VBJG-3000 系列三偏心蝶阀

VBJG-3000 Series Triple Eccentric Butterfly Valve

VBJG-3000[1]系列三偏心蝶阀，密封面是采用圆锥面型式，在水平中心上有一个角度偏心，阀杆相对于流道中心在其轴向和径向上有两个距离偏心，实现了蝶板密封圈与阀座密封面之间在关闭之前无摩擦的运动，密封面上压力角大于摩擦角，使蝶板开启阻力极低，快速实现关闭自动吻合密封动作。具有结构先进、密封可靠、寿命长、成本低等优点。是兼备调节、切断两种功能的经济实用自控阀。广泛应用于控制大流量、中低压差、要求泄漏严密的流体。

本产品符合 GB/T4213-2008 标准。

VBJG-3000[1] series triple offset butterfly valve, has two distance offset in the axial and radial directions relative to the center of the flow channel, which ensures no frictional movement between the disc sealing ring and the sealing surface of the valve seat before closing. The sealing surface is a conical type. And the pressure angle on the sealing surface is greater than the friction angle, so that the opening resistance of the butterfly disc is extremely low, and the closing and automatic matching sealing action is quickly realized. It has the advantages of advanced structure, reliable sealing, long life and low cost. It is an economical and practical automatic control valve with both functions of adjustment and cut-off. It is widely used to control fluids with large flow, medium and low differential pressure, and strict leakage requirements.

This product complies with GB/T4213-2008 standard.

型号编码规则：

Model coding rules:

Pro. type 产品类型		Pro. No. 阀门型号	Steam jacket 保温型式	Connection type 连接方式	Seat type 阀座型式
VBJG	-	300	0	X	X
蝶阀		三偏心	无要求	0 法兰式 1 对夹式	2 复合密封
Butterfly valve		Triple eccentric	None	0 Flange type 1Wafer type	2 Compound seal

注[1]：VBJG-3000 系列对应旧型号 VBJG。

Note [1]: VBJG-3000 series corresponds to the old model VBJG

产品特点

1、 三偏心密封蝶阀与执行器的连接尺寸按 IS05211 标准进行设计，通用性强，安装简单方便。

2、 三偏心密封蝶阀采用三偏心结构，适用于高温高压等复杂工况并要求严密切断的场合，开启力矩小。

3、 阀体与阀板有多种材料组合，以满足不同压力、温度、介质的需要，该产品使用温度从-100 到 550 摄氏度，公称压力从 Class150/PN10,16,20 至 Class1500/PN250,260。

4、 阀座和阀体采用整体式结构，或者分体式结构，阀座密封面采用堆焊高强度耐腐蚀合金材料，保证了阀体密封面的可靠性，产品使用寿命长，基本上做到零维护。

5、 密封圈采用不锈钢全金属堆焊硬质合金和多层次组合密封材料两种，阀座和密封圈结构相对独立，易更换，而且具有互换性，维修方便。

6、 整体式的阀杆，并采用高强度的不锈钢材料，阀门承受的允用压差大；台阶式结构设计能有效防止阀杆飞出，大大保证阀门安全性。

7、 采用轴封结构有效防止不洁净的介质等杂质进入阀体和阀杆之间的间隙，避免阀门出现卡死现象。

8、 填料系统采用碟簧动态加载补偿结构，可以避免填料处绝对不外漏，可以达到 TA-Luft 标准要求。

9、 该系列产品金属密封圈结构泄漏等级可达 Class V 级，多层次组合密封圈结构泄漏可达零泄漏。

10、产品设计选材符合与环保相关标准和法律、法规、节能降耗的要求。

Product Features

1. The connection size of the triple offset sealing butterfly valve and the actuator is designed according to the IS05211 standard, with strong versatility and simple and convenient installation.

2. The triple eccentric sealing butterfly valve adopts the triple eccentric structure, which is suitable for the occasions where high temperature and high pressure and other complex working conditions are required and strict shutoff is required, and the opening torque is small.

3. The valve body and valve disc have a variety of choices of material combinations to meet the needs of different pressures, temperatures and media. The operating temperature of this product ranges from -100 to 550 degrees Celsius, and the nominal pressure ranges from Class150/PN10, 16, 20 to Class1500/PN250, 260.

4. The integral seat structure or split seat structure of valve seat and valve body and valve seat sealing surface made of high-strength corrosion-resistant alloy material, ensure the reliability of the sealing surface of the valve body. The product has a long service life and basically achieves zero maintenance.

5. The sealing ring is made of stainless steel all-metal surfacing cemented carbide and multi-layer combined sealing materials. The valve seat and the sealing ring are relatively independent in structure, easy to replace,interchangeable and easy to maintain.

6. The integral valve stem is made of high-strength stainless steel material, and the allowable pressure differential that the valve bears is large; the stagesped structure design can effectively prevent the valve stem from blowing out and greatly ensure the safety of the valve.

7. The shaft sealing structure is used to effectively prevent impurities from entering the gap between the valve body and the valve stem, and prevent the valve from being stuck.

8. The packing system adopts a disc spring dynamic loading compensation structure, which can avoid absolutely leakage at the packing, and can meet the TA-Luft standard requirements.

9. The leakage level of the metal sealing ring structure of this series can reach Class V, and the leakage of the multi-level combined sealing ring structure can reach zero leakage.

10. The product design and material selection meet the requirements of environmental protection-related standards, laws, regulations, and energy conservation and consumption reduction.

三偏心原理：

Principle of triple eccentric:

第一偏心：阀杆中心偏离密封面中心；

第二偏心：阀杆中心偏离阀体（流道）中心；

第三偏心：密封面的中心线与阀体（流道）中心线

offset 1: the center of the valve stem deviates from the center of the sealing surface;

offset 2: the center of the valve stem deviates from the center of the valve body (flow channel);

offset 3: the centerline of the sealing surface deviates from the centerline of the valve body (flow channel)

注[1]：VBJG-3000 系列对应旧型号 VBJG。

Note【1】：VBJG-3000 series corresponds to the old model VBJG.

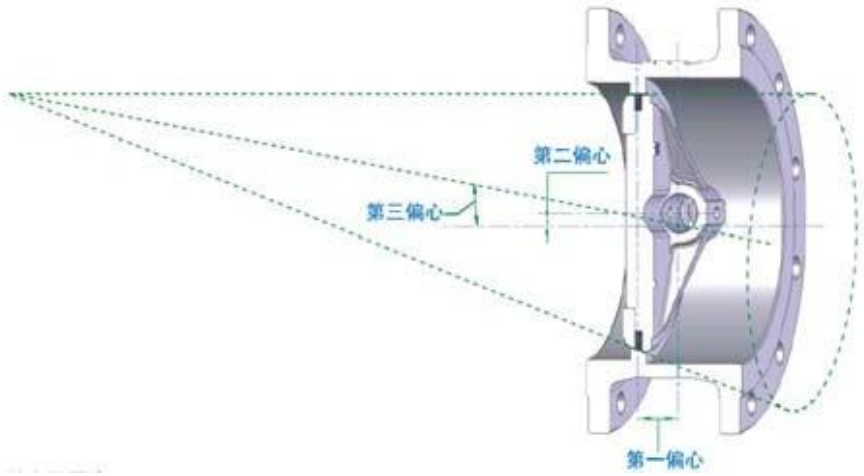


图 1. 结构原理图

Fig. 1 Structural schematic diagram

标准规格 Standard specifications

阀体 Valve body

型　式 Valve type	三偏心型 Triple eccentric type
公称通径 Nominal diameter	50～2000mm（2"～80"）
公称压力 Nominal pressure	PN10、16、20、25、40、50、63、100、110；Class150、300、600
连接型式 Connection type	对夹式 RF、法兰 Flangeless (wafer type) RF, flange type 密封面型式：RF、MFM、RJ Type of sealing surface ：RF、MFM、RJ
法兰标准 Flange standard	JB/T79.1-94(PN16);JB/T79.2-94(PN40\PN63); ASME B16.5-2013;HG20592-2009、HG20615-2009
材　料 Material	见表2 See Table 2
使用温度 Operating temp.	－100℃～＋449℃
压盖型式 Gland type	螺栓压紧式 Bolt compression type
填　料 Gland	PTFE/石墨PTFE/Graphite

阀内组件 TRIM

阀板结构 Valve disc structure	圆锥面型 Conical surface
流量特性 Flow characteristics	近似等百分比、ON-OFF Approximate equal percentage
阀板转角 Disc rotation corner	全开 90° Full open 90°
阀座材料 Valve seat material	详见“典型材料选择”。 See "Typical Material Selection" for details.
阀板材料 Valve disc material	详见“典型材料选择”。 See "Typical Material Selection" for details.
旋转轴材料 Rotary shaft material	详见“典型材料选择”。 See "Typical Material Selection" for details.

执行机构

Actuator

气动执行机构 Pneumatic actuator

型号 Model / 规格 Specification	气动执行机构 Pneumatic actuator	
	AT	AW
供气压力 Air supply pressure	400～700kPa	
气源接口 Air connection	NPT 1/8″、NPT 1/4″、NPT 3/8″、NPT 1/2″、NPT 3/4″	
行程角度 Stroke angle	60° 或 90°	
回　差 Hysteresis error	小于全行程的 2% Less than 2% of the full stroke	
基本误差 Intrinsic error	小于全行程的±2% Less than ±2% of the full stroke	
环境温度 Ambient temp.	标准型-20～+80℃;高温型-15°～+120℃;低温型-40～+80℃ Standard type -20～+80℃; High-temperature type -15°～+120℃; Low-temperature type -40～+80℃	
附　件 Accessories	电磁阀、空气过滤减压器、保位阀、行程开关、阀位传送器、手轮机构等 Solenoid valve, air filter regulator, position retaining valve, limit switch, valve position transmitter,handwheel etc.	

