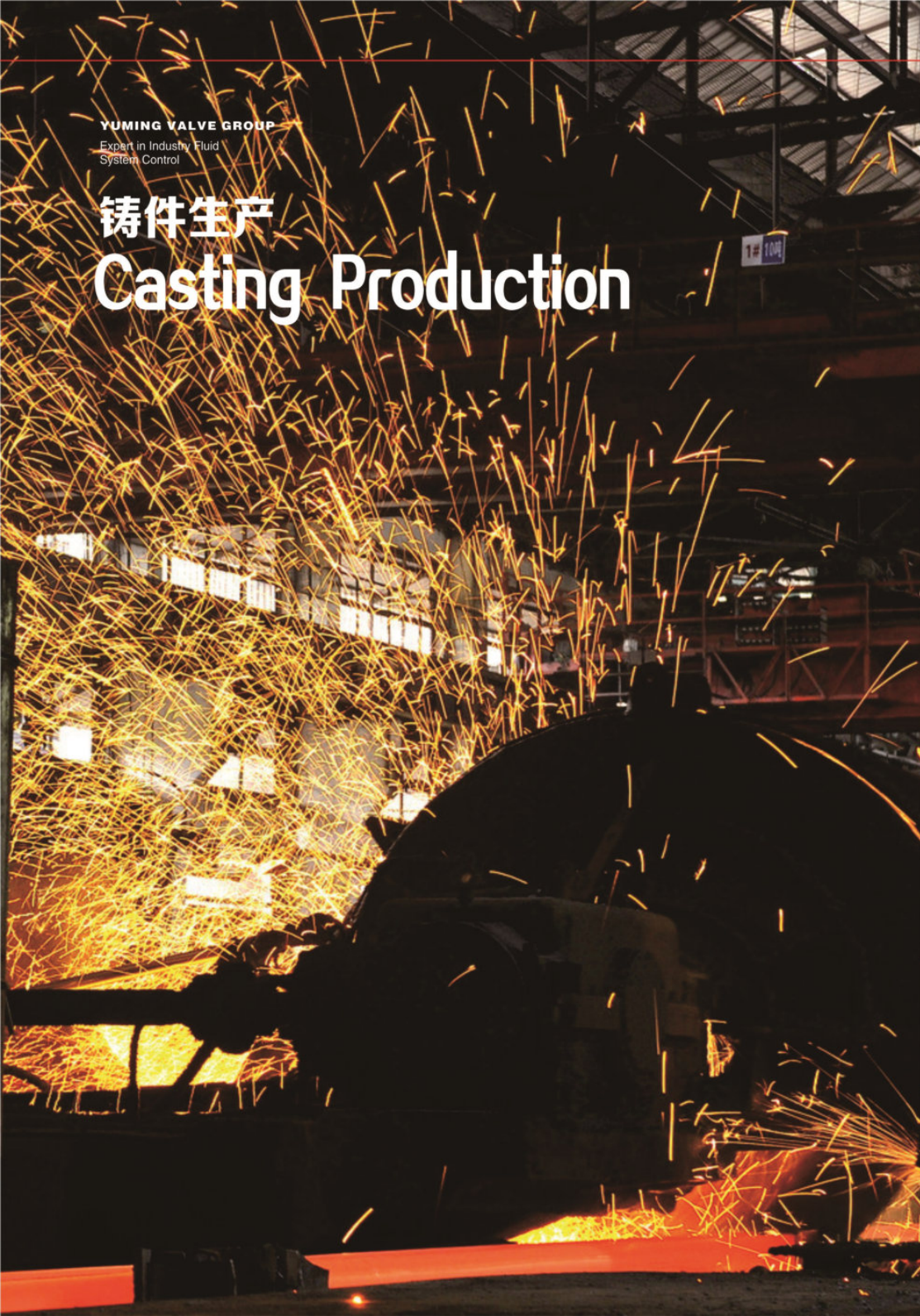
Qualifications and honors obtained by the enterprise, It is an affirmation of Yuming Group's achievements in the past, It is also an encouragement and spur to Yuming Group to create a brilliant tomorrow! to a new level,



YUMING VALVE GROUP

Expert in Industry Fluid
System Control

铸件生产 Casting Production



YUMING VALVE GROUP

Expert in Industry Fluid
System Control

生产装备 Production equipment

拥有铸造、加工、焊接、热处理等先进的加工设备和专业化的生产车间，不断完善产品加工工艺，严格控制产品制造的每一道工序、每一个环节，精益求精，确保宇明阀门的优良品质。

It has advanced processing equipment such as casting, machining, welding, heat treatment, and specialized production workshops, constantly improves product processing technology, strictly controls every process and every link of product manufacturing, and strives for excellence to ensure the excellent quality of Yuming valves.



YUMING VALVE GROUP

Expert in Industry Fluid
System Control

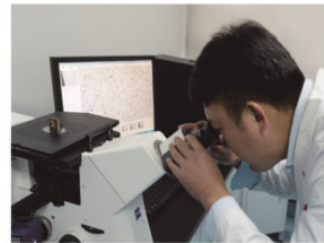
检测中心 Test Center



• 冲击试验机
Impact testing machine

为了提供高品质产品，公司配置了先进的检测设备以及完善的检测手段，建立了一支严格要求的品质管理队伍，实现了从原材料检测，生产过程检测，产品及应用全过程的质量控制。

In order to improve the quality of products, The company is equipped with advanced testing equipment and perfect testing methods, Established a strict quality management team, Realized from the detection of raw materials, production process testing, Quality control of the whole process of products and applications.



• 金相分析仪
Metallographic Analyzer



• 直读光谱仪
Direct Reading Spectrometer



• 试样制备机
Sample preparation machine

YUMING VALVE GROUP

 Expert Industry Fluid
 System Control

VALVE PRODUCTS COMPREHENSIVE CATALOG

Gate valve series

Spring sealing gate valve	01-02
Non-rising stem soft sealing gate valve	03-04
Rising stem soft sealing gate valve	05-06

Butterfly valve series

Wafer butterfly valve	07-10
Flanged centerline butterfly valve	11-13
Double eccentric flange (telescopic) butterfly valve	14-16
Hydraulic control butterfly valve	17-19
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Micro-resistance slow-closing butterfly check valve	23-25
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anechoic check valve	29
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Hydraulic control valve	33-44
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Diaphragm type angle type mud discharge valve	49
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Digital locking balancing valve	54
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Connector series

Double flange telescopic (power transmission) joint	57-59
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Ball valve series

Top entry eccentric half ball valve	62-64
Double eccentric hemisphere valve	65-67

Control valve series

Piston (regulating flow and pressure) control valve	68-71
Multifunctional water pump control valve	72-74

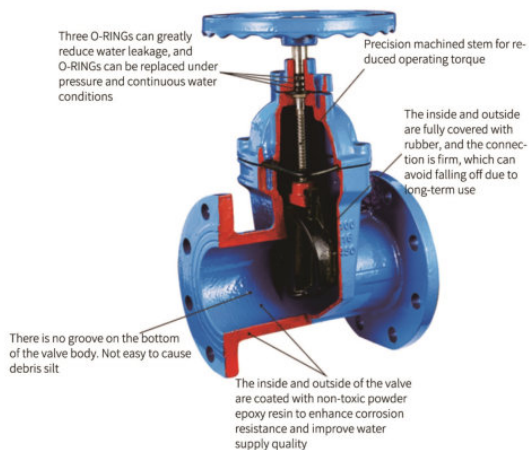
Fire valve series

Fire gate valve	75-76
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Grooved slow closing check valve/pressure relief valve	80
Grooved hydraulic electric control valve / hydraulic electric float valve	81
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Overview:

Gate valve is one of the most widely used valves in various fluid conveying projects. The traditional gate valve has the phenomenon of easy leakage of fluid and serious corrosion of internal parts. The common soft seal gate valve on the market at present is easy to leak at the shaft seal of the valve stem, and the sealing ring cannot be replaced under the condition of continuous water and any opening.

The elastic seat gate valve adopts novel structural design, strict manufacturing technology and new high-performance materials, which overcomes the defects of traditional gate valves such as poor sealing, easy corrosion of internal parts, especially gate plates, fatigue and easy aging of rubber elasticity, and reliable sealing performance. Easy operation, simple and convenient maintenance, and long service life. It is suitable for domestic water system, drainage system, sewage treatment system, chemical fluid conveying system, etc. It is used as a cut-off device on fluid pipes in construction, urban environmental protection, petrochemical, pharmaceutical, food, metallurgy, textile, electric power and other industries (not applicable for throttling).



Technical parameter:

Nominal size	DN40—DN800		
Applicable media	Clear water, medium with physicochemical properties similar to water (Please specify the media such as sewage, raw water, hot water, oil, etc.)		
Temperature(°C)	0-65(Standard configuration) 0-100(Hot water configuration)		
Nominal pressure	PN10	PN16	PN25
Pressure(MPa)	≤1.0	≤1.6	≤2.5
Strength test(MPa)	1.5	2.4	3.8
Seal test(MPa)	1.1	1.8	2.8
Low pressure sealing test(MPa)	0.05	0.05	0.05

Features:

Elastic seat gate valve, the main seal is an integral gate plate covered by rubber, which produces a small amount of adaptive elastic deformation under the action of operating force and water pressure, forming an excellent sealing effect with the precision casting valve seat.

1. Ductile iron precision casting shell

The valve seat and valve cover are made of ductile iron with high strength and corrosion resistance. The valve seat and valve body are integrally formed by precision casting without any machining.

2. Full diameter flat bottom runner

When the valve is fully opened, the gate is completely lifted out of the flow channel, and there is no groove at the bottom of the valve seat, which is not easy to accumulate debris. It is equivalent to a straight pipe and has the lowest flow resistance.

3. All rubber-coated gates

The high-performance rubber wraps the skeleton completely, and the cast iron is completely isolated from the medium without corrosion. Soft rubber seal, firm and clean with the skeleton, integrally formed by hot vulcanization.

4. Integral copper nut

The gate nut is integrally connected with the skeleton, and there is no idle travel and looseness. Made of bronze, self-lubricating with the valve stem, effectively reducing operating torque.

5. Gate rail system

There is a guide rail system between the valve body and the gate. When the gate is sealed, the bearing water pressure does not deviate, and the rubber has no contact wear during lifting, preventing the valve stem from bending.

6. Stainless steel stem

Stainless steel corrosion-resistant valve stem, trapezoidal thread rolling processing, smooth and wear-resistant threads, effectively reducing operating torque and improving service life.

7. Double thrust bearing (dark rod type DN≤300)

The bonnet neck is equipped with double thrust bearings, and the inverted valve stem avoids being punched out by water pressure. Made of bronze, self-lubricating with the valve stem, effectively reducing operating torque.

8. Stem axial seal (dark rod type)

Three O-rings, axial self-sealing under the action of water pressure, no trouble of packing seal adjustment. The top dust retaining ring prevents external impurities from entering the inside of the shaft seal.

9. Inverted sealing structure (dark rod type DN≤300)

Inverted sealing structure, allows the valve to replace the O-ring seal at the gland under emergency conditions of continuous water and any angle of opening.

10. Middle flange connection

High-strength socket head cap screws, hot melt adhesive and valve cover rubber ring are closed, which completely isolate the screw from the working medium and the external environment.

11. Double legs and double rings

For gate valves of all specifications, the valve body is integrally cast with two legs, and the valve cover is integrally cast with two lifting rings, which are convenient for handling and storage.

12. Five poisons anti-corrosion coating

The inner and outer surfaces of the valve are electrostatically coated with non-toxic epoxy resin powder, which is anti-corrosion and long-life, and can be directly used in drinking water, food and medicine industries.

13. Various types of operation

The structure has dark rod type and open rod type. It can be operated by handwheel, T-shaped handle, electric, pneumatic and other devices, valve position on-site indication, valve position signal output, combination lock control, extended operating lever, direct buried device, etc. are available for selection.

14. Easy installation and construction

It has connection methods such as flange, clamp groove, socket, socket, mechanical street, PE joint, etc., optional telescopic function, and convenient connection with cast iron, steel, plastic and other pipes.

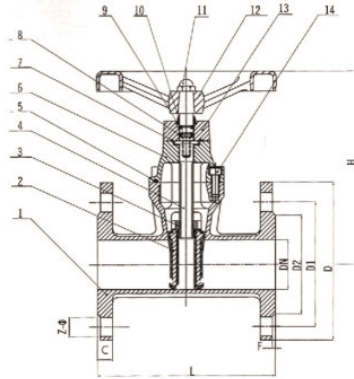
暗杆软密封闸阀

Non-rising stem soft sealing gate valve



暗杆软密封闸阀

Non-rising stem soft sealing gate valve



Features

The soft-sealed gate valve of the dark rod utilizes the deformation compensation effect of the overall rubber covering of the gate to achieve a good sealing effect, overcomes the phenomenon of poor sealing, water leakage and rust of the general gate valve, and saves the installation space more effectively. It can be widely used in tap water, sewage, construction, petroleum, chemical industry, food, medicine, textile, electric power, shipbuilding, metallurgy, energy system and other fluid pipelines as a regulating and throttling device.

Technical requirement

1. The valve design and manufacture are in accordance with the standard of GB/24924-2010;
2. The length of the valve structure is in accordance with the specifications of GB/T12221-2005;
3. Inspection and testing shall comply with the relevant provisions of GB/T13927-2008;
4. The flange size shall be in accordance with the provisions of GB/T17241.6-2008;

Performance Specifications

Nominal size	40-1000				mm
Nominal pressure	1.0		1.6		MPa
Test pressure	Strength test	water	1.5	2.4	
			Seal test	1.1	
	Air seal test	0.6	0.6		
Applicable temperature	0-80°C				
Applicable media	water, oil, etc.				

Main material

Serial number	Name	Material
1	Body	QT450
2	Plate	QT450+NBR
3	Stem Nut	QT450
4	Stem	20Cr13
5	Middle flange seal	NBR
6	Cover	QT450
7	O-ring	NBR
8	O-ring	NBR
9	Countersunk head bolts	35#
10	Dust jacket	NBR
11	Round head screw	35#
12	Hand wheel	QT450
13	Gland	QT450
14	Countersunk head bolts	35#

External dimensions and connection dimensions(mm)

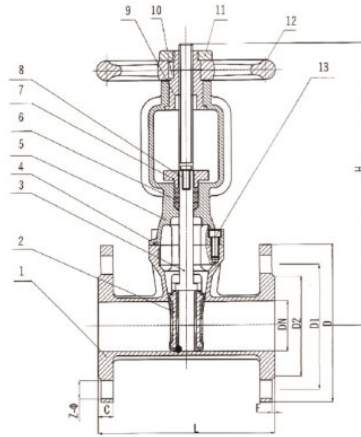
Z45X-10Q

DN	L	D	D1	D2	C	F	Z-φ	H
40	165	150	110	84	19	3	4-φ19	240
50	178	165	125	99	19	3	4-φ19	240
65	190	185	145	118	19	3	4-φ19	260
80	203	200	160	132	19	3	8-φ19	275
100	229	220	180	156	19	3	8-φ19	380
125	254	250	210	184	19	3	8-φ19	410
150	267	285	240	211	19	3	8-φ23	435
200	292	340	295	266	20	3	8-φ23	630
250	330	395	350	319	22	3	12-φ23	645
300	356	445	400	370	24.5	4	12-φ23	697
350	381	505	460	429	24.5	4	16-φ23	802
400	406	565	515	480	24.5	4	16-φ28	842
450	432	615	565	530	25.5	4	20-φ28	1060
500	457	670	620	582	26.5	4	20-φ28	1170
600	508	780	725	682	30	5	20-φ31	1300
700	610	895	840	794	32.5	5	24-φ31	1550
800	660	1015	950	901	35	5	24-φ34	1750
900	711	1115	1050	1001	37.5	5	28-φ34	1950
1000	811	1230	1160	1112	40	5	28-φ37	2170

External dimensions and connection dimensions(mm)

Z45X-16Q

DN	L	D	D1	D2	C	F	Z-φ	H
40	165	150	110	84	19	3	4-φ19	240
50	178	165	125	99	19	3	4-φ19	240
65	190	185	145	118	19	3	4-φ19	260
80	203	200	160	132	19	3	8-φ19	275
100	229	220	180	156	19	3	8-φ19	380
125	254	250	210	184	19	3	8-φ19	410
150	267	285	240	211	19	3	8-φ23	435
200	292	340	295	266	20	3	12-φ23	630
250	330	405	355	319	22	3	12-φ28	645
300	356	460	410	370	24.5	4	12-φ28	697
350	381	520	470	429	26.5	4	16-φ28	802
400	406	580	525	480	28	4	16-φ31	842
450	432	640	585	548	30	4	20-φ31	1060
500	457	715	650	609	31.5	4	20-φ34	1170
600	508	840	770	720	36	5	20-φ37	1300
700	610	910	840	794	39.5	5	24-φ37	1550
800	660	1025	950	901	43	5	24-φ40	1750
900	711	1125	1050	1001	46.5	5	28-φ40	1950
1000	811	1255	1170	1112	50	5	28-φ43	2170



Features

The rising rod soft sealing gate valve can display the valve opening more intuitively, and the opening and closing is fast and reliable, so it is often used in fire protection and industrial systems. Generally installed at a higher position from the ground. It can be widely used in tap water, sewage, construction, petroleum, chemical industry, food, medicine, textile, electric power, shipbuilding, metallurgy, energy system and other fluid pipelines as regulation and interception devices.

Technical requirement

1. The valve design and manufacture are in accordance with the standard of GB/24924-2010;
2. The length of the valve structure is in accordance with the specifications of GB/T12221-2005;
3. Inspection and testing shall comply with the relevant provisions of GB/T13927-2008;
4. The flange size shall be in accordance with the provisions of GB/T17241.6-2008;

Performance Specifications

Nominal size		40-1000				mm
Nominal pressure		1.0		1.6		MPa
Test pressure	Strength test	1.5		2.4		
	Seal test	water	1.1	water	1.8	
	Air seal test	0.6		0.6		
Applicable temperature		0-80°C				
Applicable media		water, oil, etc.				

Main material

Serial number	Name	Material
1	Body	QT450
2	Plate	QT450+NBR
3	Stem Nut	QT450
4	Stem	20Cr13
5	Middle flange seal	NBR
6	Cover	QT450
7	O-ring	NBR
8	O-ring	NBR
9	Countersunk head bolts	35#
10	Dust jacket	NBR
11	Round head screw	35#
12	Hand wheel	QT450
13	Gland	QT450
14	Countersunk head bolts	35#

External dimensions and connection dimensions(mm)

Z41X-10Q

DN	L	D	D1	D2	C	F	Z-φ	H
40	165	150	110	84	19	3	4-φ19	242
50	178	165	125	99	19	3	4-φ19	242
65	190	185	145	118	19	3	4-φ19	255
80	203	200	160	132	19	3	8-φ19	315
100	229	220	180	156	19	3	8-φ19	395
125	254	250	210	184	19	3	8-φ19	535
150	267	285	240	211	19	3	8-φ23	575
200	292	340	295	266	20	3	8-φ23	745
250	330	395	350	319	22	3	12-φ23	975
300	356	445	400	370	24.5	4	12-φ23	1005
350	381	505	460	429	24.5	4	16-φ23	1192
400	406	565	515	480	24.5	4	16-φ28	1335
450	432	615	565	530	25.5	4	20-φ28	1565
500	457	670	620	582	26.5	4	20-φ28	1755
600	508	780	725	682	30	5	20-φ31	1810
700	610	895	840	794	32.5	5	24-φ31	1550
800	660	1015	950	901	35	5	24-φ34	1750
900	711	1115	1050	1001	37.5	5	28-φ34	1950
1000	811	1230	1160	1112	40	5	28-φ37	2170

External dimensions and connection dimensions(mm)

Z41X-16Q

DN	L	D	D1	D2	C	F	Z-φ	H
40	165	150	110	84	19	3	4-φ19	242
50	178	165	125	99	19	3	4-φ19	242
65	190	185	145	118	19	3	4-φ19	255
80	203	200	160	132	19	3	8-φ19	315
100	229	220	180	156	19	3	8-φ19	395
125	254	250	210	184	19	3	8-φ19	535
150	267	285	240	211	19	3	8-φ23	575
200	292	340	295	266	20	3	12-φ23	745
250	330	405	355	319	22	3	12-φ28	975
300	356	460	410	370	24.5	4	12-φ28	1005
350	381	520	470	429	26.5	4	16-φ28	1192
400	406	580	525	480	28	4	16-φ31	1335
450	432	640	585	548	30	4	20-φ31	1565
500	457	715	650	609	31.5	4	20-φ34	1755
600	508	840	770	720	36	5	20-φ37	1810
700	610	910	840	794	39.5	5	24-φ37	1550
800	660	1025	950	901	43	5	24-φ40	1750
900	711	1125	1050	1001	46.5	5	28-φ40	1950
1000	811	1255	1170	1112	50	5	28-φ43	2170

Technical requirement

This series of butterfly valves adopts a centerline design. The main structure of the valve is composed of valve body, valve disc, valve seat, valve stem and transmission operating mechanism. The valve seat adopts a detachable structure, and can be adjusted according to the physical and chemical properties of different media. Choose the corresponding high-temperature, low-temperature, corrosion-resistant, light-resistant, aging-resistant materials. It can be widely used in water supply and drainage, sewage, construction, air conditioning, petroleum, chemical industry, food, medicine, light textile, papermaking, electric power, shipbuilding, metallurgy, energy system and other fluid pipelines as adjustment and interception devices.



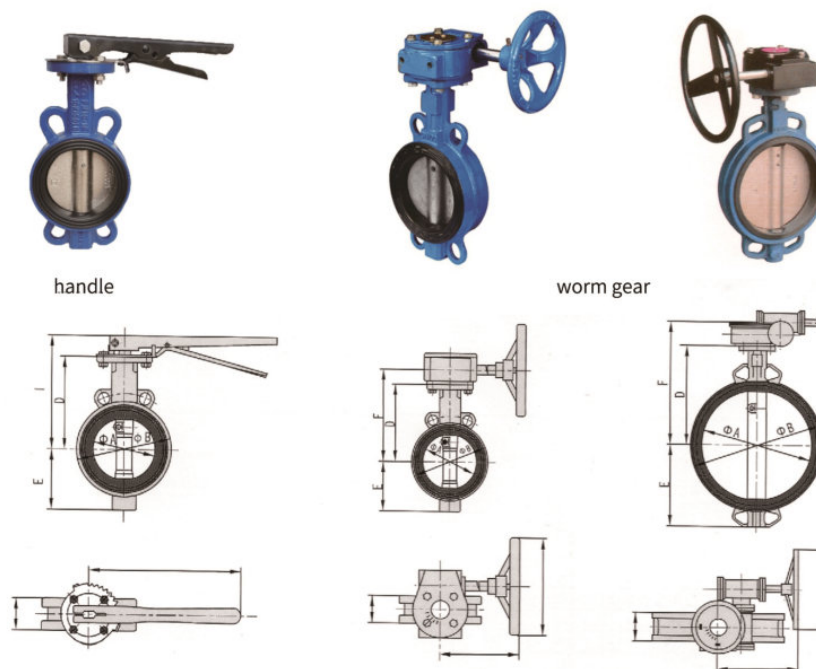
Features

1. The valve seat adopts a detachable design to facilitate on-site maintenance, and adopts a full-flow area design, which is not easily affected by material jamming. The conjoined "0" type sealing line at both ends makes the pipeline installation without additional gaskets and maintains reliable sealing, and can be installed according to Different use requires different materials.
2. The valve material adopts a streamlined design, which can be used in both directions, with small flow resistance and excellent flow characteristics.
3. The shaft pin adopts a pull-out pin structure, which can tightly combine the valve disc and valve shaft together without loosening or weakening the strength of the shaft, and has good interchangeability, and no pinless connection is used. 4. The valve body structure length series is in accordance with the S05752 Table4 standard (GB12221).
5. If the valve body connection is used for ANSI125/150, DIN2501PN10/PN16, 1SB221010K, ISG55277.5K standards, please indicate it when signing the contract
- 6 The connection of the operating actuator is in accordance with the S05211 standard.
7. The selection of the operating mechanism is flexible, and different rotating devices such as manual, electric and pneumatic can be configured according to the needs of users.

Technical parameters (standard type)

Nominal size	DN 50-DN600	
Nominal pressure	PN10/PN16	
Shell test pressure	1.5 / 2.4MPa	
Seal test pressure	1.1 / 1.7MPa	
Applicable temperature	0°C—90°C	
Applicable media	water	
Standard material	Body	ductile iron
	Disc	304 stainless steel, Ductile iron chrome coating (DN200 and above)
	Seat	EPDM
	Stem	420 stainless steel
Surface coating	Epoxy powder coating	

Note: For special material requirements, please consult our business department.

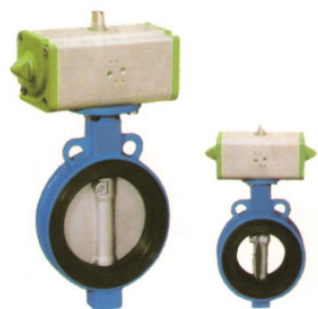


Dimensions

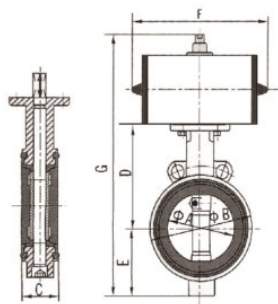
Inch	DN	φA	φB	C	D	E	F	φG	H	I	L	Remark
2	50	50	105	43	116	57	147	150	150	151	250	handle operation/ Worm gear and worm operation
2-1/2	65	65	125	46	121	70	152	150	150	156	250	
3	80	80	140	46	130	76	164	150	150	165	250	
4	100	100	155	52	150	100	181	150	150	185	250	
5	125	125	190	56	162	125	193	150	150	197	268	
6	150	150	216	56	190	140	221	220	190	230	268	Worm gear and worm operation
8	200	200	271	60	215	170	251	300	224	-	-	
10	250	250	326	68	250	202	286	300	224	-	-	
12	300	300	376	78	300	235	338.5	300	224	-	-	
14	350	325	422	78	350	248	390	300	240	-	-	
16	400	375	483	102	360	270	443	220	336	-	-	
18	450	425	530	114	400	327	483	220	336	-	-	
20	500	475	582	127	430	355	534	350	351	-	-	
24	600	575	688	154	517	417	638	350	402	-	-	

对夹式蝶阀 Wafer butterfly valve

D671X-10/16Q

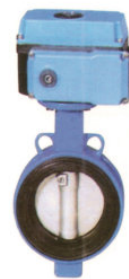


pneumatic

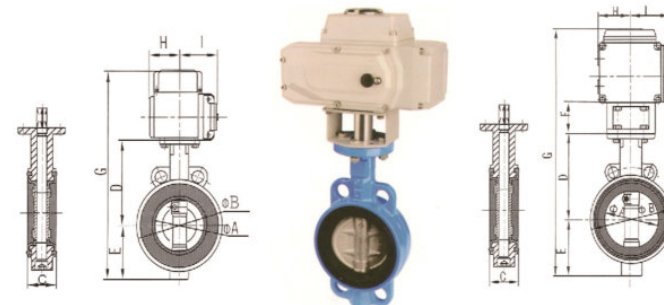


对夹式蝶阀 Wafer butterfly valve

D971X-10/16Q



electric



Dimensions(mm)

Inch	DN	φA	φB	C	D	E	F	G
2	50	50	105	43	116	57	130	269
2-1/2	65	65	125	46	121	70	130/144	287/306
3	80	80	140	46	130	76	144/162	321/343
4	100	100	155	52	150	100	162	387
5	125	125	190	56	162	125	182/211	433/452
6	150	150	216	56	190	140	211/245	495/512
8	200	200	271	60	215	170	245/275	567/584
10	250	250	326	68	250	202	336	669
12	300	300	376	78	300	235	420	784
14	350	325	422	78	350	248	420/462	847/878
16	400	375	483	102	360	270	462/374	910/1017
18	450	425	530	114	400	327	374	1114
20	500	475	582	127	430	355	374	1172
24	600	575	688	154	517	417	374	1321

Note:

1. Dimensions G and F in the table are the cylinder selection dimensions for the pneumatic device when the air source pressure is $\geq 0.4\text{MPa}$, and the DN600 size is the size for the air source pressure $\geq 0.6\text{MPa}$.
2. The upper and lower data with "/" in the above table are PN10/16 respectively.
3. For the complete set of accessories required by the pneumatic actuator, please contact the business department of our company.

Dimensions(mm)

Inch	DN	φA	φB	C	D	E	F	G	H	I
2	50	50	105	43	116	57	-	280	48	61
2-1/2	65	65	125	46	121	70	-	298	48	61
3	80	80	140	46	130	76	-	313	48	61
4	100	100	155	52	150	100	50	428	60	75
5	125	125	190	56	162	125	56/69	465/495	60	75
6	150	150	216	56	190	140	69	538	63	90
8	200	200	271	60	215	170	79	618	85	133
10	250	250	326	68	250	202	79	685	85	133
12	300	300	376	78	300	235	79	768	85	133
14	350	325	422	78	350	248	-	-	-	-
16	400	375	483	102	360	270	-	-	-	-
18	450	425	530	114	400	327	-	-	-	-
20	500	475	582	127	430	355	-	-	-	-
24	600	575	688	154	517	417	-	-	-	-

Note: Please consult the sales department for the standard configuration of electric motors above DN300.

Technical parameters :

Electric operating mechanism model	Torque N.m	Opening and closing time Sec	Power supply Ph,V	Motor Power W	Weight Kg	For PN10 caliber (mm)	For PN16 caliber (mm)	Remark
SRH-003	30	10	1ph220v	85	23	50-80	50-80	Manual
SRH-007	70	12/24	1ph220v	85/63	4	100-125	100-125	Manual
SRH-020	200	12/24	1ph220v	185/143	8	150	150	Manual
SRH-060	600	18/36	1ph220v	255/244	15	200-300	200-250	Manual

Overview:

It is mainly composed of a fully lined valve body, butterfly plate, valve stem, operating mechanism, etc. It has the characteristics of simple structure, good corrosion resistance, light operating torque and high reliability. The valve is widely used in tap water system, industrial water system, sewage treatment, and metallurgy, petrochemical and other industries to cut off and adjust the pipeline medium.

