



## 上海东宝阀门制造有限公司

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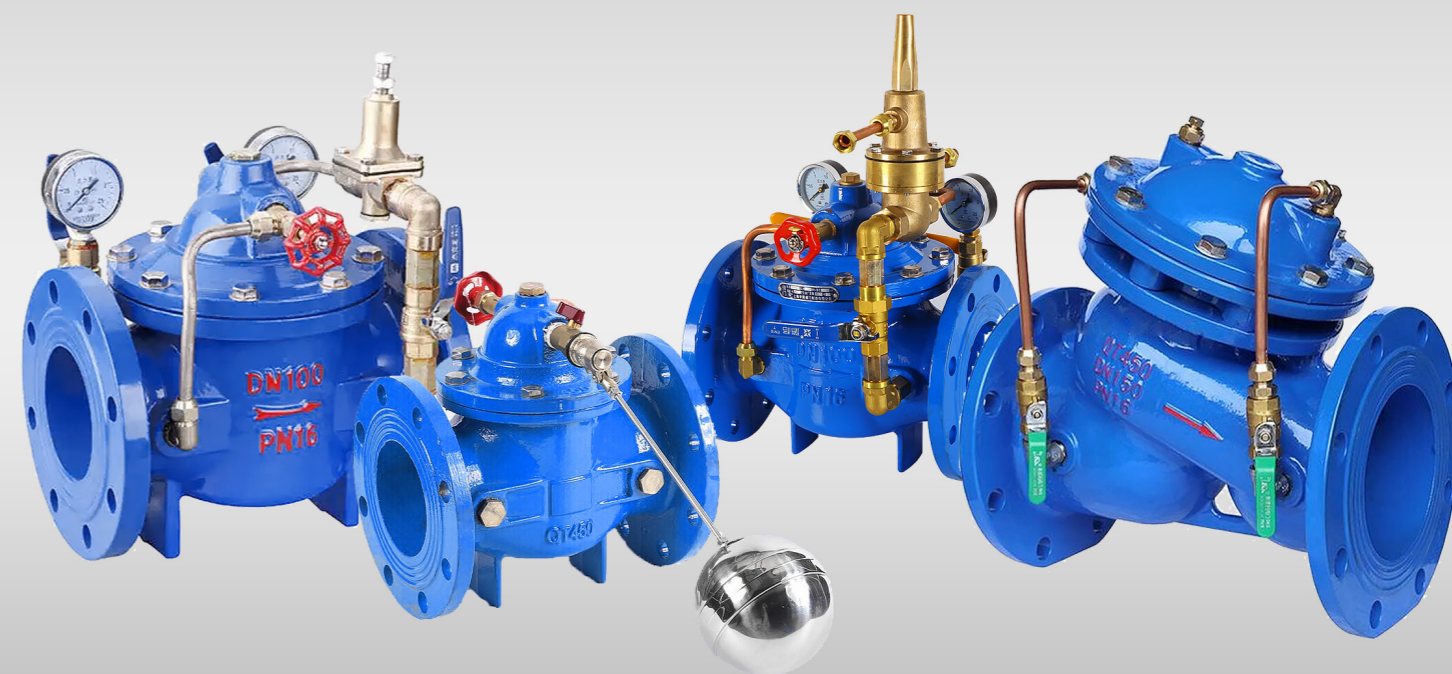
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## Water control valve series 水利控制阀系列

上海东宝阀门制造有限公司

# 企业概述

## Company Introduction

DBV company was founded in 2001, the headquarters is located in the Shanghai qingpu crane industrial park. Is the collection of various intelligent control valve, pneumatic, electric and hydraulic control butterfly valve, ball valve)/rubber lining fluorine valve industrial valves, such as manufacturing, sales and service in a body's modernized enterprise. Company now has advanced physical and chemical testing center, professional CNC machining and testing pressure automatic production equipment and experienced technical production team. Factory comprehensive controls with strict ISO quality standard system, to ensure product quality.

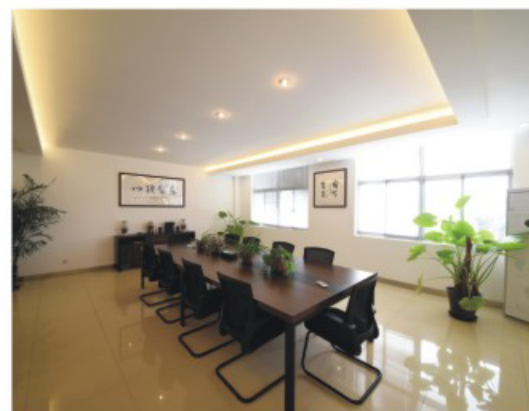
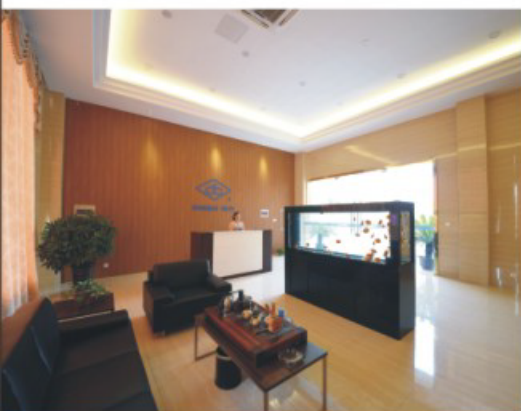
DBV company has products processing, manufacturing all the swarf lining equipment, hot working equipment and product performance testing equipment. Our main products are fluorine-butterfly butterfly valve, fluorine-butterfly valves, fluorine-butterfly plug valve, diaphragm valve lining fluorine, fluorine-butterfly cut-off valve, fluorine-butterfly gate, fluorine-butterfly check valve, pipe and all kinds of engineering plastics and other kinds of lining fluorine valve. At present, the company production of rubber lining, fluorine-butterfly valves and engineering plastic valve products, about ten classes, about more than 1120 specifications, drive mode of manual, pneumatic, electric, worm gear, gear transmission, hydraulic, design and manufacture of products accord with GB, JB, ANSI, API, BS, DIN and other standards at home and abroad, the product is applied to all kinds of strong corrosive medium industrial piping system for opening and closing device. Products by many chemical industry, medicine, chemical fertilizers and other devices to use, reliable performance, favored by users.

DBV company always adhere to the implementation of "customer first, adherence to quality, technology innovation" business philosophy, the core of efforts to develop cutting-edge technology, providing customers with sustainable solutions and product collaborative service support, to ensure that effectively ensure the economic interests of the users. DBV company has the potential to develop more high-end products, and full engagement continuous technology innovation and high quality services, is committed to become the world's most professional, most comprehensive, the most reliable rubber lining, fluorine-butterfly valves are one of the manufacturers.

DBV公司成立于2001年，总部位于上海市青浦区白鹤工业园区。是集各种智能控制阀门（气动、电动、液控调节蝶阀、球阀）衬氟/衬胶阀门等工业阀门的制造、销售、服务于一体的现代化企业。公司现拥有先进的理化测试中心，专业数控加工和试验试压自动化生产装备及经验丰富的技术生产团队。工厂全方位实行以ISO质量标准体系严格控制，以确保产品质量。

DBV公司具有产品加工、制造所需的全部金属切屑设备、衬里热加工设备及产品性能检测设备。公司主要产品有衬氟蝶阀、衬氟球阀、衬氟旋塞阀、衬氟隔膜阀、衬氟截止阀、衬氟闸阀、衬氟止回阀、等各类衬氟管道和各类工程塑料阀门。目前公司生产的衬胶，衬氟阀门及工程塑料阀门产品约有十个压力等级，约1120余个型号规格，驱动方式有手动、气动、电动、蜗轮传动、齿轮传动、液动，产品设计与制造符合GB、JB以及ANSI、API、BS、DIN等国内外标准，产品应用于各类具有强腐蚀性介质的工业管路系统中做启闭装置。产品经众多化工、医药、化肥等行业装置的使用，性能可靠，深受用户青睐。

DBV公司始终坚持实施“客户至上、严守质量、技术创新”的经营理念，努力研发最前沿的核心自主技术，为客户提供可持续的产品解决方案和协同服务支持，以确保用户的经济利益得到有效保障。DBV公司具有开发更高端产品的无限潜力，并全情投入不断的科技创新与优质服务，致力成为全球最专业，最全面，最可靠的衬胶，衬氟阀门制造商之一。





生产装备  
Production Equipment



## 自主研发 持续发展

RESEARCH AND DEVELOP INDEPENDENTLY AND  
SUSTAINED INNOVATION

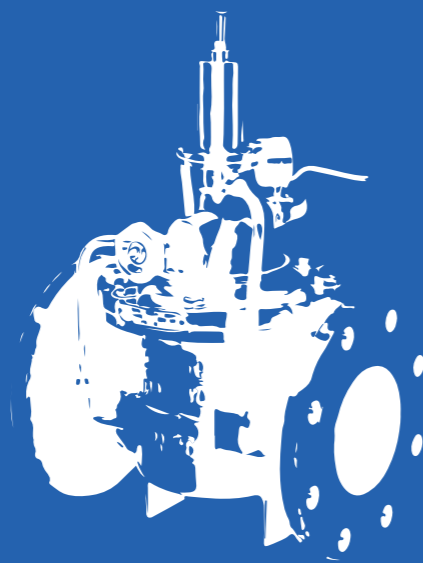


## 精湛工艺 全程打造 FINE WORKMANSHIP

为了精益求精，东宝执行严谨、科学的生产加工流程。我们用心于每一个部件，每一台机器的构造设计与加工工艺。严格的检测才能保证产品质量，因此，东宝的专家们用最新金的检测设备与最科学的检测方法把控每一道生产环节。

In order to strive for perfection, east perform strict and scientific production and processing process. We pay attention to every part, every machine structure design and processing technology. Strict testing to ensure product quality, therefore, the experts of the east treasure with the latest gold detection equipment and the most scientific methods to control each production link.





**DBV**

上海东宝阀门制造有限公司

Water control valve series

## DB100X Floating Ball Control Valve Instruction



DB100x Floating Ball Controlling Valve Instruction

Product Instruction

This kind of valve is designed and manufactured by our engineer with reference to the same type products domestic and overseas .Body design adopt to full port streamlined .Small Fluid resistance large flow, good sealing effect .As equipped with a catheter on the main valve, using water power ,Can control the water tower or liquid Surface of pool automatically,easy maintenance,Flexible and durable,high accuracy liquid level control,Water level without hydraulicInterference and tight shutoff no leaking,welcome to purchase

Structure

The valve consists of the main valve, needle valve, ball valve, float ing ball valve and micro filter ,as the figure below :

- 1、 Body

2、 Nut

3、 Sealing Ring

4、 Disc

5、 Stem

6、 Diaphragm Press Plate

7、 Diaphragm

8、 Bolt
- 9、 Bonnet

10、 Floating ball valve

11、 Nut

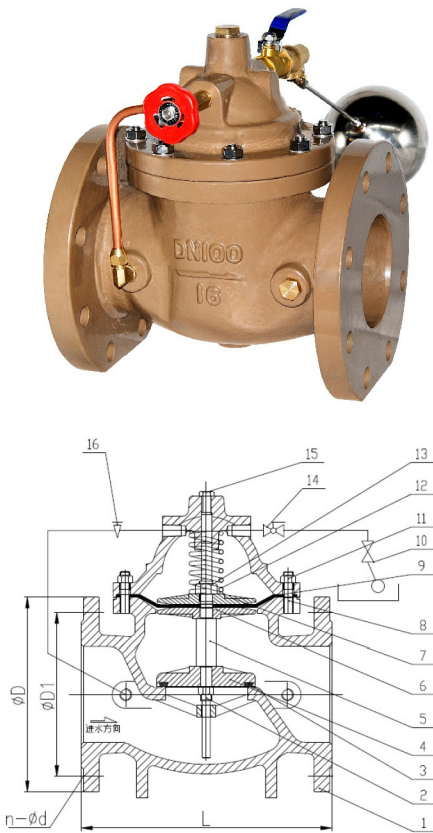
12、 Nut

13、 Spring

14、 ball valve

15、 Chock plug

16、 Needle adjustment valve



Main Connection Dimensions													
Size in	L	Main dimension											
		Table 15 Flanfe details				1.0MPa		1.6MPa		2.5MPa			
mm		OD	BC	n-d	D	D1	n-d	D	D1	n-d	D	D1	n-d
2"	200				165	125	4-18	165	125	4-18	165	125	4-18
5/2"	220				185	145	4-18	185	145	4-18	185	145	8-18
3"	230	7.50	6.00	3/4-4	200	160	8-18	200	160	8-18	200	160	8-18
4"	270	9.00	170	3/4-8	220	180	8-18	220	180	8-18	235	190	8-22
5"	295				250	210	8-18	250	210	8-18	270	220	8-26
6"	330	11.0	225	7/8-8	285	240	8-22	285	240	8-22	300	250	8-26
8"	385	13.5	280	7/8-8	340	295	8-22	340	295	12-22	360	310	12-26
10"	465	16.00	335	1-12	395	350	12-22	405	355	12-26	425	370	12-30
12"	545	19.00	395	1-12	445	400	12-22	460	410	12-26	485	430	16-30
14"	610	21.00	445	9/8-12	505	460	16-22	520	470	16-26	555	490	16-33
16"	650	23.50	495	9/8-16	565	515	16-26	580	525	16-30	620	550	16-36
18"	730	25.00	550	5/4-16	615	565	20-26	640	585	20-30	670	600	20-36
20"	800	27.50	600	5/4/-16	670	620	20-26	715	650	20-33	730	660	20-36
24"	920	32.00	705	11/8-20	780	725	20-30	840	770	20-36	845	770	20-39