电动执行机构　Electric actuator

型号　Model / 规格 Specifications	电动执行机构 Electric actuator	
	EI	M8000
输入信号 Input signal	4～20mA・DC	4～20mA・DC
电源电压 Supply voltage	220V/ AC 60Hz	380V/AC 50/60Hz
行程角度 Stroke angle	90° ±5°	—
回　差 Hysteresis error	≤2 %	
基本误差 Intrinsic error	±2%	
环境温度 Ambient temp.	－20～＋70℃	-25℃～+80℃

性能 PERFORMANCE

执行机构性能参数 Actuator performance data	AT、AW 系列气动执行机构 AT, AW series pneumatic actuator	EI、M8000 系列电动执行机构 EI, M8000 series electric actuator
阀作用型式	根据执行机构与旋转轴之间键连接位置不同，可实现阀的气－关式或气－开式 Depending on the key connection position	电关式或电开式 Electric-to-close or

Valve acting type	between the actuator and rotary shaft, valve can realize air-to-close or air-to-open action type.	electric-to=open
泄漏量 Leakage rate	见表 2 See table 2	见表 2 See table 2
回差 Hysteresis error	小于全行程的 2% Less than 2% of the full stroke	≤2 %
基本误差 Intrinsic error	小于全行程的±2% Less than 2% of the full stroke	±2%
可调范围 Rangeability	50:1	50:1
死 区 Dead band	—	1%

Cv 值

Cv 值的定义：阀处于全开状态，两端压差为 1 磅/英寸^2（0.07kgf/cm^2）的条件下，60°F(15.6℃)的清水，每分钟通过阀的美加仑数。

Definition of Cv value: When the valve is fully open, the number of gallons of clean water at 60 ℉（15.6℃）at 1lb/inch²（0.07kgf/cm²） the differential pressure across the valve that passes through the valve.

表 1-1 VBJG-300002、VBJG-300012、VBJG-300022 整体式阀座结构额定 Cv 值

Table 1-1 VBJG-300002, VBJG-300012,VBJG-300022 integral valve seat structure rated Cv value

Class150/ PN10,16,20	公称通径 Nominal diameter	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1800	1900	2000
		2″	2½"	3″	4″	5″	6″	8″	10″	12″	14″	16″	18″	20″	24″	28″	32″	36″	40″	44″	48″	52″	56″	60″	64″	72″	76″	80″
	90° 额定 Cv 值 90° Rated Cv	40	68	175	290	580	760	1260	2650	3900	7400	9900	12500	16500	22700	28300	43220	54000	62800	80000	101000	130800	143300	165600	174800	210500	225000	260000
	60° 额定 Cv 值 60° Rated Cv	36	60	110	220	330	520	960	1650	2400	3100	4000	4900	6700	9600	13200	16500	22700	26500	32000	42000	49000	57000	64500	75300	95000	106000	111000
Class300/ PN25,40,50	公称通径 Nominal diameter	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600			
		2″	2½"	3″	4″	5″	6″	8″	10″	12″	14″	16″	18″	20″	24″	28″	32″	36″	40″	44″	48″	52″	56″	60″	64″			
	90° 额定 Cv 值 90° Rated Cv	40	68	175	290	580	760	1050	2120	3900	6450	9000	11053	14500	22700	27440	39400	52300	59500	73000	80000	101000	111000	130800	143300			
	60° 额定 Cv 值 60° Rated Cv	36	60	110	220	330	520	820	1440	2400	2850	3900	4850	5850	9000	12500	17000	22400	25600	30000	39400	43220	49000	57000	64500			
Class600 /PN63,100,110	公称通径 Nominal diameter	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1100	1200							
		2″	2½"	3″	4″	5″	6″	8″	10″	12″	14″	16″	18″	20″	24″	28″	32″	36″	40″	44″	48″							
	90° 额定 Cv 值 90° Rated Cv						400	920	1700	2300	2750	4000	4850	6450	11340	16500	21700	27000	32000	40800	49000							
	60° 额定 Cv 值 60° Rated Cv						350	750	1150	1700	2120	2750	3200	4180	6700	9600	12500	16000	19000	24000	28300							

表 1-2 VBJG-300002、VBJG-300022 分体式阀座结构额定 Cv 值

Table 1-2 Rated Cv value of VBJG-300002,VBJG-300022 split valve seat structure

DN	NPS	TrimA		TrimB	
mm	in	60°Cv	90°Cv	60°Cv	90°Cv
80	3	85	90	85	90
100	4	180	200	180	200
125	5	275	290	275	290
150	6	330	360	330	360
200	8	760	870	760	870
250	10	1350	1650	1260	1560
300	12	2250	2850	1950	2500
350	14	2650	3600	2250	2650
400	16	3900	5400	3100	3540
450	18	4300	5850	3800	4650
500	20	6100	8500	4650	6100
600	24	9000	13000	7000	9700
700	28	12280	18000	9600	13000
750	30	14500	22700		
800	32	16500	25600	12500	17000
900	36	20160	32000	16000	21700
1000	40	26500	43220	19000	27000
1100	44	32000	52300	24000	32000
1200	48	42000	69700	28300	39400
1300	52	49000	80000	32000	45600
1400	56	52300	95000	39400	52300
1500	60	59500	106000	43220	62800
1600	64	69700	111000	49000	69700
1800	72	95000	143300		
1900	76	106000	174800		
2000	80	111000	204400		

注：1.TrimA：最大压差△Pmax. 20bar；TrimB：最大压差△Pmax. 50bar

2.阀座可以分为整体式阀座和分体式阀座两种结构；

Note: 1. TrimA: maximum differential pressure Pmax. 20bar; TrimB: Maximum differential pressure Pmax. 50 bar

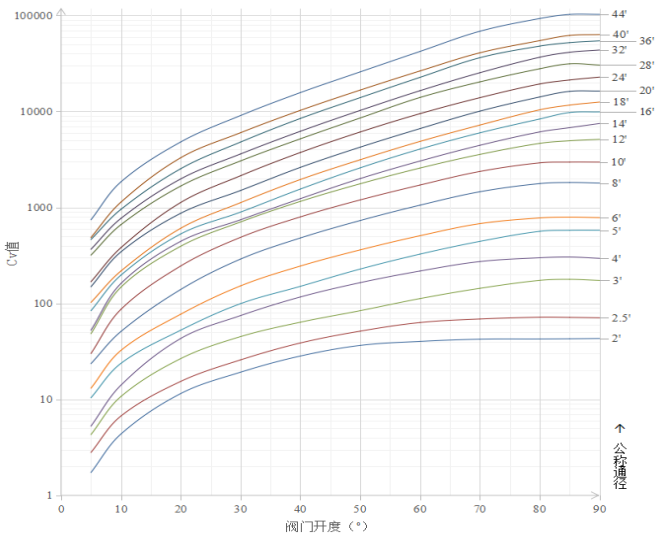
2. The seat can be divided into two structures: integral valve seat and split valve seat.