Features:

- ◆Excellent anti-corrosion performance
The inner wall of the valve adopts the overall vulcanization structure of rubber, which completely cuts off the contact between the medium and the metal of the valve body. In addition, the corrosion-resistant disc makes the valve have good anti-corrosion performance;
- ◆Low flow resistance
The butterfly plate adopts a pancake-shaped structure, coupled with a full-bore valve seat, the valve has a very low flow resistance;
- ◆Light operating torque
The rubber valve seat is integrally vulcanized on the valve body, and the valve seat will not have any displacement or dislocation during the valve opening and closing process. When the valve is fully closed, the compression of the valve seat is uniform, and the valve has a low operating torque;
- ◆Reliable connection between disc and shaft
The connection between the butterfly plate and the shaft adopts a special pin structure, the connection is firm and the reliability is high;
- ◆Diversified operation forms
The valve can be equipped with worm gear drive, handle drive, electric, pneumatic and other drive modes to meet customer needs.

Kv value of valve:

DN	Valve opening angle							
	20°	30°	40°	50°	60°	70°	80°	90°
80	19	42	62	98	149	213	274	320
100	36	70	116	174	244	328	442	500
125	61	115	190	285	400	538	725	820
150	72	126	210	342	520	786	1050	1200
200	137	241	364	574	893	1390	1985	2300
250	180	368	612	1005	1503	2182	3012	3600
300	265	520	980	1548	2250	3220	4250	5200
350	302	612	1072	1748	2700	4045	6030	7300
400	392	795	1394	2272	3510	5265	7845	9500
450	490	1010	1750	2865	4445	6650	9910	12000
500	620	1250	2190	3620	5620	8350	12430	14800
600	900	1880	3190	5250	8100	12100	18200	21600
700	1250	2560	4450	7250	11250	16950	25220	30200
800	1700	3400	5970	9600	15220	22600	34250	40200
900	2150	4350	7750	12350	19800	29200	44240	51200
1000	2730	5525	10070	15000	25700	37370	56625	66560

※ The definition of flow coefficient Kv: the flow rate of normal temperature water (T=20°C) flowing through the valve to produce 1BAR pressure loss.
 $Kv = Q / \sqrt{\Delta P / \rho}$ —Fluid flow through the valve body (m³/h); ΔP—Valve produces pressure difference (BAR); ρ—fluid specific gravity (g/cm³)

Technical parameter:

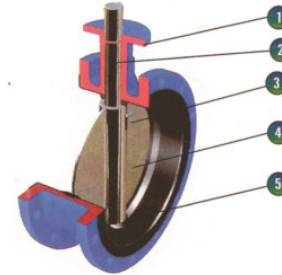
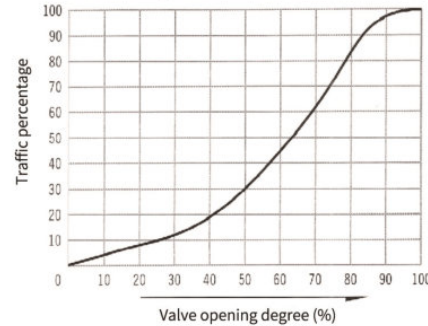
Valve Specifications and Connections

Valve connection form	Valve Nominal Size	Pressure Level	Drive mode
Double flange	DN80~DN1000	PN6、PN10、PN16、CL150	Handle drive Worm gear Electric, Pneumatic

Symbol Standard:

Design standards	GB/T12237
Interplanar spacing	ISO5752 Series 13
Connection with pipe flange	ISO7005、GB9113、ABSIB16.5
Test pressure	ISO5208

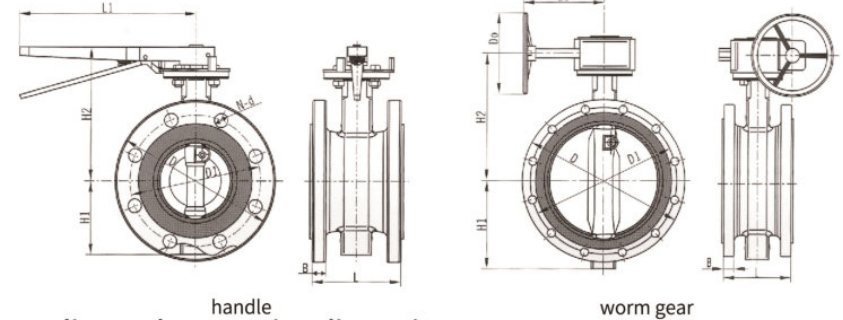
Flow-opening curve:



Structure and material:

Serial number	Name	Material
1	Body	Ductile iron/Cast carbon steel
2	Stem	Stainless steel
3	Pin	Stainless steel
4	Butterfly plate	Stainless ste/Ductile iron spray/ Ductile iron Overall lagging
5	Covered rubber	NR/NBR/EPDM

※Only when the valve is manually operated and the medium is ≤70°C water, the ductile iron sprayed butterfly valve can be used.



Main outline and connection dimensions:

DN	Main outline and connection dimensions																		
	L	D			D1			N-d			B			D0	H1	H2		L1	
		PN10	PN16	Cl150	PN10	PN16	Cl150	PN10	PN16	Cl150	PN10	PN16	Cl150			worm gear	handle	worm gear	handle
80	114	200	200	190	160	160	152.5	8-19	8-19	4-19	19	150	95	170	165	130	268		
100	127	220	220	229	180	180	190.5	8-19	8-19	8-19	19	150	107	190	185	130	268		
125	140	250	250	254	210	210	216	8-19	8-22	8-22	19	150	122	200	195	130	268		
150	140	285	285	279	240	240	241.5	8-23	8-22	8-22	19	220	141	225	225	190	268		
200	152	340	340	343	295	295	398.5	8-23	12-22	8-22	20	300	164	250	265	240	350		
250	165	395	405	406	350	355	362	12-23	12-28	12-25	22	300	198	285		240			
300	178	445	460	483	400	410	432	12-23	12-28	12-25	24	300	227	335		240			
350	190	505	520	533	460	470	476	16-23	16-28	12-29	24	26	26	300	255	400	240		
400	216	565	580	597	515	525	540	16-28	16-31	16-29	24	28	28	220	300	445	335		
450	222	615	640	635	565	585	578	20-28	20-31	16-32	25	28	28	220	310	485	335		
500	229	670	715	699	620	650	635	20-28	20-34	20-32	26	28	28	350	328	535	350		
600	268	780	840	813	725	770	749.5	20-31	20-37	20-35	30	36	36	350	385	620	350		
700	292	895	910		840	840		24-31	24-37		32.5	39		350	410	670	350		
800	318	1015	1025		950	950		24-34	24-40		35	43		350	580	765	438		
900	330	1115	1126		1050	1050		28-34	28-40		37.5	46.5							
1000	410	1230	1255		1160	1170		28-37	28-43		40	50							

List of applicable media:

Valve material composition			Raw water Shimizu	city sewage	Seawater and corrosive media	Frozen water		Hot water			Heavy oil	compressed air
body	Plate	Seat				-29°C ~ 0°C	-10°C ~ 0°C	70°C	80°C	120°C		
Ductile Iron	Ductile iron spray	EPDM	2	3	4	4	2	2	3	4	4	4
Ductile Iron	Ductile iron lagging	EPDM	2	2	1	4	3	2	3	4	4	4
Ductile Iron	Austenitic stainless steel	EPDM	1	2	3	4	1	1	1	4	4	4
Ductile Iron	Duplex stainless steel	EPDM	1	1	1	4	1	1	1	4	4	4
Ductile Iron	Austenitic stainless steel	Silicone Rubber	1	2	3	4	1	1	1	1	4	4
Ductile Iron	Austenitic stainless steel	NBR	1	2	3	4	1	2	4	4	1	4
Cast steel	Ductile iron spray	EPDM	2	3	4	4	2	2	3	4	4	4
Cast steel	Ductile iron lagging	EPDM	2	2	1	4	3	2	3	4	4	4
Cast steel	Austenitic stainless steel	EPDM	1	2	3	1	1	1	1	4	4	4
Cast steel	Duplex stainless steel	EPDM	1	1	1	1	1	1	1	4	4	4
Cast steel	Austenitic stainless steel	Silicone Rubber	1	2	3	1	1	1	1	1	4	4
Cast steel	Austenitic stainless steel	NBR	1	2	3	1	1	2	4	4	1	1

Note: the valve is applicable

1Very applicable 2Applicable 3Limited applicability 4Not applicable

Overview:

The two-way rubber sealing butterfly valve is suitable for manual tap water systems, power plants and industrial pipelines as two-way opening and closing and adjustment equipment, and its adjustment range is between 0° of opening and 90° of full opening. If one-way flow is used, please install it in the direction indicated by the arrow on the valve body. This series of butterfly valves has a double-plate truss flow-through design, and is made of high-strength ductile iron to ensure the strength under the impact of water flow and reduce the loss of water head. The valve body sealing ring adopts a unique design, which is tightly and firmly fixed on the valve body and will not fall off due to the impact of water flow.

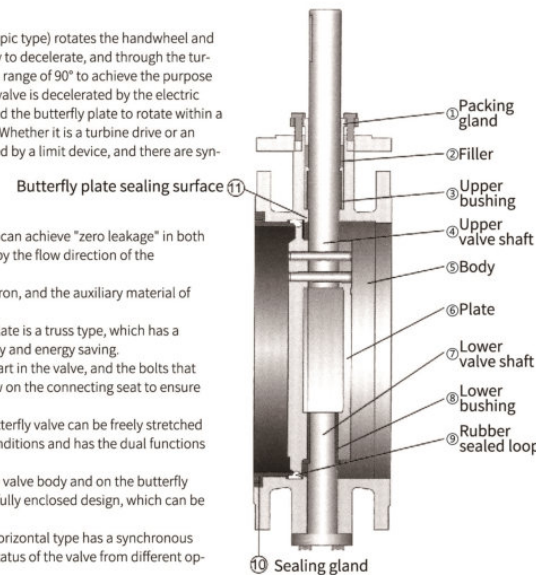
The two-way rubber seal telescopic butterfly valve integrates two products, the butterfly valve and the pipeline reducer, which can not only play the role of truncation or adjustment, but also eliminate the installation stress of the pipeline, and also facilitate the installation and disassembly of the valve.

Principle:

The two-way rubber seal butterfly valve (flange type, telescopic type) rotates the handwheel and passes through the turbine pair and other transmission machinery to decelerate, and through the turbine deceleration, the valve shaft and the disc are rotated within a range of 90° to achieve the purpose of cutting, connecting or adjusting the flow; The electric butterfly valve is decelerated by the electric device through the turbine box or directly drives the valve shaft and the butterfly plate to rotate within a range of 90°, so as to achieve the purpose of opening and closing. Whether it is a turbine drive or an electric drive, the closed and open positions of the valve are limited by a limit device, and there are synchronous disc indications.

Features:

1. It has two-way sealing function, good sealing performance, and can achieve "zero leakage" in both positive and negative directions. The installation is not restricted by the flow direction of the medium.
2. The main material of valve body and butterfly plate are ductile iron, and the auxiliary material of sealing is stainless steel and rubber, which has a long service life.
3. The valve shaft adopts a half shaft structure, and the butterfly plate is a truss type, which has a large flow area, small flow resistance, energy saving, high efficiency and energy saving.
4. There is a connecting seat between the flange and the driving part in the valve, and the bolts that fix the packing gland can be adjusted through the packing window on the connecting seat to ensure the shaft system is sealed.
5. The telescopic part of the telescopic two-way rubber-sealed butterfly valve can be freely stretched or fixed, which can meet the requirements of different working conditions and has the dual functions of a butterfly valve and a telescopic device.
6. There are two types of rubber sealing rings, which are set on the valve body and on the butterfly plate, which can be selected by users.
7. The worm gear drive is a fully enclosed design, which can be used for long-term immersion in water.
8. The pipe network butterfly valve installed in the underground horizontal type has a synchronous display mechanism, which can observe the opening and closing status of the valve from different operating directions.



Main parts of product structure:

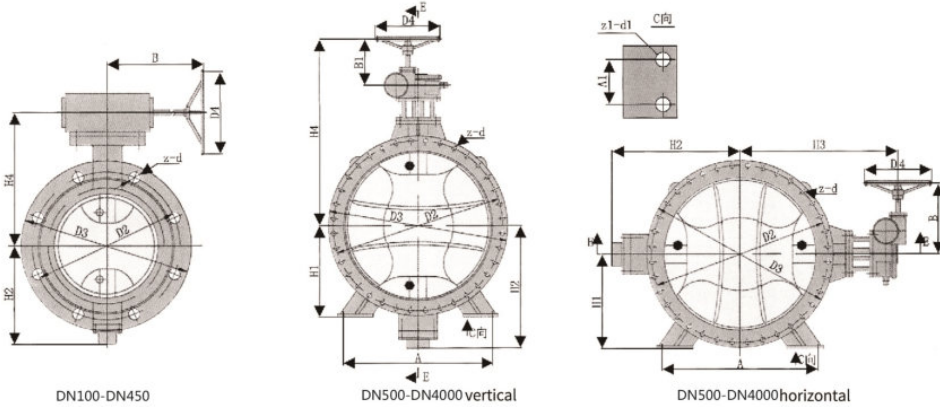
Serial number	Name	Material
1	Packing gland	Ductile Iron
2	Packing	Flexible graphite, T-NBR
3	Upper bushing	Copper alloy
4	Upper valve shaft	Stainless steel
5	Body	Ductile iron, carbon steel, stainless steel
6	Plate	Ductile iron, carbon steel, stainless steel
7	lower valve shaft	Stainless steel
8	Lower bushing	Copper alloy
9	Body seal	NBR
10	Sealing gland	Carbon steel, Stainless steel
11	Butterfly plate sealing surface	Surfacing stainless steel

Technical parameter:

Technical characteristics	Characteristic parameter	
Nominal pressure (MPa)	0.6, 1.0, 1.6	
Applicable temperature (°C)	0 ~ 90	
Test pressure	Shell test (MPa)	1.5*PN
	Positive seal (MPa)	1.1*PN
	Reverse seal (MPa)	1.1*PN
	Low pressure seal (MPa)	0.6
Applicable media	Shimizu, raw water	
Structure length	GB/T12221-2005, 14 series	
Pressure test standard	GB/T 13927-2008	

*Flange standards can be made according to ANSI, JIS, DIN, BS, EN, GB and other standards and relevant customer requirements.

双偏心法兰（伸缩）式蝶阀
Double eccentric flange (telescopic) butterfly valve



双偏心法兰（伸缩）式蝶阀
Double eccentric flange (telescopic) butterfly valve

Appearance and size: PN6/10 size

DN	PN6					PN10				
	D2	D3	Z-d	H3	B	D2	D3	Z-d	H3	B
100	170	210	4-18	204	125	180	220	8-18	230	155
125	200	240	8-18	218	125	210	250	8-18	250	155
150	225	265	8-18	256	155	240	285	8-22	270	155
200	280	320	8-18	293	155	295	340	8-22	325	195
250	335	375	12-18	355	195	350	395	12-22	355	195
300	395	440	12-22	382	195	400	445	12-22	410	235
350	445	490	12-22	440	235	460	505	16-22	445	275
400	495	540	16-22	470	235	515	565	16-26	520	275
450	550	595	16-22	540	275	565	615	20-26	550	275
500	600	645	20-22	565	275	620	670	20-26	580	425
600	705	755	20-26	625	275	725	780	20-30	675	425
700	810	860	24-26	720	425	840	895	24-30	735	514
800	920	975	24-30	790	425	950	1015	24-33	830	514
900	1020	1075	24-30	880	514	1050	1115	28-33	890	590
1000	1120	1175	28-30	940	514	1160	1230	28-36	1005	590
1200	1340	1405	32-33	1101	590	1380	1455	32-39	1125	752
1400	1560	1630	36-36	1247	590	1590	1675	36-42	1335	752
1600	1760	1830	40-36	1455	752	1820	1915	40-48	1470	
1800	1970	2045	44-39	1575	752	2020	2115	44-48	1670	
2000	2180	2265	48-42	1770		2230	2325	48-48	1825	
2200	2390	2475	52-42	1870		2440	2550	52-56	1990	
2400	2600	2685	56-42	2020		2650	2760	56-56	2185	
2600	2810	2905	60-48	2200		2850	2960	60-56	2355	
2800	3020	3115	64-49	2330		3070	3180	64-56	2510	
3000	3220	3315	68-48	2460		3290	3405	68-62	2650	

DN	Structure length			D1	A	A1	Z1-d1	H1	H2	D4
	Flange type	Telescopic	Amount of expansion							
100	127	190	±15	144					130	180
125	140	200	±15	174					145	180
150	140	210	±15	199					165	180
200	152	230	±15	254					200	240
250	165	250	±15	309					220	240
300	178	270	±15	363					250	320
350	190	290	±20	413					285	320
400	216	310	±20	463					315	400
450	222	330	±20	518					340	400
500	229	350	±25	568					367	400
600	267	390	±30	667					435	500
700	292	430	±30	772					490	500
800	318	470	±35	878	760	160	4-23	600	555	600
900	330	510	±35	978	920	160	4-27	630	610	600
1000	410	550	±40	1078	1020	200	4-27	700	665	600
1200	470	630	±40	1295	1100	230	4-27	840	800	600
1400	530	710	±50	1510	1360	260	4-27	980	970	720
1600	600	790	±50	1710	1450	320	4-33	1100	1065	720
1800	670	870	±60	1918	1560	420	4-33	1200	1190	720
2000	760	950	±60	2125	1760	500	4-33	1370	1330	720
2200	800	1000	±60	2335	1900	620	4-33	1460	1400	900
2400	900	1100	±60	2545	2160	620	4-39	1700	1655	900
2600	1000	1200	±60	2750	2400	720	4-46	1810	1730	1200
2800	1100	1300	±70	2960	2600	820	4-46	1960	1910	1200
3000	1200	1400	±75	3160	2800	920	4-46	2100	2050	1200

Butterfly valve flow coefficient and flow resistance coefficient table

DN(mm)	C(m²)	K	DN(mm)	C(m²)	K	DN(mm)	C(m²)	K
80	0.009	0.6	500	0.44	0.4	2000	9.93	0.20
100	0.014	0.6	600	0.63	0.4	2200	12.0	0.20
125	0.022	0.6	700	0.99	0.3	2400	15.5	0.17
150	0.032	0.6	800	1.30	0.3	2600	18.2	0.17
200	0.062	0.5	900	0.64	0.3	2800	23.2	0.14
250	0.98	0.5	1000	2.03	0.3	3000	26.7	0.14
300	0.142	0.5	1200	3.14	0.26			
350	0.192	0.5	1400	4.27	0.26			
400	0.281	0.4	1600	5.93	0.23			
450	0.356	0.4	1800	7.50	0.23			

Note: K-flow resistance coefficient when the valve is fully open $K=2\Delta P/V^2$
C-flow coefficient when the valve is fully open (M²) $C=Q\sqrt{P/\Delta P}$

Overview:

This series of products is a heavy hammer type hydraulic control butterfly valve, which is a new type of control equipment currently used at the pump outlet of the pipeline system of the pump station. It is an ideal pipeline control equipment to reduce the occurrence of water hammer phenomenon and increase the pressure of the pipeline network.

It is mainly installed at the inlet of the turbine of the hydropower station, and can also be installed at the pump outlet of various pumping stations such as water conservancy, electric power, water supply and drainage, etc. It has the function of replacing two valves with one valve. It is small in size, light in weight, small in flow resistance and low in energy consumption. Therefore, the valve can be widely used in municipal, water plants, power plants, metallurgy, irrigation and drainage, petrochemical and other large and medium-sized projects.

Features:

- The valve closes the power source by the free fall of the heavy hammer, and then uses the oil cylinder speed control valve to make the closing damping divided into two stages, the adjustment range is large and the adaptability is strong. The power source of the opening session adopts the hydraulic control system, and then the spring accumulator is used to automatically maintain the pressure without dropping the hammer.
- Butterfly valve body, in addition to all the features and advantages of our company's flanged butterfly valve, the butterfly plate also has a double eccentric, easy to open and close structure, its bearings are self-lubricating bearings, and the surface is filled with solid lubricants to reduce the opening and closing resistance. And it has the advantages of anti-sand, no need to inject oil and so on.
- The electric control part has good function and adopts integrated circuit module control. In addition to the stroke limit signal control, it also has the advantages of good waterproof and anti-collision.
- The hydraulic control part is fully functional, and there is no need to configure an independent stand-alone machine for on-site debugging, and it is equipped with a manual function. When there is no power source, the valve can also be manually opened and closed.

Main parts and materials:

Name	Material
Body	Ductile Iron
Plate	Ductile Iron
Shaft	Stainless steel
Butterfly valve main seal	Rubber, Stainless steel
Wall panel	Carbon steel
Body Seal Seat	Stainless steel

Design standards and specifications:

GB/T5299 "General Valve Hydraulic Control Disc Check Butterfly Valve"
GB12221 "Structural Length of Flanged Metal Valves"

Main technical parameters:

Basic parameters

DN mm	PNMPa	Test pressure (MPa)		Connection Type	Proper temperature	Applicable media
		Case	Seal			
300~2000	0.6~1.6	1.5×PN	1.1×PN	Double flange connection	0~65°C	Water, sediment water, etc.

Special parameters

Nominal size (mm)	300≤DN<900	900≤DN≤2000
Valve opening time (s)	20~60	25~60
Closing time (s) (Note 1)	Fast closing time	2~15
	Slow off time	3~30
	3~60	6~60
Rated pressure of hydraulic system (MPa)	6.3 or 14.0 (Note 2)	14.0
Hydraulic system holding pressure (MPa)	3.5~5.5	5.3~9.5

Note: 1: valve closing time = fast closing time + full closing time. The valve closing angle is adjustable at 70°±8°, and the full close angle is adjustable at 20°±8°. (The butterfly valve is fully open at 0° and fully closed at 90°)

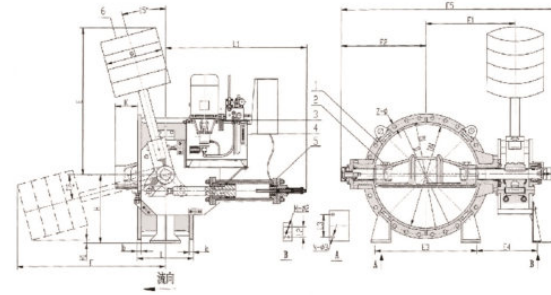
2: The rated pressure of the hydraulic system is determined according to the nominal pressure.

Working principle:

The opening valve is driven by hydraulic pressure, the pump and valve are linked, and the gate can be closed to start. During the valve closing process, the valve is closed first, and most of the water flow is cut off to function as a check valve, and then slowly closed to fully closed to eliminate the hazard of water hammer, the role of buffer and cutoff. In this way, accidents such as a large number of water backflows and high-speed reversal of pumps in the pipeline network are avoided, and the safety of pump units, pipeline networks and pumping stations is ensured. The outlet end of the pump on the pipeline mainly plays the functions of closed circuit, non-return, slow opening, slow closing, closing gate start, regulating flow, etc. The applicable medium is water or oil. The process is as follows:

1. Valve opening: start the motor, drive the oil pump to run, the hydraulic oil passes through the filter, the oil pump, check valve, solenoid valve, to the main oil cylinder, push the piston rod, and drive the rocker arm connected to it, at this time the valve shaft and butterfly plate Turn to open the valve.
2. The valve is closed: cut off the power supply of the solenoid valve (or the power is suddenly cut off in an accident), the solenoid valve will be opened, and the hydraulic oil will pass through the high-pressure ball valve, the solenoid ball valve, and reach the head of the cylinder, and the weight of the power source will fall freely and the piston rod will move in the opposite direction, drive the rocker arm and the valve stem to rotate to realize the closing.
3. Adjust the switch valve: within the range of 0° to 90°, that is, the butterfly plate can be stopped at any position to achieve the purpose of adjusting the size of the water flow.

Outline and installation dimensions:



S/N	Name
1	Body
2	Disc
3	Hydraulic control group
4	Electronic control group
5	Swing cylinder
6	Hammer

Outline and installation dimensions (nominal pressure PN0.6MPa)

DN	D	D1	b	L	L1	L2	L3	E	E1	E2	E3	E4	E5	Z-φ	φ1	M-O2	N-φ3	H	H1	K	KW	Weight Kg
KDCV-0300	440	395	24.5	270	444	38	\	543	319	268	\	\	814	12-φ23	260	2-φ12	\	232	-30	7	1.5	489
KDCV-0350	490	445	24.5	290	605	50	120	691	392	333	350	352	1042	12-φ23	310	2-φ18	2-φ8	314	-10	37	1.5	545
KDCV-0400	540	495	24.5	310	605	50	120	691	395	367	400	330	1079	16-φ23	310	2-φ18	2-φ18	339	20	43	1.5	633
KDCV-0450	595	550	25.5	330	605	50	120	782	455	468	450	365	1240	16-φ23	340	2-φ18	2-φ18	380	18	59	1.5	737
KDCV-0500	645	600	26.5	350	849	66	150	800	470	442	500	372	1249	20-φ23	360	2-φ18	2-φ21	400	30	100	1.5	842
KDCV-0600	755	705	30	390	1063	66	150	1013	618	571	600	490	1450	20-φ26	360	2-φ18	2-φ23	462	30	160	5.5	1086
KDCV-0700	860	810	32.5	430	1063	66	220	1013	626	591	700	448	1587	24-φ26	400	2-φ18	2-φ23	515	30	180	5.5	1465
KDCV-0800	975	920	35	470	1063	66	220	1018	697	682	800	469	1755	24-φ31	400	2-φ18	2-φ23	568	30	190	5.5	1736
KDCV-0900	1075	1020	37.5	510	1063	66	220	1292	760	750	900	505	1886	24-φ31	480	2-φ20	2-φ27	620	30	200	5.5	2203
KDCV-1000	1175	1120	40	550	1383	100	220	1450	873	832	1000	593	2127	28-φ31	560	2-φ20	2-φ27	670	30	218	5.5	3350
KDCV-1200	1405	1340	45	630	1466	100	230	1500	1015	992	1200	635	2429	32-φ34	620	2-φ23	2-φ27	776	35	250	5.5	4055
KDCV-1400	1630	1560	46	710	910	230	230	1500	1144	1124	1400	702	2700	36-φ37	642	2-φ23	2-φ33	851	35	300	5.5	5520
KDCV-1600	1830	1760	49	790	910	230	230	1500	1279	1285	1600	737	2998	40-φ37	642	2-φ27	2-φ33	1030	45	360	7.5	7117
KDCV-1800	2045	1970	52	870	1200	230	240	1650	1380	1385	1800	800	3298	44-φ40	760	2-φ27	2-φ40	1180	50	450	7.5	9580
KDCV-2000	2265	2180	55	950	1200	230	260	1850	1490	1590	2000	890	3398	48-φ43	800	2-φ27	2-φ40	1280	60	520	7.5	12450

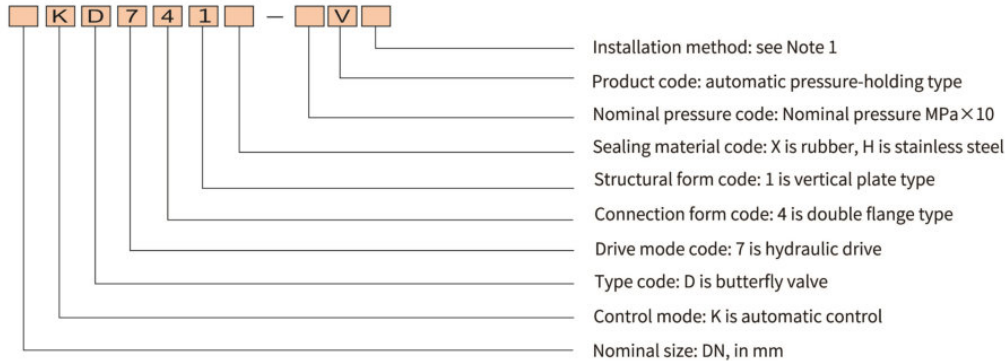
Outline and installation dimensions (nominal pressure PN1.0MPa)

DN	D	D1	b	L	L1	L2	L3	E	E1	E2	E3	E4	E5	Z-φ	φ1	M-O2	N-φ3	H	H1	K	KW	Weight Kg
KDCV-0300	445	400	24.5	270	444	38	\	543	319	268	\	\	814	12-φ23	260	2-φ23	\	232	-30	7	1.5	539
KDCV-0350	505	460	24.5	290	605	50	120	691	392	333	350	352	1042	16-φ23	310	2-φ18	2-φ18	314	-10	37	1.5	595
KDCV-0400	565	515	24.5	310	605	50	120	691	395	367	400	330	1079	16-φ23	310	2-φ18	2-φ18	339	20	43	1.5	683
KDCV-0450	615	565	25.5	330	605	50	120	782	455	468	450	365	1240	20-φ28	340	2-φ18	2-φ18	380	18	59	1.5	787
KDCV-0500	670	620	26.5	350	849	66	150	800	470	442	500	372	1249	20-φ28	360	2-φ18	2-φ21	400	30	100	1.5	892
KDCV-0600	780	725	30	390	1063	66	150	1013	618	571	600	490	1450	24-φ31	400	2-φ18	2-φ23	462	30	160	5.5	1186
KDCV-0700	895	840	32.5	430	1063	66	220	1013	626	591	700	448	1587	24-φ31	400	2-φ18	2-φ23	515	30	180	5.5	1565
KDCV-0800	1015	950	35	470	1063	66	220	1018	697	682	800	469	1755	24-φ34	400	2-φ18	2-φ23	568	30	190	5.5	1836
KDCV-0900	1115	1050	37.5	510	1063	66	220	1292	760	750	900	505	1886	28-φ34	480	2-φ20	2-φ27	620	30	200	5.5	2353
KDCV-1000	1230	1160	40	550	1383	100	220	1450	873	832	1000	593	2127	28-φ37	560	2-φ20	2-φ27	670	30	218	5.5	3505
KDCV-1200	1455	1380	45	630	1466	100	230	1500	1015	992	1200	635	2429	32-φ40	620	2-φ23	2-φ27	776	35	250	5.5	4275
KDCV-1400	1675	1590	46	710	910	230	230	1500	1144	1124	1400	702	2700	36-φ43	642	2-φ23	2-φ33	851	35	300	7.5	5800
KDCV-1600	1915	1820	49	790	910	230	230	1500	1279	1285	1600	737	2998	40-φ49	642	2-φ27	2-φ33	1030	45	360	7.5	7387
KDCV-1800	2115	2020	52	870	1200	230	240	1650	1380	1385	1800	800	3298	44-φ49	760	2-φ27	2-φ40	1180	50	450	7.5	9800
KDCV-2000	2325	2230	55	950	1200	230	260	1850	1490	1590	2000	890	3398	48-φ49	800	2-φ27	2-φ40	1280	60	520	7.5	12700

Note: 1. In addition to the above standard specifications, the design and manufacture of non-standard specifications and the production of other standards can be undertaken according to the actual needs of users.