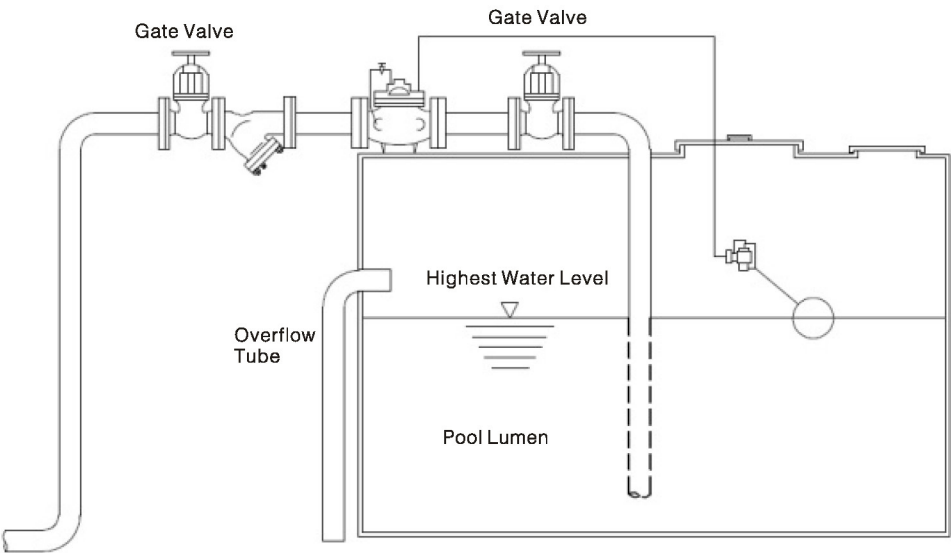
DB100x Floating Ball Controlling Valve Instruction

Working principle

When the pipeline supply water from the inlet of valve, due to the needle valve15, ball valve14, floating ball valve10 is normally open, so the medium through needle valve15 into the bonnet control room, and through the ball valve14 and floating ball valve10 flow into the water tank ,control room can not form pressure, the inlet pressure act below the main plate will lift the main plate to open main valve supply a large number of water, when tank water level is rising, float floating ball after10 seconds floating ball valve is closed, water in bonnet control room will gradually increased pressure value to let the main valve closed, which have played an important role in automatic remote control.

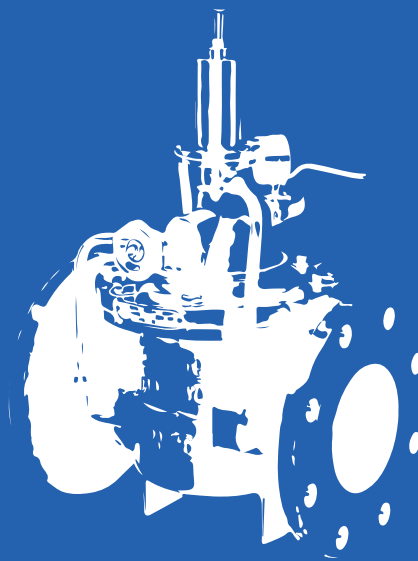
Installation and Maintenance

- The main valve installed on the the inlet tube of tank or the high water tower,he best installation way of the main valve is horizontal installation, bonnet up, other installation method can reach the use function,
- thoroughly remove the clutter of pipe before installation . Pay attention to the main valve body outer flow labeled arrows, should follow the direction installation.
- Before the main valve need to install a gate valve and a filter, after the main valve also need to install a gate valve, in order to maintenance.
- When testing the waters, need to open the ball valve on the main valve bonnet ,then open the gate valve in front of the main valve,at this moment main valve should supply water to tank normally,closed the ball valve,main valve closed following.If couldn't close ,There are dirt under the main valve,have a try after removing the dirt.When main valve supplying water ,floating ball pilot valve running water at the same time ,If use hand carry floating ball, floating ball valve closed, The main valve is closed following ,proved floating ball valve is good.
- Floating ball valve install on the main valve,in order to factory packing convenient, actual installation as shown
- The micro filter on main valve pipe inlet need to wash a 2-3 times per months



Instruction

This kind of installation method, suitable for any size valve, convenient for maintenance.



**DBV**

上海东宝阀门制造有限公司

Water control valve series

## DB200X Pressre Reducing Valve



DB200X Pressure Reducing Valve

Product Instruction

This kind of valve is designed and manufactured by our engineer with reference to the same type products domestic and overseas .Body design adopt to full port streamlined .Small Fluid resistance large flow, good sealing effect .As equipped with a catheter on the main valve, using water power ,Can control the water tower or liquid surface of pool automatically,easy maintenance,Flexible and durable,high accuracy liquid level control,Water level without hydraulic interference and tight shutoff no leaking,welcome to purchase

Structure

The valve consists of the main valve, pilot valve, needle valve, ball valve, micro filter ,pressure gauge, etc.Due to the pilot valve, needle valve and pressure gauge need to connected the main valve with a catheter , so collectively called catheter control system, as the figure below

- 1、 Body

2、 Nut

3、 Sealing Ring

4、 Disc

5、 Stem

6、 Diaphragm Press Plate

7、 Diaphragm

8、 Bolt

9、 Bonnet

10、 Nut
- 11、 Nut

12、 Spring

13、 Pressure gauge

14、 Ball valve

15、 Needle valve

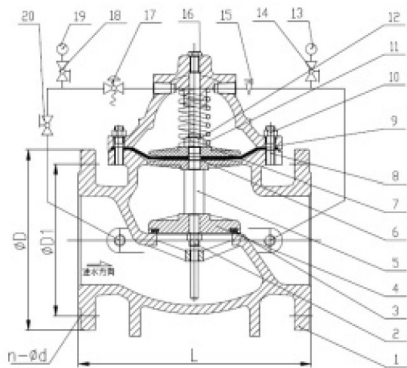
16、 Chock plug

17、 Pilot valve

18、 Ball Valve

19、 Pressure gauge

20、 Ball valve



Main Connection Dimensions													
DN	Length	Main dimension											
		0.6MPa				1.0MPa				1.6MPa			
mm	L	D	D1	n-d	D	D1	n-d	D	D1	n-d	D	D1	n-d
50	200	140	110	4-14	165	125	4-18	165	125	4-18	165	125	4-18
65	220	160	130	4-14	185	145	4-18	185	145	4-18	185	145	8-18
80	230	190	150	4-18	200	160	8-18	200	160	8-18	200	160	8-18
100	265	210	170	4-18	220	180	8-18	220	180	8-18	235	190	8-22
125	295	240	200	8-18	250	210	8-18	250	210	8-18	270	220	8-26
150	335	265	225	8-18	285	240	8-22	285	240	8-22	300	250	8-26
200	385	320	280	8-18	340	295	8-22	340	295	12-22	360	310	12-26
250	465	375	335	12-18	395	350	12-22	405	355	12-26	425	370	12-30
300	545	440	395	12-22	445	400	12-22	460	410	12-26	485	430	16-30
350	610	490	445	12-22	505	460	16-22	520	470	16-26	555	490	16-33
400	650	540	495	16-22	565	515	16-26	580	525	16-30	620	550	16-36
450	730	595	550	16-22	615	565	20-26	640	585	20-30	670	600	20-36
500	800	645	600	20-22	670	620	20-26	715	650	20-33	730	660	20-36
600	920	755	705	20-26	780	725	20-30	840	770	20-36	845	770	20-39

DB200X Pressure Reducing Valve

Working principle

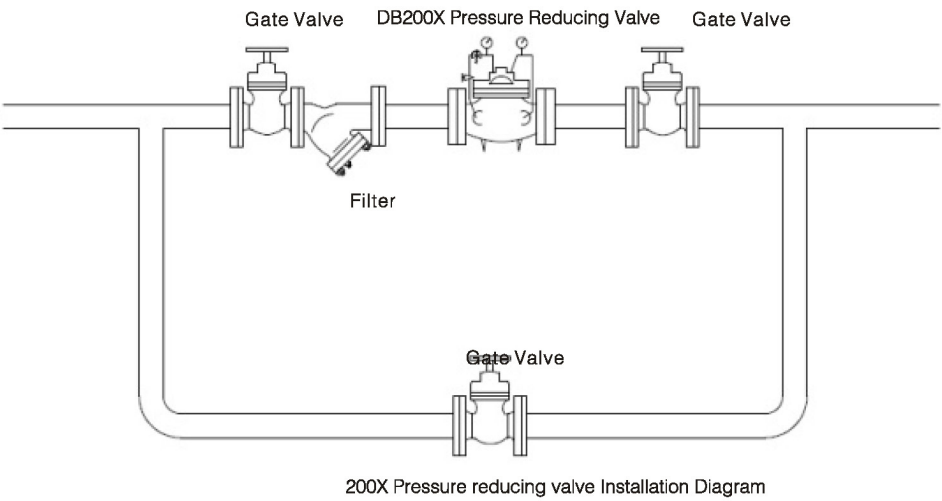
Inlet pressure P1 through catheter and needle valve 15 (see chart) into the control room of the main valve, and establish the downward pressure F3. Outlet pressure P2 can interact through the catheter under 17 of the pilot valve diaphragm and confrontation with the adjustment of the pilot valve spring first. When the downstream pressure exceeds pilot valve spring set value, the pilot valve closed, the control of indoor water excretion is 0, variable pressure reach maximum F3, the main valve plate press the seat valve ,pressure valve closed. When the downstream pressure is less than the pilot valve spring set value, the pilot valve open, control of indoor water will be through the pilot valve17 , ball valve20 exhaust to downstream. Because of the small opening of needle valve (1/4- 1/2), and inlet duct diameter is smaller than outlet duct diameter , so the discharge speed is greater than the inlet pressure filling water rate, the F3 is reduced, the inlet pressureP1 act below the main valve plate15 will lift the main valve plate ,so as to open the pressure valve. In stabilization state, excretion is equal to the filling water flow, the main valve mouth opening unchanged, downstream pressure stability.