流量特性 Flow characteristics

整体式阀座典型的流量特性曲线 Typical flow characteristic curve of integral valve seat

各开度 Cv 与全开 Cv 的比值：Ratio of Cv at different opening to Cv at full opening

阀门开度：Valve opening：



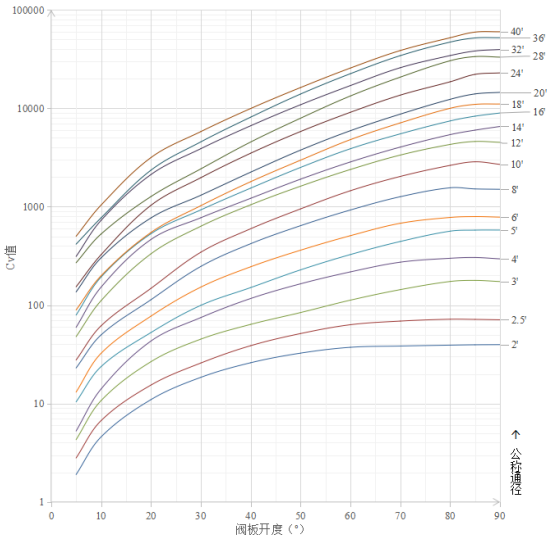


图 2.1 Class150/PN10/16 流量特性曲线图

Figure 2.1 Class150/PN10/16 flow characteristic curve

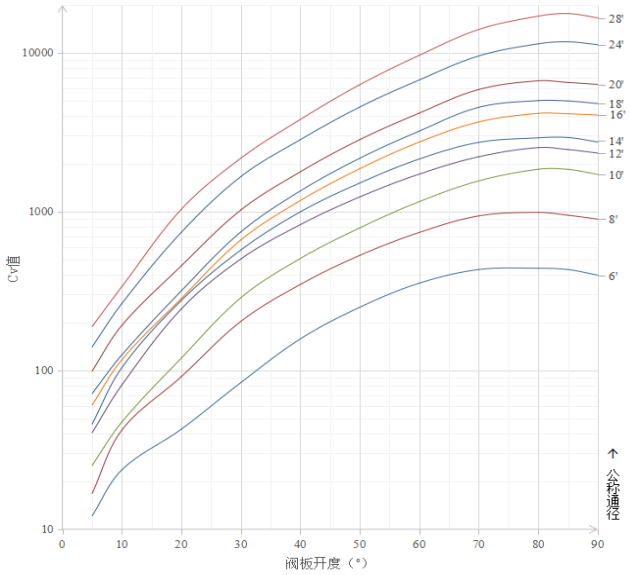


图 2.2 Class300/PN25/40 流量特性曲线图

Figure 2.2 Class300/PN25/40 flow characteristic curve

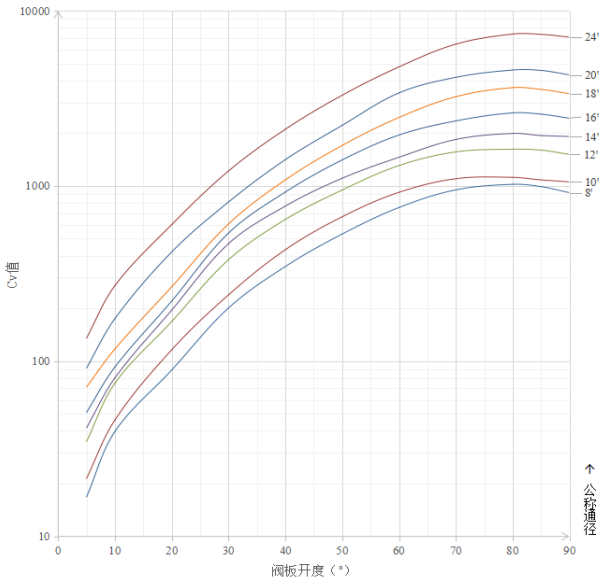


图 2.3 Class600/PN63/100/110 流量特性曲线图

Figure 2.3 Class600/PN63/100/110 flow characteristic curve

图 2.4 Class900/PN150/160 流量特性曲线

Figure .4 Class900/PN150/160 flow characteristic curve

分体式阀座典型的流量特性曲线　Typical flow characteristic curve of split valve seat

各开度 Cv 与全开 Cv 的比值：

Ratio of each opening degree Cv to full opening Cv:

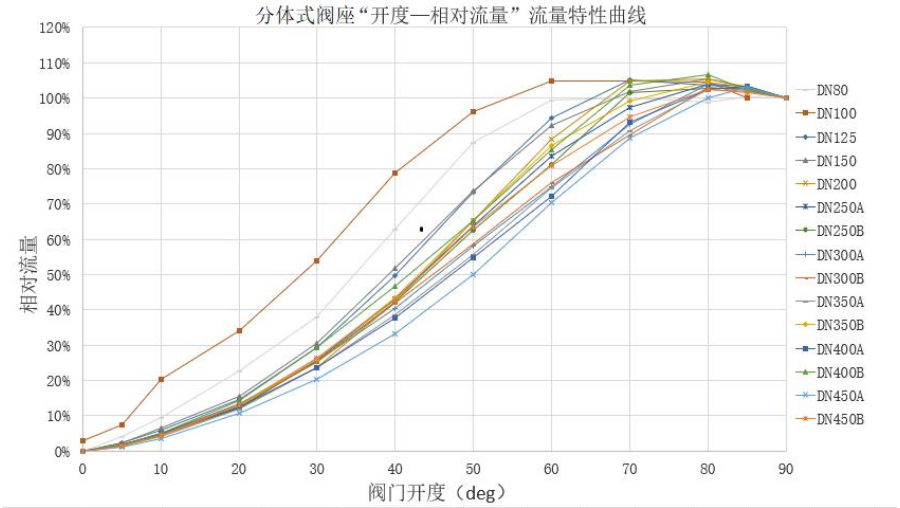


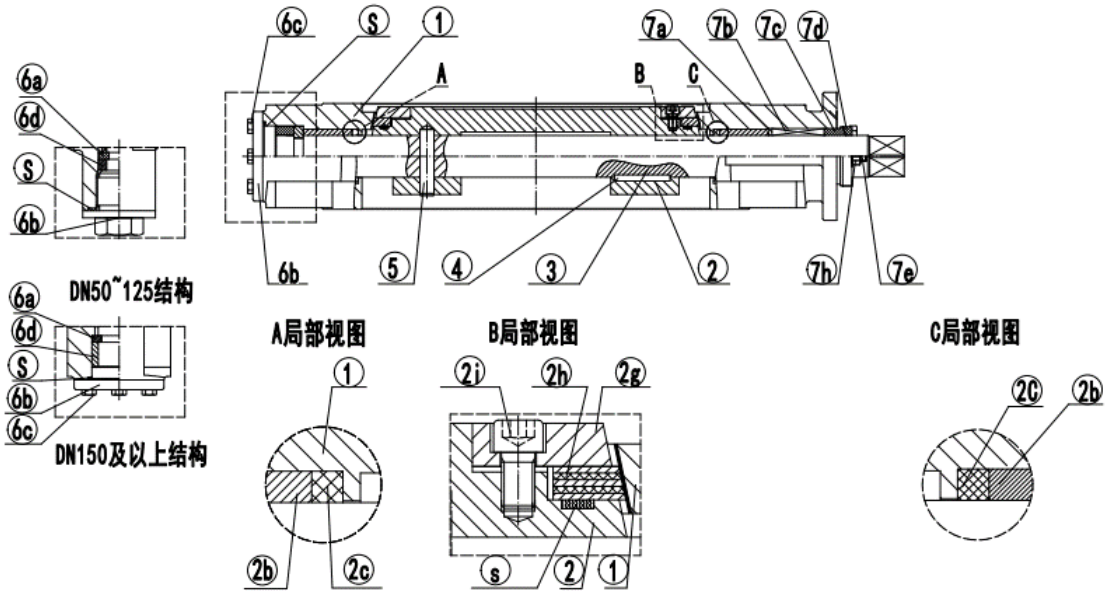
图 3 分体式阀座流量特性曲线图

Fig. 3 Flow characteristic curve of split valve seat

阀体结构

Valve body structure

整体式阀座常温型：Integral valve seat and normal Temp.



整体式阀座高温型：Integral valve seat and high Temp.

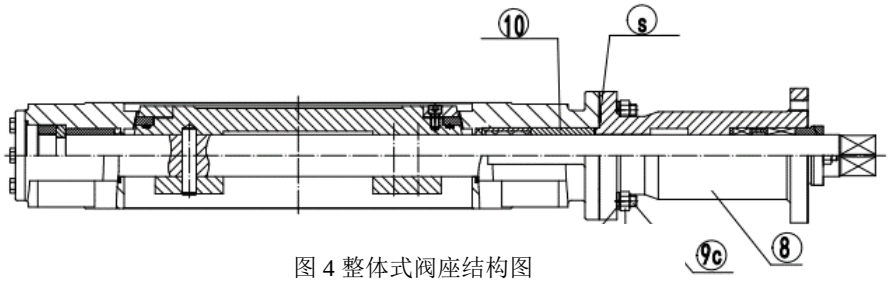


图 4 整体式阀座结构图

Fig.4 Integral valve seat structure

分体式阀座常温型：

Split valve seat and normal Temp.

分体式阀座高温型：

Split valve seat and high Temp.