2. The above dimensions are for reference only. For the specific installation dimensions, please refer to the completion drawing of the company's immediate data.

Product code preparation instructions:



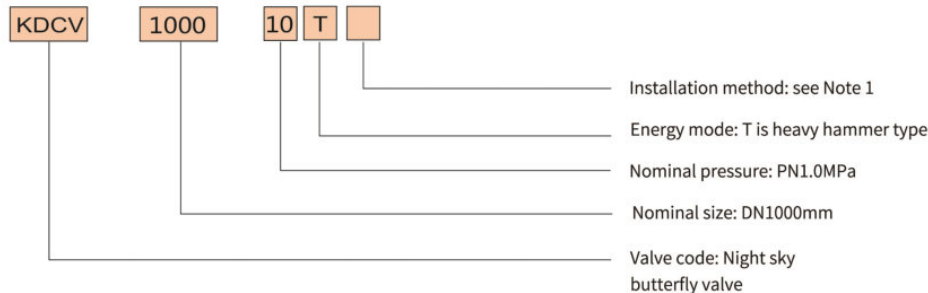
Example:

The nominal size is 1000mm, the nominal pressure is 1.0MPa, and it is opened and closed according to the program. The model of the rubber-sealed night sky butterfly valve is: 1000KD741X-10V.

S/N	Label	Significance
1	Omit	The drive device is located on the left side as viewed in the direction of the water flow, and the rocker arm is inverted to the downstream side in the direction of the water flow.
2	R	The drive unit is located on the right side when viewed in the direction of the water flow, and the rocker arm is inverted to the downstream side in the direction of the water flow.

Note 1: Installation method and description (the direction of water flow refers to the direction of water pumping)

Product code preparation instructions:



PS. The company reserves the right to change samples and products without prior notice.

Overview:

This series of butterfly valves is suitable for cutting off and regulating the flow of medium in power plants, metallurgical petrochemical and industrial pipelines in water systems.

This series of butterfly valve discs are designed in flow form and made of high-strength cast steel, which can ensure the strength under the dynamic impact of water flow and low platinum head loss. The disc and shaft are designed with pin shaft, which can lock the disc firmly.

Features:

- The valve adopts double eccentric structure, which has the function of tighter and tighter, and has reliable sealing performance. After opening, it can ensure that the valve and the sealing surface are completely out of contact, and protect the sealing surface from damage.
- The valve disc adopts a double-plate truss flow-through structure with small flow resistance.
- The valve seat is made of stainless steel, and the valve sealing surface is made of surfacing stainless steel, which is corrosion-resistant and has a long service life.
- The connection between the valve disc and the bearing adopts the patented pin shaft design, which can not only eliminate the gap between the shaft and the valve, but also ensure the reliable connection.
- The valve bearing adopts self-lubricating bronze bearing, which has low friction resistance and high bearing capacity during operation.
- The valve has two-way sealing function and is not restricted by the flow direction of the medium in the pipeline during installation. (If you only need to consider the control of one-way media, the universal installation that is conducive to sealing should be preferred.)
- The length of the valve structure is in accordance with the provisions of the 13 series in GB/T12221-2005

Main parts and materials:

Name	Material
Body	Ductile Iron/Cast Iron
Disc	Carbon cast steel
Shaft	Stainless steel
Withdraw pin	Stainless steel
Seal pair	Stainless steel-Stainless steel

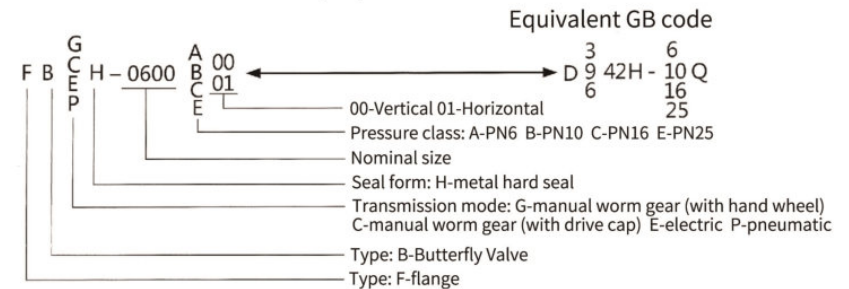
Technical parameter:

Nominal pressure	PN10	PN16	PN25
Maximum working pressure MPa	1.0	1.6	2.5
Sealing test pressure MPa	1.1	1.76	2.75
Strength test pressure MPa	1.5	2.4	3.75
Valve allowable leakage level	Class D as specified in JB/T8527-1997		
Applicable media	Water and liquids with physical and chemical properties similar to water		
Suitable temperature	-25°C ~ 85°C		

Note: 1. The following data refers to the parameters of the standard product;
 2. If the customer has requirements for pressure, temperature, liquid medium and main material different from the standard product, please negotiate with the company's business department.



Product code preparation instructions



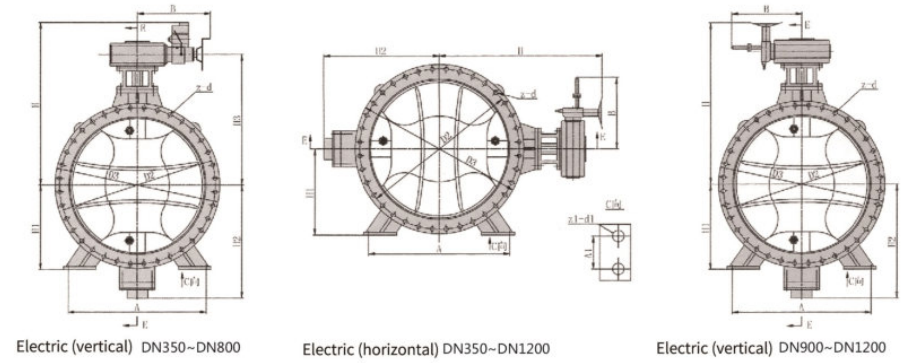
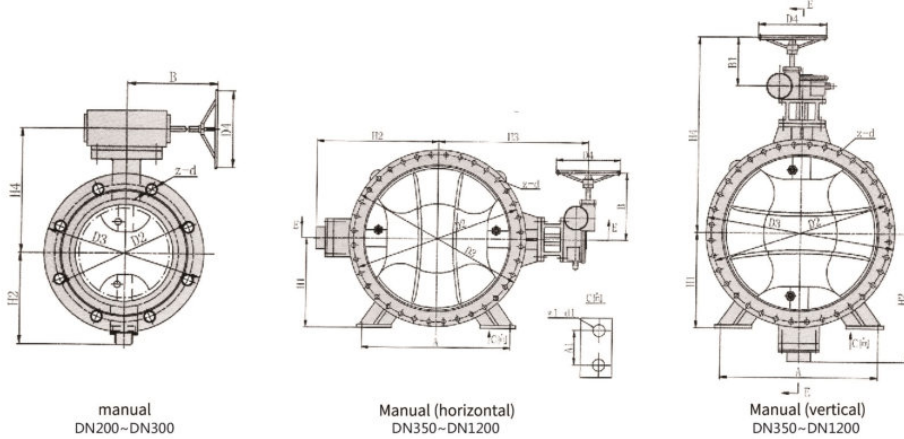
双向金属硬密封法兰蝶阀

Two-way metal hard sealing flange butterfly valve



双向金属硬密封法兰蝶阀

Two-way metal hard sealing flange butterfly valve



Outline and flange connection dimensions (manual):

mm

DN	Pressure Level	length structure L	D2	D3	Z-d	H3	H4	B	B1	D4	A	A1	Z1-d1	H1	H2	
200	PN10	152	295	340	8-23	280	280	240	-	300	-	-	-	-	196	
250		165	350	395	12-23	265	265	240	-	300	-	-	-	-	222	
300		178	400	445	12-23	322	322	240	-	300	-	-	-	-	263	
350		190	460	505	16-23	448	448	340	-	220	-	-	-	-	311	
400		216	515	565	16-28	473	473	340	-	220	-	-	-	-	353	
450		222	565	615	20-28	552	552	340	-	350	-	-	-	-	390	
500		229	620	670	20-28	602	809	357	255	350	500	150	4-21	400	432	
600		267	725	780	20-31	688	895	368	259	350	600	150	4-23	450	524	
700		292	840	895	24-31	750	950	418	270	350	700	220	4-23	500	591	
800		318	950	1015	24-34	821	1021	418	270	350	800	220	4-23	550	682	
900		330	1050	1115	28-34	913	1135	480	300	500	900	220	4-27	600	720	
1000		410	1160	1230	28-37	1057	1280	480	300	500	1000	220	4-27	650	833	
1200		470	1380	1455	32-40	1294	1514	634	335	500	1200	230	4-27	750	992	
1400		530	1590	1675	36-43	1517	1736	650	335	500	1400	230	4-33	850	1116	
1600		600	1820	1915	40-49	1602	2013	840	519	600	1600	230	4-33	1000	1235	
1800		670	2020	2115	44-49	1896	2327	942	545	600	1800	240	4-40	1150	1478	
2000	760	2230	2325	48-49	2049	2420	1024	556	700	2000	260	4-40	1250	1590		
2200	1000	2440	2550	52-56	2216	2585	1078	556	700	2200	280	4-46	1350	1695		
200	PN16	152	295	340	12-23	280	280	240	-	300	-	-	-	-	196	
250		165	355	405	12-28	265	265	240	-	300	-	-	-	-	222	
300		178	410	460	12-28	322	322	240	-	300	-	-	-	-	263	
350		190	470	520	16-28	479	479	340	262	220	-	-	-	-	311	
400		216	525	580	16-31	504	504	340	262	220	-	-	-	-	353	
450		222	585	640	20-31	575	782	340	262	350	-	-	-	-	390	
500		229	650	715	20-34	597	804	357	255	350	500	150	4-21	400	432	
600		267	770	840	20-37	688	895	368	259	350	600	150	4-23	450	514	
700		292	840	910	24-37	750	949	418	270	350	700	220	4-23	500	591	
800		318	950	1025	24-40	821	1021	418	270	350	800	220	4-23	550	682	
900		330	1050	1125	28-40	913	1135	480	300	500	900	220	4-27	600	720	
1000		410	1170	1255	28-43	1171	1391	648	300	500	1000	220	4-27	650	833	
1200		470	1390	1485	32-49	1307	1527	664	335	500	1200	230	4-27	750	992	
200		PN25	152	301	360	12-28	280	280	240	-	300	-	-	-	-	196
250			165	370	425	12-31	265	265	240	-	300	-	-	-	-	222
300			178	430	485	16-31	290	290	240	-	300	-	-	-	-	227
350	190		490	555	16-34	479	479	340	-	220	-	-	-	-	311	
400	216		550	620	16-37	504	504	340	-	220	-	-	-	-	353	
450	222		600	670	20-37	575	782	340	-	350	-	-	-	-	390	
500	229		660	730	20-37	597	804	357	255	350	500	150	4-21	400	432	
600	267		770	845	20-40	688	895	368	259	350	600	150	4-23	450	514	
700	292		876	960	24-43	750	949	418	270	350	700	220	4-23	500	591	
800	318		990	1085	24-49	821	1021	418	270	350	800	220	4-23	550	682	
900	330		1090	1185	28-49	913	1234	480	300	500	900	220	4-27	600	720	
1000	410		1210	1320	28-56	1096	1272	480	300	500	1000	220	4-27	650	833	

Note: The company has the right to modify some dimensions when necessary to improve product quality or make product design more rational.

Outline and flange connection size (electric):

mm

DN	Pressure Level	length structure L	D2	D3	Z-d	H	H1	H2	H3	B	A	A1	Z1-d1
200	PN10	152	295	340	8-23	408	-	196	280	100	-	-	-
250		165	350	395	12-23	445	-	222	265	100	-	-	-
300		178	400	445	12-23	472	-	263	290	100	-	-	-
350		190	460	505	16-23	726	-	311	438	223	-	-	-
400		216	515	565	16-28	843	-	353	473	300	-	-	-
450		222	565	615	20-28	750	-	390	552	543	-	-	-
500		229	620	670	20-28	793	400	432	569	543	500	150	4-21
600		267	725	780	20-31	886	450	524	667	543	600	150	4-23
700		292	840	895	24-31	952	500	591	750	543	700	220	4-23
800		318	950	1015	24-34	1052	550	682	821	608	800	220	4-23
900		330	1050	1115	28-34	1053	600	720	952	685	900	220	4-27
1000		410	1160	1230	28-37	1193	650	833	1096	640	1000	220	4-27
1200		470	1380	1455	32-40	1336	750	992	1282	640	1200	230	4-27
1400		530	1590	1675	36-43	1593	850	1116	1517	818	1400	230	4-33
1600		600	1820	1915	40-49	-	1000	1235	-	-	1600	230	4-33
1800		670	2020	2115	44-49	-	1150	1478	-	-	1800	240	4-40
2000	760	2230	2325	48-49	-	1250	1590	-	-	2000	260	4-40	
2200	1000	2440	2550	52-56	-	1350	1695	-	-	2200	280	4-46	
200	PN16	152	295	340	12-23	408	-	196	280	100	-	-	-
250		165	355	405	12-28	445	-	222	265	100	-	-	-
300		178	410	460	12-28	472	-	227	290	100	-	-	-
350		190	470	520	16-28	682	-	311	438	223	-	-	-
400		216	525	580	16-31	731	-	353	473	300	-	-	-
450		222	585	640	20-31	764	-	390	552	543	-	-	-
500		229	650	715	20-34	806	400	432	569	543	500	150	4-21
600		267	770	840	20-37	917	450	514	667	543	600	150	4-23
700		292	840	910	24-37	1118	500	591	750	543	700	220	4-23
800		318	950	1025	24-40	1189	550	682	821	608	800	220	4-23
900		330	1050	1125	28-40	1257	600	720	952	685	900	220	4-27
1000		410	1170	1255	28-43	1395	650	833	1096	640	1000	220	4-27
1200		470	1390	1485	32-49	1502	750	992	1282	640	1200	230	4-27

Note: The company has the right to modify some dimensions when necessary to improve product quality or make product design more rational.

Overview:

This series of micro-resistance slow-closing butterfly check valve adopts swash plate type large eccentric design and double eccentric structure. At the same time, it is equipped with a graded buffer cylinder, which can realize two-stage closing, that is, 85% fast closing first when closing - 90% (not damped by the oil cylinder), in the slow closing 10%-15% (damped by the oil cylinder), the slow closing time is adjustable, and the best effect of eliminating water hammer can be achieved. Installed on the pump outlet to prevent damaging water when the pump is stopped Hammer generated. Therefore, the valve can be widely used in municipal administration. Water supply and drainage systems in power plants, metallurgy, petrochemical and other industries.

Features:

- ◆Using swash plate type large eccentric design, double eccentric structure, good opening and closing dynamic performance, low opening pressure ($\leq 0.08\text{MPa}$), small flow resistance, small vibration, no heavy hammer, and obvious energy saving effect.
- ◆The design of the slow closing device is novel, the structure is compact and reasonable, and the performance is reliable. The closing time of the valve adopts the fast and slow two-stage type. The slow closing time of the slow closing stage is adjustable in 1 to 10 seconds. The impact of the hammer.
- ◆The valve shaft adopts the inertia type, which is safe and reliable. The rear end of the valve body adopts an axially adjustable valve disc mechanism, which has a good sealing effect and can be adjusted to zero leakage.
- ◆The bearing of the valve shaft adopts self-lubricating bearing, which has low frictional resistance and does not need to be filled with oil.
- ◆The connection between the valve disc and the valve shaft adopts a pull-out pin structure, which is tightly combined with no gap, and the connection of the shaft disc is firmer.
- ◆There are soft and hard sealing structures for users to choose according to different working conditions.

Technical parameter:

Nominal size DN	600 ~ 2000		
Nominal pressure PN(MPa)	0.6	1.0	1.6
	0.7	1.1	1.8
Test pressure	Seal	0.9	1.5
	Case	1.5	2.4
Applicable media	Sewage, water, mud, oil, etc.		
Standard material	Body	Ductile Iron	
	Disc	Ductile Iron	
	Seat	Stainless steel, Copper alloy	
	Shaft	Stainless steel	
Sealing ring	Engineering plastics, Rubber, Stainless steel, Copper alloy		

Product Standards

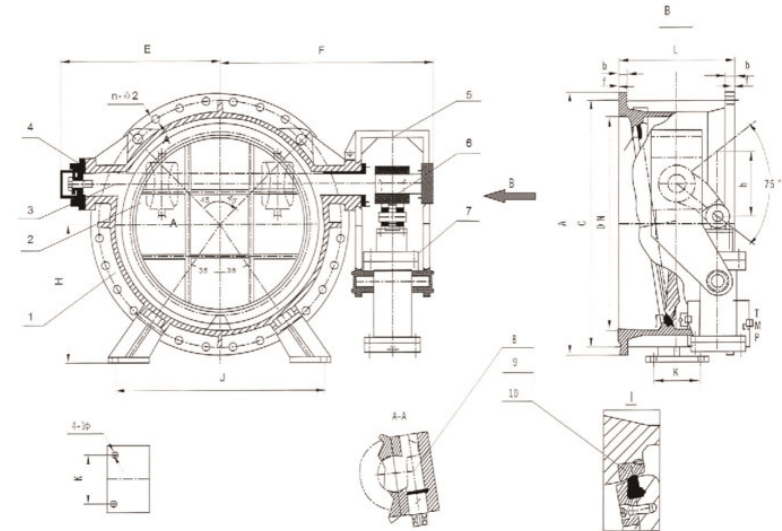
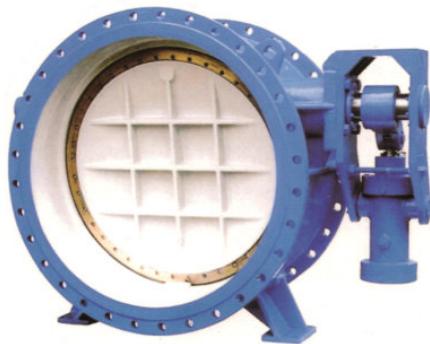
Flange connection standard: conform to GB/T17241.6-2008
 Structure length standard: GB/12221-2005 series
 Test standard: GB/T13927-2008

Working principle:

This type of check valve is mainly composed of valve body, valve disc, rotating shaft, rocker arm, buffer hydraulic cylinder, etc. The valve relies on the pressure of the inlet medium to push the valve disc to open to allow the medium to pass through. When the medium stops flowing (for example, the pump suddenly stops running), the valve disc is automatically closed due to the self-weight of the valve disc and the backflow of the medium. Due to the effect of the buffer device, the valve flap is closed in two stages.

The first stage: from the fully open position to running 85%-90% of the stroke is the fast closing stage. At this stage, the valve disc drives the rocker arm to move clockwise at the same time, and the cylinder piston rod is pressed back into the cylinder body. The stage damping device has little effect, and the valve flap closes at a high speed.

The second stage, from 85%-90% of the stroke to full closing is the slow closing stage. In this stage, the damping device has a great effect. In order to obtain a suitable closing speed, the opening of the one-way throttle valve of the oil circuit can be adjusted by adjusting In order to adjust the damping size of the oil circuit system, so as to eliminate the destructive water hammer and protect the pump, valve and pipeline system.



Main parts and material list:

S/N	Name	Material	S/N	Name	Material
1	Body	QT450-10	6	Rocker arm	ZG230-450
2	Disc	QT450-10	7	Buffer cylinder	Assembly
3	Shaft	20Cr13	8	Withdraw pin	1Cr17Ni2
4	Bearing	ZCuAl10Fe3	9	Disc seal	Polypropylene
5	Cylinder bracket	Q235-A Welding Parts	10	Seat	0Cr19Ni9

Main parts and material list:

DN	A			C			b			f	L	E	F	H	J	K	Φ1	n-Φ2		
	PN6	PN10	PN16	PN6	PN10	PN16	PN6	PN10	PN16									PN6	PN10	PN16
600	-	780	840	-	725	77	-	303	36	5	390	473	620	450	600	150	23	-	20-Φ31	20-Φ37
700	-	895	910	-	840	840	-	32.5	39.5	5	430	538	686	500	700	150	23	-	24-Φ31	24-Φ37
800	-	1015	1025	-	950	850	-	35	43	5	470	615	784	550	800	180	26	-	24-Φ34	24-Φ40
900	-	1115	1125	-	1050	1050	-	37.5	46.5	5	510	692	882	600	900	200	26	-	28-Φ34	28-Φ40
1000	1175	1230	1255	1120	1160	1170	40	40	50	5	550	760	1013	650	1000	220	26	28-Φ31	28-Φ37	28-Φ43
1200	1405	1455	-	1340	1380	-	45	45	-	5	630	902	1150	800	1200	230	26	32-Φ34	32-Φ40	-
1400	1630	1675	-	1560	1590	-	46	46	-	5	710	1081	1432	930	1400	230	33	36-Φ37	36-Φ43	-
1600	1830	1915	-	1760	1820	-	49	49	-	5	790	1220	1548	1020	1600	230	33	40-Φ37	40-Φ43	-
1800	2045	2115	-	1970	2020	-	52	52	-	5	870	1372	1742	1150	1800	270	33	44-Φ40	44-Φ43	-
2000	2265	2325	-	2180	2230	-	55	55	-	5	950	1524	1936	1280	2000	310	40	48-Φ43	48-Φ43	-

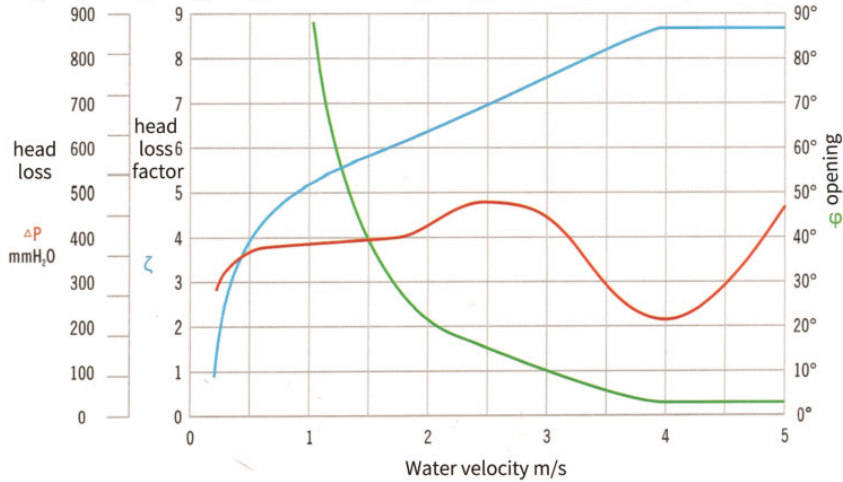
微阻缓闭蝶形止回阀

Micro-resistance slow-closing butterfly check valve



BWCV

Typical micro-resistance slow-closing butterfly check valve opening-flow resistance curve (DN600)



ΔP — ζ — φ

Product model preparation:

BWCV - 600 10P (R)

Sealing ring material code:
P-polypropylene; R-rubber

Nominal pressure: PN1.0MPa
Nominal size: DN600

Micro-resistance slow-closing butterfly check valve

橡胶瓣逆止阀

Rubber flap check valve



HC44X-10/16Q

Overview:

The rubber flap check valve is mainly composed of three main parts: the valve body, the valve cover and the valve flap. Among them, the rubber flap is made of steel plate as the pressure-bearing part and reinforced nylon cloth as the backing, the outer layer is made of thermal vulcanization integral rubber coating technology, and the valve seat adopts the ceramic spraying process to make the valve life longer.

The valve adopts the design of FULL FLOW AREA, which has the characteristics of small head loss, not easy to accumulate debris, and easy maintenance. This valve is mainly suitable for water supply and drainage system.

Due to the small closing stroke, the valve can be fully opened with a stroke angle of only 35°, and the closing speed is fast. It can be installed at the outlet of the water pump. For large diameter (DN≥400), a buffer cylinder device can be selected, of which 85%~90% The trip is a quick close. 10% to 15% of the stroke is slow closing. It can be adjusted during slow closing, and the adjustment range is 1 to 15 seconds to reduce the damage of water hammer to the pump. In addition, the valve can also be installed on the bypass pipe of the water inlet and outlet pipes of the reservoir to assist the backflow of the pool water to the water supply system.

Main Specifications:

Pressure grade: PN10, PN16 (including below DN150)

Seat test pressure: 1.1MPa, 1.8MPa

Maximum working pressure: 1.0, 1.6MPa

Valve body test pressure: 1.5MPa, 2.4MPa

Water test standard: according to GB/T13927-2008

Flange standard: installation GB/T17241.6-2008



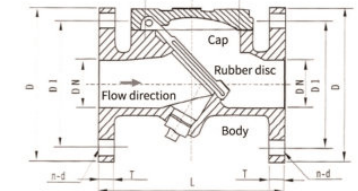
Dimensions:

DN	Product code	L	D	D1	e	n	t	H
50	SFCV-0050-B□□0	203	165	125	19	4	19	-
65	SFCV-0065-B□□0	216	185	145	19	4	19	-
80	SFCV-0080-B□□0	241	200	160	19	8	19	-
100	SFCV-0100-B□□0	292	220	180	19	8	19	-
150	SFCV-0150-B□□0	381	285	240	23	8	19	-
200	SFCV-0200-B□□0	495	340	295	23	8	20	-
250	SFCV-0250-B□□0	622	395	350	23	12	22	-
300	SFCV-0300-B□□0	698	445	400	23	12	24.5	-
350	SFCV-0350-B□□0	787	505	460	23	16	24.5	-
400*	SFCV-0400-B□□1	813	565	515	28	16	24.5	450
450*	SFCV-0450-B□□1	914	615	565	28	20	25.5	450
500*	SFCV-0500-B□□1	1016	670	620	28	20	26.5	475
600*	SFCV-0600-B□□1	1295	780	725	31	20	30	540
700*	SFCV-0700-B□□1	1448	898	840	31	24	32.5	610
800*	SFCV-0800-B□□1	1448	1015	950	34	24	35	610

Note: Specifications marked with * are available with buffer cylinder devices for customers to choose from. If you need special specifications, please contact our company's business department.

Material:

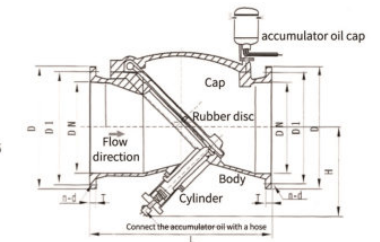
Body	Grey cast iron or ductile iron
Cap	Ductile Iron
Disc	Carbon steel + reinforced nylon + NBR (water medium is NP)
Buffer system	Cylinder + storage battery



Model preparation instructions:

SFCV - 0500 - B □ □

- 0-Ordinary type, 1-With cylinder buffer device (Only applicable to DN400 and above)
- 0-clean water, 1-sewage
- B-nominal pressure PN10 C-nominal pressure PN16 (including below DN150)
- Nominal size
- Rubber flap check valve



Overview:

The silent check valve is mainly composed of main parts such as valve body, valve seat, guiding fluid, valve disc, bearing, and spring. The internal water flow path adopts a streamlined design, and the head loss is extremely small. It is very short and can be quickly closed to prevent huge water hammer and water hammer sound and form a silent effect.

The valve has metal hard seal (KRVZ) and metal-to-rubber soft seal (KRVZA). It is mainly used in fire protection, HVAC, chemical, power plant, metallurgy, petrochemical, water supply and other systems. If it is used for fire protection, it has strict requirements on leakage KRVZA series should be selected for the occasions where the pump is installed, which can be installed at the water outlet of the pump to prevent damage to the pump by backflow and water hammer, and the vertical installation effect is better.