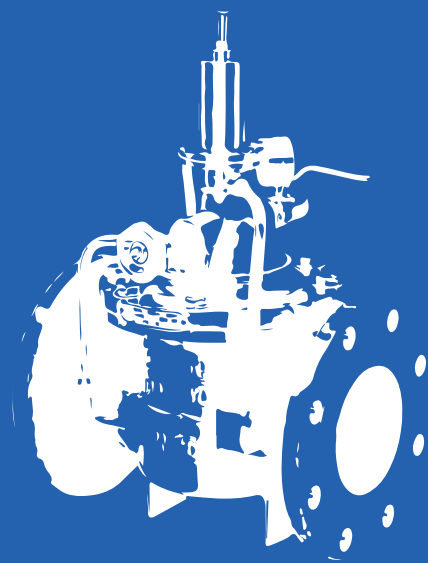
Main technical date sheet

PN	1.0MPa	1.6MPa	2.5MPa
Body test pressure	1.5MPa	2.4MPa	3.75MPa
Sealing test pressure	1.1MPa	1.76MPa	2.75MPa
Max inlet pressure	1.0MPa	1.6MPa	2.5MPa
Outlet Pressure adjustable range	0.090.8MPa	0.101.2MPa	0.151.6MPa
Suitable Temperature	0℃-80℃		
Suitable Medium	Water		

Installation And Adjustment

- The best installation way of the main valve is horizontal installation, bonnet up, other installation method can reach the use function, thoroughly remove the clutter of pipe before installation . Pay attention to the main valve body outer flow labeled arrows, should follow the direction installation. After installation shall ensure that no pipe stress on the valve body and valve internal parts.
  - Before the main valve need to install a gate valve and a filter, after the main valve also need to install a gate valve, in order to maintenance. The micro filter need to regular cleaning.
  - Must be flushed pipeline thoroughly before water supply.
  - The important water supply management should install by-pass valve.
- Adjustment method
- Close the isolation valve upstream, open the downstream isolation pressure relief valve , the downstream pressure drops below 0.1 MPa, close the downstream isolation valve .
  - The pilot valve adjusting screw to the top position;
  - Open upstream isolation valve slowly to fully open;
  - Tighten the pilot valve adjusting screw down slowly, outlet pressure will gradually rise, until the set value will be the adjusting screw locking;
  - If the regulating overdo, must start from the first step to adjust, namely only regulate pressure from low to high.





**DBV**

上海东宝阀门制造有限公司

Water control valve series

## DB300X The Buffer Slowly-closing Check Valve Instruction



DB300X The Buffer Slowly-closing Check Valve Instruction

Product Instruction

This kind of valve is designed and manufactured by our engineer with reference to the same type products domestic and overseas .Body design adopt to full port streamlined .Small Fluid resistance large flow, good sealing effect .As equipped with a catheter on the main valve, using water power ,Can control the water tower or liquid surface of pool automatically,easy maintenance,Flexible and durable,high accuracy liquid level control,Water level without hydraulic interference and tight shutoff no leaking,welcome to purchase

Structure

The valve consists of the main valve, pilot valve, needle valve, ball valve, micro filter ,pressure gauge, etc,Due to the pilot valve, needle valve, ball valve and pressure gauge need to be connected the main valve with a catheter , so collectively called catheter control system, as the figure below :

- 1、 Body

2、 Nut

3、 Sealing Ring

4、 Disc

5、 Stem

6、 Diaphragm Press Plate

7、 Diaphragm

8、 Bolt

9、 Bonnet
- 10、 Nut

11、 Nut

12、 Spring

13、 Needle valve

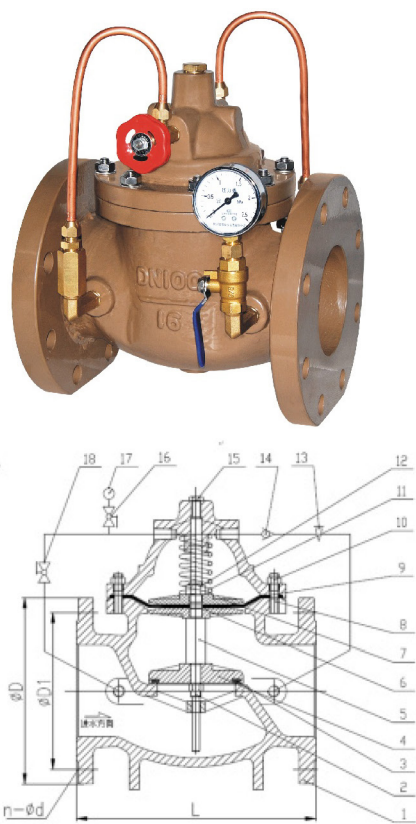
14、 Check valve

15、 Chock plug

16、 Ball Valve

17、 Pressure gauge

18、 Ball Valve



主要连接尺寸 Main Connection Dimensions													
Size in	长度	Main dimension											
		Table 15 Flanfe details			1.0MPa			1.6MPa			2.5MPa		
		OD	mm	L	D	D1	n-d	D	D1	n-d	D	D1	n-d
2"	200		2"	200	165	125	4-18	165	125	4-18	165	125	4-18
5/2"	220				185	145	4-18	185	145	4-18	185	145	8-18
3"	230	7.50	6.00	3/4-4	200	160	8-18	200	160	8-18	200	160	8-18
4"	270	9.00	170	3/4-8	220	180	8-18	220	180	8-18	235	190	8-22
5"	295				250	210	8-18	250	210	8-18	270	220	8-26
6"	330	11.0	225	7/8-8	285	240	8-22	285	240	8-22	300	250	8-26
8"	385	13.5	280	7/8-8	340	295	8-22	340	295	12-22	360	310	12-26
10"	465	16.00	335	1-12	395	350	12-22	405	355	12-26	425	370	12-30
12"	545	19.00	395	1-12	445	400	12-22	460	410	12-26	485	430	16-30
14"	610	21.00	445	9/8-12	505	460	16-22	520	470	16-26	555	490	16-33
16"	650	23.50	495	9/8-16	565	515	16-26	580	525	16-30	620	550	16-36
18"	730	25.00	550	5/4-16	615	565	20-26	640	585	20-30	670	600	20-36
20"	800	27.50	600	5/4-16	670	620	20-26	715	650	20-33	730	660	20-36
24"	920	32.00	705	11/8-20	780	725	20-30	840	770	20-36	845	770	20-39

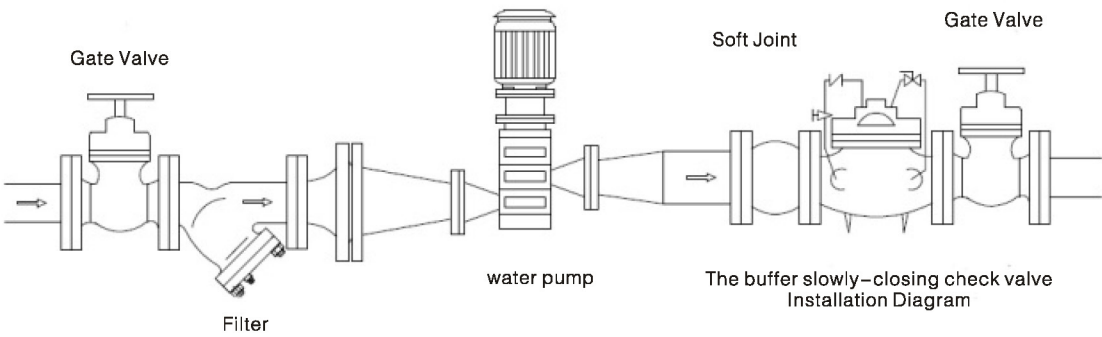
DB300X The Buffer Slowly-closing Check Valve Instruction

Working principle

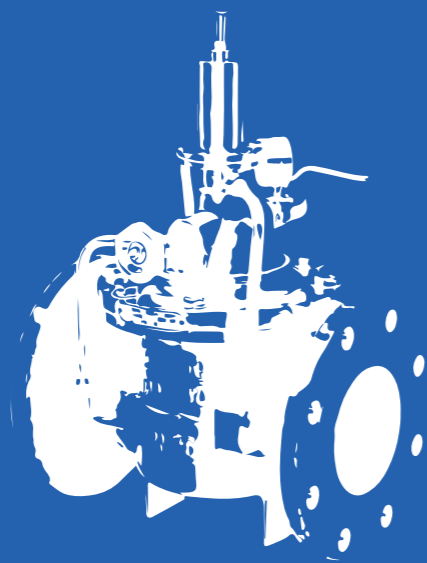
When the pipeline supply water from the inlet of valve, through the micro filter, water through needle valve13, check valve14 into the bonnet control room, then through ball valve16 discharge to the downstream. Because of the small opening of needle valve, generally simply open a quarter circle, so control indoor speed is greater than the entrance supplementing water speed, the control of indoor pressure decrease, the inlet pressure act below the main plate will lift the main plate to open the main valve to supply water to the water downstream..When the pipeline stop water supply, downstream water began to back flow. Due to the role of the check valve14, part of the back flow water through ball valve16 can not flow out after into the bonnet control room, and gradually increase the pressure, finally makes the main valve tightly shut, to prevent the downstream water back flow and have played an important role in slowly-closing silencing.

Installation and Maintenance

- The best installation way of the main valve is horizontal installation, bonnet up, other installation method can reach the use function,
- thoroughly remove the clutter of pipe before installation . Pay attention to the main valve body outer flow labeled arrows, should follow the direction installation.
- Before the main valve need to install a gate valve and a filter , after the main valve also need to install a gate valve, in order to maintenance.
- Must be flushed pipeline thoroughly before water supply.
- When testing the waters, need to slowly open the gate valve in front of the main valve, slowly increase the pressure, at the same time pay attention to the control line outside the main body .whether is leaking
- The micro filter on the main valve need to regular cleaning.
- Needle valve13 and ball valve16 coordinate adjustment ,Can be the best opening and closing speed



The buffer slowly-closing check valve Installation Diagram



**DBV**

上海东宝阀门制造有限公司

Water control valve series

## DB400X Flow Control Valve Instruction



DB400X Flow control valve Instruction

Product Instruction

The product is our company engineering and technical personnel through the introduction of new technology, manufacturing technology and the improvement of the structure, Has reached the international advanced level, their type body adopts the whole passage streamlined design, fluid resistance Force is small, large flow, in the mode of transmission adopts the hydraulic operation, it is using hydraulic automatic pipeline Operating the main valve disc up and down movement, control of the main valve mouth opening, the main valve installed in the control flow distribut ion pipe roadThe amount of pipeline. Can design is first valve upper guide regulator and a fixed flow pilot valve, just Can make through the main valve flow rate remains unchanged, even if the main valve upstream press ure changes, also won't affect, Anyway the product is life and industrial water supply system water supply, fire fighting system of ideal products.

Structure

The valve consists of the main valve, pilot valve, needle valve, ball valve, micro filter ,pressure gauge, etc,Due to the pilot valve, needle valve and pressure gauge need to connected the main valve with a catheter , so collectively called catheter control system, as the figure below :