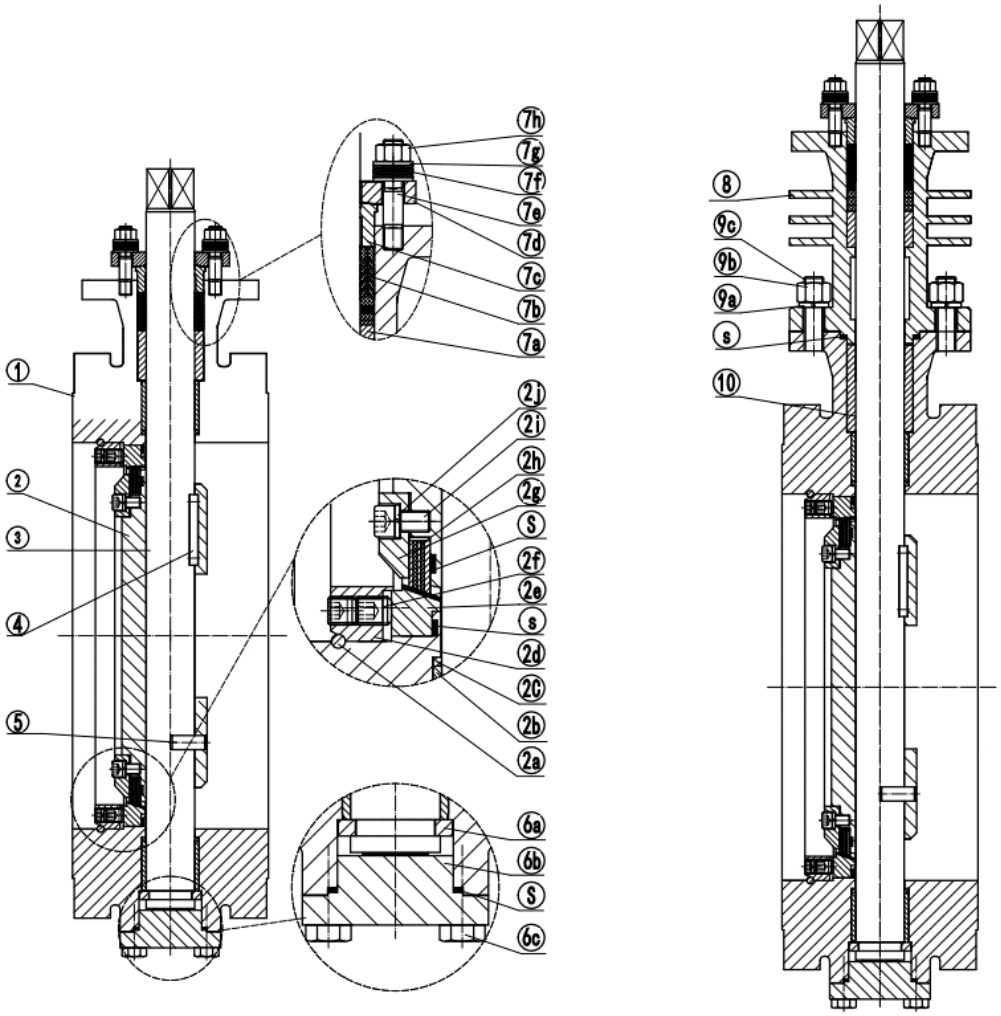


图 5 分体式阀座结构图

Fig.5 Split valve seat structure

注：分体式阀座和密封圈均可拆卸，而且具有互换性。

Note: The split valve seat and seal ring are removable and interchangeable.

典型材料选择—请参考基本配置结构图

Note: The split valve seat and seal ring are removable and interchangeable.

Typical Material Selection-Please refer to Basic Configuration Structural Diagram

编号	零部件名称	碳钢阀体	不锈钢阀体	备注
1	阀体	WCB/LCB/LCC	CF8/CF8M/CF3/CF3M	
2	阀板	CF8/CF8M/CF3M	CF8/CF8M/CF3M	
2a	限位圈	304/316L	304/316L	
2b	轴承	316L+CY13	316L+CY13	
2c	轴封密封圈	柔性石墨	柔性石墨	
2d	阀座挡圈	F304/F316L	F304/F316L	
2e	阀座	F304+HF/F316L+HF	F304+HF/F316L+HF	
2f	螺钉	304/316L	304/316L	
2g	压圈	F304/F316L	F304/F316L	
2h	密封圈	F304+HF/F316L+HF	F304+HF/F316L+HF	
2i	内六角螺栓	304/316L	2304/316L	
2j	弹簧垫圈	304/316L	304/316L	
3	阀杆	630/Inconel718	630/Inconel718	
4	键	630/Inconel718	630/Inconel718	
5	圆柱销	630/Inconel718	630/Inconel718	
6a	对开环	316L+CY13	316L+CY13	
6b	端盖	304+HF/316L+HF	304+HF/316L+HF	
6c	六角螺栓	304/A453-Gr.660	304/A453-Gr.660	
6d	金属垫	316L	316L	
7a	填料垫	316L	316L	
7b	填料	PTFE/石墨	PTFE/石墨	
7c	填料压盖	316L	316L	
7d	填料压板	304	304	
7e	全螺纹螺柱	ASTM A193M-B8Cl.2	ASTM A193M-B8Cl.2	
7f	蝶型弹簧	631	631	
7g	平垫	304	304	
7h	六角螺母	ASTM A194M-8	ASTM A194M-8	
8	上阀盖	F304/F316L	F304/F316L	
9a	防松垫圈	316L	316L	
9b	六角螺母	A453-Gr.660	A453-Gr.660	
9c	全螺纹螺柱	A453-Gr.660	A453-Gr.660	
10	支撑套	304/316L	304/316L	
s	缠绕垫片	316L+石墨/Inconel600+4122	316L+石墨/Inconel600+4122	

◆应要求可以提供其他选择

□建议的备品备件：S 缠绕垫片；7b 填料。

1.表中所列材质为 VBJG-300002 系列三偏心多层次蝶阀基本典型材料，其阀体可采用多种材料制造，包括：碳钢及低温钢，如：WCB、LCB、LCC；高温合金钢，如：WC6、WC9；奥氏体不锈钢，如：CF8、CF8、CF3M；双相及超双向不锈钢，如：CD3MN、CD3MWCuN；以及 TC4 钛材；各种不同的镍合金，包括蒙乃尔合金，哈氏合金，Inconel 合金等。

2.阀板材质的选择应优于或等于阀体材质。

3.HF 表示表面进行硬化处理（阀体 Class300 以下 WCB/铬钼钢堆焊 304；CF8/CF8M/CF3/CF3M 不堆焊；Class600

及以上堆焊 ST 合金）。

5.若需要等压双向密封，请另外详询技术部。

6.介质有腐蚀性或高温工况但不能使用 Inconel718 时阀杆采用 S20910，详询技术部。

◆Other options available upon request

☐Recommended spare parts: S-wound gasket; 7b Packing.

1. The materials listed in the table are the basic typical materials of VBJG-300002 series triple eccentric multi-layer butterfly valves. The valve body can be made of a variety of materials, including:

Carbon steel and low temperature steel, such as: WCB, LCB, LCC; High temperature alloy steel, such as: WC6, WC9; austenitic stainless steels such as: CF8, CF8, CF3M; Duplex and ultra-bidirectional stainless steels, such as: CD3MN, CD3MWCuN; and TC4 titanium; A variety of different nickel alloys, including Monel, Hastelloy, Inconel, etc.

2. The selection of valve disc material should be better than or equal to the valve body material.

3. HF means that the surface is hardened (valve body below Class300 WCB/chromium molybdenum steel surfacing 304; CF8/CF8M/CF3/CF3M is not surfaced; Class600 and above surfacing ST alloy).

5. If bi-directional sealing of the same pressure is required, please contact the technical department for details.

6. When corrosive medium or high temperature conditions but Inconel718 cannot be used, the valve stem shall use S20910. Please contact the technical department for details.

整体式阀座执行机构配置及最大允许压差 （表 3）

The maximum allowable pressure differential of actuator configuration for integral seat structure (Table 3)

表 3－1 Class150/PN10/16/20 配双作用气开（FC）气缸执行机构（气源压力：500kPa)

Table 3-1 Class150/PN10/16/20 with double-acting pneumatic opening (FC) cylinder actuator (air source pressure: 500kPa)

100 kPa

执行机构 Actuator	阀门状态 Valve state	公称压力 Nominal pressure	公称通径 Nominal diameter																						
			50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400	1600	1800	2000
			2″	2½"	3″	4″	5″	6″	8″	10″	12″	14″	16″	18″	20″	24″	28″	32″	36″	40″	48″	56″	64″	72″	80″
AT75DR0	切断 On-off	Class150/ PN10,16,20	2																						
AT83DR0	切断 On-off	Class150/ PN10,16,20	20	13																					
AT92DR0	切断 On-off	Class150/ PN10,16,20		20	5																				
AT105DR0	切断 On-off	Class150/ PN10,16,20			20	7																			
AT125DR0	切断 On-off	Class150/ PN10,16,20				20	9																		
AT140DR0	切断 On-off	Class150/ PN10,16,20					20	15	5																
AT160DR0	切断 On-off	Class150/ PN10,16,20						20	19																
AT190DR0	切断 On-off	Class150/ PN10,16,20							20	12	2														
AT210DR0	切断 On-off	Class150/ PN10,16,20								20	8														
AT240DR0	切断 On-off	Class150/ PN10,16,20									19	6													
AT270DR0	切断 On-off	Class150/ PN10,16,20									20	19	9	1											
AT300DR0	切断 On-off	Class150/ PN10,16,20											18	8	3										
AT350DR0	切断 On-off	Class150/ PN10,16,20											20	20	13	3	2								
AW10D00F12	切断 On-off	Class150/ PN10,16,20							4																
AW12D00F10	切断 On-off	Class150/ PN10,16,20							12																
AW16D00F12	切断 On-off	Class150/ PN10,16,20							20	11	1														
AW18D001	切断 On-off	Class150/ PN10,16,20								18	6														
AW22D001	切断 On-off	Class150/ PN10,16,20								20	16	3													
AW22D002	切断 On-off	Class150/ PN10,16,20									20	13	5												
AW24D002	切断 On-off	Class150/ PN10,16,20										20	12	3											
AW27D002	切断 On-off	Class150/ PN10,16,20											15	6	1										
AW27D003	切断 On-off	Class150/ PN10,16,20											20	16	10										
AW30D003	切断 On-off	Class150/ PN10,16,20												20	15	4	2								
AW32D003	切断 On-off	Class150/ PN10,16,20													20	7	5								
AW35D003	切断 On-off	Class150/ PN10,16,20														11	8	2							
AW35D004	切断 On-off	Class150/ PN10,16,20														16	12	4							
AW40D004	切断 On-off	Class150/ PN10,16,20														20	20	10	5	1					
AW45D004	切断 On-off	Class150/ PN10,16,20																16	9	5					
AW50D004	切断 On-off	Class150/ PN10,16,20																19	12	7					
AW50D005	切断 On-off	Class150/ PN10,16,20																20	15	10	2				
AW55D005	切断 On-off	Class150/ PN10,16,20																	20	15	5				
AW60D005	切断 On-off	Class150/ PN10,16,20																		20	11				
AW65D005	切断 On-off	Class150/ PN10,16,20																			15				
AW70D006	切断 On-off	Class150/ PN10,16,20																			20				

注：1. 必须保证 500kPa 气源压力，若现场只有 400kPa 气源压力 ，执行机构配置请另外详询技术部。

2. 若管道直径与阀门口径变径 3 档及以上，且介质为高温蒸汽，执行机构配置请另外详询技术部。

3. 以上为常温工况下的最大允许压差，当温度超过 400℃时，最大允许压差需下降 20%，执行机构配置请另外详询技术部。

Note: 1. The air supply pressure of 500kPa must be guaranteed. If there is only 400kPa air supply pressure on site, please consult the technical department for details of the actuator configuration.