Main Specifications:

Pressure class: PN10, PN16, PN25

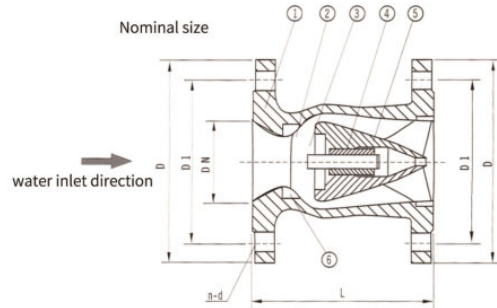
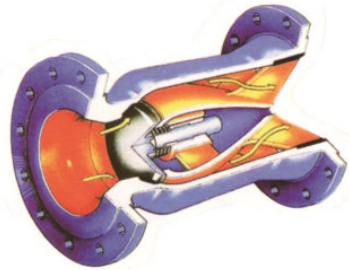
Seat test pressure: 1.1MPa, 1.8MPa, 2.8MPa

Water test standard: according to GB/T13927-2008

Maximum working pressure: 1.0MPa, 1.6MPa, 2.5MPa

Body test pressure: 1.5MPa, 2.4MPa, 3.8MPa

Flange standard: installation GB/T17241-2008



Material:

Numbering	1	2	3	4	5	6
Name	Body	Disc	Spring	Bearing	Conductor	Seat
Material	Grey cast iron; ductile iron (PN25)	Aluminum bronze (hard seal); Aluminum bronze + rubber (soft seal)	Stainless steel	Aluminum bronze	Grey cast iron	Aluminum bronze

Dimensions:

DN	product code	L	D			D1			d			n Number of holes		
			PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25
50	KRVZ(A)-0050	120	165	165	165	125	125	125	18	18	18	4	4	4
65	KRVZ(A)-0065	150	185	185	185	145	145	145	18	18	18	4	4	8
80	KRVZ(A)-0080	180	200	200	200	160	160	160	18	18	18	8	8	8
100	KRVZ(A)-0100	240	220	220	235	180	180	190	18	18	22	8	8	8
125	KRVZ(A)-0125	300	250	250	270	210	210	220	18	18	26	8	8	8
150	KRVZ(A)-0150	350	285	285	300	240	240	250	22	22	26	8	8	8
200	KRVZ(A)-0200	450	340	340	360	295	295	310	22	22	26	8	12	12
250	KRVZ(A)-0250	500	395	405	425	350	355	370	22	26	30	12	12	12

Skills requirement:

- ◆ Design and manufacture should meet the requirements of GB/T21387-2008;
- ◆ The size of flange connection should meet the requirements of GB/T17241.6-2008 standard;
- ◆ Inspection and test shall comply with relevant regulations of GB/T13927-2008.

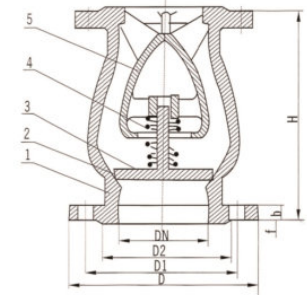
Technical parameter:

Nominal pressure (MPa)	Test pressure (MPa)		Applicable media	Proper temperature °C
	Case	Seal		
1.0	1.5	1.1	Clean water without impurities, wu'shui	≤80°C
1.6	2.4	1.8		
2.5	3.8	2.8		



Main part material:

S/N	Name	Material
01	Body	Ductile Iron
02	Sealing ring	NBR
03	Stem	Stainless steel
04	Spring	Stainless steel wire
05	Disc	Ductile Iron



Size Chart:

DN	D	D1	D2	b	h	n-d			
						1.0MPa	1.6MPa		
							1.0MPa or 1.6MPa	1.0MPa	1.6MPa
50	160	125	99	17	125	4-φ19	4-φ19		
65	180	145	118	17	145	4-φ19	4-φ19		
80	194	160	132	18	180	8-φ19	8-φ19		
100	214	180	156	18	190	8-φ19	8-φ19		
125	245	210	184	19	254	8-φ19	8-φ19		
150	280	240	211	19	267	8-φ23	8-φ23		
200	333	295	266	20	292	8-φ23	12-φ23		
250	403	350	319	22	330	12-φ23	12-φ28		
300	460	400	370	23	356	12-φ23	12-φ28		

Skills requirement:

- ◆Design and manufacture should meet the requirements of GB/T12233-2006;
- ◆The size of flange connection should meet the requirements of GB/T17241.6-2008 standard;
- ◆Inspection and test shall comply with relevant regulations of GB/T13927-2008.

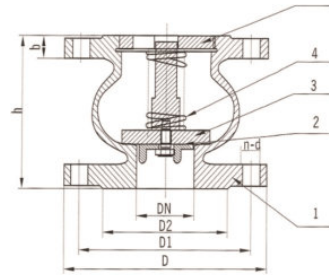


Technical parameter:

Nominal pressure (MPa)	Test pressure (MPa)		Applicable media	Proper temperature °C
	Case	Seal		
1.0	1.5	1.1	Clean water without impurities, wu'shui	≤80°C
1.6	2.4	1.8		
2.5	3.8	2.8		

Main part material:

S/N	Name	Material
01	Body	Ductile Iron
02	Disc	Ductile Iron
03	Spool	Ductile Iron
04	Spring	Stainless steel wire
05	Bonnet Ring	Ductile Iron



Size Chart:

DN	D	D1	D2	b	h	n-d	
						1.0MPa or 1.6MPa	1.0MPa 1.6MPa
50	160	125	99	17	122	4-φ19	4-φ19
65	180	145	118	17	132	4-φ19	4-φ19
80	194	160	132	18	141	8-φ19	8-φ19
100	214	180	156	18	152	8-φ19	8-φ19
125	245	210	184	19	172	8-φ19	8-φ19
150	280	240	211	19	180	8-φ23	8-φ23
200	333	295	266	20	205	8-φ23	12-φ23
250	403	350	319	22	220	12-φ23	12-φ28
300	460	400	370	23	190	12-φ23	12-φ28

Skills requirement:

- ◆Design and manufacture should meet the requirements of GB/T12233-2006;
- ◆The size of flange connection should meet the requirements of GB/T17241.6-2008 standard;
- ◆Inspection and test shall comply with relevant regulations of GB/T13927-2008.

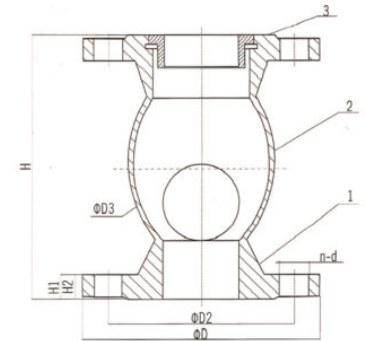


Technical parameter:

Nominal pressure (MPa)	Test pressure (MPa)		Applicable media	Proper temperature °C
	Case	Seal		
1.0	1.5	1.1	Clean water without impurities, wu'shui	≤80°C
1.6	2.4	1.8		

Main part material:

S/N	Name	Quantity	Material
01	Body	1	Cast iron
02	Ball	1	Steel body covered with rubber
03	Cap	1	Cast iron



Size Chart:

DN	φD1	φD2	φD3	n-d	H	H1	H2
50	160	125	62	4-19	178	17	15
65	182	145	75	4-19	190	17	15
80	197	160	90	8-19	203	17.5	15.5
100	217	180	110	8-19	229	17.5	15.5
125	247	210	135	8-19	254	19	17
150	280	240	160	8-23	267	19.5	17.5
200	340	295	210	8-23	330	19.5	17.5

球形止回阀 (卧式) Ball check valve (horizontal)

HQ41X-10/16Q

Skills requirement:

- ◆Design and manufacture should meet the requirements of GB/T12233-2006;
- ◆The size of flange connection should meet the requirements of GB/T17241.6-2008 standard;
- ◆Inspection and test shall comply with relevant regulations of GB/T13927-2008.

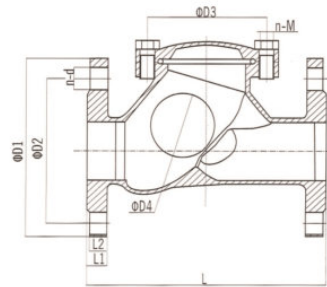
Technical parameter:

Nominal pressure (MPa)	Test pressure (MPa)		Applicable media	Proper temperature °C
	Case	Seal		
1.0	1.5	1.1	Clean water without impurities, wu'shui	≤80°C
1.6	2.4	1.8		



Main part material:

S/N	Name	Quantity	Material
01	Body	1	Cast iron
02	Ball	1	Steel body covered with rubber
03	Cap	1	Cast iron



Size Chart:

DN	ØD1	ØD2	ØD3	n-d	L	L1	L2	n-M	ØD4
50	160	125	101	4-Ø19	203	16.5	14	4-M10	62
65	182	145	116	4-Ø19	216	16.5	14	4-M10	75
80	197	160	128	8-Ø19	243	17.5	15.5	4-M12	90
100	217	180	153	8-Ø19	295	19	16	4-M12	110
125	247	210	178	8-Ø19	333	19	16	6-M12	135
150	280	240	203	8-Ø23	398	19.5	16.5	6-M12	160
200	340	295	257	8-Ø23	497	20	17	6-M12	210

双瓣逆止阀 Double flap check valve

DCV

Overview:

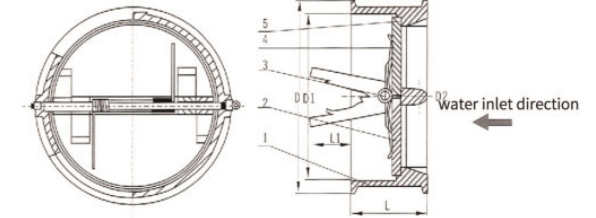
The double disc check valve is mainly composed of important parts such as valve body, valve disc, valve stem and spring, and adopts a thin (WATER TYPE) lightweight design. Because the closing stroke between the discs is shortened and the spring action can accelerate the closing effect, it can reduce the water hammer (WATER HAMMER) and the water hammer (WATER SLAMMING).

The valve is mainly used in water supply systems, high-rise buildings and industrial areas. Because the distance between the surfaces is shorter than that of the general check valve, it is most convenient for places with limited installation space.

Main Specifications:

Pressure class: PN10, PN16
Maximum working pressure: 1.0MPa, 1.6MPa

Seat test pressure: 1.1MPa, 1.8MPa
Valve body test pressure: 1.5MPa, 2.4MPa



Note: If other valves must be installed at the rear end of this valve, the influence of the L1 stroke must be considered to avoid collision with the inner parts of the pipe.

Material:

Numbering	1	2	3	4	5
Name	Body	Disc	Stem	Spring	Seat
Material	Grey cast iron (PN10)	Ductile Iron (PN16)	Steel, Carbon steel	Stainless steel	Stainless steel
					Rubber

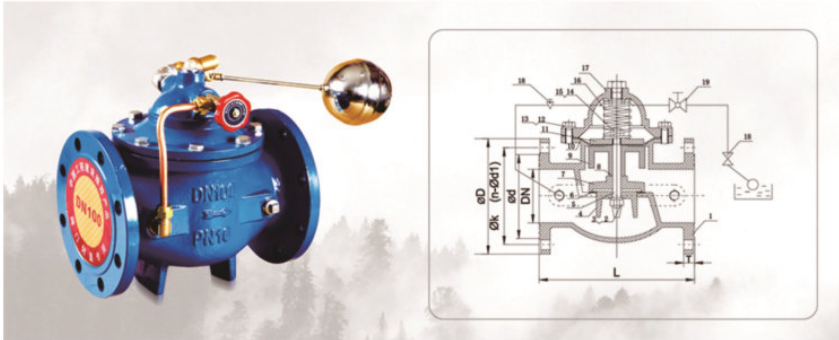
Dimensions:

DN	L	L1	D1	D2	D	
					PN10	PN16
50	54	6	65	48	105	105
65	60	10	78	57	124	124
80	67	10	91	70	137	137
100	67	20	117	91	162.5	162.5
125	83	25	144	113	192.5	192.5
150	95	32	171	135	218	218
200	127	40	222	176	273	273
250	140	59	276	222	328	329
300	181	64	327	270	379	378
350	184	80	377	320	435	437
400	190	106	426	365	482	488
450	222	116	478	407	538	566
500	229	138	527	454	590	617
600	267	169	626	563	685	730
700	292	205	722	660	804	804
800	318	240	822	760	911	911

Structural features

Hydraulic control valve is a valve controlled by water pressure. It consists of a main valve and its attached conduit, pilot valve, needle valve, ball valve and pressure gauge. According to the purpose, function and place of use, it can be evolved into remote control float valve, pressure reducing valve, pressure reducing valve, pressure reducing valve, slow closing check valve, flow control valve, pressure relief valve, hydraulic electric control valve, etc. The hydraulic control valve is divided into two types: diaphragm type and piston type. The working principle is the same. Both the upstream and downstream pressure difference P is the driving force and is controlled by the pilot valve. The hydraulic differential operation of the diaphragm (piston) is completely automatically adjusted by hydraulic power, thereby leaving the main valve disc fully open or fully closed or regulated. When the pressure water entering the control chamber above the diaphragm (piston) is discharged to the atmosphere or the downstream low pressure area, the pressure acting on the bottom of the valve disc and below the diaphragm is greater than the pressure above, so push the main valve disc to fully open. When the pressure water entering the control chamber above the diaphragm (piston) cannot be discharged to the atmosphere or the downstream low pressure area, the pressure acting on the diaphragm (the pressure above the piston is greater than the pressure below, so the main valve disc will be pressed. To the fully closed position, when the pressure value in the control chamber above the diaphragm (piston) is between the inlet pressure and the outlet pressure, the main valve disc is in a state of adjustment. The adjustment position depends on the needle valve in the conduit system and the adjustable guide. The linkage control of the valve. The adjustable pilot valve can open or close its own small valve port through the downstream outlet pressure and with its change, so as to change the pressure controlled above the diaphragm (piston) and control the main valve disc. adjustment position.

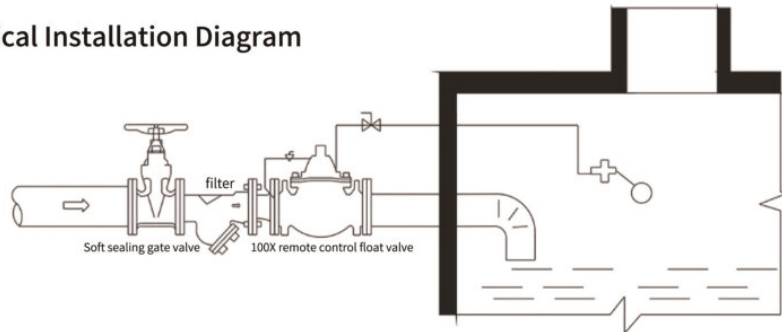
100X-16 Remote control float valve



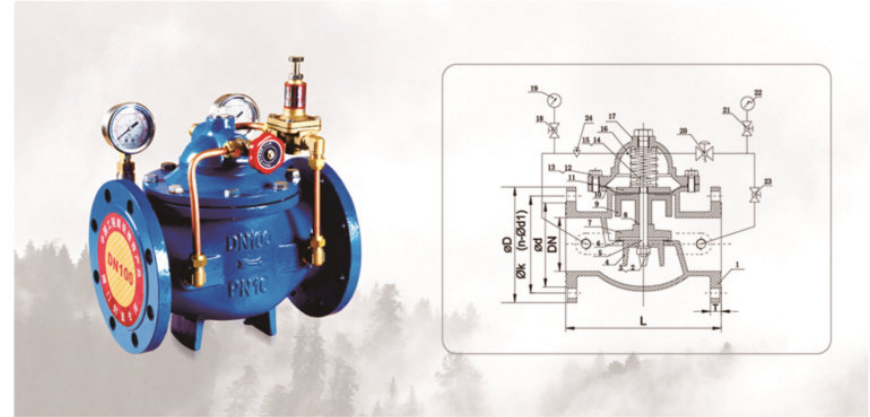
Product Usage

The valve consists of a main valve and an external pilot valve. It uses the floating ball in the water to link the pilot valve due to the change of the liquid level, so that the main valve supplies water and closes, so as to control the water level of the pool (box) and the water tower within a certain range to prevent overflow and the water level is too low. The valve is suitable for the automatic water supply system of various pools (boxes) and water towers in industrial and mining enterprises and civil buildings, and is also used in the circulating water supply system of atmospheric boilers. The main valve opens quickly and closes slowly, no water hammer occurs, and the sealing is tight, so there is no danger of flooding.

Typical Installation Diagram



200X-16 pressure reducing valve



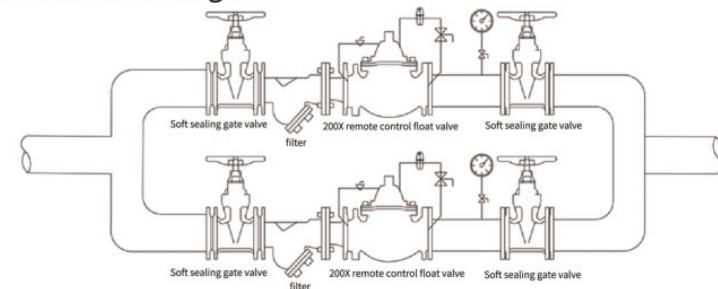
Product Usage

This product is designed for high-rise and super-high-rise buildings. It is an ideal product for high-rise building domestic water and fire-fighting water systems with large requirements and high sensitivity. Its performance is more superior, completely replacing intermediate water tanks, saving the cost of building intermediate water tanks Expand the usable area of the building.

Installation requirements

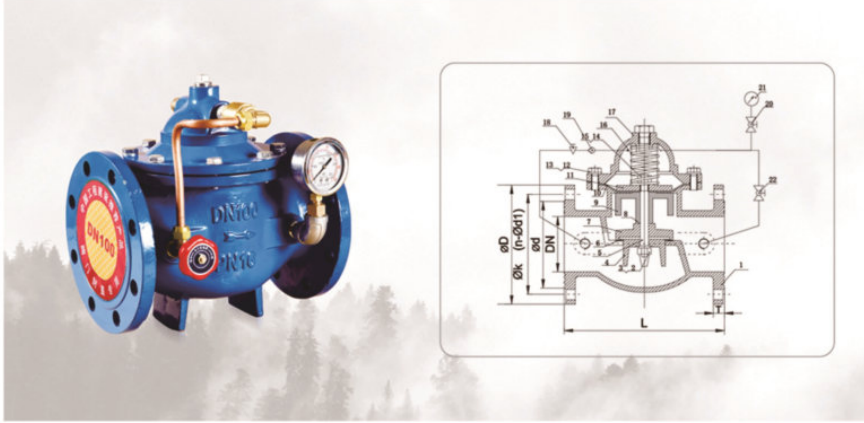
1. For installation, please refer to the installation requirements of Y series adjustable pressure reducing valve and the following requirements:
2. It is recommended to install an exhaust valve in the pipe network system so that the pressure reducing valve can work stably.
3. Pay attention to the direction marked by the arrow on the valve body during installation. To facilitate maintenance, a certain space should be reserved around the pressure reducing valve.
4. The inlet and outlet pressure should not be less than 0.2MPa, and the stability performance will be worse if it is less than 0.2MPa (the error of the outlet pressure will increase).

Typical Installation Diagram



One backup and one use, only one group can be used, and the water cannot be used at the same time

300X-16 Slow closing check valve



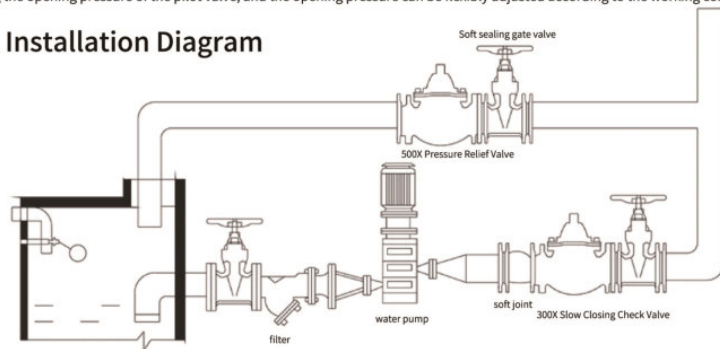
Product Usage

The slow-opening and slow-closing multi-function check valve produced by our company is mainly used to install on the water pump outlet pipeline of high-rise building water supply system and other water supply systems to prevent the backflow of the medium and prevent the occurrence of water hammer and water hammer. With three functions of electric valve, reverse valve and water hammer eliminator, it can effectively improve the safety and reliability of the water system.

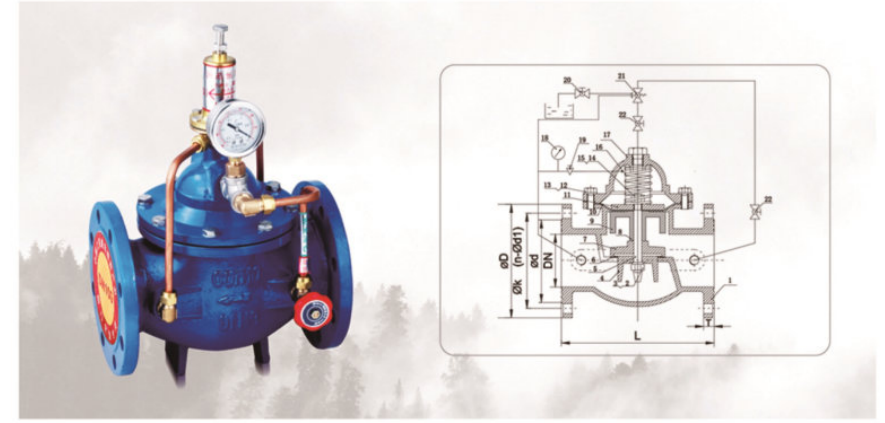
Features

1. The effect of eliminating water hammer is good. Integrate the technical principles of slow opening and slow closing to eliminate water hammer to prevent the occurrence of water hammer when the pump is turned on.
2. Easy to operate. Only need to operate the open and close button of the pump motor, the valve will automatically open and close according to the operation rules of the pump.
3. Good energy saving effect. The valve adopts a wide valve body, an all-pass reverse flow line type DC design, with small pressure loss, large flow rate, small size and light weight.
4. The opening pressure is adjustable. Since the valve is equipped with a pilot valve control system, the opening pressure of the main valve can be set only by adjusting the opening pressure of the pilot valve, and the opening pressure can be flexibly adjusted according to the working conditions.

Typical Installation Diagram



500X-16 Safety relief valve/pressure sustaining valve



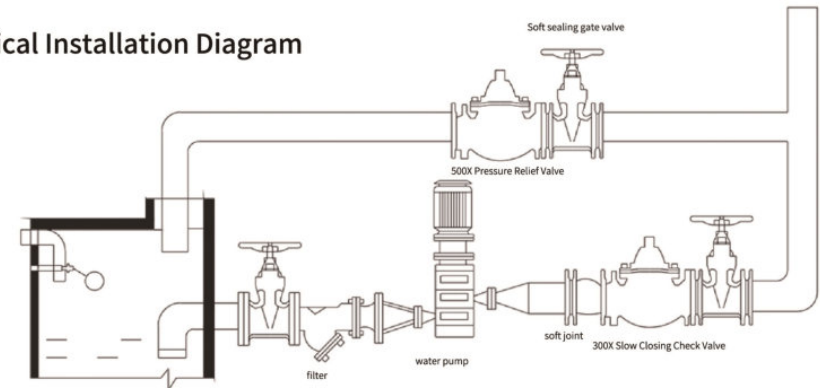
Product Usage

The valve consists of a main valve and an external control pilot valve. It is mainly installed in the bypass of the protected water supply system of the building to ensure the pressure of the water supply area upstream of the main valve. When the pressure in the water supply pipe exceeds the set pressure of the pressure relief valve, the pressure relief valve will be opened to prevent the pipeline and equipment from being damaged due to overpressure. This valve is mainly used for pressure relief of high-rise building fire test circulation system, and is an upgraded product of spring-type safety valve.

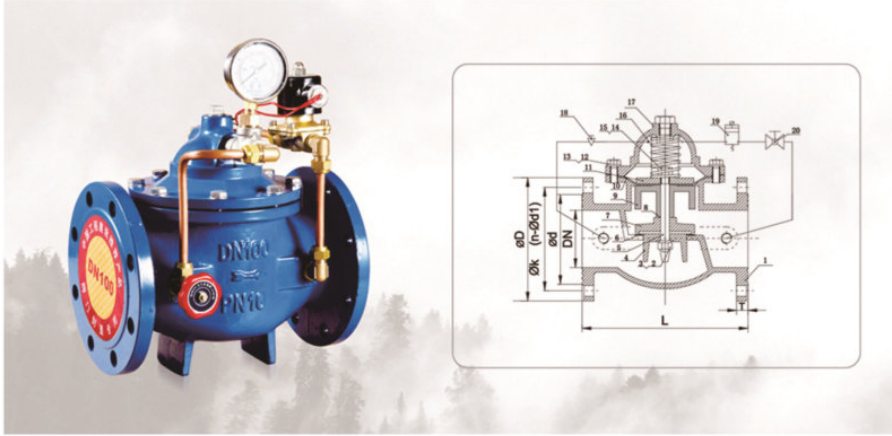
Installation requirements

1. A filter must be installed before the pressure relief/extra pressure valve.
2. When adjusting, the screw on the pilot valve should be withdrawn, start the water pump to let the water discharge from the pressure relief valve, and gradually screw it into the adjusting screw to gradually increase the pressure until the pressure to be set is reached. Tighten the lock nut after setting.

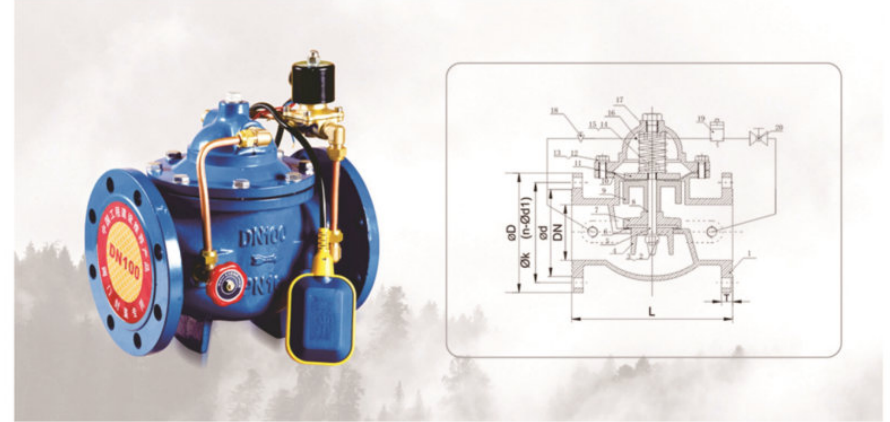
Typical Installation Diagram



600X-16 Hydraulic Electric Remote Control Float Valve



106X-16 Hydraulic Electric Remote Control Float Valve



Product Usage

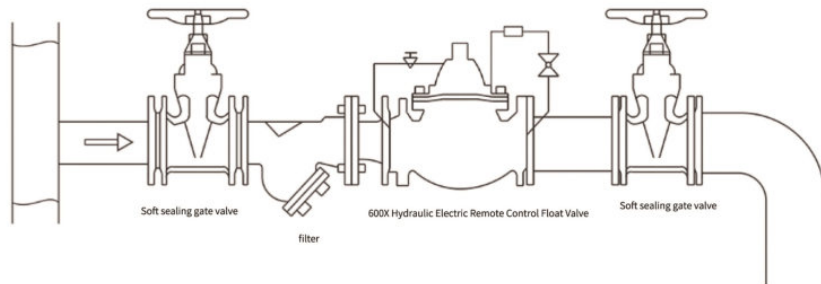
In devices and pipelines, it is used to cut off and open.

Features

It can be used as a remote control opening or closing function, and a speed control device can be installed at the same time. It can be used to open and close gate valves or butterfly valves, and can be used for large electric operating machines with simple maintenance.



Typical Installation Diagram



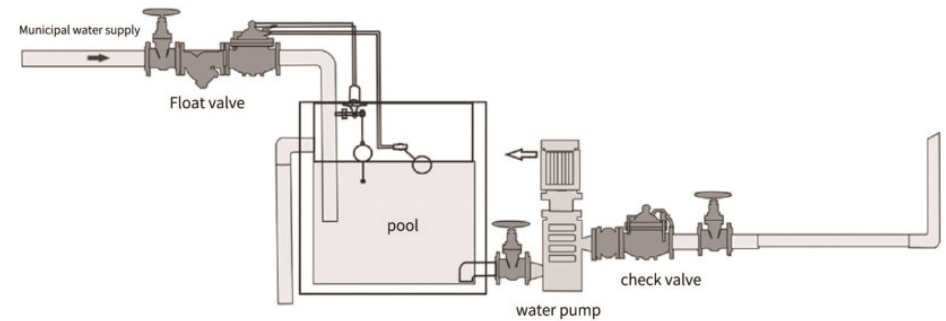
Product Usage

The valve is used for automatic water supply systems of water tanks, pools and water towers in working conditions, enterprises and high-rise buildings, or as a circulating water supply valve for atmospheric boilers, which can control the liquid level of water towers or pools.

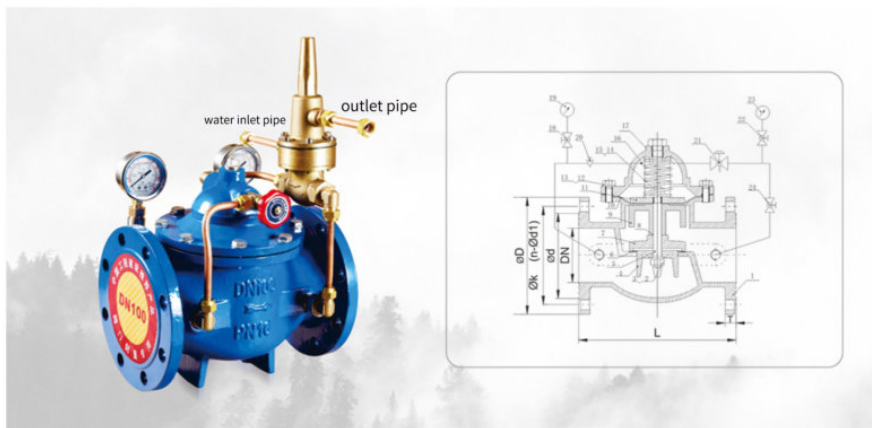
Features

When the water level reaches the preset water level, the valve automatically closes when the water level drops, and the valve automatically opens to replenish water. The maintenance is simple, flexible and durable, the liquid level control accuracy is high, the water level is not disturbed by the water pressure, and the closed tight and leak-proof float ball can be installed separately from the main valve.