- 1、Body

2、Nut

3、Sealing Ring

4、Disc

5、Stem

6、Diaphragm Press Plate

7、Diaphragm

8、Bolt

9、Bonnet
- 10、Ball Valve

11、Nut

12、Nut

13、Spring

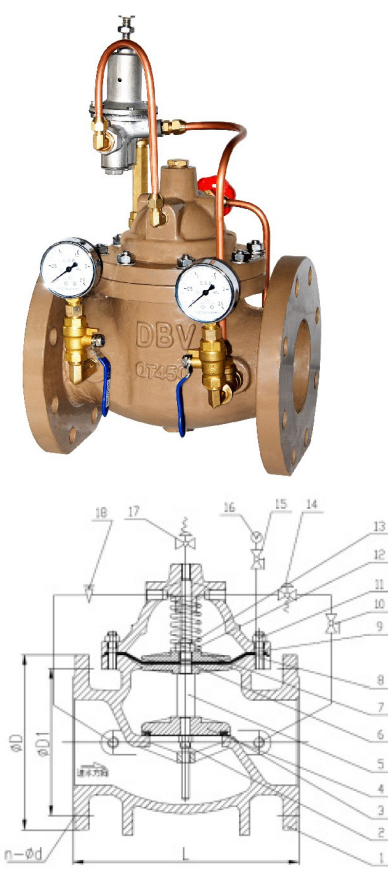
14、Pilot valve

15、Ball valve

16、Pressure gauge

17、Adjustment valve

18、Needle Valve



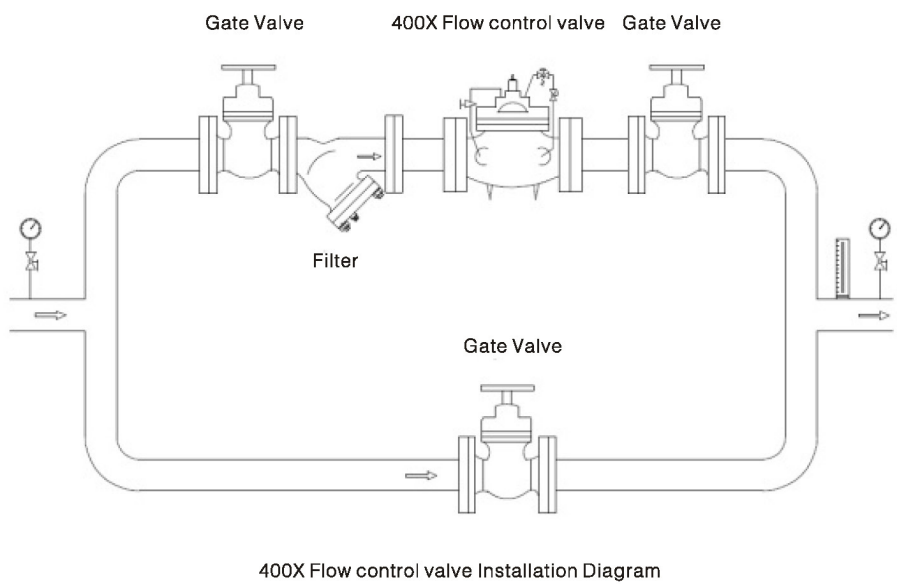
Main Connection Dimensions														
Size in	Length	Main dimension												
		Table 15 Flanfe details				1.0MPa			1.6MPa			2.5MPa		
		mm	L	OD	BC	N-d	D	D1	n-d	D	D1	n-d	D	D1
2"	200					165	125	4-18	165	125	4-18	165	125	4-18
5/2"	220					185	145	4-18	185	145	4-18	185	145	8-18
3"	230	7.50	6.00	3/4-4	200	160	8-18	200	160	8-18	200	160	8-18	
4"	270	9.00	170	3/4-8	220	180	8-18	220	180	8-18	235	190	8-22	
5"	295				250	210	8-18	250	210	8-18	270	220	8-26	
6"	330	11.0	225	7/8-8	285	240	8-22	285	240	8-22	300	250	8-26	
8"	385	13.5	280	7/8-8	340	295	8-22	340	295	12-22	360	310	12-26	
10"	465	16.00	335	1-12	395	350	12-22	405	355	12-26	425	370	12-30	
12"	545	19.00	395	1-12	445	400	12-22	460	410	12-26	485	430	16-30	
14"	610	21.00	445	9/8-12	505	460	16-22	520	470	16-26	555	490	16-33	
16"	650	23.50	495	9/8-16	565	515	16-26	580	525	16-30	620	550	16-36	
18"	730	25.00	550	5/4-16	615	565	20-26	640	585	20-30	670	600	20-36	
20"	800	27.50	600	5/4-16	670	620	20-26	715	650	20-33	730	660	20-36	
24"	920	32.00	705	11/8-20	780	725	20-30	840	770	20-36	845	770	20-39	

Working principle

When the main valve inlet side pressure respectively into the valve body and the control room(see chart), and the main valve external ball valve10 closed at the same time, the valve is in full close state . When the main valve external ball valve10 fully open, thecon trol room water pressure all drain to downstream low pressure area at this time the main valve fully open position. Adjust the opening of the main valve external ball valve 6, the flow through the water balance of needle valve18 and ball valve10, at this time the mainvalve in the floating state. Flow control valve is the use of the pressure difference that water through the cathet er and needle valve18 into the main valve control room. With the help of the spring of pilot valve control valve 14 Control valve opening, and a djust the upper regulating valve17 makes the main valve opening , let the flow does not exceed a certain value in the pipeline, even if the upstream pressure changes, also won't affect the downstream pressure

Installation And Adjustment

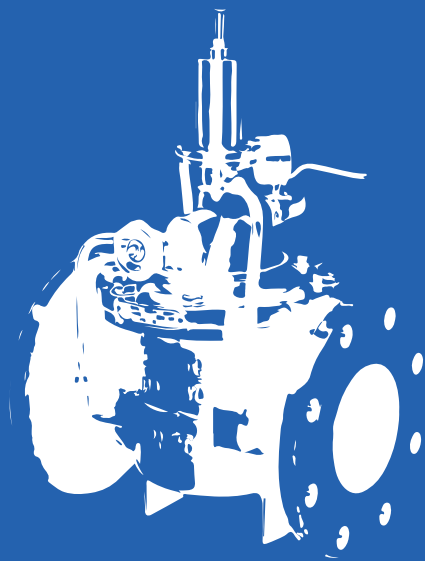
- The best installation way of the main valve is horizontal installation,thoroughly remove the clutter of pipe before installation . Pay attentionto the main valve body outer flow labeled arrows, should follow the direction installation. After installation shall ensure that no pipe stress on the valve body and valve internal parts.
- Before the main valve need to install a gate valve and a filter, after themain valve also need to install a gate valve, in order to maintenance.
- All the screws removed, including control of necessary copper pipeline and nut.
- Removed the bonnet and spring
- The micro filter need to regular cleaning.
- Must be flushed pipeline thoroughly before water supply.
- If found damage to the diaphragm or gasket, please loose the nut on the axis core, break down one by one the diaphragm or gasket, comes out to replace the new diaphragm, or seal.
- To examine in detail the main valve internal seat, shaft core whether have damage, if there are other debris inside the main valve need to clear it.
- In reverse order will replace the parts after combination, packed the main valve, no Jamming phenomenon of the valve.
- Please refer to the installation operation considerations , thank youfor your cooperation!



DB400X Flow control valve Instruction

Main technical date sheet

PN	1.0MPa	1.6MPa	2.5MPa
Body test pressure	1.5MPa	2.4MPa	3.75MPa
Outlet Pressure adjustable range	0.090-8MPa	0.101-2MPa	0.151-6MPa
Pressure character ΔP2P1	P2X8%	P2X10%	P2X12%
Flow character ΔP2G2	P2X15%	P2X20%	P2X25%
Suitable Temperature	0℃-80℃		
Suitable Medium	Water		



**DBV**

上海东宝阀门制造有限公司

Water control valve series

## DB500X Pressure Relief Valve Instruction



DB500X Pressure Relief Valve Instruction

Product Instruction

This kind of valve is designed and manufactured by our engineer with reference to the same type products domestic and overseas .Body design adopt to full port streamlined .Small Fluid resistance large flow, good sealing effect .As equipped with a catheter on the main valve,using water power ,Can control the water tower or liquid surface of pool automatically,easy maintenance,Flexible and durable,high accuracy liquid level control,Water level without hydraulic interference and tight shutoff no leaking,welcome to purchase

Structure

The valve consists of the main valve, pilot valve, needle valve, ball valve, pressure gauge, etc.Due to the pilot valve, needle valve, ball valve and pressure gauge need to connected the main valve with a catheter , so collectively called catheter control system, as the figure below :

- 1、 Body

2、 Nut

3、 Sealing Ring

4、 Disc

5、 Stem

6、 Diaphragm Press Plate

7、 Diaphragm

8、 Bolt

9、 Bonnet
- 10、 Nut

11、 Nut

12、 Spring

13、 Needle valve

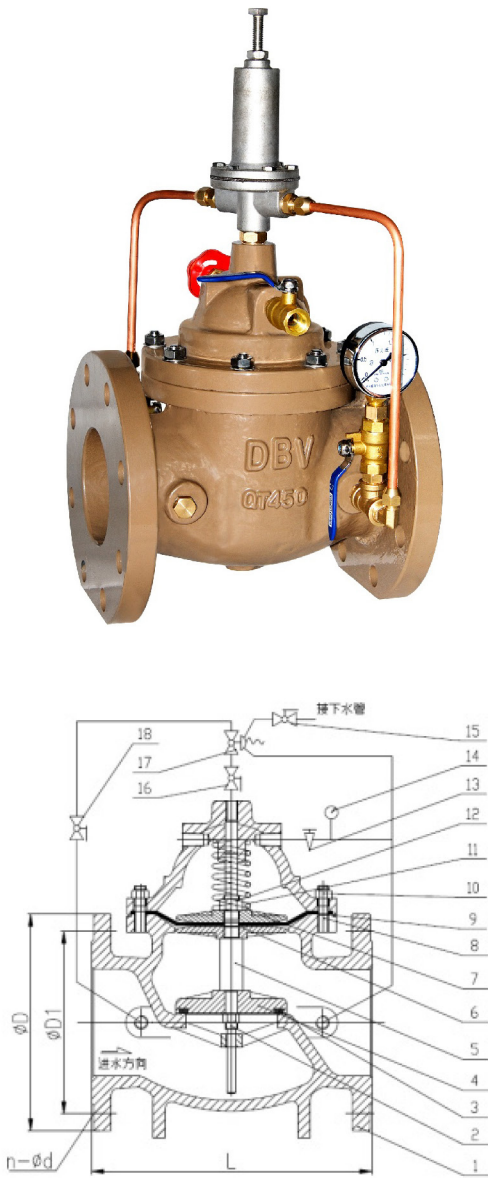
14、 Pressure Gauge

15、 Ball Valve

16、 Ball Valve

17、 Pressure relief pilot valve

18、 Ball Valve



Working principle

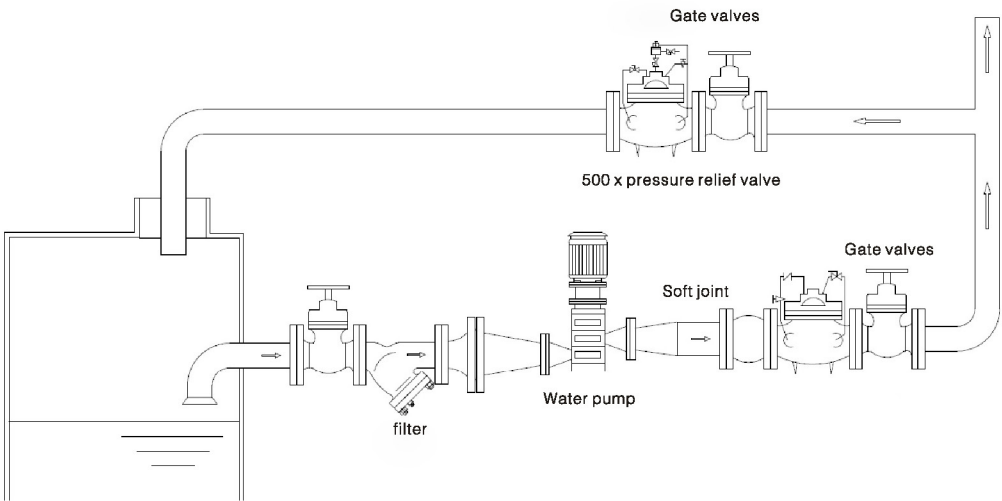
As a pressure relief valve, the main valve installed on the drain bypass, namely installation combine with the main line .When the upstream pressure gradually rose more than 17 pilot valve set point, the main valve quickly open drain step-down, upstream pressure down to guide valve until 17 a set value, the main valve slowly closed, avoid the occurrence of water hammer, ensure the safety of the pipeline. As pressure relief valve is mainly used to eliminate high pressure that increases because of supply is greater than the demand such as the early stage of fire hydrant system, automatic spray and a variety of feed water system of the pump outlet..

For holding pressure valve, the main valve installed on the head of the road, and the series connecting pipe installation. As long as the main valve upstream of the water supply pressure is lower than the 17 set value of the pilot valve, main valve is closed. When the main valve upstream of the water supply pressure exceeds pilot valve setting value of 17, the main valve will open, the downstream water supply to the main valve, to ensure that the main valve upstream of the water supply pressure. Is mainly used for maintenance of city main minimum supply pressure, especially when there is a fire, can prevent the excessive pumping decompression branch users.

Installation And Adjustment

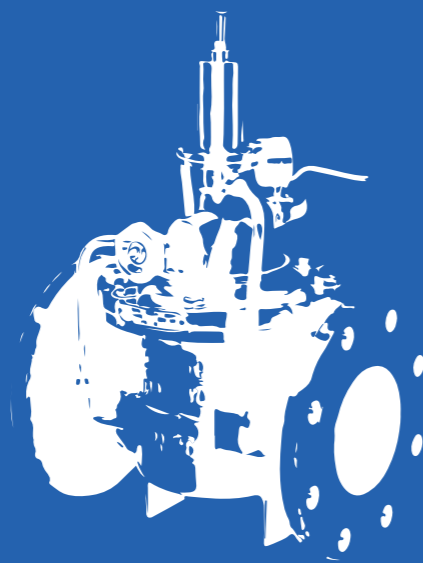
- The best installation way of the main valve is horizontal installation, bonnet up, other installation method can reach the use function, thoroughly remove the clutter of pipe before installation . Pay attention to the main valve body outer flow labeled arrows, should follow the direction installation. After installation shall ensure that no pipe stress on the valve body and valve internal parts.
- Before the main valve need to install a gate valve and a filter, after the main valve also need to install a gate valve, in order to maintenance.
- Before pressure regulating ,first close the needle valve 13 then open a half circle, 15 for ball valve closed, the rest of the ball valve is fully open, when regulating, loosen lock nut under the pilot valve handwheel, then turn pilot valve clockwise to increase the pressure, otherwise to reduce the pressure, to lock the lock nut after.
- Must be flushed pipeline thoroughly before water supply. The micro filter need to regular cleaning.