2. If the diameter of the pipeline and the diameter of the valve are reduced by 3 stages or more, and the medium is high-temperature steam, please consult the technical department for details on the configuration of the actuator.

3. The above is the maximum allowable differential pressure under normal temperature conditions. When the temperature exceeds 400℃, the maximum allowable differential pressure needs to be reduced by 20%. For the configuration of the actuator, please consult the technical department for details

表 3－2 Class150/PN10/16/20 配双作用气关（FO）气缸执行机构 (气源压力：500kPa)　　100 kPa

Table 3-2 Class150/PN10/16/20 combined with double-acting air-to-close (FO) cylinder type actuator(Air supply:500kPa)

执行机构 Actuator	阀门状态 Valve state	公称压力 Nominal pressure	公称通径 Nominal diameter																						
			50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400	1600	1800	2000
			2″	2½"	3″	4″	5″	6″	8″	10″	12″	14″	16″	18″	20″	24″	28″	32″	36″	40″	48″	56″	64″	72″	80″
AT75DD0	切断 On-off	Class150/ PN10,16,20	2																						
AT83DD0	切断 On-off	Class150/ PN10,16,20	20	13																					
AT92DD0	切断 On-off	Class150/ PN10,16,20		20	5																				
AT105DD0	切断 On-off	Class150/ PN10,16,20			20	7																			
AT125DD0	切断 On-off	Class150/ PN10,16,20				20	9																		
AT140DD0	切断 On-off	Class150/ PN10,16,20					20	15	5																
AT160DD0	切断 On-off	Class150/ PN10,16,20						20	19																
AT190DD0	切断 On-off	Class150/ PN10,16,20							20	12	2														
AT210DD0	切断 On-off	Class150/ PN10,16,20								20	8														
AT240DD0	切断 On-off	Class150/ PN10,16,20									19	6													
AT270DD0	切断 On-off	Class150/ PN10,16,20									20	19	9	1											
AT300DD0	切断 On-off	Class150/ PN10,16,20											18	8	3										
AT350DD0	切断 On-off	Class150/ PN10,16,20											20	20	13	3	2								
AW10D00F12	切断 On-off	Class150/ PN10,16,20							4																
AW12D00F10	切断 On-off	Class150/ PN10,16,20							12																
AW16D00F12	切断 On-off	Class150/ PN10,16,20							20	11	1														
AW18D001	切断 On-off	Class150/ PN10,16,20								18	6														
AW22D001	切断 On-off	Class150/ PN10,16,20								20	16	3													
AW22D002	切断 On-off	Class150/ PN10,16,20									20	13	5												
AW24D002	切断 On-off	Class150/ PN10,16,20										20	12	3											
AW27D002	切断 On-off	Class150/ PN10,16,20											15	6	1										
AW27D003	切断 On-off	Class150/ PN10,16,20											20	16	10										
AW30D003	切断 On-off	Class150/ PN10,16,20												20	15	4	2								
AW32D003	切断 On-off	Class150/ PN10,16,20													20	7	5								
AW35D003	切断 On-off	Class150/ PN10,16,20														11	8	2							
AW35D004	切断 On-off	Class150/ PN10,16,20														16	12	4							
AW40D004	切断 On-off	Class150/ PN10,16,20														20	20	10	5	1					

执行机构 Actuator	阀门状态 Valve state	公称压力 Nominal pressure	公称通径 Nominal diameter																					
			50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400	1600	1800	2000
			2″	2½"	3″	4″	5″	6″	8″	10″	12″	14″	16″	18″	20″	24″	28″	32″	36″	40″	48″	56″	64″	72″	80″
AW45D004	切断 On-off	Class150/ PN10,16,20																16	9	5					
AW50D004	切断 On-off	Class150/ PN10,16,20																19	12	7					
AW50D005	切断 On-off	Class150/ PN10,16,20																20	15	10	2				
AW55D005	切断 On-off	Class150/ PN10,16,20																	20	15	5				
AW60D005	切断 On-off	Class150/ PN10,16,20																		20	11				
AW65D005	切断 On-off	Class150/ PN10,16,20																			15				
AW70D006	切断 On-off	Class150/ PN10,16,20																			20				

注：1.必须保证 500kPa 气源压力，若现场只有 400kPa 气源压力 ，执行机构配置请另外详询技术部。

2.若管道直径与阀门口径变径 3 档及以上，且介质为高温蒸汽，执行机构配置请另外详询技术部。

3.以上为常温工况下的最大允许压差，当温度超过 400℃时，最大允许压差需下降 20%，执行机构配置请另外详询技术部。

Note: 1. The air supply pressure of 500kPa must be guaranteed. If there is only 400kPa air supply pressure on site, please consult the technical department for details of the actuator configuration.

2. If the diameter of the pipeline and the diameter of the valve are reduced by 3 stages or more, and the medium is high-temperature steam, please consult the technical department for details on the configuration of the actuator.

3. The above is the maximum allowable differential pressure under normal temperature conditions. When the temperature exceeds 400℃, the maximum allowable differential pressure needs to be reduced by 20%. For the configuration of the actuator, please consult the technical department for details.

表 3－3 Class300/PN25/40/50 配双作用气开（FC）气缸执行机构（气源压力：500kPa)

Table 3-3 Class300/PN25/40/50 Combined with double acting, air-to-open(FC) , cylinder type actuator(Air supply: 500kPa)

100 kPa

执行机构 Actuator	阀门状态 Valve state	公称压力 Nominal pressure	公称通径 Nominal diameter																						
			50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400	1600	1800	2000
			2″	2½"	3″	4″	5″	6″	8″	10″	12″	14″	16″	18″	20″	24″	28″	32″	36″	40″	48″	56″	64″	72″	80″
AT83DR0	切断 On-off	Class300/ PN25,40,50	29																						
AT92DR0	切断 On-off	Class300/ PN25,40,50	50	36																					
AT105DR0	切断 On-off	Class300/ PN25,40,50		50	21																				
AT125DR0	切断 On-off	Class300/ PN25,40,50			46	23																			
AT140DR0	切断 On-off	Class300/ PN25,40,50			50	50	31																		
AT160DR0	切断 On-off	Class300/ PN25,40,50					50	42																	
AT190DR0	切断 On-off	Class300/ PN25,40,50						50	41																
AT210DR0	切断 On-off	Class300/ PN25,40,50							50	21															
AT240DR0	切断 On-off	Class300/ PN25,40,50								39															
AT270DR0	切断 On-off	Class300/ PN25,40,50								50	40														
AT300DD0	切断 On-off	Class300/ PN25,40,50									50	31													
AT350DD0	切断 On-off	Class300/ PN25,40,50										50	37												
AW16D00F12	切断 On-off	Class300/ PN25,40,50							39																
AW18D001	切断 On-off	Class300/ PN25,40,50							50																
AW22D001	切断 On-off	Class300/ PN25,40,50								34															
AW22D002	切断 On-off	Class300/ PN25,40,50								50	32														
AW24D002	切断 On-off	Class300/ PN25,40,50									46	23													
AW27D002	切断 On-off	Class300/ PN25,40,50									50	27													
AW27D003	切断 On-off	Class300/ PN25,40,50										47	30												
AW30D003	切断 On-off	Class300/ PN25,40,50										50	39	23											
AW32D003	切断 On-off	Class300/ PN25,40,50											48	30											
AW35D003	切断 On-off	Class300/ PN25,40,50											50	38	26										
AW35D004	切断 On-off	Class300/ PN25,40,50												46	33										
AW40D004	切断 On-off	Class300/ PN25,40,50												50	48	25									
AW45D004	切断 On-off	Class300/ PN25,40,50													50	36	27								
AW50D004	切断 On-off	Class300/ PN25,40,50														48	32								
AW50D005	切断 On-off	Class300/ PN25,40,50														50	36	23							
AW55D005	切断 On-off	Class300/ PN25,40,50															48	32	21						
AW60D005	切断 On-off	Class300/ PN25,40,50															50	44	31						
AW65D005	切断 On-off	Class300/ PN25,40,50																50	39	-	-	-	-	-	-
AW70D006	切断 On-off	Class300/ PN25,40,50																	50	-	-	-	-	-	-
AW85D007	切断 On-off	Class300/ PN25,40,50																		-	-	-	-	-	-

注：1.必须保证 500kPa 气源压力，若现场只有 400kPa 气源压力 ，执行机构配置请另外详询技术部。

2.若管道直径与阀门口径变径 3 档及以上，且介质为高温蒸汽，执行机构配置请另外详询技术部。

3.以上为常温工况下的最大允许压差，当温度超过 400℃时，最大允许压差需下降 20%，执行机构配置请另外详询技术部。

Note: 1. The air supply pressure of 500kPa must be guaranteed. If there is only 400kPa air supply pressure on site, please consult the technical department for details of the actuator configuration.