Typical Installation Diagram



800X-16 Differential pressure bypass balance valve



Product Usage

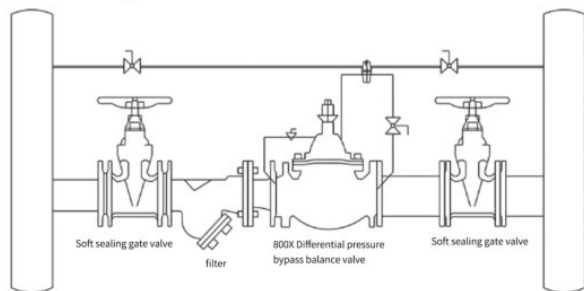
The valve consists of a main valve and an external control pilot valve. It is mainly installed in the bypass of the protected water supply system of the building to ensure the pressure of the water supply area upstream of the main valve. When the pressure in the water supply pipe exceeds the set pressure of the pressure relief valve, the pressure relief valve will be opened to prevent the pipeline and equipment from being damaged due to overpressure. This valve is mainly used for pressure relief of high-rise building fire test circulation system, and is an upgraded product of spring-loaded safety valve.

Features

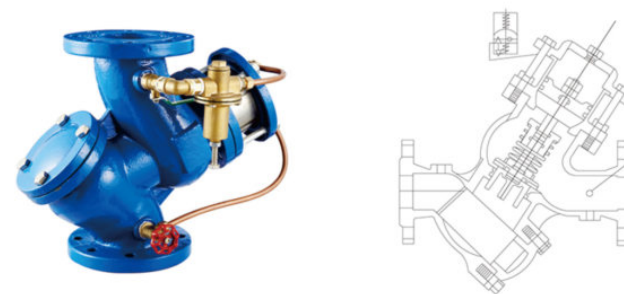
1. The valve is easy to adjust and operate, with a large adjustment range, 0.2-1.6MPa
2. Excellent performance, the set pressure difference does not change due to changes in upstream pressure and downstream flow
3. Relying on its own pressure, no other actuators are required
4. Membrane isolation, reliable and no wearing parts, long service life
5. Small size and can be installed at any angle



Typical Installation Diagram



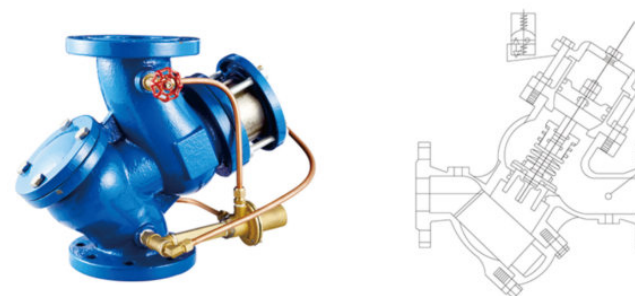
CB98001 filter piston type adjustable pressure reducing valve



When the valve is used as a pressure relief valve, it can release the pressure in the water supply pipeline that exceeds the set value of the pilot valve, and maintain the pipeline pressure below a safe set value to prevent high pressure or sudden pressure damage in the pipeline. Pipeline equipment, which can be used for pressure relief in the fire test circulation system of high-rise buildings and other water supply balance systems. This valve can maintain the upstream water supply pressure of the main valve above a certain set value to ensure the upstream water supply area of the main valve. pressure. Mainly used in urban low-pressure water supply areas.

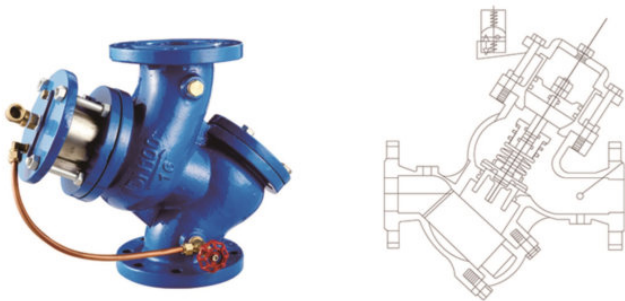
Pressure level: PN10 (adjustment range 0.3-0.9MPa) PN16 (adjustment range 0.5-1.4MPa)
PN25 (adjustment range 0.5-2.4MPa)
Specifications: DN40-DN200

CB98002 Filter Piston Safety Relief/Pressure Sustaining Valve



This valve uses the water pressure in the pipeline to automatically operate the up and down movement of the main valve disc, control the opening of the valve, and adjust the downstream pressure to maintain it at the set value of the pilot valve spring. When the downstream pressure exceeds the set value, it will reduce The pressure valve will automatically close, and the stable pressure can be output no matter how the inlet pressure fluctuates. No matter how the downstream flow is changed, a stable set value can be maintained. At the same time, the outlet pressure adjusted by the pilot valve has a large adjustment range, which can reach 10-80% of the pre-valve pressure. Generally used in domestic water supply, fire protection and industrial water supply systems. Pressure level: PN10 (adjustment range 0.1-0.8MPa) PN16 (adjustment range 0.2-1.4MPa) PN25 (adjustment range 0.3-2.0MPa) Specifications: DN40-DN200

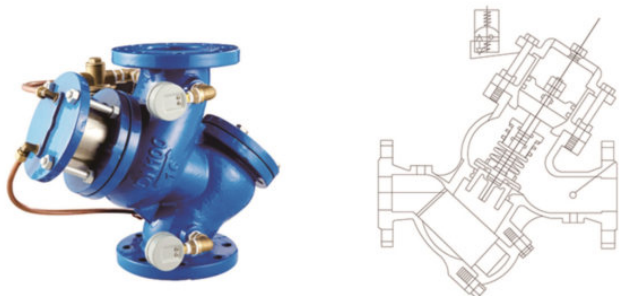
CB98003 Filter Piston Remote Control Float Valve



This valve is mainly installed on the water pump outlet pipeline of water intake, water supply, pressurization, diving, sewage and other pumping stations, and also functions as a check valve, stop valve, regulating valve, filter and water hammer eliminator. The valve also has the function of a check valve for adjusting the opening and closing speed. The optimal opening and closing speed can be adjusted according to the specific working conditions and on-site, which can prevent the occurrence of water hammer and water hammer and achieve the effect of noise reduction.

Pressure rating: PN 10 PN 16 PN 25
Specifications: DN 40~DN 200

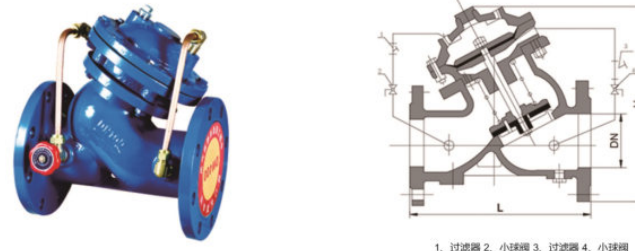
CB98004 Filter Piston Slow Closing Check Valve



This valve is mainly used in the automatic water supply system of water tanks, pools and water towers in high-rise buildings and industrial and mining enterprises. It can control the liquid level of the water tank or pool. When the water level of the pool reaches the predetermined water level, the valve will automatically close; when the water level drops, the valve will automatically open to replenish water. The valve adopts soft and hard double valve plate sealing, and uses the hydraulic control principle, so that the closing force of the valve plate is proportional to the water inlet pressure, and the sealing reliability is high.

Pressure class: PN10, PN16, PN25
Specifications: DN40~DN200

JD745X-10/16 Multifunctional water pump control valve



1. 过滤器 2. 小球阀 3. 过滤器 4. 小球阀

Product Usage

Installed on the water pump outlet pipes of high-rise building water supply systems and other water supply systems to prevent backflow of media. Prevent water hammer and water hammer phenomenon. One valve has three functions: electric valve, check valve and water hammer eliminator, which can effectively improve the safety and reliability of the water supply system.

Features

1. The effect of eliminating water hammer is good. The technical principles of slow opening, quick closing and slow closing to eliminate water hammer are integrated to prevent the occurrence of water hammer when the pump is opened and when the pump is stopped. 2. Easy to operate, only need to operate the opening and closing button of the pump motor, and the valve will automatically open and close according to the operation rules of the pump. 3. Good energy-saving effect, the valve body adopts a full-channel streamlined DC design, with small pressure loss and large flow. And small size and light weight.

F745X-10/16 Double-chamber diaphragm type remote control float valve



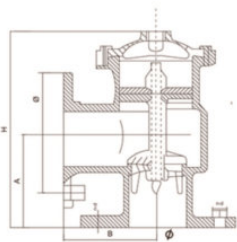
Product Usage

It is installed in the water inlet pipeline of the pool and water tower. When the water level of the pool reaches the predetermined water level, the valve automatically closes; when the water level drops, the valve automatically opens to replenish water.

Features

1. The closure is tight and reliable. It adopts firm O-ring seal and uses hydraulic control principle, so that the closing force of the sliding plate is proportional to the water inlet pressure, and the sealing reliability is high. 2. The flow is large. The valve body adopts a full-channel streamline design, with small fluid nozzle force and large flow rate. 3. Safe operation. Using hydraulic operation, the liquid level of the water tower or pool can be automatically controlled, and the liquid level control accuracy is high. 4. Easy to use and maintain. The main valve is installed outside the pool, which is convenient for debugging and inspection and simple maintenance.

H42X Hydraulic Water Level Control Valve



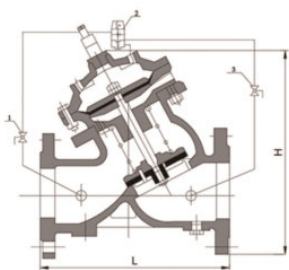
Product Usage

H142X type hydraulic water level control valve series is suitable for the automatic water supply system of various pools and water towers in industrial and mining enterprises and civil buildings, and can be used for circulating water supply control of atmospheric pressure boilers.

Features

Using hydraulic principle control, the structure is novel and reasonable, the work is stable and reliable. Within the specified operating pressure range, no water hammer impact can be guaranteed. Light reset, small size, easy installation and maintenance.

AX742X-10/16 Safety Relief/Pressure Sustaining Valve



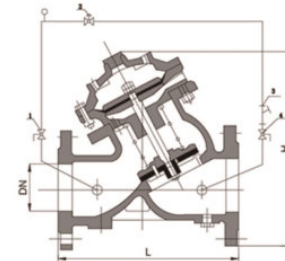
Product Usage

It is installed on the pipelines of high-rise buildings, fire water supply systems and other water supply systems. When the pressure in the water supply pipeline exceeds the set pressure of the pressure relief valve, the pressure relief valve will automatically open and quickly release the pressure to protect the safety of the pipeline. It is used for the valve to ensure the water supply pressure upstream of the main valve.

Features

1. It can accurately maintain the constant safety set pressure. Once the pressure is exceeded, the pressure relief valve will be opened quickly and the pressure will be released in time.
2. The closing is stable and reliable, eliminating pressure aftermath.

YX741X-10/16 Adjustable pressure reducing and regulating valve



1. 小球阀 2. 导阀 3. 过滤器 4. 小球阀

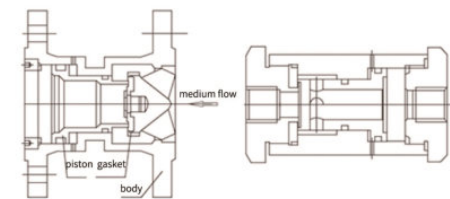
Product Usage

Installed on the pipelines of high-rise building water supply systems and other water supply systems to reduce the higher upstream pressure to the downstream pressure that meets the requirements.

Features

1. The decompression effect is reliable. The outlet pressure is not affected by the change of inlet pressure and flow, which can reduce both dynamic pressure and static pressure.
2. It is easy to debug and operate, just adjust the adjusting screw of the pilot valve to obtain accurate and stable outlet pressure.
3. Good energy saving effect. The valve body adopts a full-channel streamlined DC design, with small pressure loss, high flow rate, small size and light weight.

Y43X/Y13X ratio is a pressure reducing valve



Y43X flange connection

Y43X flange connection

Product Usage

This series of valves can be widely used in pipeline systems that require decompression, such as production and domestic water supply, fire water supply, and high-rise building water supply.

Features

Small size, simple structure, reliable action; can reduce both dynamic pressure and static pressure; accurate pressure reduction ratio.

Technical parameter

Nominal pressure: PN 16
Nominal diameter: DN15~200mm
Decompression ratio: 4:1, 3:1, 2:1 or according to user requirements
Applicable temperature: ≤80°C
Applicable medium: water
Flange size implementation standard: GB17241.6
Connection method: flange/internal thread

Overview:

This series of composite exhaust valve is suitable for installation in the pump water outlet or water distribution pipeline. It is used to remove a large amount of accumulated air in the pipeline, or to release the salty air accumulated in the pipeline to the third grade, so as to improve the efficiency of the pipeline and the water pump. Once negative pressure is generated in the pipe, the valve will quickly suck the outside world. Air to protect the pipeline from banging phenomenon caused by negative pressure.

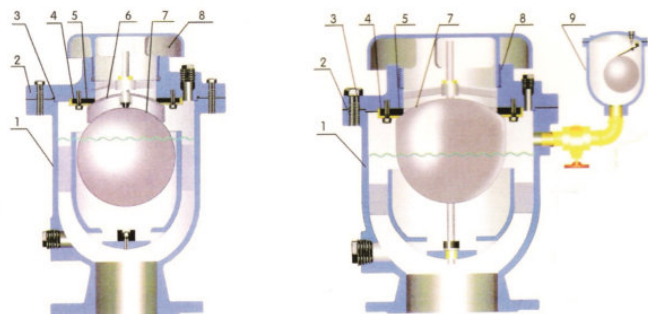
Principle of Operation:

When the water starts to be injected into the pipe, the plug stays in the open position, and a large amount of exhaust is carried out. When the air is exhausted, the water accumulates in the valve, the float ball is floated, the piston is in the closed position, and a large amount of exhaust is stopped. When the water in the pipe is transported normally, a small amount of air accumulates in the valve to a considerable extent, the water level in the valve drops, and the floating ball drops accordingly. At this time, the air is discharged from the small hole, or discharged from the small hole of the automatic exhaust valve. When the pump stops, when the water in the pipe is empty or when a negative pressure is generated in the pipe, the piston opens quickly and air is sucked in to ensure the safety of the pipeline.

Technical parameter

Air closing pressure MPa	≥0.07
Water closing pressure MPa	002~PN
Body test pressure MPa	1.5 / 2.4 / 3.8
Sealing test pressure MPa	1.1 / 1.8 / 2.8
Pressure Test Standard	GB/13927-2008

Composite exhaust valve composition

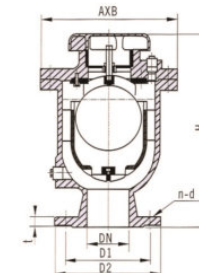


Main parts name and material:

S/N	Name	Material
1	Body	Ductile Iron
2	Cap	Ductile Iron
3	O-ring	NBR
4	Piston Rack	Aluminum bronze
5	Seal ring	NBR
6	Piston	Stainless steel
7	Float	Stainless steel
8	Exhaust hood	Ductile Iron
9	Auto exhaust valve	Components

CARX series composite exhaust valve (for clean water)

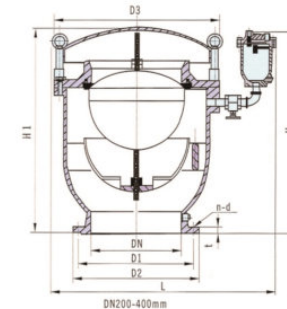
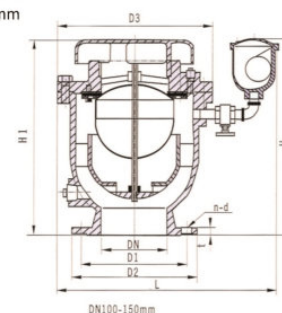
Pressure class: PN1.0/1.6MPa
Nominal size: DN25~80mm
(DN25 is threaded, the rest are flanged)



Dimensions:

DN	Product code	PN(MPa)	D1	D2	t	n-d	H	AxB
25	CARX-0025	1.0	ZG1"	/	/	/	260	145x145
		1.6	ZG1"	/	/	/		
50	CARX-0050	1.0	125	165	19	4-φ19	320	162x162
		1.6	125	165	19	4-φ19		
80	CARX-0080	1.0	160	200	19	8-φ19	365	198x198
		1.6	160	200	19	8-φ19		

Pressure class: PN1.0/1.6MPa
Nominal size: DN100~400mm



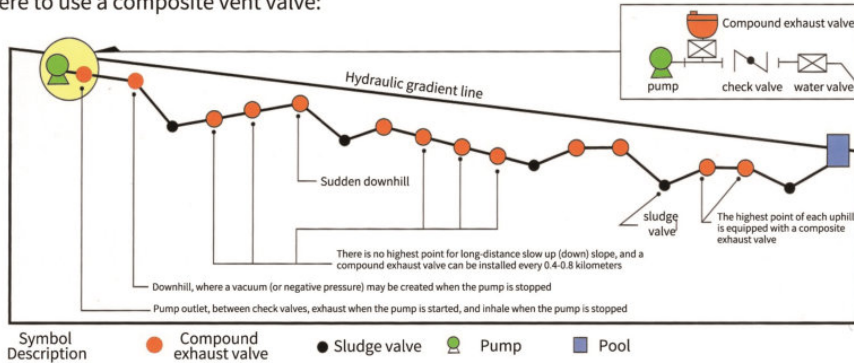
Dimensions:

DN	Product code	PN(MPa)	D1	D2	t	n-d	H	H1	L	D3
100	CARX-0100	1.0	180	220	19	8-φ19	412.7	398	425	φ280
		1.6	180	220	19	8-φ19				
150	CARX-0150	1.0	240	285	19	8-φ23	446.5	444.5	505	φ356
		1.6	240	285	19	8-φ23				
200	CARX-0200	1.0	295	340	20	8-φ23	563	546	581	φ446
		1.6	295	340	20	12-φ23				
250	CARX-0250	1.0	350	395	22	12-φ23	755	685	800	φ500
		1.6	355	405	22	12-φ28				
300	CARX-0300	1.0	400	445	24.5	12-φ23	870	790	905	φ605
		1.6	410	460	24.5	12-φ28				
400	CARX-0400	1.0	515	565	24.5	16-φ28	893	935	991	φ740
		1.6	525	580	28	16-φ31				

Note: The company can produce PN2.5MPa above specifications valve.

Selection of installation location for CARX series composite exhaust valve

Where to use a composite vent valve:



How to choose the diameter of the composite exhaust valve:

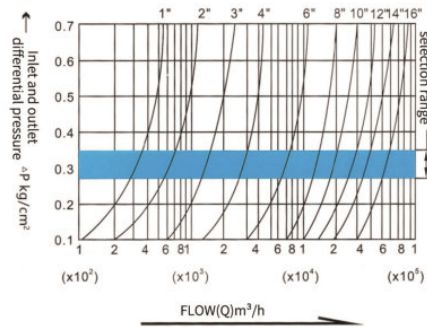
- At several higher points in the pipeline, calculate the other maximum exhaust or intake volumes. Calculated by gravity flow: $Q=0.0027\sqrt{SD^3}$ $S=tg\alpha$ (a pipe and horizontal inclination) D -----pipe diameter (mm) Q -----Exhaust or suction volume m³/h

How to take into account the maximum displacement:

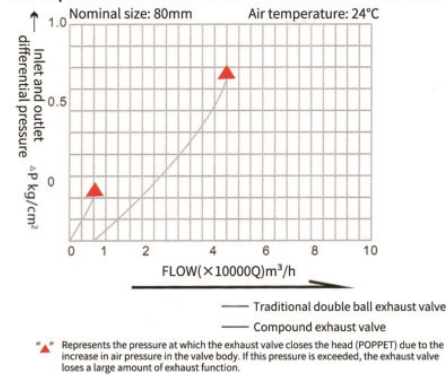
- When the air pressure difference between the inlet and outlet of the general composite exhaust valve reaches 4psi (ie 0.28kg/cm²), the air in the pipe can be exhausted before the piston is closed. The calculated value of the above formula and 4psi are used as reference points to check the performance. Curve chart. Appropriate exhaust valve size is available.
 - Generally, when the negative pressure in the pipe is generated and exceeds 5psi (ie 0.35kg/cm²), it is possible to break the pipe. Using the calculated value of the above formula and 5psi as the reference point, check the performance curve chart to obtain the appropriate exhaust valve diameter. Compare the two points A and B, and choose the larger diameter, which is the required diameter of the exhaust valve.
- If the pipeline rupture caused by the generation of negative pressure is not considered, or the water velocity in the pipeline is between 1.2 and 2.4m/s, the following table can be used to select the appropriate exhaust valve diameter. (The diameter of the exhaust valve can also be selected based on experience with the diameter of the water pipe being 1/8).

inch	1"	2"	3"	4"	6"	8"	10"	12"	14"	16"
Nominal size	25	50	80	100	150	200	250	300	350	400
Q(m ³ /h)	0-350	220-740	650-1600	1300-3100	3000-7500	7300-15000	11000-21000	14000-31000	19000-42000	27000-59000

Performance Curve:

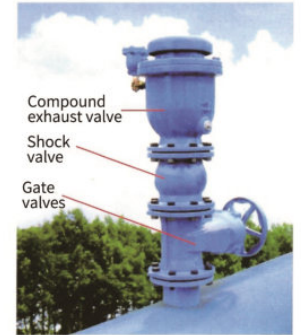


Performance comparison table of composite and traditional exhaust valve:



In addition, the selection of a good exhaust valve mainly refers to three factors

- Larger exhaust volume. If the air volume is too small, it will take a long time to restore the water supply capacity after the water is stopped; if the air volume is large, the normal water supply capacity can be restored in a very short time.
- The air shut-off valve is 0.07MPa. This benefit is most important to consider when choosing a good exhaust valve. Generally, the air closing pressure of a good exhaust valve can reach 0.077MPa, which is sufficient to release the air velocity in the pipe.
- The water closing pressure range is 0.02-1.0MPa. The larger the water shut-off range, the better. Generally, this range is the most commonly used.
- Water closing pressure: When water accumulates in the exhaust valve and the float ball is floated, for example, when the water pressure in the valve body is lower than a certain limit value or higher than a certain limit value, the float ball cannot completely close the race head, and the phenomenon of water leakage occurs, and this limit is called the water closing pressure.



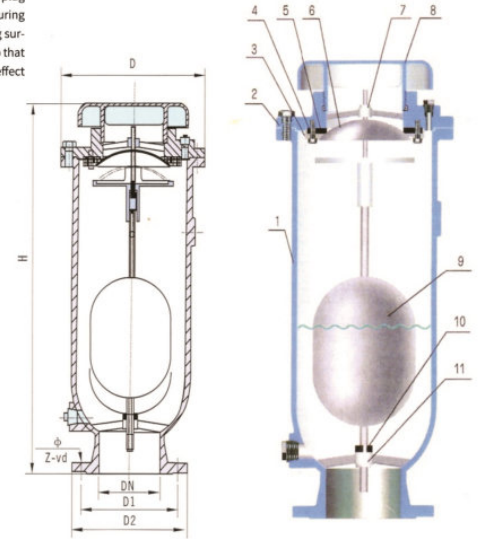
SCAR series sewage compound exhaust valve Overview:

The technical parameters of SCAR sewage exhaust valve are the same as CAR. Considering the characteristics of sewage, it adopts a structure that floats through the top plug and directly acts on the light spherical piston, which reduces the ejection of sewage during a large amount of exhaust, so that the dirt will not deposit on the piston. The sealing surface is more resistant to water impact and is not easy to damage the internal parts, so that the exhaust function can work normally. If the company's SCKV type is installed, the effect will be better.

Pressure class: PN10
Nominal diameter: DN50~200mm

Part name and material:

S/N	Name	Material
1	Body	Ductile Iron
2	Cap	Ductile Iron
3	Piston rack	Cast stainless steel
4	Seal ring	NBR
5	Limit board	Cast stainless steel
6	Piston	Cast stainless steel
7	Guide bush A	Cast stainless steel
8	Exhaust hood	Ductile Iron
9	Float	Assembly
10	Cushion	Rubber
11	Guide bush B	Cast stainless steel



Dimensions:

DN	Product code	D	D1	D2	H	Z-φd
50	SCAR-0050	162×162	125	165	528	4-φ19
80	SCAR-0080	198×198	160	200	613	8-φ19
100	SCAR-0100	280	180	220	398	8-φ19
150	SCAR-0150	356	240	285	870	8-φ23
200	SCAR-0200	446	295	340	1095	8-φ23

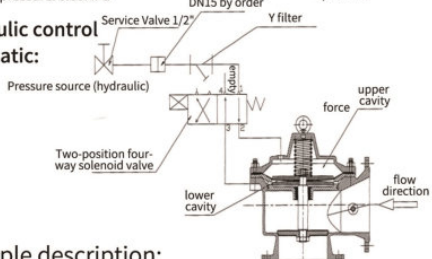
Overview:

Diaphragm angle type sludge discharge valve is suitable for sewage treatment plant to discharge sludge and waste water in the pool. The valve is of an angular structure. The baffle divides the inner cavity into two parts: the control cavity and the flow channel. The control cavity is divided into upper and lower control cavities by the diaphragm. The valve seat is a flat-bottomed structure, and the sealing surface is sprayed with ceramics, which is extremely wear-resistant and corrosion-resistant, and can prevent the accumulation of garbage. Available for long-term use. The top of the valve cover and the side of the valve body are reserved with screw holes, and the pressure source enters and exits the upper and lower control chambers respectively through the control pipeline. The pressure of the upper and lower chambers is controlled by the solenoid valve to control the opening or closing of the sludge discharge valve. When there is an accident that the control air source or hydraulic source suddenly disappears, the sludge discharge valve can be kept closed under the inlet water pressure. (External pressure control source is air source or hydraulic source)

Main parameters:

Grade pressure: PN6
Maximum working pressure: 0.6MPa
Seat test pressure: 0.66MPa
Body test pressure: 0.9MPa
Flange pressure class: PN10 or customer specified

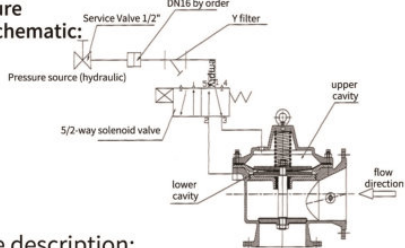
Hydraulic control schematic:



Principle description:

- When the solenoid valve is de-energized, the solenoid valve ports 1 and 2 are turned on, and the ports 3 and 4 are turned on. The upper chamber of the valve is pressurized, the lower chamber is emptied, and the valve is closed.
- When the solenoid valve is energized, the solenoid valve ports 1 and 3 are turned on, and the ports 2 and 4 are turned on. There is pressure in the lower chamber of the valve, the upper chamber is emptied, and the valve is opened.
- When the solenoid valve loses power and pressure, the spool of the sludge discharge valve is in the closed position under the action of its own weight and the inlet water pressure.

Air pressure control schematic:



Principle description:

- When the solenoid valve is de-energized, the solenoid valve ports 1 and 3 are turned on, and the ports 2 and 5 are turned on. The upper chamber of the valve is under pressure, the lower chamber is exhausted, and the valve is closed.
- When the solenoid valve is energized, the solenoid valve ports 1 and 2 are turned on, and the ports 3 and 4 are turned on. There is pressure in the lower chamber of the valve, the upper chamber is emptied, and the valve is opened.
- When the solenoid valve loses power and pressure, the spool of the sludge discharge valve is in the closed position under the action of its own weight and the inlet water pressure.

Dimensions:

Nominal size	D		D1				d1			Φd		D2	H1	H2	H
	PN6	PN10	PN6	PN10	PN6	PN10	C	f	n	PN6	PN10				
DN150	265	285	225	240	199	211	19	3	8	19	23	340	410	225	143
DN200	332	340	280	295	254	266	20	3	8	19	23	435	501	275	200
DN250	375	395	350	350	350	350	22	3	12	23	23	536	610	325	238
DN300	445	445	400	400	400	400	24.5	4	12	23	23	640	705	375	285

The pressure level of the connecting flange is PN10, and its specifications and dimensions can be customized according to customer requirements

Overview:

Backflow preventer (also known as anti-fouling block valve) is a new type of water control valve developed by our company to prevent pressure backflow and siphon backflow. It is mainly suitable for medium water or physical and chemical properties. Similar to water, it is strictly forbidden to backflow polluted piping systems.

It consists of a two-stage check valve and a drainer installed in the middle. According to the structure, it is divided into two forms: the whole and the split. The backflow preventer provided by our company is an integral type with a diameter below DN50 (inclusive), and the diameter is DN50. The above is a split type, and the two are similar in function.

Features:

- ◆ Compact structure, low flow resistance and low noise.
- ◆ Strictly limit pressure backflow and siphon backflow.
- ◆ On-line testing, on-line maintenance.
- ◆ The precise design of the pipeline, and it is safe and reliable to open and close without abnormal drainage.
- ◆ The unique flow channel design of the secondary check valve of the split type backflow preventer not only has small flow resistance, but also opens and closes quickly, which can effectively prevent the damage to the valve and pipeline caused by the sudden increase of back pressure. Long valve life.