DB500X Pressure Relief Valve Instruction



Main Connection Dimensions

DN	Length	Main dimension											
		Table 15 Flanfe details				1.0MPa		1.6MPa			2.5MPa		
		OD	BC	n-d	D	D1	n-d	D	D1	n-d	D	D1	n-d
Mm	L												
2"	200				165	125	4-18	165	125	4-18	165	125	4-18
5/2"	220				185	145	4-18	185	145	4-18	185	145	8-18
3"	230	7.50	6.00	3/4-4	200	160	8-18	200	160	8-18	200	160	8-18
4"	270	9.00	170	3/4-8	220	180	8-18	220	180	8-18	235	190	8-22
5"	295				250	210	8-18	250	210	8-18	270	220	8-26
6"	330	11.0	225	7/8-8	285	240	8-22	285	240	8-22	300	250	8-26
8"	385	13.5	280	7/8-8	340	295	8-22	340	295	12-22	360	310	12-26
10"	465	16.00	335	1-12	395	350	12-22	405	355	12-26	425	370	12-30
12"	545	19.00	395	1-12	445	400	12-22	460	410	12-26	485	430	16-30
14"	610	21.00	445	9/8-12	505	460	16-22	520	470	16-26	555	490	16-33
16"	650	23.50	495	9/8-16	565	515	16-26	580	525	16-30	620	550	16-36
18"	730	25.00	550	5/4-16	615	565	20-26	640	585	20-30	670	600	20-36
20"	800	27.50	600	5/4/-16	670	620	20-26	715	650	20-33	730	660	20-36
24"	920	32.00	705	11/8-20	780	725	20-30	840	770	20-36	845	770	20-39



**DBV**

上海东宝阀门制造有限公司

Water control valve series

## DB600X Electric Control Valve Instruction



DB600X Electric Control Valve Instruction

Product Instruction

Electric control valve, an electromagnetic valve for the guide valve hydraulic type valve operation. Commonly used in water supply and drainage and automatic control, industrial system of control response is accurate, quick and according to the electrical signal remote control opening and closing pipe road system, realize the remote operation. And can replace gate valves and butterfly valves used in large electric operating system. Smooth speed adjustable valve is closed, closed and does not produce pressure fluctuations. The valves are small volume, light weight, simple maintenance, easy to use, safe and reliable. Solenoid valve can choose ac 220 v or dc 24 v, can be selected according to various occasions normally open or normally closed type.

Structure

The valve consists of the main valve, electro magnetic pilot valve, needle valve, ball valve, etc, Due to the pilot valve, needle valve, ball valve need to connected the main valve with a catheter, so collectively called catheter control system, as the figure below:

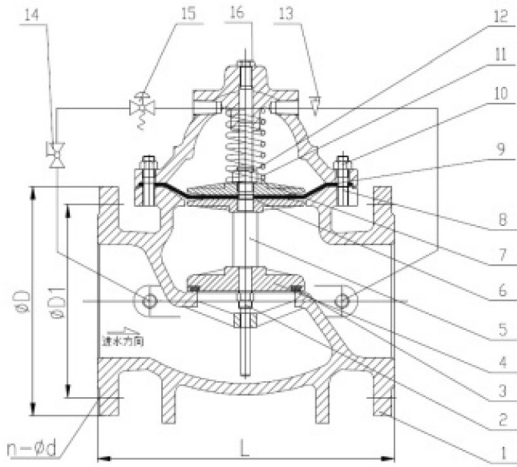


Three、Working principle

When the valve water supply from the inlet, water flow through the needle valve into the main valve control room, when electromagnetic pilot valve opens, the control of indoor water flows by electromagnetic pilot valve, ball valve. Ball valve opening is greater than the needle valve opening, the main valve control of indoor pressure is low, the main valve in the fully open position. When electromagnetic pilot valve is closed, the water of the main valve control room can't flow, control room boost, push the diaphragm close the main valve.

Installation And Adjustment

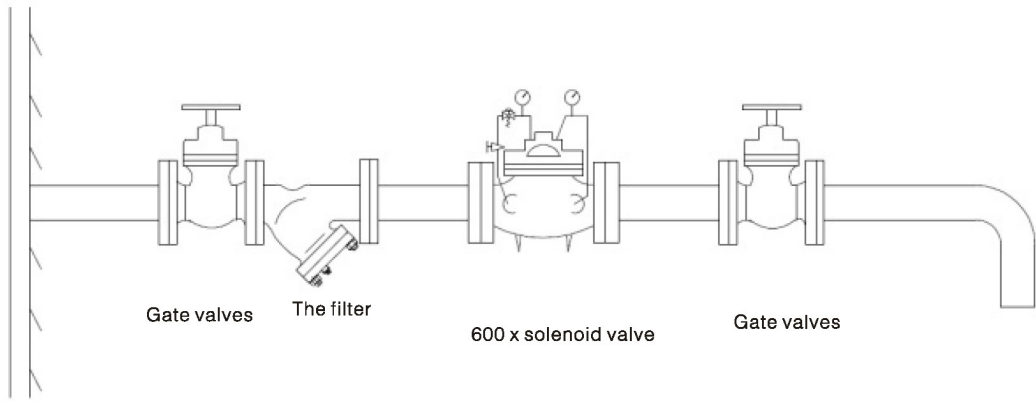
- 1.The best installation way of the main valve is horizontal installatibonnet up, other installation method can reach the use function, thoroughly remove the clutter of pipe before installation. Pay attention to the main valve body outer flow labeled arrows, should follow the direction installation. After installation shall ensure that no pipe stress on the valve body and valve internal parts.
- 2.Before the main valve need to install a gate valve and a filter, after the main valve also need to install a gate valve, in order to maintenance.
- 3.Must be flushed pipeline thoroughly before water supply. The micro filter need to regular cleaning.



600X Electric control valve Installation Diagram

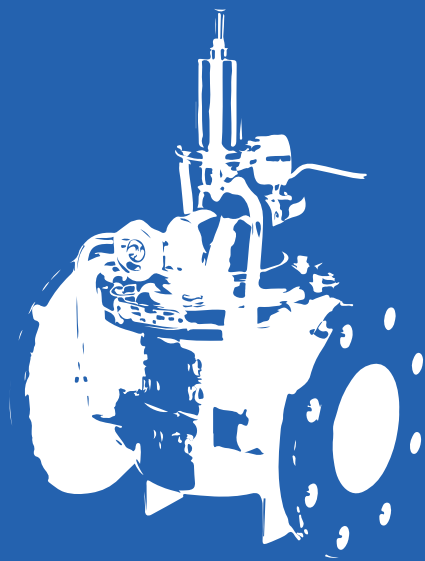
- 1、Body 2、Nut 3、Sealing Ring 4、Disc 5、Stem 6、Diaphragm Press Plate 7、Diaphragm 8、Bolt 9、Bonnet 10、Nut 11、Nut 12、Spring 13、Needle valve 14、Ball valve 15、Electro magnetic valve 16、Chock plug

DB600X Electric control valve Instruction



Main Connection Dimensions

DN	Length	Main dimension											
		Table 15 Flanfe details				1.0MPa			1.6MPa			2.5MPa	
Mm	L	OD	BC	n-d	D	D1	n-d	D	D1	n-d	D	D1	n-d
2"	200				165	125	4-18	165	125	4-18	165	125	4-18
5/2"	220				185	145	4-18	185	145	4-18	185	145	8-18
3"	230	7.50	6.00	3/4-4	200	160	8-18	200	160	8-18	200	160	8-18
4"	270	9.00	170	3/4-8	220	180	8-18	220	180	8-18	235	190	8-22
5"	295				250	210	8-18	250	210	8-18	270	220	8-26
6"	330	11.0	225	7/8-8	285	240	8-22	285	240	8-22	300	250	8-26
8"	385	13.5	280	7/8-8	340	295	8-22	340	295	12-22	360	310	12-26
10"	465	16.00	335	1-12	395	350	12-22	405	355	12-26	425	370	12-30
12"	545	19.00	395	1-12	445	400	12-22	460	410	12-26	485	430	16-30
14"	610	21.00	445	9/8-12	505	460	16-22	520	470	16-26	555	490	16-33
16"	650	23.50	495	9/8-16	565	515	16-26	580	525	16-30	620	550	16-36
18"	730	25.00	550	5/4-16	615	565	20-26	640	585	20-30	670	600	20-36
20"	800	27.50	600	5/4/-16	670	620	20-26	715	650	20-33	730	660	20-36
24"	920	32.00	705	11/8-20	780	725	20-30	840	770	20-36	845	770	20-39



**DBV**

上海东宝阀门制造有限公司

Water control valve series

## DB700X Pump Control Valve Instruction



DB700X Pump Control Valve Instruction

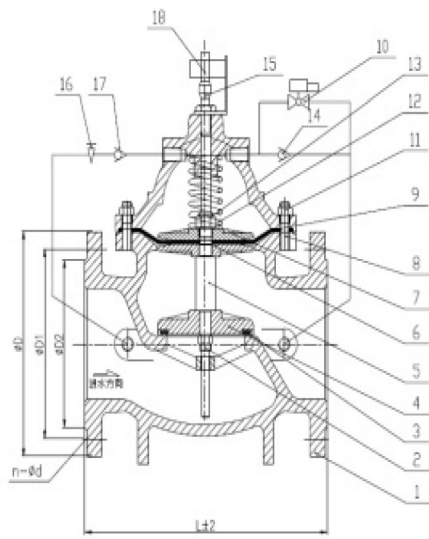
Product Instruction

700X Pump Control Valve is a kind of non–return valve installed in high–rise buildings, and other water supply system of the pump outlet, prevent the backflow medium .When the pump is stopped before the water supply, Valve first slowly shut down about 90%, to prevent the pump to a sudden stop and the water hammer or water hammer; When the pump stop completely, after the valve fully closed again, to prevent pump out the water reflux, effectively protect the pump, from the impact of the reflux and produce inversion. This product is an essential part of the pump export protection device. Streamlined design of the valve. Through the electromagnetic valve control to achieve accurate opening and closing. The use of safe and reliable, effectively prevent water hammer and water hammer, long service life, installation, maintenance is convenient.



Structure

The valve consists of the main valve, electromagnetic pilot valve, needle valve, check valve, travel switch, etc, due to the pilot valve, needle valve, check valve, travel switch, etc with a catheter is connected to the main valve, so collectively called catheter control system, as shown in the figure below.



Working principle

When the pump work valve supply water to the downstream, electromagnetic pilot valve fully open, the opening of the needle valve adjusted to the appropriate aperture, upstream water into main valve control room by the needle valve, check valve ,flow out by the electromagnetic pilot valve , at this time the main valve control room of pressure maintaining appropriate opening, the main valve in the maintain the normal water downstream.

When the pump stop working, electromagnetic pilot valve shut off, the main valve control room stop to drainage, control room pressure increases, the main valve began to close. When close to 90%, the main valve travel switch output stop pump signal , water pump stop running. At this point the downstream backwater is entered into the main valve control room by check valve, control room pressure increase , the main valve is closed.

Installation And Adjustment

- 1.The best installation way of the main valve is horizontal installation, bonnet up, other installation method can reach the use function, thoroughly remove the clutter of pipe before installation . Pay attention to the main valve body outer flow labeled arrows, should follow the direction installation. After installation shall ensure that no pipe stress on the valve body and valve internal parts.
- 2.Before the main valve need to install a gate valve and a filter, after the main valve also need to install a gate valve, in order to maintenance.
- 3.Must be flushed pipeline thoroughly before water supply. The micro filter need to regular cleaning.