2. If the diameter of the pipeline and the diameter of the valve are reduced by 3 stages or more, and the medium is high-temperature steam, please consult the technical department for details on the configuration of the actuator.

3. The above is the maximum allowable differential pressure under normal temperature conditions. When the temperature exceeds 400℃, the maximum allowable differential pressure needs to be reduced by 20%. For the configuration of the actuator, please consult the technical department for details.

表 3－4 Class300/PN25/40/50 配双作用气关（FO）气缸执行机构（气源压力：500kPa)

Table 3-4 Class300/PN25/40/50 Combined with double-acting air-to-close (FO) cylinder type actuator(Air supply:500kPa) **100 kPa**

执行机构 Actuator	阀门状态 Valve state	公称压力 Nominal pressure	公称通径 Nominal diameter																						
			50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400	1600	1800	2000
			2″	2½"	3″	4″	5″	6″	8″	10″	12″	14″	16″	18″	20″	24″	28″	32″	36″	40″	48″	56″	64″	72″	80″
AT83DD0	切断 On-off	Class300/ PN25,40,50	29																						
AT92DD0	切断 On-off	Class300/ PN25,40,50	50	36																					
AT105DD0	切断 On-off	Class300/ PN25,40,50		50	21																				
AT125DD0	切断 On-off	Class300/ PN25,40,50			46	23																			
AT140DD0	切断 On-off	Class300/ PN25,40,50			50	50	31																		
AT160DD0	切断 On-off	Class300/ PN25,40,50					50	42																	
AT190DD0	切断 On-off	Class300/ PN25,40,50						50	41																
AT210DD0	切断 On-off	Class300/ PN25,40,50							50	21															
AT240DD0	切断 On-off	Class300/ PN25,40,50								39															
AT270DD0	切断 On-off	Class300/ PN25,40,50								50	40														
AT300DD0	切断 On-off	Class300/ PN25,40,50									50	31													
AT350DD0	切断 On-off	Class300/ PN25,40,50										50	37												
AW16D00F12	切断 On-off	Class300/ PN25,40,50							39																
AW18D001	切断 On-off	Class300/ PN25,40,50							50																
AW22D001	切断 On-off	Class300/ PN25,40,50								34															
AW22D002	切断 On-off	Class300/ PN25,40,50								50	32														
AW24D002	切断 On-off	Class300/ PN25,40,50									46	23													
AW27D002	切断 On-off	Class300/ PN25,40,50									50	27													
AW27D003	切断 On-off	Class300/ PN25,40,50										47	30												
AW30D003	切断 On-off	Class300/ PN25,40,50										50	39	23											
AW32D003	切断 On-off	Class300/ PN25,40,50											48	30											
AW35D003	切断 On-off	Class300/ PN25,40,50											50	38	26										
AW35D004	切断 On-off	Class300/ PN25,40,50												46	33										
AW40D004	切断 On-off	Class300/ PN25,40,50												50	48	25									
AW45D004	切断 On-off	Class300/ PN25,40,50													50	36	27								
AW50D004	切断 On-off	Class300/ PN25,40,50														48	32								
AW50D005	切断 On-off	Class300/ PN25,40,50														50	36	23							
AW55D005	切断 On-off	Class300/ PN25,40,50															48	32	21						

执行机构 Actuator	阀门状态 Valve state	公称压力 Nominal pressure	公称通径 Nominal diameter																						
			50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400	1600	1800	2000
			2″	2½"	3″	4″	5″	6″	8″	10″	12″	14″	16″	18″	20″	24″	28″	32″	36″	40″	48″	56″	64″	72″	80″
AW60D005	切断 On-off	Class300/ PN25,40,50															50	44	31						
AW65D005	切断 On-off	Class300/ PN25,40,50																50	39	-	-	-	-	-	-
AW70D006	切断 On-off	Class300/ PN25,40,50																	50	-	-	-	-	-	-
AW85D007	切断 On-off	Class300/ PN25,40,50																		-	-	-	-	-	-

注：1.必须保证 500kPa 气源压力，若现场只有 400kPa 气源压力 ，执行机构配置请另外详询技术部。

2.若管道直径与阀门口径变径 3 档及以上，且介质为高温蒸汽，执行机构配置请另外详询技术部。

3.以上为常温工况下的最大允许压差，当温度超过 400℃时，最大允许压差需下降 20%，执行机构配置请另外详询技术部。

Note: 1. The air supply pressure of 500kPa must be guaranteed. If there is only 400kPa air supply pressure on site, please consult the technical department for details of the actuator configuration.

2. If the diameter of the pipeline and the diameter of the valve are reduced by 3 stages or more, and the medium is high-temperature steam, please consult the technical department for details on the configuration of the actuator.

3. The above is the maximum allowable differential pressure under normal temperature conditions. When the temperature exceeds 400℃, the maximum allowable differential pressure needs to be reduced by 20%. For the configuration of the actuator, please consult the technical department for details.

表 3－5　Class600 /PN63,100,110　DN150~60 配双作用气开（FC）气缸执行机构（气源压力：500kPa）

Table 3-5 Class600/PN63,100,110 DN150~60 Combined with double-acting, air-to-open(FC) cylinder type actuator(Air supply: 500kPa)

100KPa

执行机构 Actuator	阀门状态 Valve state	公称通径 Nominal diameter								
		150	200	250	300	350	400	450	500	600
		6″	8″	10″	12″	14″	16″	18″	20″	24″
AW22D001	切断 On-off	50	50							
AW22D002	切断 On-off			40	20					
AW24D002	切断 On-off			50						
AW27D002	切断 On-off				40	22				
AW27D003	切断 On-off				50	40				
AW32D003	切断 On-off					50	40			
AW35D004	切断 On-off						50	40		
AW40D004	切断 On-off								40	
AW45D004	切断 On-off							50		40
AW50D004	切断 On-off								50	
AW55D005	切断 On-off									50

表 3－6 Class600 /PN63,100,110　DN150~60 配双作用气关（FO）气缸执行机构（气源压力：500kPa）

Table 3-6 Class600/PN63,100,110 DN 150~60 combined with double-acting air-to-close(FO) cylinder type actuator(Air supply: 500kPa)

100KPa

执行机构 Actuator	阀门状态 Valve state	公　称　通　径 Nominal diameter								
		150	200	250	300	350	400	450	500	600
		6″	8″	10″	12″	14″	16″	18″	20″	24″
AW22D001	切断 On-off	50	50							
AW22D002	切断 On-off			40	20					
AW24D002	切断 On-off			50						
AW27D002	切断 On-off				40	22				
AW27D003	切断 On-off				50	40				
AW32D003	切断 On-off					50	40			
AW35D004	切断 On-off						50	40		
AW40D004	切断 On-off								40	
AW45D004	切断 On-off							50		40
AW50D004	切断 On-off								50	
AW55D005	切断 On-off									50

注：1. 若管道直径与阀门口径变径 3 档及以上，且介质为高温蒸汽，执行机构配置请另外详询技术部。

2. 以上为常温工况下的最大允许压差，当温度超过 400℃时，最大允许压差需下降 20%，执行机构配置请另外详询技术部。

Note: 1..If the diameter of the valve is reduced by 3 stages or more, and the media is high-temperature steam, please consult the technical department for details of actuator's configuration.

2.The above is the maximum allowable differential pressure under normal temperature conditions. When the temperature exceeds 400℃, the maximum allowable differential pressure needs to be reduced by 20%. For the configuration of the actuator, please consult the technical department for details.

表 3－7　Class150/PN10/16/20 配单作用气开（FC）气缸执行机构（气源压力：500kPa)

Table 3-7 Class150/PN10/16/20 Combined with single-acting air-to-open(FC) cylinder type actuator (Air supply: 500kPa)

100 kPa

执行机构 Actuator	阀门状态 Valve state	公称压力 Nominal pressure	公称通径 Nominal diameter																		
			50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200
			2″	2½"	3″	4″	5″	6″	8″	10″	12″	14″	16″	18″	20″	24″	28″	32″	36″	40″	48″
AT92SR5	切断 On-off	Class150/ PN10,16,20	6																		
AT105SR5	切断 On-off	Class150/ PN10,16,20	20	13																	
AT125SR5	切断 On-off	Class150/ PN10,16,20		20	9																
AT140SR5	切断 On-off	Class150/ PN10,16,20			20	15	3														
AT160SR5	切断 On-off	Class150/ PN10,16,20				20	20	8													
AT190SR5	切断 On-off	Class150/ PN10,16,20						19	7												
AT210SR5	切断 On-off	Class150/ PN10,16,20						20	19												
AT240SR5	切断 On-off	Class150/ PN10,16,20							20	11	1										
AT270SR5	切断 On-off	Class150/ PN10,16,20								20	9										
AT300SR5	切断 On-off	Class150/ PN10,16,20									16	3									
AT350SR5	切断 On-off	Class150/ PN10,16,20									20	18	9								
AW16SR5F12	切断 On-off	Class150/ PN10,16,20							5												
AW18SR51	切断 On-off	Class150/ PN10,16,20							17												
AW22SR51	切断 On-off	Class150/ PN10,16,20							20	7											
AW24SR51	切断 On-off	Class150/ PN10,16,20								18	6										
AW24SR52	切断 On-off	Class150/ PN10,16,20								20	13	1									
AW27SR52	切断 On-off	Class150/ PN10,16,20									16	3									
AW30SR52	切断 On-off	Class150/ PN10,16,20									20	13	5								
AW32SR52	切断 On-off	Class150/ PN10,16,20										20	10	2							
AW32SR53	切断 On-off	Class150/ PN10,16,20											14	5							
AW35SR53	切断 On-off	Class150/ PN10,16,20											20	9	4						
AW40SR53	切断 On-off	Class150/ PN10,16,20												13	7						
AW45SR53	切断 On-off	Class150/ PN10,16,20												20	15	4	2				
AW45SR54	切断 On-off	Class150/ PN10,16,20													20	9	6				
AW50SR54	切断 On-off	Class150/ PN10,16,20														12	9	2			
AW55SR54	切断 On-off	Class150/ PN10,16,20														15	11	4			
AW55SR55	切断 On-off	Class150/ PN10,16,20														20	17	8	3		
AW60SR55	切断 On-off	Class150/ PN10,16,20															20	14	8	4	
AW65SR55	切断 On-off	Class150/ PN10,16,20																19	12	7	1
AW70SR55	切断 On-off	Class150/ PN10,16,20																20	20	15	5
AW70SR56	切断 On-off	Class150/ PN10,16,20																		20	10
AW75SR56	切断 On-off	Class150/ PN10,16,20																			14
AW80SR56	切断 On-off	Class150/ PN10,16,20																			20