Main performance parameters:

Nominal size	DN25-DN150
Nominal pressure	PNN10 / PN16
Shell test pressure	1.5 / 2.4MPa
Seal test pressure	1.1 / 1.8MPa
Suitable temperature	0°C-90°C
Applicable media	Shimizu
Pressure test standard	GB/T13927-2008
Flange connection standard	GB/T17241.6-2008
Threaded connection standard	GB/T7306.2-2000
Product performance standards	CJ/T160-2010

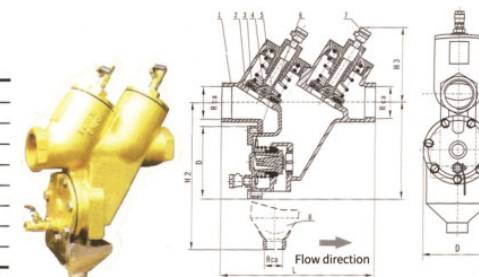
Integral backflow preventer

Main parts name and material:

S/N	Name	Material
1	Body	Brass
2	Seat	Stainless steel
3	Gasket	Silicone Rubber\EPDM
4	Disc	Engineering plastics
5	Spring	Stainless steel
6	Diaphragm	BUNA
7	Test ball valve	Copper assembly
8	Leak door	Stainless steel

※-The first one in the material table is the factory conventional material. (Applicable to clean water below 80°C)

Integral backflow preventer



Note: This valve should be installed horizontally

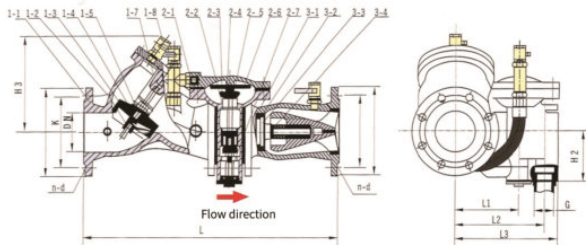
Outline and connection dimensions:

Product code	DN	D	L	H1	H2	H3	PN=1.0MPa / 1.6MPa		
							Inlet and outlet internal thread Rca	Internal drain thread Rca	
RPBP-0025	25	104	232	140	217	144	1"	1"	
RPBP-0032	32	104	232	140	217	144	1 1/4"	1"	
RPBP-0040	40	136	289	181	258	166	1 1/2"	1"	
RPBP-0050	50	136	289	181	258	166	2"	1"	
Body Material							Cast copper		

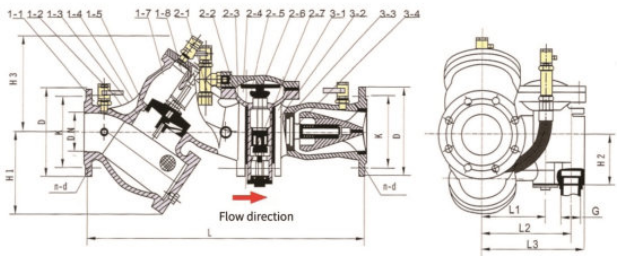
Split backflow preventer



Without filter



With filter



Main parts name and material:

Primary check valve	1-1	Body	Ductile Iron
	1-2	Seat	Aluminum bronze
	1-3	Gasket	Silicone Rubber, EPDM
	1-4	Disc	Aluminum bronze
	1-5	Shaft	Stainless steel
	1-6	Filter	Stainless steel
	1-7	Spring	Stainless steel
	1-8	Test ball valve	Assembly

Drainage	2-1	Body	Ductile Iron
	2-2	Seat	Stainless steel
	2-3	Gasket	Silicone Rubber, EPDM
	2-4	Disc	Aluminum bronze
	2-5	Shaft	Aluminum bronze
	2-6	Diaphragm	BUNA
Secondary check valve	2-7	Spring	Stainless steel
	3-1	Body	Ductile Iron
	3-2	Seat	Aluminum bronze
	3-3	Disc	Aluminum bronze+Rubber
3-4	Spring	Stainless steel	

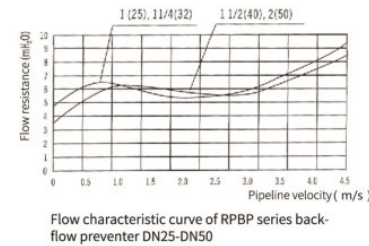
Outline and connection dimensions:

mm

Model	DN	L		H1	H2	H3	L1	L2	L3	Drain port inner diameter thread G (in)	PN=1.0MPa				PN=1.6MPa					
		without filter	with filter								Flange connection			Weight (kg)		Flange connection			Weight (kg)	
											D	Ø	n-d	without filter	with filter	D	Ø	n-d	without filter	with filter
RPBP-0065	65	475	515	150	123	214	150	214	250	1-1/2	185	145	4-Ø19	50	45	185	145	4-Ø19	50	45
RPBP-0080	80	545	600	176	123	214	162	226	262	1-1/2	200	160	8-Ø19	60	54	200	160	8-Ø19	60	54
RPBP-0100	100	640	720	206	123	240	162	226	262	1-1/2	220	180	8-Ø19	85	78	220	180	8-Ø19	85	78
RPBP-0125	125	762	862	244	160	280	219	303	345	2-1/2	250	210	8-Ø19	130	115	250	210	8-Ø19	130	115
RPBP-0150	150	892	1012	283	160	321	219	303	345	2-1/2	285	240	8-Ø23	170	155	285	240	8-Ø23	170	155
RPBP-0200	200	1118	1308	371	190	414	228	344	402	3	340	295	8-Ø23	290	260	340	295	12-Ø23	300	270
RPBP-0250	250	1252	1472	435	227	500	268	398	463	4	395	350	12-Ø23	440	410	405	355	12-Ø28	450	420
RPBP-0300	300	1418	1668	508	246	582	282	418	486	4	445	400	12-Ø23	610	570	460	410	12-Ø28	625	585
Body material											Ductile Iron									

※ The company recommends products with filters first, if users need to order products without filters, special instructions are required.

Characteristic curve:

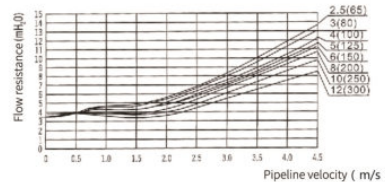
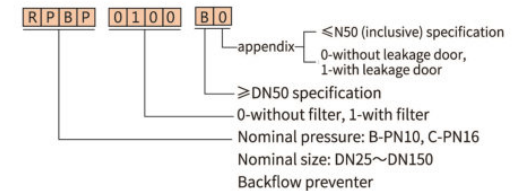


Flow characteristic curve of RPBP series backflow preventer DN25-DN50

Installation occasion:

1. The water pipe network is connected to the back of the user's water meter;
2. Non-domestic drinking water and sewage pipes are connected to the domestic water pipes and installed at the beginning of the pipes;
3. The water inlet pipe of the domestic water tank (when the bottom of the water tank enters the water);
4. The water pump that directly absorbs water from the urban water supply network must prevent the water from falling down because the pressure after the pump is higher than that before the pump.
5. Non-submerged outflow water pipes and water supply pipes should be used to prevent damage caused by loss of pressure in the pipe network when the air gap is insufficient.
6. From the municipal water supply pipeline directly to the boiler, hot water unit, water heater and other pressurized containers or closed containers on the water injection pipe of the water injection device;
7. The beginning of the garbage disposal station, the flushing pipeline for animal breeding and the drinking water pipeline for animals.

Model preparation instructions:



Flow characteristic curve of RPBP series backflow preventer DN65-DN300

The company recommends products with filters first, if the user needs to order products without filters, special instructions should be given.

Overview:

The Y-type filter is a cylindrical filter screen installed in the Y-type pipe body. Remove the tube cover. It can remove sundries, and can also bring its own sewage pipe. Its purpose is to use it in the water supply and drainage pipes of high-rise buildings, multi-storey buildings or factories. When it is installed in the pressure reducing valve, pressure relief valve, fixed water level valve or other main equipment The inlet side is easy to clean up debris to protect the normal use of valves or equipment.

The Y-type tie rod telescopic filter is equipped with an expansion joint on the Y-type filter, which is convenient for pipeline installation and compensates the thermal expansion and contraction of the pipeline.

Main Specifications:

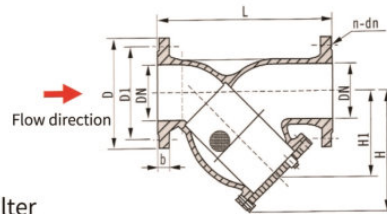
Pressure class: PN10, PN16 Pressure test: 1.5MPa, 2.4MPa

Material:

Tube: Ductile Filter: Stainless Steel Galvanized screw



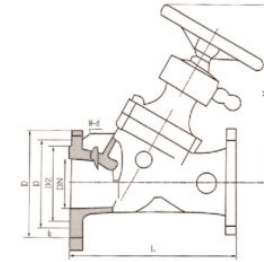
GL41 filter



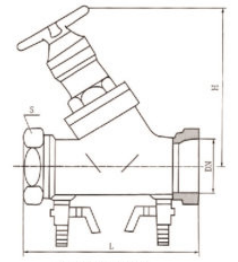
Dimensions:

mm

DN	L	H1	H	D		D1		n-2φd		b	
				1.0MPa	1.6MPa	1.0MPa	1.6MPa	1.0MPa	1.6MPa	1.0MPa	1.6MPa
40	220	100	145	145	145	110	110	4-19	4-19	18	18
50	240	100	145	160	160	125	125	4-19	4-19	20	20
65	250	120	170	180	180	145	145	4-19	4-19	20	20
80	275	145	205	195	195	160	160	8-19	8-19	22	22
100	310	165	235	215	215	180	180	8-19	8-19	22	22
125	340	197	272	245	245	210	210	8-19	8-19	24	24
150	450	230	320	285	285	240	240	8-23	8-23	26	26
200	550	320	440	340	340	295	295	8-23	12-23	26	30
250	650	370	510	395	405	350	355	12-23	12-28	28	32
300	750	450	620	445	460	400	410	12-23	12-28	28	32
350	850	500	680	505	520	460	470	16-23	16-28	30	36
400	950	570	728	565	580	515	525	16-28	16-31	32	38
450	1050	632	810	615	640	565	585	20-28	20-31	25.5	30
500	1150	666	863	670	715	620	650	20-28	20-34	26.5	31.5
600	1350	815	1045	780	840	725	770	20-31	20-37	30	36



SP45F-10/16



SP15F-10/16

Overview:

Digital lock balance valve, suitable for thermal system, is an ideal new energy-saving valve. The valve has a scaled digital display that can be intuitively adjusted to any position and can be locked.

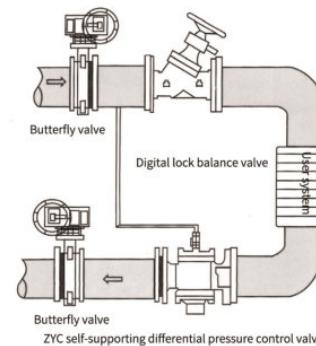
The valve is mainly used in industrial and civil building heating pipeline system. At present, there is a problem of hydraulic imbalance in some pipeline systems. The balance valve provides a means to solve this problem. It can be used to accurately adjust the pressure reduction and flow rate, so as to improve the liquid flow in the pipeline system and achieve the balance and saving of liquid in the pipeline. energy purpose.

In the transformation of the double pipe network project, the application of this valve can still save energy and obtain better results.

Main performance and usage specifications:

Model	SP15F-10/16	SP45F-10/16	Remark
Test pressure	1.5MPa/2.4MPa		
Work pressure	1.0MPa/1.6MPa		
Operating temperature	≤120°C		
Applicable media	Water and other liquids		
Characteristic curve	Equal percentage		
Installation scope	The main branch of the piping system, the main indoor water supply main pipe, the branch riser pipe and the multiple boilers		

Typical installation diagram:



Main dimensions of SP45F-10/16

(Flange connection size according to JB/T79-2015 standard)

DN	L	H
32	180	230
40	200	242
50	230	250
65	290	260
80	310	329
100	350	340
125	400	424
150	480	454
200	550	517
250	622	573
300	698	617
350	787	705

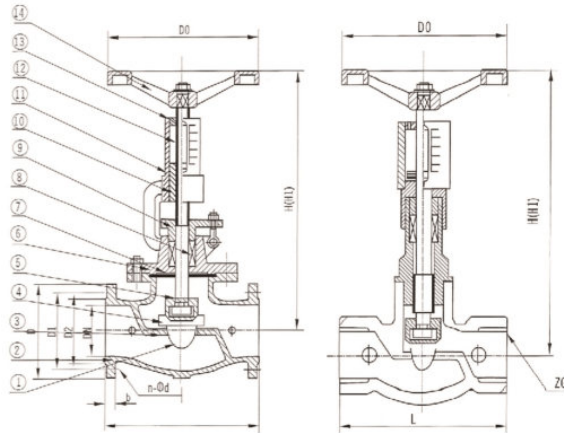
Overview:

KPF type balance valve is a valve with good flow characteristics, which can reasonably distribute flow and realize quantitative flow, which can effectively solve the problem of uneven cooling and cooking at room temperature in heating (air conditioning) systems. Since the valve is provided with opening indicator, opening locking device and small pressure measuring valve for flow measurement, as long as a KDF type balance valve of appropriate specifications is installed on the pipeline, the well uses a special intelligent instrument for one-time debugging. Locked, the total water volume of the system is controlled within a reasonable range, thus overcoming the unreasonable phenomenon of "large flow, small temperature difference".

Structure type:

The valve is mainly composed of valve body, valve disc, valve cover, small pressure measuring valve and locking device, etc. The connection methods include flange connection and threaded connection.

- ◆Application range: water, steam
- ◆Structure length: GB/T12221-2005
- ◆Flange specification: GB/T17241.6-2008, GB/T9113-2010
- ◆Thread specification: GB/T7306.2-2000
- ◆Inspection and experiment: GB/T13927-2008



Flange connection balance valve material table:

NO.	Name	Material
1	pressure measuring valve	Assembly
2	Body	WCB/duDtile iron
3	Seat	ZCuAl10Fe3
4	Disc	WCB+410
5	Stem	Stainless steel
6	Cap	WCB/duDtile iron
7	Gasket	PTFE

NO.	Name	Material
8	Filler	Expanded graphite
9	Packing gland	WCB/duDtile iron
10	Stem Nut	ZCuAl10Fe3
11	Sleeve	Carbon steel
12	dial	0Cr19Ni9
13	Lock disk	Carbon steel
14	Handwheel	QT450-10

Flange connection balance valve size table:

DN	L	D		D1		D2		b		n-2φd		H closure	H1 turn on	D0
		PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16			
15	108	95	95	65	65	45	45	14	14	4-14	4-14	187	200	100
20	117	105	105	75	75	55	55	16	16	4-14	4-14	200	214	120
25	127	115	115	85	85	65	65	16	16	4-14	4-14	210	227	140
32	140	135	135	100	100	78	78	18	18	4-18	4-18	298	318	160
40	165	145	145	110	110	85	85	18	18	4-18	4-18	338	363	180
50	203	160	160	125	125	100	100	20	20	4-18	4-18	368	398	200
65	216	180	180	145	145	120	120	20	20	4-18	4-18	380	410	220
80	241	195	195	160	160	135	135	22	22	8-18	8-18	408	443	240
100	292	215	215	180	180	155	155	24	24	8-18	8-18	443	483	280
125	330	245	245	210	210	185	185	26	26	8-18	8-18	488	543	320
150	356	280	280	240	240	210	210	26	26	8-23	8-23	623	688	350
200	495	335	335	295	295	265	265	28	30	8-23	12-23	687	762	400
250	622	395	405	350	355	320	320	28	32	12-23	12-26	782	867	450
300	698	445	460	400	410	370	375	28	32	12-23	12-26	914	1009	550
350	787	505	520	460	470	430	435	30	36	16-23	16-26	968	1073	600
400	914	565	580	515	525	482	485	32	38	16-26	16-30	1037	1152	700
450	978	615	640	565	585	532	545	32	40	20-26	20-30	1062	1177	700
500	978	670	705	565	650	585	608	34	42	20-26	20-30	1440	1440	750

Threaded connection balance valve size table:

Specification	L	H closure	H1 turn on	D0
1/2"	15	90	187	80
3/4"	20	110	200	80
1"	25	120	210	120
1-1/2"	40	140	230	140
2"	50	160	285	175
2-1/2"	65	180	325	180

Main technical parameters:

Nominal pressure(MPa)	Test pressure (MPa)		Working medium	Medium temperature °C
	shell (water)	Air tightness test		
1.0	1.5	0.6	water	0-120
1.6	2.4	0.6	water	0-120

双法兰伸缩 (传力) 接头

Double flange telescopic (power transmission) joint



JALF JATF JADF

双法兰伸缩 (传力) 接头

Double flange telescopic (power transmission) joint



JALF JATF JADF

Overview:

In the fluid transportation pipelines of construction, urban water supply and drainage, sewage treatment, petrochemical, metallurgy, electric power and other industries, the installation and maintenance of pipelines are difficult, the expansion and contraction of long-distance pipelines caused by temperature difference, and the inclination of pipelines caused by foundation settlement, etc. Because of disturbing the majority of engineering design and operation personnel.

Double-flange pipeline loose sleeve compensation joint, with short structure, reasonable design, reliable sealing, convenient loading and unloading, can compensate for the displacement of the pipeline in a certain range, transmit the axial quasi-pulling force, and can adjust the maximum expansion and contraction amount and prevent the connection from loosening. It can be used in place of expansion joints such as U-shaped pipes and corrugated pipes. It is an ideal solution to solve problems such as pipeline installation and expansion and contraction.

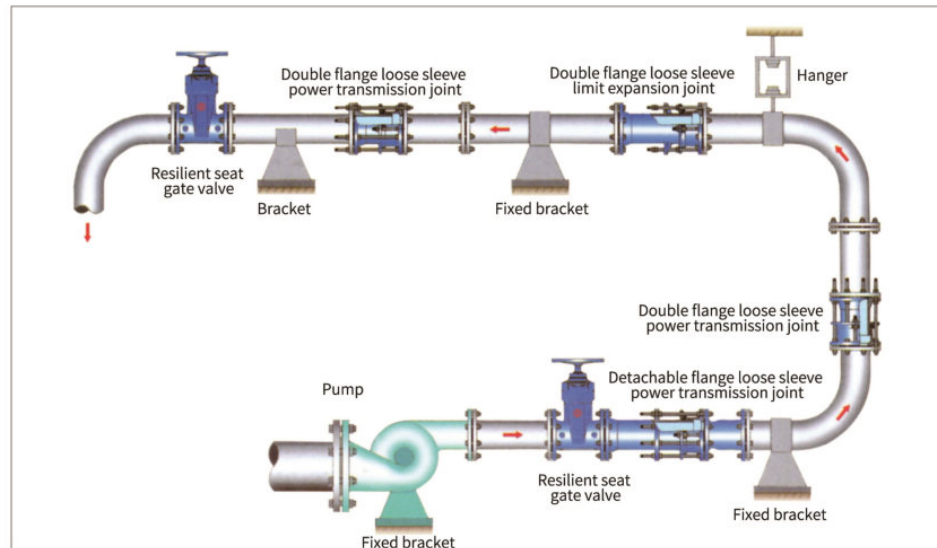
Features:

1. The structure is short:
Short structure length, saving space for pipeline installation and maintenance;
2. Flexible expansion:
The telescopic resistance is small, and the maximum allowable telescopic amount can be adjusted;
3. Safety limit:
The limit device can prevent the pipeline from loosening and leaking;
4. Reliable sealing:
"O"-type sealing ring, which can be easily adjusted to ensure zero leakage;
5. Convenient loading and unloading:
Stud connection, simple structure, easy installation and maintenance;
6. Surface protection:
Special treatment of inner and outer surfaces Small hygienic anti-corrosion

Technical parameter:

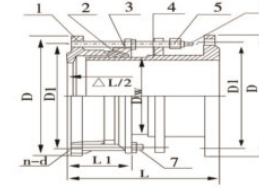
Technical Features	Characteristic data			
Nominal size DN(mm)	50~1800			
Nominal pressure PN (MPa)	0.6, 1.0, 1.6			
Working temperature(°C)	0-100			
Applicable media	Clear water, raw water, sea water, oily water, sewage, granular and other media			
Test pressure (MPa)	Nominal pressure	PN0.6	PN1.0	PN1.6
	Strength test	0.9	1.5	2.4
	Seal test	/	/	/

Installation diagram:



Structural application:

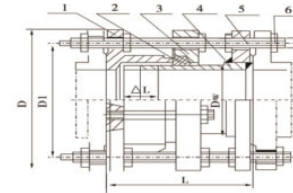
JALF-Loose sleeve limit expansion joint (GB model: B2F)



The joint is additionally provided with a limit device. If the free expansion and contraction of the pipeline exceeds the allowable expansion and contraction amount, the limit stud and nut can prevent the nozzle from being disengaged, which is especially suitable for pipeline connections with vibration, a certain slope or bend.

Note: The joint cannot bear all the axial push-pull force of the pipeline. When it is installed in a pipe bend, a T-shaped pipe or connected to a valve and other equipment, a pipe fixing device should be installed.

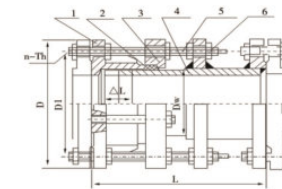
JATF-Loose sleeve power transmission joint (GB model: C2F)



The joint connects the two flanges as a whole through long studs. During installation and maintenance of equipment and pipelines, the installation size can be flexibly adjusted according to site conditions; during normal operation, the axial push-pull force can be transmitted to the entire pipeline to protect the safety of pumps and valves.

It is mostly used for installation and connection between vertical pipelines, and the connection between equipment and pipelines that are not often disassembled.

JADF-Removable loose sleeve power transmission joint (GB model: CC2F)



The joint is added with a mounting flange on the basis of the power transmission joint. In addition to adjusting the installation size of the pipeline and transmitting the axial push-pull force, the flanges connected by short bolts are convenient for the disassembly and assembly of pipeline equipment. It is mostly used for the connection between pumps, valves and other equipment to be disassembled and pipelines.

Product code:

JA **L** F - 0 8 0 0 - 1 0

Nominal pressure: 10 times the nominal pressure value in MPa.

Nominal size: DN, in millimeters (add "0" in the first place when the value is less than four digits)

Product code: JALF-Double flange loose sleeve limit expansion joint
JATF-Double flange loose sleeve power transmission joint
JADF-Removable double flange loose sleeve power transmission joint

双法兰伸缩 (传力) 接头

Double flange telescopic (power transmission) joint JALF JATF JADF



橡胶接头

Rubber joint



KXT RFJD KST RFJS

Main parts and materials:

S/N	1	2	3	4	5
Name	Set	Sealing ring	Gland	Studs, Nuts	Take over
Material	Ductile Iron	NBR	Ductile Iron	Carbon steel galvanized	Ductile Iron

Dimensions:

JALF loose sleeve limit expansion joint mm

Nominal size DN	Total length L	allowable expansion δ	Flange standard
50-250	340	50	GB/T17241.6-2008
300-700	370	66	
800-1200	600	130	
1400-1800	640	130	

JATF loose sleeve power transmission joint mm

Nominal size DN	Total length L	The maximum length L _{1max}	Minimum length L _{1min}	allowable expansion δ	Flange standard
50-250	340	220	180	40	GB/T17241.6-2008
300-500	380	245	195	50	
600-700	420	265	215	50	
800-1000	560	380	320	60	
1200	600	400	340	60	
1400	630	400	340	60	
1600-1800	670	410	350	60	

JAGF Detachable Loose Power Transmission Joint mm

Nominal size DN	Total length L	The maximum length L _{1max}	Minimum length L _{1min}	allowable expansion δ	Flange standard
50-250	460	420	380	40	GB/T17241.6-2008
300-500	495	445	395	50	
600-700	510	465	415	50	
800-1000	690	630	570	60	
1200-1400	740	680	620	60	
1600-1800	800	700	640	60	

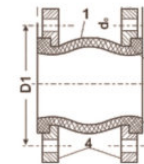
Description: In line with the national standard GB/T12465-2017 "Pipeline compensation joints"

Technical conditions (two categories)

project	model	JGD-1	JGD-2	JGD-3
Work pressure		1.0(10)	1.6(16)	2.5(25)
Burst pressure		2.0(20)	3.0(30)	4.5(45)
degree of vacuum		53.3(400)	86.7(650)	100
proper temperature		-15°C~115°C Special up to -30°C~250°C		
Applicable media		Air, compressed air, water, hot water, oil, alkali, etc.		



KXT type (RFJD type)



- Schematic:
1. Subject
2. Lining
3. Skeleton
4. Flange

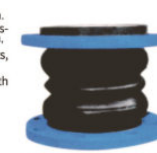
Nominal size DN	Length L	Flange thickness b	Number of bolts n	Bolt hole diameter D0	Bolt hole center circle diameter D1	Axial displacement elongation	compression	Lateral shift	deflection angle
32	1 1/4	16	4	18	100	6	9	9	15
40	1 1/2	18	4	18	110	6	10	9	15
50	2	18	4	18	125	7	10	10	15
65	2 1/2	20	4	18	145	7	13	11	15
80	3	20	4	18	160	8	15	12	15
100	4	22	8	18	180	10	19	13	15
125	5	24	8	18	210	12	19	13	15
150	6	24	8	23	240	12	20	14	15
200	8	24	8	23	295	16	25	22	15
250	10	26	12	23	350	16	25	22	15
300	12	28	12	23	400	16	25	22	15
350	14	28	16	23	460	16	25	22	15
400	16	30	16	25	515	16	25	22	15
450	18	30	20	25	565	16	25	22	15
500	20	32	20	25	620	6	25	22	15
600	24	36	20	30	725	6	25	22	15
700	28	36	24	30	840	16	25	22	15
800	32	38	24	34	950	16	25	22	15
900	36	42	28	34	1050	6	25	22	15
1000	40	44	28	34	1160	18	26	24	15
1200	48	48	32	41	1380	18	26	24	15
1400	56	44	36	34	1560	20	28	26	15
1600	64	46	40	34	1760	25	35	30	10
1800	72	52	44	41	1970	25	35	30	10

Note: 1. Special requirements can be customized by letter and drawing. Flanges are according to the "National General Water Supply and Drainage Standard Atlas", and others are according to HG Ding 22892017.
2. The working pressure of DN350-600(2) type is 1.6MPa, and the working pressure of DN32-400(3) type is 2.5MPa.
3. The working pressure of DN700-DN1200 is 1.0MPa, the working pressure of DN1400 is 0.6MPa, the working pressure of DN1600-DN1800 is 0.4MPa, and the flange is selected according to 0.6MPa.
4. For suspended water supply products above DN200, the pipeline must have fixed supports or fixed brackets, otherwise the side products should be equipped with anti-pull-off devices.
5. If the user uses a rubber joint, the corresponding flange should be a valve flange or a flange in accordance with GB/T9115.1 (RF).

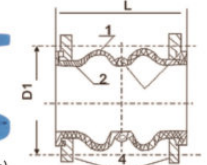
Main data:

Nominal size DN	Length L	Flange thickness b	Number of bolts n	Bolt hole diameter D0	Bolt hole center circle diameter D1	Axial displacement elongation	compression	Lateral shift	deflection angle
40	1 1/2	18	4	18	110	10	20	20	30°
50	2	20	4	18	125	10	20	20	30°
65	2 1/2	20	4	18	145	10	20	20	30°
80	3	20	8	18	160	10	20	20	30°
100	4	22	8	18	180	15	30	25	30°
125	5	22	8	18	210	15	30	25	30°
150	6	24	8	22	240	15	30	25	30°
200	8	24	8	22	295	20	40	30	30°
250	10	26	12	22	350	20	40	30	30°
300	12	26	12	22	400	20	40	30	30°

Note: 1. Special requirements can be customized by letters and drawings, flanges are according to the "National General Water Supply and Drainage Standard Atlas", and others are inspected according to HG/T2289-2017.
2. For suspended water supply products above DN200, the pipeline must have fixed supports or fixed brackets, and the products on the other side should be equipped with anti-pull-off devices.
3. If the user uses a rubber joint, the corresponding flange should be a valve flange or a flange in accordance with GB/Hall 9115.1(R).
4. DN40-600PN=1.1-1.6MPa DN40-200PN=2.5MPa



KST type (RFJS type)



- Schematic:
1. Subject
2. Lining
3. Skeleton
4. Flange

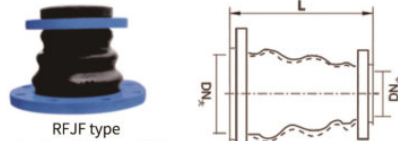
Technical conditions:

project	model	JGD-1	JGD-2 (DN40-300)	JGD-3 (DN40-300)
Work pressure		1.0(10)	1.6(16)	2.5(25)
Burst pressure		2.0(20)	3.0(30)	4.5(45)
degree of vacuum		53.3(400)	86.7(650)	100
proper temperature		-15°C~115°C Special up to -30°C~250°C		
Applicable media		Air, compressed air, water, hot water, oil, alkali, etc.		

Nominal size, length, displacement data sheet (reducer):

DN _公 x DN _母	Length (L) (mm)	Axial displacement (mm)	axial elongation/compression	Lateral deflection (mm)	Angle deflection	Remark
80x50	180	20	30	45	35	Connection flanges are manufactured according to the relevant data of the National General Water Supply and Drainage Standard Drawing S311
100x80	180	20	30	45	35	
150x80	190	20	30	45	35	
150x100	200	22	30	45	35	
200x100	200	22	30	45	35	
200x150	200	22	30	40	35	
250x200	220	25	35	40	30	
300x200	220	25	35	40	30	
300x250	220	25	35	40	30	
350x200	220	25	35	40	30	
350x300	220	25	38	35	30	

Note: 1. Special requirements can be customized by letter to the map, the flange according to the "National General Water Supply and Drainage Standard Atlas", other tests according to HG/T2289-2017.
2. Overhanging water supply using products above DN200, the pipe must have fixed support or fixed bracket, otherwise the product should be installed with anti-pull-off device.
3. Users use rubber joints, the corresponding flange should be valve flange or flange conforming to GB/T9115.1 (RF).