- 1、 Body

2、 Nut

3、 Sealing Ring

4、 Disc

5、 Stem

6、 Diaphragm Press Plate

7、 Diaphragm

8、 Bolt

9、 Bonnet
- 10、 Electromagnetic valve

11、 Nut

12、 Spring

13、 Nut

14、 Check valve

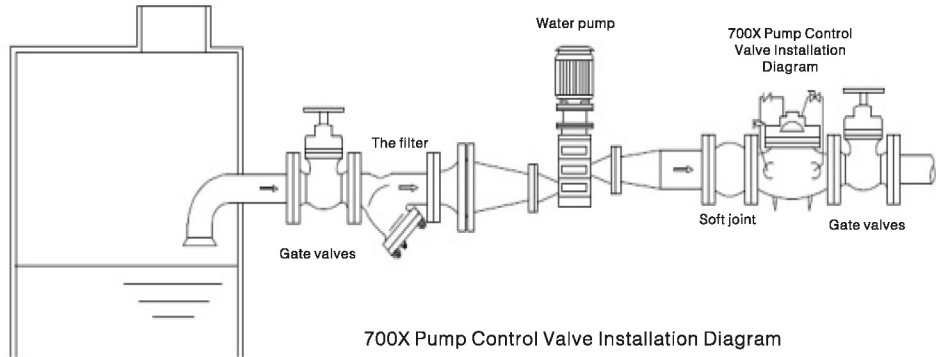
15、 Pilot Valve

16、 Needle Valve

17、 Check valve

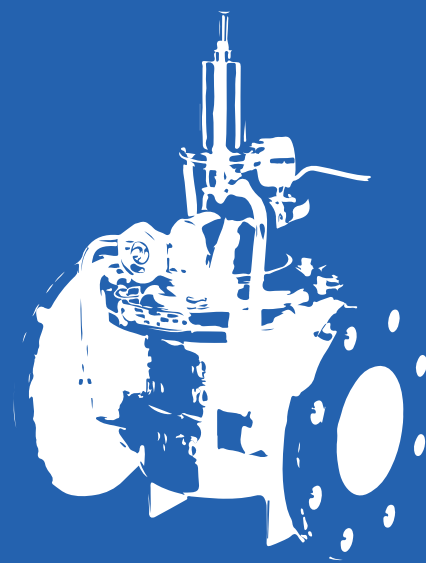
18、 Travel Switch

DB700X Pump Control Valve Instruction



Main Connection Dimensions

DN	Length	Main dimension											
		0.6MPa			1.0MPa			1.6MPa			2.5MPa		
mm	L	D	D1	n-d	D	D1	n-d	D	D1	n-d	D	D1	n-d
50	200	140	110	4-14	165	125	4-18	165	125	4-18	165	125	4-18
65	220	160	130	4-14	185	145	4-18	185	145	4-18	185	145	8-18
80	230	190	150	4-18	200	160	8-18	200	160	8-18	200	160	8-18
100	265	210	170	4-18	220	180	8-18	220	180	8-18	235	190	8-22
125	295	240	200	8-18	250	210	8-18	250	210	8-18	270	220	8-26
150	335	265	225	8-18	285	240	8-22	285	240	8-22	300	250	8-26
200	385	320	280	8-18	340	295	8-22	340	295	12-22	360	310	12-26
250	465	375	335	12-18	395	350	12-22	405	355	12-26	425	370	12-30
300	545	440	395	12-22	445	400	12-22	460	410	12-26	485	430	16-30
350	610	490	445	12-22	505	460	16-22	520	470	16-26	555	490	16-33
400	650	540	495	16-22	565	515	16-26	580	525	16-30	620	550	16-36
450	730	595	550	16-22	615	565	20-26	640	585	20-30	670	600	20-36
500	800	645	600	20-22	670	620	20-26	715	650	20-33	730	660	20-36
600	920	755	705	20-26	780	725	20-30	840	770	20-36	845	770	20-39



**DBV**

上海东宝阀门制造有限公司

Water control valve series

## DB800X Differential Pressure Bypass Balancing Valve Instruction



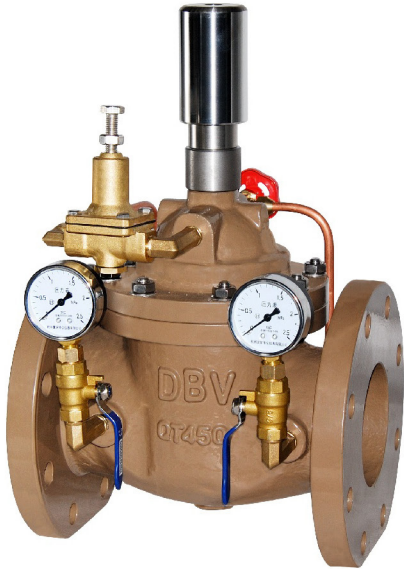
DB800X Differential Pressure Bypass Balancing Valve Instruction

Product Instruction

Differential pressure bypass balancing valve is a kind of used for air conditioning system to/return to balance between the differential pressure of the valve. The valve can improve the utilization rate of system and keep the pressure difference precise set straight, and can minimize noise in the system, as well as the large pressure difference of equipment damage, also can adjust the opening according to the terminal heat load conditions, the terminal load is small or zero can guarantee a certain amount of water in the air conditioning unit, to protect the air conditioning units also have the effect of saving energy and reducing consumption.

Structure

The valve by the main valve, pilot valve, needle valve, ball valve, etc, due to the pilot valve, needle valve, ball valve with a catheter is connected to the main valve, so collectively called catheter control system, as shown in the figure below.

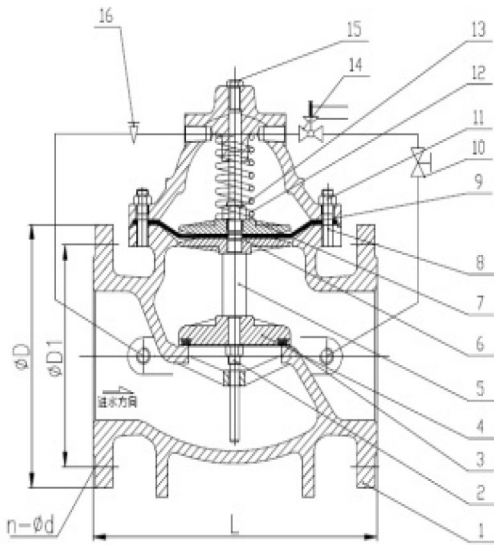


Working principle

Balance differential pressure bypass valve interior with a check valve core, a spring calibration pressure forces control. As for the pressure differential between the backwater is greater than the set pressure of the spring, the check valve is proportional to the open, the differential pressure bypass traffic support system set up corresponding values; When the differential pressure below the set point check valve closed, for without by-pass between backwater.

Installation And Adjustment

- 1.The best installation way of the main valve is horizontal installation, bonnet up, other installation method can reach the use function, thoroughly remove the clutter of pipe before installation . Pay attention to the main valve body outer flow labeled arrows, should follow the direction installation. After installation shall ensure that no pipe stress on the valve body and valve internal parts.
- 2.Before the main valve need to install a gate valve and a filter, after the main valve also need to install a gate valve, in order to maintenance.
- 3.Must be flushed pipeline thoroughly before water supply. The micro filter need to regular cleaning.



- 1、 Body

2、 Nut

3、 Sealing Ring

4、 Disc

5、 Stem

6、 Diaphragm Press Plate

7、 Diaphragm

8、 Bolt
- 9、 Bonnet

10、 Ball valve

11、 Nut

12、 Spring

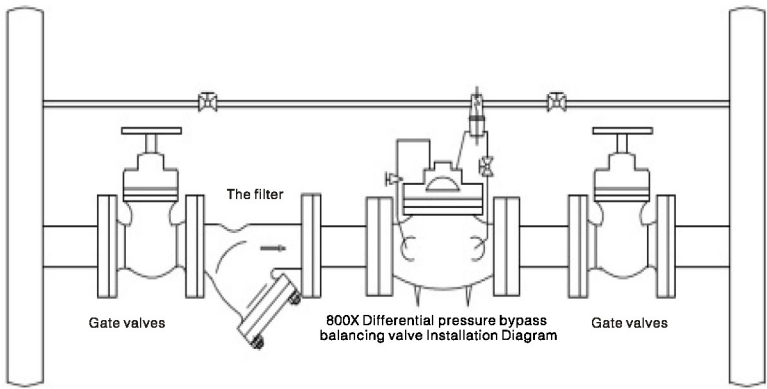
13、 Nut

14、 Pilot valve

15、 Plug

16、 Needle Valve

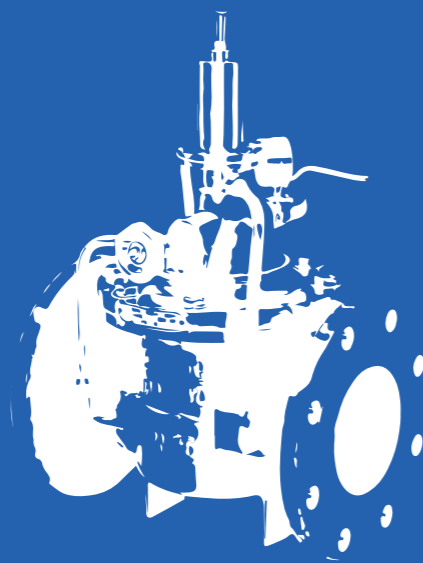
DB800X Differential Pressure Bypass Balancing Valve Instruction



800X Differential pressure bypass balancing valve Installation Diagram

Main Connection Dimensions

DN	Length	Main dimension											
		0.6MPa			1.0MPa			1.6MPa			2.5MPa		
mm	L	D	D1	n-d	D	D1	n-d	D	D1	n-d	D	D1	n-d
50	200	140	110	4-14	165	125	4-18	165	125	4-18	165	125	4-18
65	220	160	130	4-14	185	145	4-18	185	145	4-18	185	145	8-18
80	230	190	150	4-18	200	160	8-18	200	160	8-18	200	160	8-18
100	265	210	170	4-18	220	180	8-18	220	180	8-18	235	190	8-22
125	295	240	200	8-18	250	210	8-18	250	210	8-18	270	220	8-26
150	335	265	225	8-18	285	240	8-22	285	240	8-22	300	250	8-26
200	385	320	280	8-18	340	295	8-22	340	295	12-22	360	310	12-26
250	465	375	335	12-18	395	350	12-22	405	355	12-26	425	370	12-30
300	545	440	395	12-22	445	400	12-22	460	410	12-26	485	430	16-30
350	610	490	445	12-22	505	460	16-22	520	470	16-26	555	490	16-33
400	650	540	495	16-22	565	515	16-26	580	525	16-30	620	550	16-36
450	730	595	550	16-22	615	565	20-26	640	585	20-30	670	600	20-36
500	800	645	600	20-22	670	620	20-26	715	650	20-33	730	660	20-36
600	920	755	705	20-26	780	725	20-30	840	770	20-36	845	770	20-39



**DBV**

上海东宝阀门制造有限公司

Water control valve series

## DB 900X Emergency Shutdown Valve instruction



DB 900X Emergency Shutdown Valve instruction

Product Instruction

900 x emergency shutdown valve is mainly used for fire fighting water and domestic water in the parallel water supply system, is used to allocate water supply direction. When the fire need a large number of water, the valve will automatically cut off the water immediately, to ensure sufficient fire water. When the fire use when stop water ,the valve automatically opens an open state, recover water supply. The valve control high sensitivity, safe and reliable, convenient debugging, long service life, the valve system without setting up a special fire fighting water supply network alone, more can save construction cost.