注：1. 必须保证 500kPa 气源压力，若现场只有 400kPa 气源压力 ，执行机构配置请另外详询技术部。

2. 若管道直径与阀门口径变径 3 档及以上，且介质为高温蒸汽，执行机构配置请另外详询技术部。

3. 以上为常温工况下的最大允许压差，当温度超过 400℃时，最大允许压差需下降 20%，执行机构配置请另外详询技术部。

Note: 1. The air supply pressure of 500kPa must be guaranteed. If there is only 400kPa air supply pressure on site, please consult the technical department for details of the actuator configuration.

2. If the diameter of the pipeline and the diameter of the valve are reduced by 3 stages or more, and the medium is high-temperature steam, please consult the technical department for details on the configuration of the actuator.

3. The above is the maximum allowable differential pressure under normal temperature conditions. When the temperature exceeds 400℃, the maximum allowable differential pressure needs to be reduced by 20%. For the configuration of the actuator, please consult the technical department for details.

表 3－8　Class150/PN10/16/20 配单作用气关（FO）气缸执行机构（气源压力：500kPa)

Table 3-8　Class150/PN10/16/20 combined with single-acting air-to-close (FO) cylinder type actuator (Air supply: 500kPa)

100 kPa

执行机构 Actuator	阀门状态 Valve state	公称压力 Nominal pressure	公　称　通　径　Nominal diameter																		
			50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200
			2″	2½"	3″	4″	5″	6″	8″	10″	12″	14″	16″	18″	20″	24″	28″	32″	36″	40″	48″
AT92SD5	切断 On-off	Class150/ PN10,16,20	7																		
AT105SD5	切断 On-off	Class150/ PN10,16,20	20	16																	
AT125SD5	切断 On-off	Class150/ PN10,16,20		20	6																
AT140SD5	切断 On-off	Class150/ PN10,16,20			20	15	3														
AT160SD5	切断 On-off	Class150/ PN10,16,20				20	16	5													
AT190SD5	切断 On-off	Class150/ PN10,16,20					20	20	13												
AT210SD5	切断 On-off	Class150/ PN10,16,20							20	2											
AT240SD5	切断 On-off	Class150/ PN10,16,20								11	1										
AT270SD5	切断 On-off	Class150/ PN10,16,20								20	15	3									
AT300SD5	切断 On-off	Class150/ PN10,16,20									18	4									
AT350SD5	切断 On-off	Class150/ PN10,16,20									20	12	4								
AW16SD5F12	切断 On-off	Class150/ PN10,16,20							2												
AW18SD51	切断 On-off	Class150/ PN10,16,20							17												
AW22SD51	切断 On-off	Class150/ PN10,16,20							20	7											
AW24SD51	切断 On-off	Class150/ PN10,16,20								18	6										
AW24SD52	切断 On-off	Class150/ PN10,16,20								20	13	1									
AW27SD52	切断 On-off	Class150/ PN10,16,20									16	3									
AW30SD52	切断 On-off	Class150/ PN10,16,20									20	13	5								
AW32SD52	切断 On-off	Class150/ PN10,16,20										20	10	2							
AW32SD53	切断 On-off	Class150/ PN10,16,20											14	5							
AW35SD53	切断 On-off	Class150/ PN10,16,20											20	9	4						
AW40SD53	切断 On-off	Class150/ PN10,16,20												13	7						
AW45SD53	切断 On-off	Class150/ PN10,16,20												20	15	4	2				

执行机构 Actuator	阀门状态 Valve state	公称压力 Nominal pressure	公称通径 Nominal diameter																		
			50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200
			2″	2½"	3″	4″	5″	6″	8″	10″	12″	14″	16″	18″	20″	24″	28″	32″	36″	40″	48″
AW45SD54	切断 On-off	Class150/ PN10,16,20													20	9	6				
AW50SD54	切断 On-off	Class150/ PN10,16,20														12	9	2			
AW55SD54	切断 On-off	Class150/ PN10,16,20														15	11	4			
AW55SD55	切断 On-off	Class150/ PN10,16,20														20	17	8	3		
AW60SD55	切断 On-off	Class150/ PN10,16,20															20	14	8	4	
AW65SD55	切断 On-off	Class150/ PN10,16,20																19	12	7	1
AW70SD55	切断 On-off	Class150/ PN10,16,20																20	20	15	5
AW70SD56	切断 On-off	Class150/ PN10,16,20																		20	10
AW75SD56	切断 On-off	Class150/ PN10,16,20																			14
AW80SD56	切断 On-off	Class150/ PN10,16,20																			20

注： 1. 必须保证 500kPa 气源压力，若现场只有 400kPa 气源压力 ，执行机构配置请另外详询技术部。

2. 若管道直径与阀门口径变径 3 档及以上，且介质为高温蒸汽，执行机构配置请另外详询技术部。

3. 以上为常温工况下的最大允许压差，当温度超过 400℃时，最大允许压差需下降 20%，执行机构配置请另外详询技术部。

Note: 1. The air supply pressure of 500kPa must be guaranteed. If there is only 400kPa air supply pressure on site, please consult the technical department for details of the actuator configuration.

2. If the diameter of the pipeline and the diameter of the valve are reduced by 3 stages or more, and the medium is high-temperature steam, please consult the technical department for details on the configuration of the actuator.

3. The above is the maximum allowable differential pressure under normal temperature conditions. When the temperature exceeds 400℃, the maximum allowable differential pressure needs to be reduced by 20%. For the configuration of the actuator, please consult the technical department for details.

表 3—9 Class300/PN25/40/50 配单作用气开（FC）气缸执行机构（气源压力：500kPa） 100 kPa

Table 3-10 Class300/PN25/40/50 combined with single-acting air-to-open (FC) cylinder type actuator（Air supply:500kPa） 100 kPa

执行机构 Actuator	阀门状态 Valve state	公称压力 Nominal pressure	公称通径 Nominal diameter																	
			50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200
			2″	2½"	3″	4″	5″	6″	8″	10″	12″	14″	16″	18″	20″	24″	28″	32″	36″	40″	48″
AT105SR5	切断 On-off	Class300/ PN25,40,50	24																		
AT125SR5	切断 On-off	Class300/ PN25,40,50	50	43																	
AT140SR5	切断 On-off	Class300/ PN25,40,50		50	33																
AT160SR5	切断 On-off	Class300/ PN25,40,50			50	41															
AT190SR5	切断 On-off	Class300/ PN25,40,50				50	37														
AT210SR5	切断 On-off	Class300/ PN25,40,50					50	36													
AT240SR5	切断 On-off	Class300/ PN25,40,50						50	38												
AT270SR5	切断 On-off	Class300/ PN25,40,50							50	22											
AT300SR5	切断 On-off	Class300/ PN25,40,50								35											
AT350SR5	切断 On-off	Class300/ PN25,40,50								50	40										
AW22SR51	切断 On-off	Class300/ PN25,40,50							31												
AW24SR51	切断 On-off	Class300/ PN25,40,50							50												
AW24SR52	切断 On-off	Class300/ PN25,40,50								30											
AW27SR52	切断 On-off	Class300/ PN25,40,50								35											
AW30SR52	切断 On-off	Class300/ PN25,40,50								50	33										
AW32SR52	切断 On-off	Class300/ PN25,40,50									43										
AW32SR53	切断 On-off	Class300/ PN25,40,50									50	27									
AW35SR53	切断 On-off	Class300/ PN25,40,50										34	21								
AW40SR53	切断 On-off	Class300/ PN25,40,50										40	26								
AW45SR53	切断 On-off	Class300/ PN25,40,50										50	40	23							
AW45SR54	切断 On-off	Class300/ PN25,40,50											50	33	22						
AW50SR54	切断 On-off	Class300/ PN25,40,50												39	28						
AW55SR54	切断 On-off	Class300/ PN25,40,50												45	32						
AW55SR55	切断 On-off	Class300/ PN25,40,50												50	44	22					
AW60SR55	切断 On-off	Class300/ PN25,40,50													50	33	25				
AW65SR55	切断 On-off	Class300/ PN25,40,50														42	31				
AW70SR55	切断 On-off	Class300/ PN25,40,50														50	45	30	21		
AW70SR56	切断 On-off	Class300/ PN25,40,50															50	41	29		
AW75SR56	切断 On-off	Class300/ PN25,40,50																50	36		
AW80SR56	切断 On-off	Class300/ PN25,40,50																	46		
AW85SR56	切断 On-off	Class300/ PN25,40,50																	50	-	-

注：1.必须保证 500kPa 气源压力，若现场只有 400kPa 气源压力 ，执行机构配置请另外详询技术部。

2.若管道直径与阀门口径变径 3 档及以上，且介质为高温蒸汽，执行机构配置请另外详询技术部。

3.以上为常温工况下的最大允许压差，当温度超过 400℃时，最大允许压差需下降 20%，执行机构配置请另外详询技术部。

Note: 1. The air supply pressure of 500kPa must be guaranteed. If there is only 400kPa air supply pressure on site, please consult the technical department for details of the actuator configuration.