Technical conditions

project	model	KXD(DN50-300)	KXD(DN350-600)	Remarks
Work pressure		1.0	0.6	A. Such as medium oil, acid and alkali substances. B. Special requirements for working temperature. C. Can also write to the map to customize. D. Need to specify when ordering.
Burst pressure		<1.8	<1.5	
degree of vacuum		86.7	53.3	
proper temperature		-20°C~115°C (Special can reach -30°C~250°C)		
Applicable media		Air, compressed air, water, seawater, hot water, acids and bases, etc.		

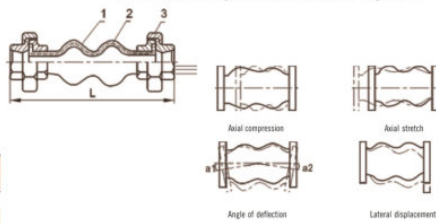
Note: The main parts material is the same as JGD-A type

Material table

S/N	Part	Material
1	Body	Polar Rubber
2	Lining	Nylon curtain fabric
3	Skeleton	Hard wire
4	Flange	Soft Steel



Diagram of deflection of bendable synthetic rubber joint



Technical conditions

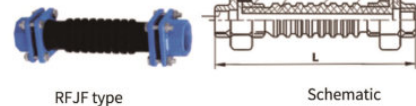
Work pressure	1.0MPa	Deflection angle	45°
Burst pressure	3.0MPa	Degree of vacuum	53.3KPa
proper temperature		-10→+80°C	
Applicable media	Air, compressed air, water, hot water, oil, weak acid		

Pipe nominal size and axial displacement, lateral displacement table

Nominal size DN (mm)	(寸)	L	Axial displacement (mm)	elongation/compression	Lateral deflection
15	1/2		5-6	22	22
20	3/4		5-6	22	22
25	1		5-6	22	22
32	1 1/4		5-6	22	22
40	1 1/2	210	5-6	22	22
50	2	210	5-6	22	22
65	2 1/2	225	5-6	22	22
80	3	265	5-6	22	22

Pipe nominal size and axial displacement, lateral displacement, angular displacement table

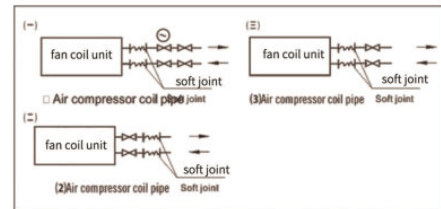
Nominal size	L	Axial compression	Axial elongation	Lateral displacement	Deflection angle
15	195	10	5	20	45°
20	200	10	5	20	45°
25	205	10	5	20	45°



Material table

S/N	Part	Material
1	Inner layer of glue	Heat resistant rubber
2	Outer layer of adhesive	Aging resistant rubber
3	Reinforcement layer	Nylon curtain roll
4	Parallel coupling	Segmentable cast steel

Working pressure: 1.6MPa
Burst pressure: 4.8MPa
Applicable temperature: -10~105°C
Adapt to medium: water, hot water, air



Overview:

Eccentric half ball valve consists of valve body, eccentric ball body, main (slave) shaft, upper (lower) sleeve, ball crown, pressure ring, inside and outside seat and other major components, through the eccentric crankshaft rotation of 90° to achieve the opening and closing of the valve, play a role in carrying off the media. The valve's ball and seat are completely separated, eliminating the wear of the seal ring, overcoming the traditional ball seat and ball sealing surface always wear, non-metallic elastic material is embedded in the metal seat, the metal surface of the valve seat is well protected. This product is especially suitable for steel industry, aluminum industry, fiber, tiny solid particles, paper pulp, coal extinguish, LPG and other media.

Features:

- It adopts full-bore structure, the valve core is hemispherical, the flow area is large, the flow resistance is extremely low, and the energy saving effect is obvious. At the same time, the sealing surface is not washed directly, and the service life is long.
- Top-loading structure, can be repaired online. In some specific workplaces, the normal operation of the pipeline system can be not affected during the emergency repair, so that the benefit loss caused by the emergency repair valve can be minimized.
- When opening, the spherical cap has the function of asymptotically approaching the sealing surface of the valve body, which can effectively remove the scale and sundries and achieve reliable sealing.
- Double eccentric structure, the switch has no wear. When opening, the ball crown quickly separates from the sealing surface of the valve body, and the friction distance is short. When closing, the ball crown quickly enters the sealing surface of the valve body, and the tighter it is, the tighter it is, and the less wear and tear it is.
- After long-term use, after the sealing pair is worn, the valve seat can be adjusted to achieve a good seal again.



Technical parameter:

Nominal size DN	250 ~ 2000		
Nominal pressure PN (MPa)	0.6	1.0	1.6
Test pressure	Seal	0.7	1.1
	Case	0.9	1.5
Applicable media	Sewage, water, mud, oil, etc.		
Standard material	Body	Ductile Iron	
	Disc	Ductile Iron	
	Seat	Stainless steel, Copper alloy	
	Shaft	Stainless steel	
Sealing ring	Engineering plastics, rubber, stainless steel, copper alloy		

Product Standards:

Flange connection standard	Comply with GB/T17241.6-2008 (ISO7005.2)
Structure length standard	GB12221-2005 (ISO5752) Dimensions
Test Standard	GB/T26480-1011 (API STD.598) implementation

Design technical description:

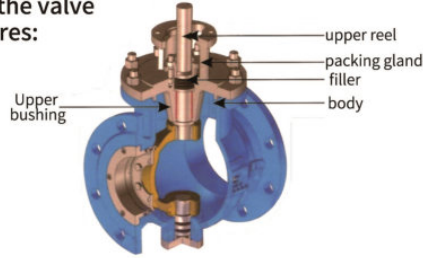
The eccentric semi-ball valve ensures that the valve seat and the ball crown do not rub against each other during the opening or closing process of the valve, because the eccentric crankshaft is used, that is, the crankshaft rotation center and the center of the valve body (sealing Fu sub center) are designed to have a certain eccentric distance in the valve. When opening, the crankshaft rotates a small angle, the ball crown will leave the inner valve seat, and the ball crown and the inner valve seat will no longer be in contact; on the contrary, during the valve closing process, only at the moment of closing, the ball crown will not contact the inner valve seat contact. This construction allows the ball crown and inner seat to be fully protected, minimizing wear. In a water system where there is sediment, the eccentric shaft and the spherical cap are reduced to the valve body and will not be flushed; due to the eccentric effect, during the closing process, the spherical cap will only approach the valve seat at the last moment, without causing wear and tear, and there is no obstruction in the flow channel, it is completely unblocked, and the head loss is very small.

The eccentric hemispherical valve is designed as a three-section ball valve structure (driving shaft, sphere, driven shaft). There are positioning pins between the eccentric sphere and the spherical crown and between the valve body and the drive device. The overcurrent fasteners are made of stainless steel. The spring washer is installed, and the large-diameter ball valve is fixed on the foundation with anchor bolts, so the valve does not have any vibration under high flow rate. The valve seat is designed as a floating structure (radial adjustment, axial displacement), which can automatically compensate for the wear of the sealing surface after long-term use.

The eccentric hemispherical valve has a good sealing effect, and the leakage of the valve pool can reach zero leakage.

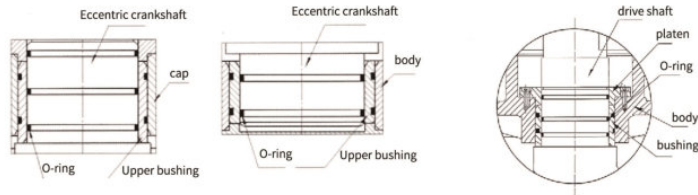
Schematic diagram of the connection between the valve shaft and the valve body and the sealing measures:

The valve shaft of the eccentric hemispherical valve is designed as a dry shaft, that is, the valve shaft is completely covered by packing and bearings, so as to ensure that the gap between the bearing and the valve stem does not produce any corrosion, ensuring long-term reliable operation and maintenance-free, and the packing gland is tightly locked on the valve body. The pressure plate is covered with lock nuts and lock washers to ensure that the valve shaft will not move up and down.



Schematic diagram and annotation of the valve shaft seal:

The schematic diagram of the sealing performance at the shaft sleeve is shown in the figure. The upper shaft sleeve is sealed with an eccentric crankshaft, with 3 O-ring seals on the shaft and 2 O-ring seals on the shaft sleeve, and the lower shaft sleeve is sealed with an eccentric crankshaft, with 2 O-ring seals on the shaft and 2 O-ring seal, the seal leakage rate is less than 1/10,000.



Schematic diagram of the connection between the valve shaft and the valve plate and the sealing measures:

The valve shaft and eccentric sphere adopt a three-section structure (main, driven shaft, sphere); the valve plate is a spherical cap. The spherical crown is fixed on the eccentric sphere with a set screw, and an O-ring seal is used between them. Because it is a static seal, the seal is very reliable.

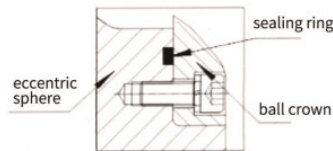


Figure 10 Schematic diagram of the connection and sealing between the eccentric sphere and the spherical crown

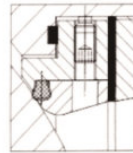
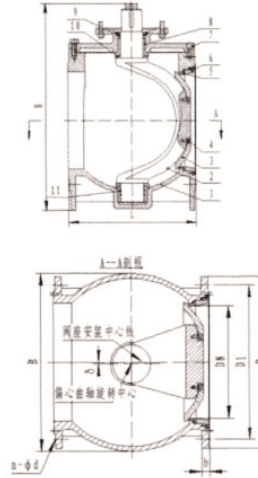


Figure 11 Schematic diagram of sealing between ball crown and valve seat

Valve structure diagram:



S/N	Name	Material		Material grade	
		Hard seal	Soft seal	Hard seal	Soft seal
1	Body	Ductile Iron	Ductile Iron	QT450-10	QT450-10
2	Eccentric curve ball	Ductile Iron	Ductile Iron Skeleton Overall rubber wrap	QT450-10	QT450-10+NBR
3	Ball crown	Stainless steel		1Cr18Ni9	
4	Fasteners	Stainless steel	Stainless steel	A2-70	A2-70
5	Seat	Stainless steel	Valve body pure nickel surfacing	1Cr18Ni9	Ni
6	Pressure ring	Ductile Iron		QT400-15	
7	Cap	Ductile Iron	Ductile Iron	QT450-10	QT450-10
8	Upper bearing	Bronze	Bronze	ZCuAl10Fe3	ZCuAl10Fe3
9	Seal assembly	NBR	NBR	NBR	NBR
10	End bearing	Bronze	Bronze	QSn6.5-0.1	QSn6.5-0.1
11	Lower bearing	Bronze	Bronze	ZcuAl10Fe3	ZcuAl10Fe3

Outline and flange connection size (electric):

DN	Dimensions		Connection size												
			PN10				PN16				PN25				
			L	H	φB	D	D1	n-φd	b	D	D1	n-φd	b	D	D1
100	130	410	206	220	180	8-φ18	22	220	180	8-φ18	22	235	190	8-φ22	24
125	254	370	235	250	210	8-φ18	22	250	210	8-φ22	22	270	220	8-φ26	26
150	267	420	264	285	240	8-φ22	24	285	240	8-φ22	24	300	250	8-φ26	28
200	312	540	345	340	295	8-φ22	24	340	295	12-φ22	24	360	310	12-φ26	30
250	330	600	380	395	350	12-φ22	26	405	355	12-φ26	26	425	370	12-φ30	32
300	396	665	442	445	400	12-φ22	26	460	410	12-φ26	28	485	430	16-φ30	34
350	430	740	513	505	460	16-φ22	26	520	470	16-φ26	30	555	490	16-φ33	38
400	530	860	604	565	515	16-φ22	26	580	525	16-φ30	32	620	550	16-φ36	40
450	580	896	634	615	565	20-φ26	28	640	585	20-φ30	40	670	600	20-φ36	46
500	660	1020	766	670	620	20-φ26	28	715	650	20-φ33	44	730	660	20-φ36	48
600	740	1185	936	780	725	20-φ30	34	840	770	20-φ36	54	845	770	20-φ39	58
700	850	947	1045	895	840	24-φ30	34	910	840	24-φ36	40	960	875	24-φ42	50
800	1000	1436	1140	1015	950	24-φ33	36	1025	950	24-φ39	42	1085	990	24-φ48	54
900	1100	1520	1344	1115	1050	28-φ33	38	1125	1050	28-φ39	44	1185	1090	28-φ48	58
1000	1200	1645	1380	1230	1160	28-φ33	38	1255	1170	28-φ42	46	1320	1210	28-φ55	62
1200	1346	2055	1614	1045	1380	32-φ39	44	1485	1390	32-φ48	52	1530	1420	32-φ55	70
1400	1460	2130	1765	1675	1590	36-φ42	48	1685	1590	36-φ48	58	1755	1640	36-φ60	76
1600	1500	2280	1850	1915	1820	40-φ48	52	1930	1820	40-φ55	64	1975	1860	40-φ60	84
1800	1800	3042	2340	2115	2020	44-φ48	56	2130	2020	44-φ55	68	2195	2070	44-φ70	88
2000	2200	3780	2675	2325	2230	48-φ48	60	2345	2230	48-φ60	70	2425	2300	48-φ70	95
2200	2600	4390	3050	2525	2430	48-φ60	70	2545	2430	48-φ70	84	2625	2500	48-φ70	100

Overview:

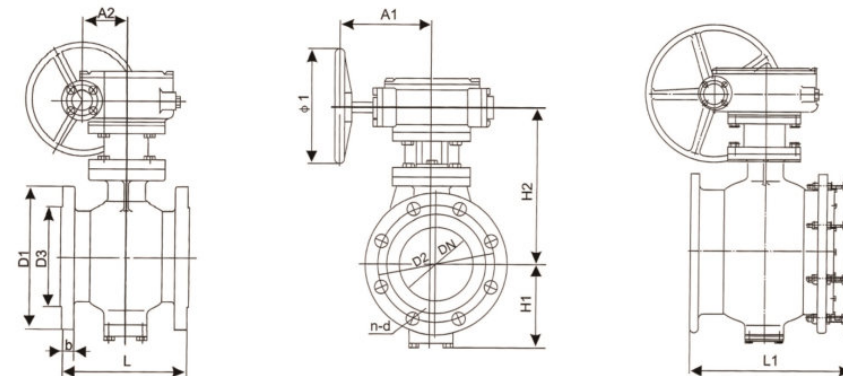
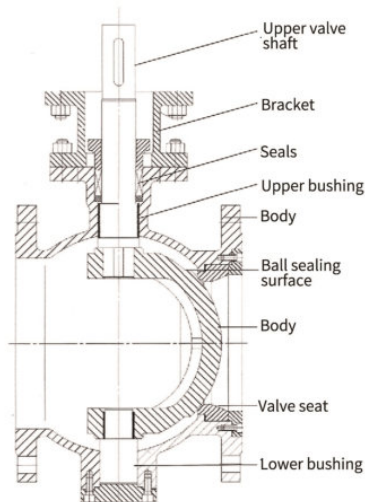
This product can be widely used in water supply and drainage, petroleum, chemical, gas, metallurgy, electric power, papermaking, heat and other industries, especially suitable for industrial pipelines containing particles, ash, fibers and other fluid media to cut off the flow. The eccentric hemispherical valve is a product developed by our company based on the actual conditions of my country's pipeline conditions. At present, it has formed five pressure levels from 0.6MPa to 6.4MPa, and the specifications range from DN100-DN2400mm; the sealing surface of the valve adopts the cemented carbide surfacing process, The hardness can reach HRC48, and the weight is one third of the traditional ball valve.

Product features:

The sphere (an eccentric hemisphere set in the valve cavity) is driven by the upper valve shaft to rotate at 90°C around the upper valve shaft and the lower valve shaft. When turned clockwise, the ball enters the seat. Under the action of eccentricity, the ball pressurizes the valve seat to seal and close the valve; rotate the elbow counterclockwise, and under the action of eccentricity, the ball quickly separates from the valve seat, and rotates 90°C to fully open, and the water loss is close to zero.

Performance characteristics:

- This valve is suitable for medium and low pressure pipelines such as water supply and drainage, sewage treatment, petroleum, chemical industry, metallurgy, electric power, etc. It is especially suitable for cut-off and throttling in fluid medium pipelines containing impurities and granular debris.
- Adopting double eccentric structure, the sealing pair can be closed and opened by the wedging action of the eccentric wheel, so as to realize reliable sealing specific pressure and quick opening.
- Due to the eccentric structure, the rotation radius of all points on the sealing spherical surface is different. When closed, the sealing valve seat is closed more tightly, forming a sufficient sealing specific pressure, and the bidirectional sealing effect is excellent.
- The valve disc adopts a full-circle straight-through type, which is a full-flow structure after opening, with good flowability and linear adjustment performance.
- During long-term use, after wear, a new seal can be obtained by adjusting the pressure sleeve of the sealing ring and moving the sealing spherical surface forward by an equal amount.
- When the valve is in use, the operating force only acts on a very small angle of opening or closing of the valve. When opening, the operating force decreases rapidly with the reduction of the sealing specific pressure, and the sealing surface tends to be free of wear.
- The circular flow channel has a full flow section after the valve is fully opened, and the bottom is a circular streamline structure, and the deposited debris will be taken away with the flow of the medium. During the closing process, the dirt deposited on the sealing surface can be removed by itself without affecting the sealing.
- The valve shaft adopts the design of upper and lower half shafts and is equipped with self-lubricating bushings. During the opening process of the valve, the frictional resistance is small and the opening and closing are flexible. The unique O-ring and the floating shaft seal replace the packing of the original ball valve. It solves the problem that the packing seal is easy to wear during the valve opening process.



External dimension table:

DN	L	L1		H1	H2	D1			D3			N-d		
		standard length	stretching volume			0.6	1.0	1.6	0.6	1.0	1.6	0.6	1.0	1.6
100	229			130	270	210	220	220	144	156	156	4-φ18	8-φ18	8-φ18
125	254			148	290	240	250	250	174	184	184	8-φ18	8-φ18	8-φ18
150	267			173	331	265	285	285	211	211	211	8-φ18	8-φ22	8-φ22
200	292			195	375	320	340	340	254	266	266	8-φ18	8-φ22	12-φ22
250	330			225	432	375	395	405	309	319	319	12-φ18	12-φ22	12-φ26
300	356	448	±15	260	470	440	445	460	363	370	370	12-φ22	12-φ22	12-φ26
350	440	540	±20	300	540	490	505	520	413	429	429	12-φ22	16-φ22	16-φ26
400	500	594	±20	332	575	540	565	580	463	480	480	16-φ22	16-φ22	16-φ26
450	560	668	±20	360	625	595	615	640	518	530	548	16-φ22	20-φ26	20-φ30
500	620	741	±25	400	710	645	670	715	568	582	609	20-φ22	20-φ26	20-φ33
600	800	923	±30	560	682	755	780	840	667	682	720	20-φ26	20-φ30	20-φ36
700	850	988	±30	630	732	860	895	910	772	794	794	24-φ26	24-φ30	24-φ36
800	900	1052	±35	700	800	975	1015		878	901		20-φ30	20-φ33	
900	1050	1230	±35	800	895	1075	1115		978	1001		24-φ30	28-φ33	
1000	1200	1340	±40	874	1144	1175	1230		1078	1112		28-φ30	28-φ36	
1200	1500	1660	±40	1020	1230	1405	1455		1295	1328		32-φ33	32-φ39	
1400	1650	1830	±50	1200	1420	1630	1675		1510	1530		36-φ36	36-φ42	
1600	1850	1850	±50	1400	1640	1830	1915		1710	1750		40-φ36	40-φ48	
1800	2200	2400	±60	1480	1760	2045	2115		1918	1950		44-φ39	44-φ48	
2000	2500	2690	±60	1600	2050	2265	2325		2125	2150		48-φ42	48-φ48	
2200	2850	3050	±60	1800	2250	2475	2550		2335	2370		52-φ42	52-φ56	
2400	3250	3450	±60	2000	2450	2685	2760		2545	2570		56-φ42	56-φ56	

Main parts and materials:

Name	Material
Body	Ductile iron, carbon steel, stainless steel
Ball	Ductile iron, carbon steel, stainless steel
Upper and lower valve shaft	Stainless steel
Ball seal	Hardfacing carbide
Upper and lower bushings	Bronze
Seat	Stainless steel
Valve shaft seal	Flexible graphite, PTFE, NBR

Technical parameter:

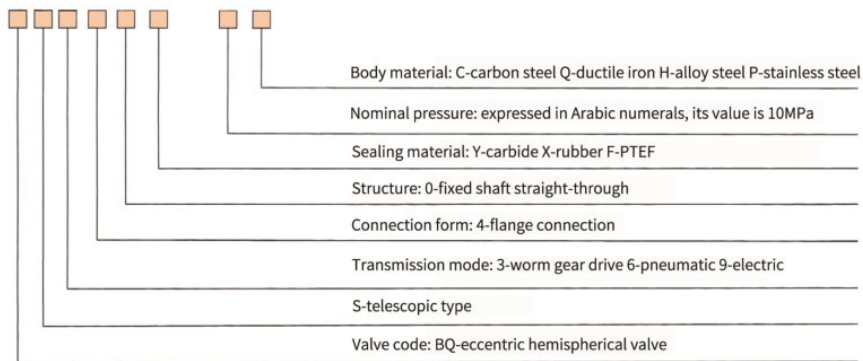
Nominal pressure	PN10	PN16	PN25
Maximum working pressure MPa	1.0	1.6	2.5
Sealing test pressure MPa	1.1	1.8	2.8
Strength test pressure MPa	1.5	2.4	3.8
Valve allowable leakage level	Grade D according to GB/T13927-2008		
Applicable media	Water and liquids with physical and chemical properties similar to water		
Applicable temperature	-25—85°C		

Note: 1. The following data refers to the parameters of the standard product.
2. If the customer has requirements of pressure, temperature, fluid medium and main material different from the standard product, please contact our sales department.

Eccentric hemisphere valve size factor (CV):

Nominal size DN	Standard channel valve, ball opening									
	10	20	30	40	50	60	70	80	90	100
80	8.40	18.90	33.60	46.20	63.00	92.40	147.00	210.00	319.20	420.00
100	15.40	34.70	61.60	84.70	115.50	169.40	269.50	385.00	585.00	770.00
150	36.00	81.00	144.00	198.00	270.00	369.00	630.00	900.00	1368.00	1800.00
200	68.00	153.00	272.00	374.00	510.00	748.00	1190.00	1700.00	2584.00	3400.00
250	118.00	265.00	472.00	649.00	885.00	1298.00	2065.00	2950.00	4484.00	5900.00
300	160.00	360.00	640.00	880.00	1200.00	1760.00	2800.00	4000.00	6080.00	8000.00
350	240.00	540.00	960.00	1320.00	1800.00	2640.00	4200.00	6000.00	9120.00	12000.00
400	280.00	630.00	1120.00	1540.00	2100.00	3080.00	4900.00	7000.00	10640.00	14000.00
450	360.00	810.00	1440.00	1980.00	2700.00	3960.00	6300.00	9000.00	13680.00	18000.00
500	440.00	990.00	1760.00	2420.00	3300.00	4840.00	7700.00	11000.00	16720.00	22000.00
600	620.00	1420.00	2500.00	3460.00	4700.00	6950.00	11000.00	15800.00	24000.00	31650.00

Product code preparation instructions:



Overview:

The piston control valve, as an improved product of needle valve, has long been active in long-distance water transmission, dams, and hydroelectric power stations. Piston control valve is a reasonable design, simple operation, low maintenance. The piston control valve is a well-designed, simple to operate, low maintenance and cost-effective energy dissipation valve, as well as a regulator for special conditions.

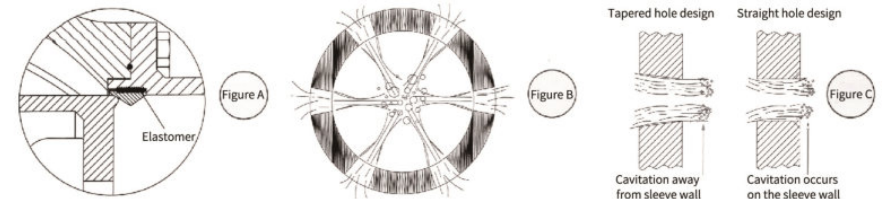
Principle:

The piston control valve mainly consists of valve body, valve seat, piston, valve shaft, crank, connecting rod, drive pin, taper pin, bearing and operating mechanism and other components. The piston control valve converts the rotation of the valve shaft into the axial movement of the piston along the guide rail through the crank linkage mechanism, and in the process of moving the piston back and forth, the flow area between the piston and the valve seat is changed to achieve flow regulation and pressure adjustment. During the back and forth movement of the piston, the flow and pressure control are achieved by changing the flow area between the piston and the valve seat.

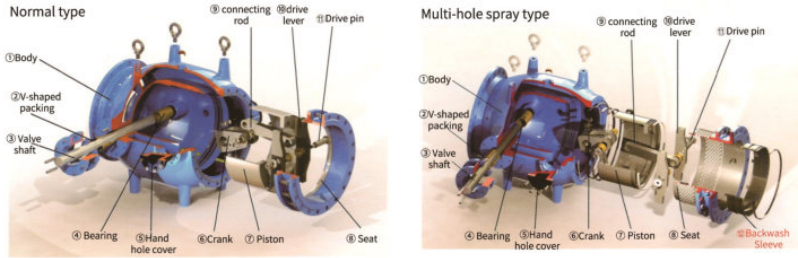
The water flow enters the valve body from the axial arc, and the flow path in the piston control valve is axisymmetric, so that no turbulence is generated when the fluid flows through. Regardless of the piston movement to any position, no matter where the piston moves, the water flow section in the valve cavity at any position is annular and shrinks toward the axis at the outlet, thus achieving the best anti-cavitation and avoiding possible cavitation damage to the valve body and piping due to throttling. The valve body and piping damage due to possible cavitation caused by throttling.

Features:

- Linear adjustment: the valve opening and flow are linear, which can realize precise adjustment.
- Low maintenance cost: The special design structure of the valve reduces the possibility of the valve being blocked by sundries. The valve is equipped with a hand hole cover and a backwashing device, which is convenient for regular maintenance and repair.
- Long service life: Reasonable flow channel and suitable material selection ensure the long service life of the valve.
- Small driving force: The hydraulic balance design, coupled with the guide bar surfacing with copper alloy, ensures that the piston runs more smoothly and reliably.
- Installation is optional: the valve can be installed vertically, horizontally, or suspended, and can also be installed on any side of the pipeline.
- Reliable sealing (common type): The metal valve seat connected with high-performance elastic silicone provides bubble-level sealing effect, and effectively prevents the valve seat from being scratched and prolongs the service life of the valve seat. (Figure A)
- Collision energy dissipation, anti-vibration (multi-nozzle type): The spiral holes are symmetrically distributed along the circumference of the sleeve, so that the water column collides with energy, and the energy disappears completely after the collision, effectively preventing the energy dissipation caused by the high pressure difference. Violent vibration. (Figure B)
- Conical hole design, anti-cavitation (multi-spray hole type): The special conical hole design accelerates the water flow when it flows through the sleeve, so that the cavitation phenomenon occurs in the center of the valve, which effectively prevents cavitation under high pressure difference from affecting the valve parts. damage. (Figure C)



Structural classification and materials:



Part material:

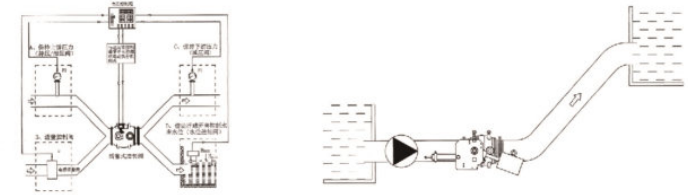
S/N	1	2	3	4	5	6	7	8	9	10	11	12
Name	Body	V-shaped packing	Spindle	Bearings	Hand hole cover	Crank	Piston	Seat	Connecting rod	Drive rod	Drive pin	Backwash casing (optional)
Material	Ductile Iron / Cast Steel	NBR	Stainless steel	Copper alloy	Ductile Iron / Cast Steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel

Selection:

Ordinary type piston control valve is used for working conditions where the differential pressure is small and the medium contains suspended matter. Ordinary type water flow from the axial arc into the valve body, at the outlet to the axis of contraction, due to the collision of cavitation bubbles are confined to the center of the pipe, and completely surrounded by water. Even if these bubbles destabilize and rupture, they are in the center of the pipe instead of the pipe and valve wall, so there is no cavitation rupture.

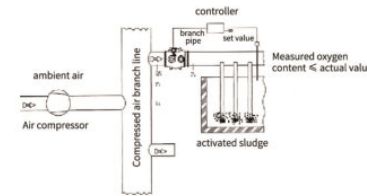
Multi-port type piston control valves are used in applications where high differential pressure and high control accuracy are required. Multi-port type valve seat on the spray hole according to the specific conditions of the design, small holes symmetrically distributed in the The wall of the valve seat, the water flow through the small holes on the centerline of the valve. Radial flow velocity is sharply reduced, forming a small turbulent area in the center of the valve seat, the water inside the violent collision and friction, eliminating most of the energy.

Typical application:

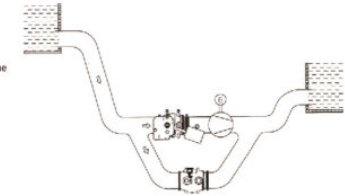


1、 Four types of control

2. Control valve for pump outlet. Open slowly when opening; close quickly 90% of the time, first then slowly close again. The head loss is very small.