Structure

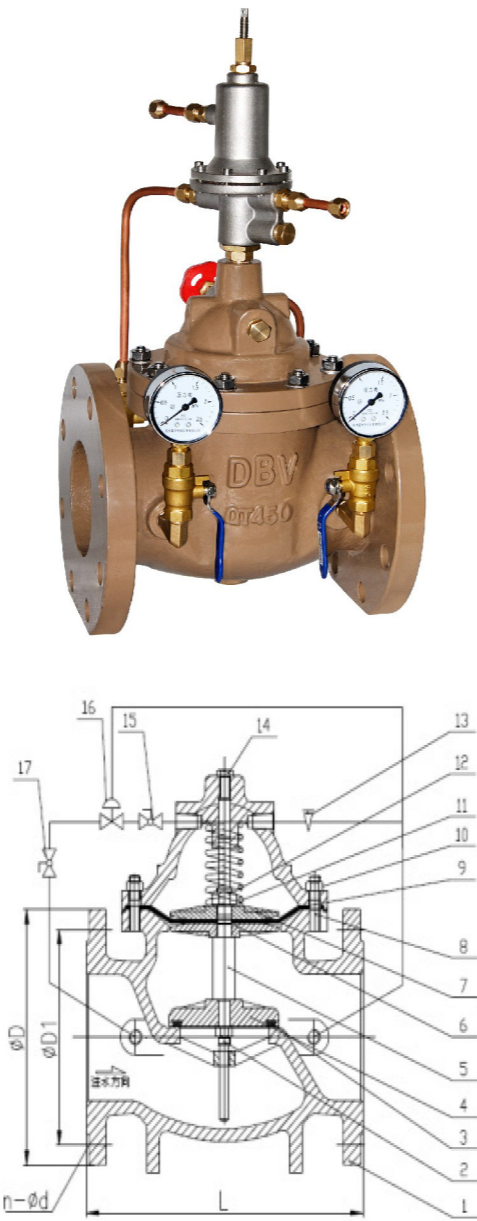
The valve consists of the main valve and pilot valve, needle valve, ball valve, etc, due to the pilot valve, needle valve, ball valve with a catheter is connected to the main valve, so collectively called catheter control system, as shown in the figure below.

Working principle

Emergency shutdown valve is one of the hydraulic valves. Consists of the main valve, regulating valve, pilot valve, pressure gauge and other fittings such as other connection pipe ,when the main valve inlet pressure below than the pilot valve set pressure, the pilot valve is in opening state, The main valve cavity pressure on the cover and the main valve outlet pressure is equal, inlet and outlet pressure difference, water flow through the valve from outlet. When the fire pump start-up, or variable frequency pump pressure increase, more than a pilot valve set pressure, controlled by the main valve inlet pilot valve pipe pressure increase, on the spring pressure increase, pushing down tightly, drives the valve core down, the pilot valve closed, the main valve inlet pressure through the throttle valve is added at this time the main valve on the valve cover cavity, because of the downward pressure on the disc is greater than upward thrust, the main valve close.

The valve is suitable for parallel living community in fire water and the life water supply system .When fire, emergency shut down water valve automatically ensure the fire water. When at the ending of the fire, the valve automatically opens, recover water supply can save costs more. than the traditional fire water supply alone .

To install the filter before emergency shut-off valve, and should facilitate the discharge of pollutants by requirements



- 1、 Body

2、 Nut

3、 Sealing Ring

4、 Disc

5、 Stem

6、 Diaphragm Press Plate

7、 Diaphragm

8、 Bolt

9、 Bonnet
- 10、 Nut

11、 Spring

12、 Nut

13、 Needle Valve

14、 Plug

15、 Ball valve

16、 Pilot valve

17、 Ball Valve

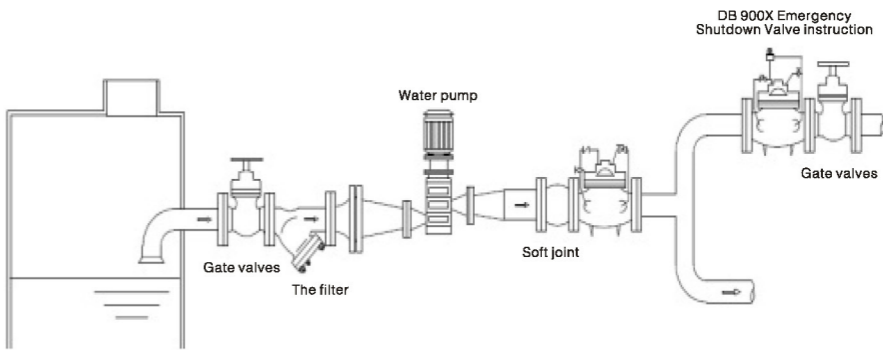
Installation And Adjustment

- 1.The best installation way of the main valve is horizontal installation, bonnet up, other installation method can reach the use function, thoroughly remove the clutter of pipe before installation . Pay attention to the main valve body outer flow labeled arrows, should follow the direction installation. After installation shall ensure that no pipe stress on the valve body and valve internal parts.

2.Before the main valve need to install a gate valve and a filter, after the main valve also need to install a gate valve, in order to maintenance.

3.Must be flushed pipeline thoroughly before water supply. The micro filter need to regular cleaning.

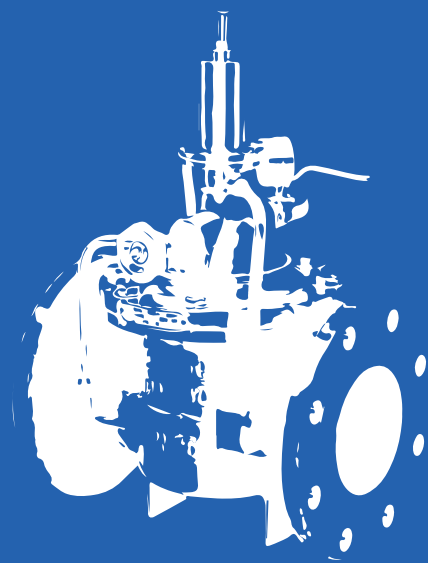
DB 900X Emergency Shutdown Valve instruction



900X Emergency shutdown valve Installation Diagram

Main Connection Dimensions

DN	Length	Main dimension											
		0.6MPa			1.0MPa			1.6MPa			2.5MPa		
mm	L	D	D1	n-d	D	D1	n-d	D	D1	n-d	D	D1	n-d
50	200	140	110	4-14	165	125	4-18	165	125	4-18	165	125	4-18
65	220	160	130	4-14	185	145	4-18	185	145	4-18	185	145	8-18
80	230	190	150	4-18	200	160	8-18	200	160	8-18	200	160	8-18
100	265	210	170	4-18	220	180	8-18	220	180	8-18	235	190	8-22
125	295	240	200	8-18	250	210	8-18	250	210	8-18	270	220	8-26
150	335	265	225	8-18	285	240	8-22	285	240	8-22	300	250	8-26
200	385	320	280	8-18	340	295	8-22	340	295	12-22	360	310	12-26
250	465	375	335	12-18	395	350	12-22	405	355	12-26	425	370	12-30
300	545	440	395	12-22	445	400	12-22	460	410	12-26	485	430	16-30
350	610	490	445	12-22	505	460	16-22	520	470	16-26	555	490	16-33
400	650	540	495	16-22	565	515	16-26	580	525	16-30	620	550	16-36
450	730	595	550	16-22	615	565	20-26	640	585	20-30	670	600	20-36
500	800	645	600	20-22	670	620	20-26	715	650	20-33	730	660	20-36
600	920	755	705	20-26	780	725	20-30	840	770	20-36	845	770	20-39



**DBV**

上海东宝阀门制造有限公司

Water control valve series

## Resilient Seat Rising Stem Gate Valve



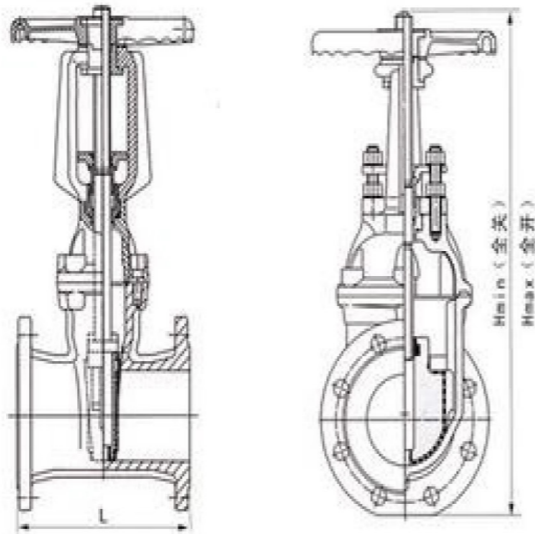
Resilient Seat Rising Stem Gate Valve

Product Instruction

Rising stem stem resilient seat gate valves opening and closing by the disc , disc movement direction perpendicular to the direction of flow of gate valves ,gate valve can only be fully open and close, not to adjust and throttling.Rising stem gate valve stem use move up and down, but not rotating, the valve stem outside, so is called rising stem.This valve is also the replacement of the traditional gate valves, using of flexible disc coming into being trace deformation compensation effect, achieve good sealing effect, can be widely used in tap water, sewage, construction, food, electricity, medicine, metallurgy, textile, energy systems and other fluid on the pipeline as the adjusting and intercepting device.

Properties

- 1, the overall package glue disc: ductile iron frame by high-performance rubber and the latest inside vulcanization technology for overall coated, joint close firm, geometry dimension precision, sealing good elasticity, complete with fluid isolation will sluice metal, corrosion resistance.
- 2, one-piece copper nut: disc copper nut and nodular cast iron disc, use special technology for an organic whole, ensure closely connected in long-term operation flow and impact will not loose, avoid to cause the valve control failure.
- 3, flat low type seat: traditional gate is usually sag, increases in the seat, and easy accumulation fluid resistance welding slag, stones, sediment waits sundry, go against seal and circulation. The bottom of the elastic base seat sealing gate valve with full port straight-through type design, equivalent to always pipeline, not easy accumulation sundry, ensure reliable sealing and make fluid unimpeded.
- 4, the structure to be dexterous: compact structure, make the maximum working highly than traditional gate valves reduce 60mm ~ 300mm above, save engineering space; Ontology using nodular cast iron material, weight is traditional gate lost about by 20% ~ 30% and convenient installation and maintenance.
- 5, corrosion resistance: body internal and external surface using epoxy resin powder coating, inner parts adopt stainless steel and copper alloy, prevent rust and fluid corrosion.
- 6.Using four seal, to completely eliminate the leakage situation of valve: the first line of the seal, seal on the valve stem and valve cover, high quality O ring seal; Between the second seal, valve cover and the body USES special sealing ring; The third way between stem and packing gland, is made of high quality O ring; The fourth stem and packing gland support, USES the high quality of o-rings.
- 7.Stem is made of high quality stainless steel, hardness and conditioning treatment after make stem HB200-275, not only ensure the intensity of the valve stem, and increased the wear resistance of the valve stem.



Main Technical Parameters			
PN	1.0	1.6	2.5
Shell Test	1.5	2.4	3.75
Sealing Test	1.1	1.76	2.75
Air sealing Test	0.6	0.6	0.6
Applicable temperature	≤80℃		
Applicable medium	Water, sewage		

Resilient Seat Rising Stem Gate Valve

The major parts material

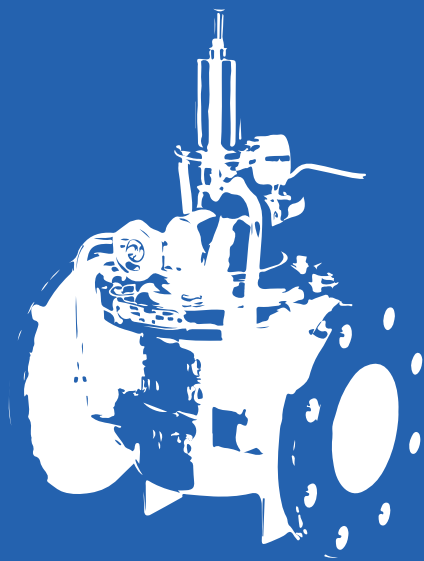
Serial number	name	materials	
1	stem	Stainless steel	
2	O-shape sealing ring	Butyl cyanogen rubber	
3	bonnet	Ductile Iron	PN2.5Cast steel
4	Stem nut	Copper alloy	
5	disc	Ductile Iron Butyl cyanogen rubber	
6	valve body	Ductile Iron	PN2.5Cast steel
7	Split collar	Copper alloy	
8	Gland	Copper alloy/Ductile Iron	
9	Yoke	Ductile Iron	

Installation

- 1, the valve can be vertical or horizontal installation, recommend vertical installation, namely the valve when stem turns its gear drive signal of the device, make signal devices gear movement within the budge switch action have stem vertical axis lead.
- 2, before installation pipeline to clean. Lest residual affect valve locked or sharp objects will disc rubber lining damage.
- 3, installation to ensure the coaxial tolerance of pipeline connecting flange. Do not forced the actuator and joined up.
- 3 and pipeline doing strength test, will valve is fully open.