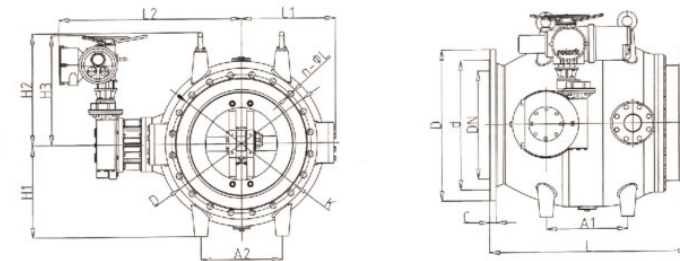


3. Used as the aeration pipeline of active mud discharge pond in sewage treatment plant Air flow control valve.



4. It is used for the inlet opening and closing of hydraulic turbine and bypass system.

Shape:



Connection size:

Nominal size (mm)	200	300	400	500	600	700	800	900	1000	1200	1400	1600	1800	2000		
PN6	L	470	600	700	900	1100	1300	1500	1700	1800	2100	2400	2600	2800	3000	
	A1	180	250	330	400	450	550	650	750	850	900	1050	1200	1300	1500	
	A2	180	250	330	400	450	550	650	750	850	900	1050	1200	1300	1500	
	H1	220	290	375	500	515	600	700	800	850	1000	1200	1300	1450	1600	
	H2	265	420	450	574	585	727	827	932	1000	1115	1320	1420	1580	1730	
	H3	400	557	557	600	615	611	740	740	740	750	750	860	860		
	L1	180	255	325	410	520	640	731	800	900	1011	1100	1250	1500	1700	
	L2	500	628	713	907	1008	1098	1203	1500	1463	1543	1750	1950	2080	2200	
PN6	d	254	363	463	568	667	772	878	978	1078	1295	1510	1710	1918	2125	
	K	280	395	495	600	705	810	920	1020	1120	1340	1560	1760	1970	2180	
	D	320	440	540	645	755	860	975	1075	1175	1405	1630	1830	2045	2265	
	C	20	24.5	24.5	26.5	30	32.5	35	37.5	40	45	46	49	52	55	
PN10	n-φ L	8-19	12-23	16-23	20-23	20-26	24-26	24-31	24-31	28-31	32-34	36-37	40-37	44-40	48-43	
	d	266	370	480	582	682	794	901	1001	1112	1328	1530	1750	1950	2150	
	K	295	400	515	620	725	840	950	1050	1160	1380	1590	1820	2020	2230	
	D	340	445	565	670	780	895	1015	1115	1230	1455	1675	1915	2112	2325	
PN10	C	20	24.5	24.5	26.5	30	32.5	35	37.5	40	45	46	49	52	55	
	n-φ L	8-23	12-23	16-28	20-28	20-31	24-31	24-34	28-34	28-37	32-40	36-43	40-49	44-49	48-49	
	d	266	370	480	609	720	794	901	1001	1112	1328	1530	1750	1950	2150	
	K	295	410	525	650	770	840	950	1050	1170	1390	1590	1820	2020	2230	
PN16	D	340	460	580	715	840	910	1025	1125	1255	1485	1685	1930	2130	2345	
	C	20	24.5	28	31.5	36	39.5	43	46.5	50	57	60	65	70	75	
	n-φ L	12-23	12-28	16-31	20-34	20-37	24-37	24-40	28-40	28-43	32-49	36-49	40-56	44-56	48-62	
	d	274	389	503	609	720	820	928	1028	1140	1350	1560	1780	1980	2210	
PN25	K	310	430	550	660	770	875	990	1090	1210	1420	1640	1860	2070	2300	
	D	360	485	620	730	845	960	1085	1185	1320	1530	1750	1975	2195	2425	
	C	22	27.5	32	36.5	42	46.5	51	55.5	60	69	74	81	88	95	
	n-φ L	12-28	16-31	16-37	20-37	20-40	24-43	24-49	28-49	28-56	32-56	36-62	40-62	44-70	48-70	
PN40	d	285	410	535	615	735	840	960	1070	1180	1380	1600	1815	-	-	
	K	320	450	585	670	795	900	1030	1140	1250	1460	1680	1900	-	-	
	D	375	515	660	755	890	998	1140	1250	1360	1575	1795	2025	-	-	
	C	34	42	50	52	60	64	72	76	80	88	98	108	-	-	
PN40	n-φ L	12-30	16-33	16-39	20-42	20-48	24-48	24-56	28-56	28-56	32-62	36-62	40-70	-	-	

Overview:

The company's JD745X multifunctional water pump control valve, the main use is installed in high-rise building water supply system and other water supply system on the pump outlet pipeline, to prevent the medium The main purpose of the JD745X multifunctional pump control valve is to install in the water pump outlet pipeline of water supply system of high-rise buildings and other water supply systems to prevent the backflow of medium, prevent water hammer and water strike phenomenon, a valve both electric valve, check valve and water hammer firearms three functions, can effectively improve the safety and reliability of water supply system.

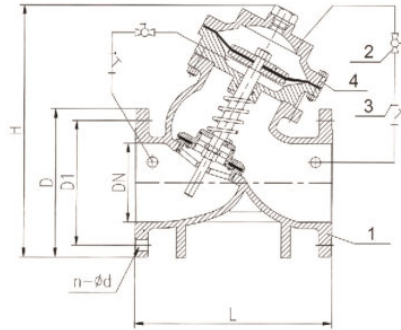
Features:

- The technical principles of slow opening, quick closing and slow closing to eliminate water hammer are integrated to prevent the occurrence of water hammer when the pump is turned on and the pump is stopped.
- Easy to operate. Only need to operate the open and close button of the pump motor, the valve will automatically open and close according to the operation rules of the pump.
- The energy saving effect is good. The valve body adopts a full-channel streamlined DC design, with small pressure loss, large flow, small size and light weight.

Main dimensions:

Nominal size DN	L	H	D			D _i			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	380	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	-	-

Schematic diagram of the structure:



S/N	1	2	3	4
Name	Body	Small ball valve	Small filters	Double chamber diaphragm drive

Main technical parameters:

Nominal pressure PN	Shell test pressure MPa	Seal test pressure MPa	Minimum operating pressure MPa	Slow closing time	Applicable media	Medium temperature(°C)
1.0	1.5	1.1	≥0.04	3 ~ 60 (adjustable)	Water	0 ~ 80
1.6	2.4	1.76				
2.5	3.75	2.75				

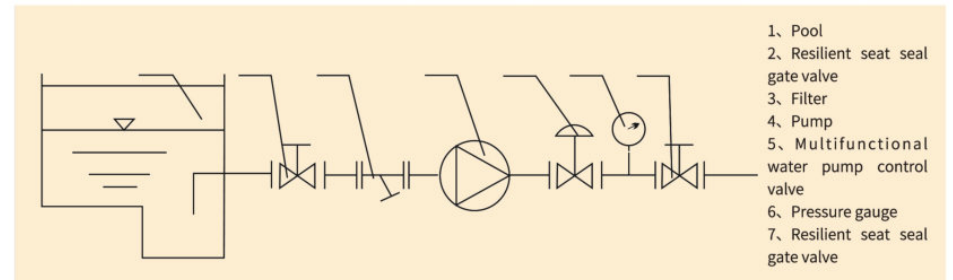
Working principle:

When the pump is turned on, the inlet water pressure acts under the sliding disc, while the inlet water pressure enters under the diaphragm through the small ball valve and small filter on the inlet side, so that the valve opens slowly to prevent water hammer at the pump. When the pump is stopped, the slide disk under the action of self-weight and spring, first quickly close 90% to prevent water backflow, to prevent the production of stopping water hammer, the remaining 10% by the outlet side of the medium through the small ball valve and small filter into the diaphragm above, the closure speed is slowed down to produce a buffer process to prevent pressure build-up, to achieve silent closure.

Installation and adjustment:

- 1, the best way to install is to install on the horizontal pipeline, valve cover facing up.
- 2, the installation should pay attention to the water flow outside the valve body marked arrow, follow the direction of installation.
- 3, before installation to thoroughly remove debris in the pipeline, the pipeline must be thoroughly flushed before the water.
- 4, the pipeline installation should be set up in accordance with the relevant specifications automatic exhaust valve to ensure that no interruption of the water column.
- 5、A gate valve and a filter should be installed in front of the valve, and a gate valve should also be installed after the valve to facilitate maintenance.
- 6, when testing water, slowly open the gate valve in front of the valve, pay attention to whether the control pipeline outside the valve body leaks.
- 7, adjust the small ball valve at the outlet end to get the best closing and opening speed.
- 8, the water filter should be cleaned regularly.

Installation schematic:



Fire fighting gate valve (flange type)
ZSZF4-Q-150-16



● **Product Overview:**

This valve is a rubber (NBR) seal gate valve, widely used in electric power, hydraulic, metallurgical, chemical, urban construction and other industries of the water supply and drainage pipeline system, as a control medium flow opening and closing or regulating device.

● **Product Features:**

Fire gate valve is a new type of connection valve designed and manufactured by our company. It has the advantages of quick installation, simple, safe, not limited by the installation site, easy to maintain the pipeline and valve, vibration isolation, sound insulation and a certain range of angles to overcome the deviation of the coaxial pipeline connection. It has the advantages of solving the thermal expansion and contraction caused by temperature difference.

Fire fighting open stem gate valve (flange type)
ZSZF4-Q-200-16-m



● **Product Overview:**

This valve is a rubber (NBR) seal gate valve, widely used in electric power, hydraulic, metallurgical, chemical, urban construction and other industries of the water supply and drainage pipeline system, as a control medium flow opening and closing or regulating device.

● **Product Features:**

Fire gate valve is a new type of connection valve designed and manufactured by our company. It has the advantages of quick installation, simple, safe, not restricted by the installation site, easy to maintain the pipeline and valve, vibration isolation and sound insulation and a certain range of angles to overcome the deviation of the pipeline connection coaxial. It has the advantages of solving the thermal expansion and contraction caused by temperature difference.

Fire fighting gate valve (groove type)
ZSZF8-Q-200-16



● **Product Overview:**

This valve is a rubber (NBR) sealed gate valve, widely used in power, hydraulic, metallurgical, chemical, urban construction and other industries of the water supply and drainage pipeline system, as a control medium flow opening and closing or regulating device.

● **Product Features:**

Grooved gate valve is a new type of connection valve designed and manufactured by our company. It has the advantages of quick installation, easy, safe, not restricted by the installation site, easy maintenance of the pipeline and valve, vibration isolation and sound insulation and a certain range of angles to overcome the deviation of the pipeline connection coaxial. Solve the advantages of thermal expansion and contraction caused by temperature difference.

Fire fighting open stem gate valve (groove type)
ZSXZF8-Q-100-16



● **Product Overview:**

This valve is a rubber (NBR) seal gate valve, widely used in electric power, hydraulic, metallurgical, chemical, urban construction and other industries of the water supply and drainage pipeline system, as a control medium flow opening and closing or regulating device.

● **Product Features:**

Grooved gate valve is a new type of connection valve designed and manufactured by our company. It has the advantages of quick installation, easy, safe, not restricted by the installation site, easy maintenance of the pipeline and valve, vibration isolation and sound insulation and a certain range of angles to overcome the deviation of the pipeline connection coaxial. Solve the advantages of thermal expansion and contraction caused by temperature difference.

Fire fighting butterfly valve (worm gear butt type)

ZSDF7-Q-150-16-WD



● Product Overview:

This valve is a rubber (NBR) sealed butterfly valve, widely used in electric power, hydraulic, metallurgical, chemical, urban construction and other industries of the water supply and drainage pipeline system, as a control medium flow opening and closing or regulating device.

● Product Features:

It has fast, easy and safe installation without restriction of installation site, easy maintenance of pipeline and valve. It has the advantages of quick and easy installation, safe without restriction of installation site, easy maintenance of pipes and valves, vibration isolation and sound insulation, and overcoming the deviation caused by the coaxial connection of pipes within a certain angle range. Solve the advantages of thermal expansion and contraction caused by temperature difference.

Fire fighting butterfly valve (worm gear groove type)

ZSDF8-Q-150-16-WG



● Product Overview:

This valve is a rubber (NBR) sealed butterfly valve, widely used in electric power, hydraulic, metallurgical, chemical, urban construction and other industries of the water supply and drainage pipeline system, as a control medium flow opening and closing or regulating device.

● Product Features:

It has fast, easy and safe installation without restriction of installation site, easy maintenance of pipeline and valve. It has the advantages of quick and easy installation, safe without restriction of installation site, easy maintenance of pipes and valves, vibration isolation and sound insulation, and overcoming the deviation caused by the coaxial connection of pipes within a certain angle range. Solve the advantages of thermal expansion and contraction caused by temperature difference.

Fire fighting butterfly valve (handle butt type)

ZSDF7-Q-150-16-SD



● Product Overview:

This valve is a rubber (NBR) sealed butterfly valve, widely used in electric power, hydraulic, metallurgical, chemical, urban construction and other industries of the water supply and drainage pipeline system, as a control medium flow opening and closing or regulating device.

● Product Features:

It has fast, easy and safe installation without restriction of installation site, easy maintenance of pipeline and valve. Maintenance, vibration isolation and sound insulation with a certain range of angles to overcome the deviation caused by the coaxial connection of the pipeline. Solve Temperature difference generated by thermal expansion and contraction and other advantages.

Fire fighting butterfly valve (handle groove type)

ZSDF8-Q-150-16-SG



● Product Overview:

This valve is a rubber (NBR) sealed butterfly valve, widely used in electric power, hydraulic, metallurgical, chemical, urban construction and other industries of the water supply and drainage pipeline system, as a control medium flow opening and closing or regulating device.

● Product Features:

It has fast, easy and safe installation without restriction of installation site, easy maintenance of pipeline and valve. Maintenance, vibration isolation and sound insulation with a certain range of angles to overcome the deviation caused by the coaxial connection of the pipeline. Solve Temperature difference generated by thermal expansion and contraction and other advantages.

100X-16 Groove remote control floating ball valve



● Product Overview:

Trench remote control float valve is mainly installed in the inlet of the pool or water tower, when the water level reaches the set height, the main valve is controlled by a float guide valve to close the inlet to stop water supply, when the water level drops the main valve is controlled by the float guide valve switch to open the inlet to the pool or water tower water supply, to achieve automatic drainage. 100 trench remote control float valve level control precision, not subject to water pressure interference, can pay attention to the installation of the bit, sealing performance Reliable, easy installation, maintenance, debugging, inspection, and long service life. Groove remote control float valve is used for automatic water supply system of water tanks, pools and water towers in industrial and mining, enterprises and high-rise buildings, or as a valve for circulating water supply of atmospheric pressure boilers.

● Product Features:

- ①Close tightly and reliably. Adopting firm O-ring seal, using Hydraulic control principle makes the valve disc closing force proportional to the inlet water pressure, with high sealing reliability.
- ②High flow rate. The valve body adopts full-channel streamline DC type design. The liquid resistance is small and the flow rate is large.
- ③Operating safety. Using hydraulic operation, the liquid level of water tower or pool can be controlled automatically with high accuracy of liquid level control.
- ④ Easy to use and maintain. The main valve is installed outside the pool, easy to debug and check, and simple to maintain.

200X-16 Groove pressure reducing valve



● Product Overview:

It mainly controls the fixed outlet pressure of the main valve and is suitable for industrial water supply and drainage, fire water supply and production water network system.

● Product Features:

The main valve outlet pressure does not change due to changes in inlet pressure, nor does it change its outlet pressure due to changes in the main valve outlet flow.

300X-16 Groove slow-closing check valve



● Product Overview:

The product is designed for high-rise and super high-rise buildings, used to solve the system of high-rise building domestic water and fire fighting water, requiring high flow sensitivity, small flow resistance, good check density effect, and requiring no water hammer occasions. The product has reasonable design, long service life and other characteristics. The valve both electric valve, check valve and water hammer eliminator three functions, can effectively improve the safety and reliability of the water supply system, and the slow opening, quick closing, slow closing to eliminate the technical principle of water hammer integration, to prevent the on-pump water hammer and stop pump water hammer generation, only need to operate the pump electric pump, the valve can automatically achieve opening and closing in accordance with the pump operating procedures, the valve flow, pressure loss is small, reliable sealing performance, installation and maintenance, commissioning and inspection is convenient, long service life. The valve has high flow rate, low pressure loss, reliable sealing performance, easy installation and maintenance, commissioning and inspection, and long service life.

● Product Features:

- 1, novel structure, reasonable use of hydraulic principle cybernetics.
- 2, smooth and reliable work, large flow.
- 3, valve flap fast opening and slow closing, no water hammer impact, adjustable closing time.
- 4, good check sealing effect, long service life.
- 5, easy to install and maintain.

500X-16 Groove slow relief valve



● Product Overview:

The 500X type groove relief valve can effectively release the pressure in the pipeline that exceeds the The pressure relief of the safety setting of the pilot valve is released to prevent damage to pipelines and equipment due to over-pressure. The valve is mainly used for pressure relief of fire test circulation system in high-rise buildings to prevent system failure caused by high water pressure. It can maintain the water supply pressure upstream of the main valve above a certain set value to ensure the pressure of the water supply area upstream of the main valve.

● Product Features:

- 1, The valve body adopts full-channel, streamlined design, low fluid resistance and high flow rate.
- 2, body cover, piston cylinder connection by the gasket and sealing ring double sealing, no external leakage.
- 3, the valve body, piston cylinder, piston double guidance, smooth and reliable action.
- 4, removable valve seat, ingenious structure, novel idea, convenient maintenance and replacement.
- 5, The piston cylinder with guide hole, properly increase the damping, make the piston movement more smooth.

600X-16 trench hydraulic electric control valve



● Product Overview:

Installed in the pipeline, used to cut off and open the use. Can be used as a remote control to open or close the function. It can replace the gate valve or butterfly valve used to open and close the large electric operator and is easy to maintain.

106X-16 trench hydraulic electric floating ball valve



● Product Overview:

BG106X-10/16 hydropower electric float valve consists of diaphragm type main valve, angular needle valve, ball valve, conduit and solenoid valve, float controller, etc. This valve is installed on the basis of remote control float valve with normally open (closed) type solenoid valve electric control device, so that the electric float valve has a double insurance role. The electric float valve can be set to open and close the water level (height adjustable within 1000mm), solving the shortcomings of frequent opening and closing of the main valve, can be widely used for automatic control of water level in various types of water storage devices (such as pools, water towers, water tanks, etc.) in the fields of industry and mining, construction, fire fighting, etc.

H81X-16 groove anechoic check valve



● Product Overview:

The trench type anechoic check valve is suitable for fire protection pipeline of water supply and drainage pipeline, the valve body is made of ductile iron, which greatly prolongs the service life of the product, the product has various advantages of flange type anechoic check valve and also has the characteristics of small volume, light weight, easy installation and low engineering cost.

Grooved rubber flap check valve



● Product Overview:

Rubber flap check valve is mainly suitable for horizontal installation of water supply and drainage system, can be installed at the pump outlet to prevent backflow and water hammer damage to the pump, and can also be installed on the bypass pipe of the inlet and outlet pipes of the reservoir to prevent backflow of pool water into the water supply system.

● Product Features:

The rubber flap in the valve is made of steel plate, steel rod and reinforced nylon fabric as the backing and outer layer covered with rubber, the valve Flap switch life of up to 1 million times, H84X (SFCV) series rubber flap check valve using full flow area Design, with small head loss, not easy to accumulate debris, easy maintenance and other characteristics

GL83H-16 groove filter



● Product Overview:

The products are widely used in petroleum, chemical industry, water vapor, metallurgy, heating, fire supply and drainage, etc. to play a role in filtering impurities in the pipeline, and can be used according to the user's requirements of the filter medium with different filters (20 mesh-80 mesh).

● Product Features:

Grooved filter, large filtering area, small flow resistance coefficient, non-toxic powder epoxy resin spray paint inside and outside the valve body, so that water quality does not appear to be lack of water and corrosion of the valve body, the filter mesh is made of stainless steel, in the process of use, there will be no rusting of the filter mesh and reduce the filtering area.

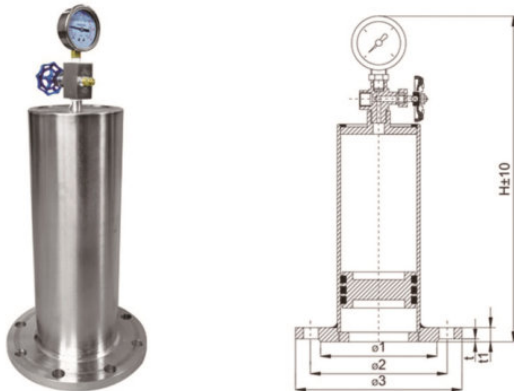
8000 type water hammer absorber



● Product Overview:

8000 type airbag water hammer absorber, is a device used to eliminate the water hammer impact degree in the pipeline caused by a variety of reasons, to protect the pipeline and equipment from damage. It can make instant water hammer Make fast and effective shock-absorbing effect, so that the pipeline system to eliminate the irregular water hammer shock, without stopping the flow of water and flow. The device has a simple structure, well-chosen materials and long service life. Suitable for industrial and mining, enterprises, high-rise buildings, power stations and other kinds of water supply and drainage systems. Suitable for high-rise building life water supply, fire-fighting water supply, pools, tanks and municipal, industrial, etc., air chamber Pressure (percentage of pipe pressure): 50-70%, applicable medium: clear water without debris, sewage, applicable temperature: 0-80°C.

Model 9000 Water Hammer Absorber



● Product Overview:

The 9000 type piston water hammer absorber has a closed air chamber inside, and the lower end is a piston. When the shock wave is introduced into the water hammer absorber, the water hammer acts on the piston, the piston will move in the direction of the air chamber, and the piston moves up and down under the dual action of a certain pressure of gas and irregular water hammer, forming a dynamic balance, thus eliminating irregular water hammer shocks. Using the expansion and contraction of the air in the upper chamber of the piston, the sudden impact is buffered and the force is relieved, and the equipment damage caused by the huge water hammer impact is avoided to the greatest extent.

Flange/Groove Ultrasonic Flow Meter



XFS flange ultrasonic flowmeter

XF groove ultrasonic flowmeter

● Product Overview:

The ultrasonic flowmeter is developed based on the ultrasonic measurement of the propagation velocity difference method. It transmits an ultrasonic signal to the fluid through the sensor, and then receives the ultrasonic signal after it is affected by the fluid flow and detects the result for flow measurement. The instrument integrates measurement, accumulation and display. It adopts micro-power consumption technology and can achieve accurate measurement of minimum flow rate of 0.006m³/h (adjustable by software). At the same time, the instrument has the characteristics of small size, good stability and strong anti-interference ability.

Ultrasonic technology can realize multi-angle installation, the instrument measurement is not affected, and the pressure loss of the pipeline is minimized.

This product complies with the national standard of the People's Republic of China C/T3063-1997 "Ultrasonic Flowmeter for Water Supply and Drainage".

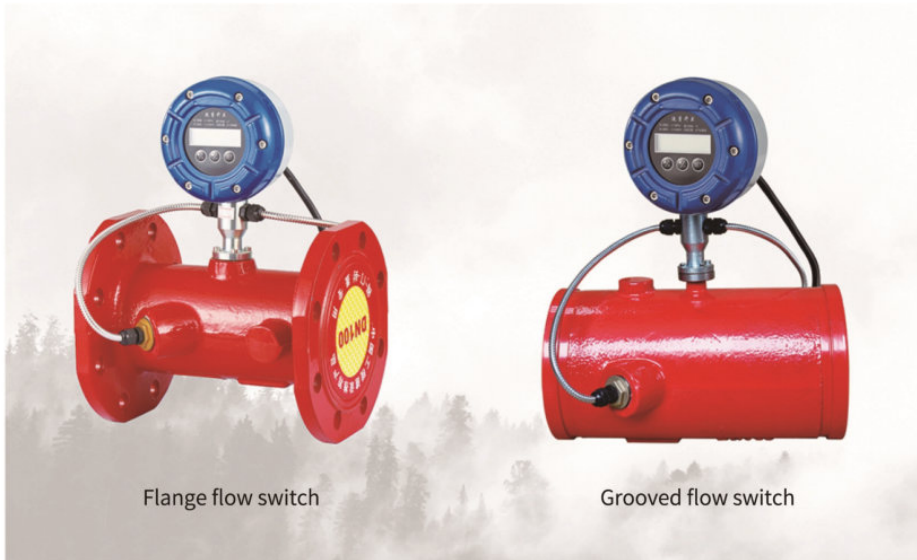
● Arbeitsweise

Use the ultrasonic transducer to send and receive ultrasonic waves in the downstream and countercurrent media to measure the flow velocity of the medium. The ultrasonic speed in the downstream direction increases and the ultrasonic speed in the countercurrent direction decreases, so the same propagation distance will be different. According to this time difference, the flow rate is obtained, and then the flow rate is calculated by the flow rate.

● Product Features:

- ◆Micro power consumption/low start-up/high stability, can be used for water metering in various applicable occasions to meet the needs of water supply;
- ◆Enterprise's precise measurement and settlement requirements for end users;
- ◆Low starting flow, accurate measurement of minimum flow 0.006m³/h (software adjustable);
- ◆No mechanical moving parts, no wear, long service life;
- ◆The instrument is small in size, high in stability and strong in anti-interference ability;
- ◆Using ultrasonic flow measurement technology, which can realize multi-angle installation, the instrument measurement is not affected, and the pipeline pressure is reduced to a minimum;
- ◆Support MODBUS protocol, which can realize remote meter reading, which is convenient for users to manage centrally.

Flange/Groove Flow Switch



Flange flow switch

Grooved flow switch

● Product Overview:

The special flow switch for fire water adopts the speed difference method, which is designed for urban water supply pipelines, fire protection, and household metering meters. It solves the problems of high initial flow and small flow of traditional flow meters. It is suitable for a variety of industrial sites.

When used as a flow switch, the alarm flow signal can be set at will through the data communication interface. When the flow rate of the flowmeter is greater than the set flow rate value, an open signal will be output to turn on the motor power switch to achieve the purpose of starting the pump. When the flow rate is less than the set flow rate value, an off signal will be output to turn off the motor power to achieve the purpose of turning off the pump. Using ultrasonic flow measurement technology, diameter pipe body design, no pressure loss, no mechanical rotating parts, reducing the cost of water supply for enterprises. High reliability, measurement is not disturbed by magnets.

With a variety of output functions, it can be connected with wireless transmission to form a monitoring system to monitor the operation of the instrument and the operation of the pipe network. The special flow switch for fire water reserves a pressure sensor detection interface, which can also achieve the function of starting and stopping the pump when the pressure changes.

● Structural Principles

Fire flow switch, based on the thermal principle, contains two resistances in the closed probe, one of which is heated as a detection resistance, and the other is not heated as a reference resistance. When the medium flows, the flow on the heating resistance is taken away, The resistance value is changed, and the difference between the two resistances is used as the basis for judging the flow rate.

● Product Features:

No moving parts, maintenance-free, easy installation, one model is suitable for various pipe diameter requirements. The switching value is continuously adjustable, the pressure loss is extremely low, and the structure is compact. LEDs show flow trends and switching status. It is suitable for pipe diameter DN50~DN100, and the length of the probe rod is determined according to the pipe diameter.

Pressure switch

● Product Overview:

According to the "Technical Specifications for Fire Water Supply and Fire Hydrant System" GB50974-2014 Standard 1.0.4, a flow switch or pressure switch signal should be set on the outlet pipe of the high-level fire water tank to directly start the fire pump. Often due to the loss of weak current signal, the reliability of the system's start-up pump is affected. Therefore, the necessity of starting the fire pump by the button of the fire hydrant box is low, and the investment of the fire hydrant button to start the pump is relatively large, so the fire hydrant button should not be used as a direct pump start signal, but only as an alarm signal.

A flow switch is installed on the outlet pipe of the high-level water tank, and the digital flow rate and flow meter are displayed on the device control panel. When the set flow rate is exceeded, it will be used as a signal to start the pump. The pressure switch is also installed on the device control panel. The digital display of real-time pressure (The natural static pressure of the water tank and the water pressure of the stabilized pump) When the pressure of the high-level water tank and the static pressure stabilized pump cannot support the large flow of water in the fire alarm, the pressure drops suddenly. When it drops to the set pressure, it is used as a reliable signal to directly start the fire pump. .



YL/YG fire pressure switch

YQFX-16P Swirl preventer



● Product Features:

1. The swirl preventer is designed and manufactured in accordance with the EU standard EN12845. The low submerged depth can reach 100mm without generating swirl, which greatly improves the effective utilization of the pool.
2. Effectively eliminate the swirling flow generated by the water tank (pool) during the water suction process.
3. Prevent the air from entering the water pump due to the swirl flow, realize the high-efficiency water delivery of the water pump, and avoid the water pump from being damaged due to cavitation.
4. The structure of the swirl preventer is simple and strong, which realizes economical installation and maintenance-free.
5. The material of the swirl preventer is high-quality austenitic stainless steel 06Cr19Ni10 (304), which has strong corrosion resistance and long service life.
6. Meet the hygiene requirements of GB/T 17219.
7. The cyclone preventer can be optionally equipped with a filter screen.

● Product Overview:

The swirl preventer is a special pipe used to prevent the water tank (pool) from generating swirl when transporting liquid and to prevent air from entering the pipeline. Its function is to install it on the suction pipe port of the water tank (pool) pump to eliminate the swirling flow in the water tank (pool) to ensure that the pump can always start and work normally, avoid air entering the pump and cause cavitation, which can make the water tank The liquid level of the transported liquid in the (pool) is lowered to a lower level to ensure a large flow of transport. The design and manufacture of this product are strictly in accordance with the requirements of the European Union standard EN12845, and its performance meets the requirements of GB50974-2014 "Technical Specifications for Fire Water Supply and Hydrant Systems".

It is suitable for chemical, energy, water engineering and other fields, especially used in fire-fighting water pools (boxes), which can ensure that the effective volume is fully utilized, improve the effective utilization of fire-fighting pools, reduce dead water areas, and achieve land-saving requirements. During rescue, fire water can be used to the maximum extent.