Use and maintenance

- 1, valve long period running. If appear bonnet upper packing place of oozing, packing (shaft seal) cause, but will wear the nut packing gland, can screw up to seal. If after a few times after the above situation, suspected should replace the new packing or seal.
- 2, if appear closing valves force has very big, valve still cannot close severe situation, may be stuck by foreign body wedge. Then check the account, not forcibly closed before valve, lest damage.



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上海东宝阀门制造有限公司

Water control valve series

## Midline Wafer Lining Rubber Butterfly Valve



Midline Wafer Lining Rubber Butterfly Valve

Product Instruction

The midline wafer lining rubber butterfly valve is my company the latest standard design new products, it can be installed in the petroleum, chemical, food, medicine, textile, paper, water and electricity, ship, urban water supply and drainage, metallurgical and other systems. Suitable for all corrosive, incorrosive gases, liquids, half liquid and solid powder, and other media for intercepting and adjust, can be installed in any position.

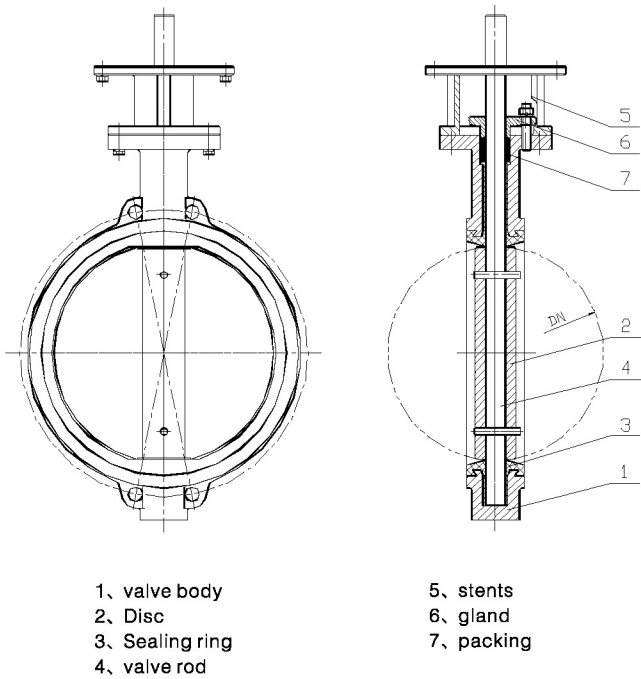
Characteristics

- 1. Small portable, easy disassembly and maintenance, and can be installed at any position;
- 2. Simple structure, 90° rotary realize on-off,
- 3. Operation torque, long service life, on-off thousands of times still can work normally,
- Flow curve tending to benefice 4) regulation performance; characteristics,
- 5. Good seal performance, seal test leakage is zero;
- 6. Change material can be applicable to various media;
- 7. Two-way seal, do not suffer the flow direction of medium restrictions.

Main Performance Specification				
PN (Mpa)	Test pressure Mpa		Working temperature (°C)	Suitable media
	strength	seal		
0.6	0.9	0.66	≤80℃	Air, water and oil etc
1.0	1.5	1.1		
1.6	2.4	1.76		

The Major Parts Material				
Parts name	valve body	Disc	valve seat	valve rod
Materials	fray cast iron	Ductile iron	EPDM	
	Ductile iron	Stainless steel	Wear-resisting rubber	Stainless steel
	Stainless steel	Carbon steel	polytetrafluor oethylene	Carbon stee
	Carbon steel	Copper alloy		

Sealing ring 3 when with stem over surplus cooperate, can prevent the medium which place leak, o-rings realize the second sealing, the complete elimination outside leakage. The butterfly plate 2 adopts streamline shape design, reduce the fluid resistance, sealing surface finishing after hard chromium plating, and seal the friction between the minimum, so in the frequent open case was found no wear and prolong the service life of the valve. Keys with driving devices conterminous, according to the needs of the users can realize the handle transmission, worm gear and worm drive, pneumatic, electric, pneumatic and gas, liquid and electricity linkage.



Resilient Seat Rising Stem Gate Valve

Installation, use and maintenance matters needing attention

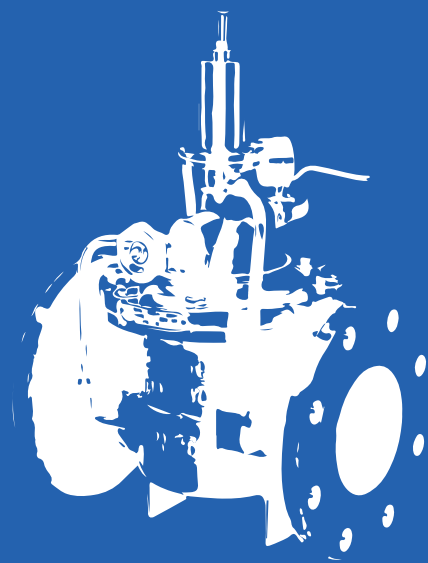
- The product before delivery have press (GB/T13927-92, JB/T9092-99) the provisions of the relevant standards inspection qualified, actuators debugging finished. In order to guarantee the use of products result, please adjust fasteners, positioning device, etc.
2. Valve before installation should do the following job
- (1) the inspection valve channel and the hoist thing whether adherent dirt, if there should be cleaned up dirt when clearing shall not damage seal face,
- (2) this valve seal, 90° two-way rotation, 0° , 90° fitted open or close the valve is fully open position, observe whether conform with this, and examined for jam phenomenon;
- (3) proofread use condition and the product working pressure, the working temperature, corrosion resistant performance whether conform, connection size is consistent,
- (4) check the valve parts fasteners if there's any loose or damage,
3. The valve can be installed at any position, can truncation medium, also can adjust medium flow,
4. After installation should undertake strength tests such as pipeline, should make valve is in full open position (90° ).
5. If you want to spot the valve by GB/inspection shall be T13927-92 or JB/T9092-99 requirements.
6. If the valve opens frequently should be regularly to actuators filling grease.
7. The valve in use meet fault when, should promptly investigate the cause, undertake eliminate, must not break, forced opening and closing.
8. The valve in the line when installation to ensure valve port and pipeline coaxial cables, and uniform tightened, tighten nut.
9. The valve in handling process to avoid collision, lest injure seal face or actuators.
10. The valve long-term storage when, should put in a cool and dry place, the butterfly plate in 5° ~ 7° open position, and sealing, then to coverage at both ends. In no case shall the packing valve overlap placement.

Possible fault and eliminating methods

Possible fault	Reason	Solution
Stem leakage in	1.Type O not tightly 2.O-rings severe wear	1. Press the collar 2. Replace o-rings
Valve and pipeline joints leakage	1.Both ends pipe flanges not clam ping valve 2.Flange seal face with injury or contaminants	1. Tighten nut evenly 2. Repair seal face or cleaning the dirt
Inside the leakage	1.Sealing materials 2.Seal face damaged 3.Sealing surface wear	1. Remove sundry 2.To repair or replace sealing ring or butterfly plate 3. Replace seal
The valve rod rotation not agile	1. The seal tightly over surplus quantity is too large 2. actuators solid barrier	1. Adjust the butterfly plate overall diameter 2. Repair or replace actuators

Statement

Users have special requirements in order should be declared at my company but according to customers' requirements redesign, production.



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Water control valve series

## Flange Soft Sealing Butterfly Valve



Flange Soft Sealing Butterfly Valve

Product Instruction

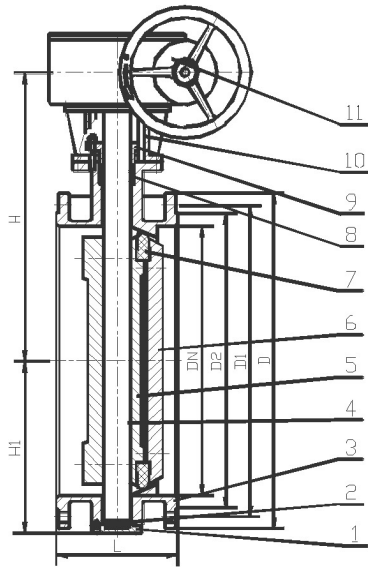
Flange soft sealing butterfly valve factory is the latest standard (GB12238) design new products, structure, performance improved more reliable. Can be used in metallurgy, chemical, electric power, municipal engineering and water supply and drainage system piping. Medium for water, oil, air, etc. Up cut and regulatory medium flow function.

Characteristics

- 1. The structure design is novel, the whole of small size, light weight,
- 2. Butterfly plate, valve adopts double eccentric structure, convenient operation, quick opening and closing effortless;
- 3. Because the structure and principle, double eccentric butterfly plate seal face and seat sliding contact, seal face wear down to a minimum, valve life long, sealing is reliable, easy to adjust;
- 4. Stem 90° rotating realize on-off° , 90° in 0 ~ can be arbitrary adjust flow within the scope;
- 5. In addition to handle worm gear outside, still can realize electric, pneumatic, hydraulic and electrical and hydraulic linkage;
- 6. Characteristics of flow characteristics, benefice tends to regulation performance.

Main Performance Standard					
Model number	Nominal pressure (Mpa)	Shell test pressure Mpa	Seal test pressure Mpa	Working temperature (°C)	Applicable medium
D3/6/941X-10Q、C、P	0.6	0.9	0.66	≤80℃	Water, oil
	1.0	1.1	1.5		
	1.6	1.76	2.4		

The Major Parts Material				
Parts name	valve body、Butterfly plate	valve rod	seal ring	Filler
Materials	ductile iron cast steel stainless steel	45# 2Cr13 Carbon steel stainless steel	Nitrile butadiene rubber	Flexible graphite



Flange Soft Sealing Butterfly Valve

Installation, use and maintenance precautions:

- 1, products are already before delivery in accordance with relevant standards (GB/T13927-92, JB/T9092-99) regulation inspection qualified, actuators debugging finished. In order to guarantee the use of products result, please adjust fasteners, positioning device, etc.
- 2. the valve before installation should do as follows:
  - (1) indicating arrow on valve body for valve confined direction, must not install anti.
  - (2) whether the inspection pipe flanges valve size consistent, uniform when installation, flange gasket to tighten nut symmetrical effect offsets.
  - (3) do check with this product operating conditions of temperature, pressure, corrosion resistance; whether conform
  - (4) check valve channel and the hoist thing, if have adhesion dirt whether should be cleaned up clean sewage shall not damage when sealing surface;
  - (5) check the valve parts for tighten or intact;
- 6 this valve one-way seal, 90 ° , 0 ° rotating ° , 90, all of the valve fully observed whether conform with the hoist position. And examined for jam phenomenon.
- 3, the valve can be installed at any position, can truncate the medium, also can adjust medium

- 4, manual operation clockwise for customs clearance, counterclockwise for open, when operating watch the location pointer or indicator plate scale;
- 5, valves in use should be timely met fault and investigate the cause, promptly eliminate, not break, forced on-off;
- 6 after install, such as pipe to strength test, should make valve is in full open position;
- 7 and if field to valve for inspection should press GB13927-92 or JB/T9092-99 standard provisions;
- 8, if the valve open frequently should be regularly give actuators charging lubricating grease;
- 9, relevant electric, pneumatic, hydraulic actuators please refer to the conditions of this kind of device manufacturers provide instructions;
- 10, door in handling process to avoid collision, lest injure seal face or actuators
- 11, valves, should put when long stored in a cool and dry place, butterfly plate in an open 5 ° ~ 7 ° position, and will both ends, and then to coverage, sealing the cases without package shall not overlap placed valve.

Possible fault and elimination method		
Malfunction	Reason	Smooth way
Packing leak	1.packing do not tight 2.packing quantity is lack of 3.packing weared and aged	1.fasten the packing grand nuts, tight the packing 2.add the packing 3.replace the packing
The valve and pipe welding point leak	1.sealing face damaged or has impurity 2.gasket is no use	1.repair the sealing face or clear the sealing face 2.replace the gasket
Inner leak	1.sealing face has impurity 2.sealing face damaged 3.sealing face plate loose	1.clear off the impurity 2.repair the seat or replace the sealing ring 3.fasten the fixing plate bolt equality
Open-close unfreely	1, sealing ring compression deformation is too large 2, actuators solid barrier 3, Foreign substance jam butterfly plate	1.adjust the fixing plate bolt equality 2.repair or replace the actuator 3.clear off the impurity, do not damage the sealing face