2. If the diameter of the pipeline and the diameter of the valve are reduced by 3 stages or more, and the medium is high-temperature steam, please consult the technical department for details on the configuration of the actuator.

3. The above is the maximum allowable differential pressure under normal temperature conditions. When the temperature exceeds 400℃, the maximum allowable differential pressure needs to be reduced by 20%. For the configuration of the actuator, please consult the technical department for details.

表 3－10　Class300/PN25/40/50 配单作用气关（FO）气缸执行机构（气源压力：500kPa)

Table 3-10　Class300/PN25/40/50 combined with single-acting air-to-close (FO) cylinder type actuator (Air supply:500kPa)　　**100 kPa**

执行机构 Actuator	阀门状态 Valve state	公称压力 Nominal pressure	公称通径 Nominal diameter																		
			50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200
			2″	2½"	3″	4″	5″	6″	8″	10″	12″	14″	16″	18″	20″	24″	28″	32″	36″	40″	48″
AT105SD5	切断 On-off	Class300/ PN25,40,50	24																		
AT125SD5	切断 On-off	Class300/ PN25,40,50	50	43																	
AT140SD5	切断 On-off	Class300/ PN25,40,50		50	33																
AT160SD5	切断 On-off	Class300/ PN25,40,50			50	41															
AT190SD5	切断 On-off	Class300/ PN25,40,50				50	37	27													
AT210SD5	切断 On-off	Class300/ PN25,40,50					50	40													
AT240SD5	切断 On-off	Class300/ PN25,40,50						50	38												
AT270SD5	切断 On-off	Class300/ PN25,40,50							50	22											
AT300SD5	切断 On-off	Class300/ PN25,40,50								35											
AT350SD5	切断 On-off	Class300/ PN25,40,50								50	40										
AW22SD51	切断 On-off	Class300/ PN25,40,50							31												
AW24SD51	切断 On-off	Class300/ PN25,40,50							50												
AW24SD52	切断 On-off	Class300/ PN25,40,50								30											
AW27SD52	切断 On-off	Class300/ PN25,40,50								35											
AW30SD52	切断 On-off	Class300/ PN25,40,50								50	33										
AW32SD52	切断 On-off	Class300/ PN25,40,50									43										
AW32SD53	切断 On-off	Class300/ PN25,40,50									50	27									
AW35SD53	切断 On-off	Class300/ PN25,40,50										34	21								
AW40SD53	切断 On-off	Class300/ PN25,40,50										40	26								
AW45SD53	切断 On-off	Class300/ PN25,40,50										50	40	23							
AW45SD54	切断 On-off	Class300/ PN25,40,50											50	33	22						
AW50SD54	切断 On-off	Class300/ PN25,40,50												39	28						
AW55SD54	切断 On-off	Class300/ PN25,40,50												45	32						
AW55SD55	切断 On-off	Class300/ PN25,40,50												50	44	22					
AW60SD55	切断 On-off	Class300/ PN25,40,50													50	33	25				
AW65SD55	切断 On-off	Class300/ PN25,40,50														42	31				

执行机构 Actuator	阀门状态 Valve state	公称压力 Nominal pressure	公称通径 Nominal diameter																	
			50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200
			2″	2½"	3″	4″	5″	6″	8″	10″	12″	14″	16″	18″	20″	24″	28″	32″	36″	40″	48″
AW70SD55	切断 On-off	Class300/ PN25,40,50														50	45	30	21		
AW70SD56	切断 On-off	Class300/ PN25,40,50															50	41	29		
AW75SD56	切断 On-off	Class300/ PN25,40,50																50	36		
AW80SD56	切断 On-off	Class300/ PN25,40,50																	46		
AW85SD56	切断 On-off	Class300/ PN25,40,50																	50	-	-

注：1.必须保证 500kPa 气源压力，若现场只有 400kPa 气源压力 ，执行机构配置请另外详询技术部。

2.若管道直径与阀门口径变径 3 档及以上，且介质为高温蒸汽，执行机构配置请另外详询技术部。

3.以上为常温工况下的最大允许压差，当温度超过 400℃时，最大允许压差需下降 20%，执行机构配置请另外详询技术部。

Note: 1. The air supply pressure of 500kPa must be guaranteed. If there is only 400kPa air supply pressure on site, please consult the technical department for details of the actuator configuration.

2. If the diameter of the pipeline and the diameter of the valve are reduced by 3 stages or more, and the medium is high-temperature steam, please consult the technical department for details on the configuration of the actuator.

3. The above is the maximum allowable differential pressure under normal temperature conditions. When the temperature exceeds 400℃, the maximum allowable differential pressure needs to be reduced by 20%. For the configuration of the actuator, please consult the technical department for details.

表 3－11　Class600 /PN63,100,110 配单作用气开（FC）气缸执行机构（气源压力：500kPa)

Table 3-11　Class600 /PN63,100,110 combined with single-acting air-to-open(FC)b cylinder type actuator(Air supply: 500kPa)　　100 kPa

执行机构 Actuator	阀门状态 Valve state	公称通径 Nominal diameter								
		150	200	250	300	350	400	450	500	600
		6″	8″	10″	12″	14″	16″	18″	20″	24″
AW22SR51	切断 On-off	50	23.7							
AW24SR52	切断 On-off		50	23						
AW30SR52	切断 On-off			40	26					
AW32SR53	切断 On-off			50	40	22				
AW40SR53	切断 On-off				50					
AW45SR53	切断 On-off					40	32			
AW45SR54	切断 On-off					50	40	27		
AW55SR54	切断 On-off						50	40	26	
AW60SR55	切断 On-off							50	40	32
AW65SR55	切断 On-off								50	40
AW70SR55	切断 On-off									50

注：1.若管道直径与阀门口径变径 3 档及以上，且介质为高温蒸汽，执行机构配置请另外详询技术部。

2.以上为常温工况下的最大允许压差，当温度超过 400℃时，最大允许压差需下降 20%，执行机构配置请另外详询技术部。

Note: 1. If the diameter of the pipeline and the diameter of the valve are reduced by 3 stages or more, and the medium is high-temperature steam, please consult the technical department for details on the configuration of the actuator.

2. The above is the maximum allowable differential pressure under normal temperature conditions. When the temperature exceeds 400℃, the maximum allowable differential pressure needs to be reduced by 20%. For the configuration of the actuator, please consult the technical department for details

表 3－12　Class600 /PN63,100,110 配单作用气关（FO）气缸执行机构（气源压力：500kPa）

Table 3-12 Class600 /PN63,100,110 Combined with single-acting air-to-close(FO) cylinder type actuator(Air supply: 500kPa)　　100 kPa

执行机构 Actuator	阀门状态 Valve state	公　称　通　径 Nominal diameter								
		150	200	250	300	350	400	450	500	600
		6″	8″	10″	12″	14″	16″	18″	20″	24″
AW22SD51	切断 On-off	50	23.7							
AW24SD52	切断 On-off		50	23						
AW30SD52	切断 On-off			40	26					
AW32SD53	切断 On-off			50	40	22				
AW40SD53	切断 On-off				50					
AW45SD53	切断 On-off					40	32			
AW45SD54	切断 On-off					50	40	27		
AW55SD54	切断 On-off						50	40	26	
AW60SD55	切断 On-off							50	40	32
AW65SD55	切断 On-off								50	40
AW70SD55	切断 On-off									50

注：1. 必须保证 500kPa 气源压力，若现场只有 400kPa 气源压力 ，执行机构配置请另外详询技术部。

2. 若管道直径与阀门口径变径 3 档及以上，且介质为高温蒸汽，执行机构配置请另外详询技术部。

3. 以上为常温工况下的最大允许压差，当温度超过 400℃时，最大允许压差需下降 20%，执行机构配置请另外详询技术部。

Note: 1. The air supply pressure of 500kPa must be guaranteed. If there is only 400kPa air supply pressure on site, please consult the technical department for details of the actuator configuration.

2. If the diameter of the pipeline and the diameter of the valve are reduced by 3 stages or more, and the medium is high-temperature steam, please consult the technical department for details on the configuration of the actuator.

3. The above is the maximum allowable differential pressure under normal temperature conditions. When the temperature exceeds 400℃, the maximum allowable differential pressure needs to be reduced by 20%. For the configuration of the actuator, please consult the technical department for details.

表 3－13　Class150/PN10/16/20 配电动执行机构（气源压力：500kPa）

Table 3-13 Class150/PN10/16/20 Combined with electric actuator (Air supply: 500kPa)　　100 kPa

执行机构 Actuator	阀门状态 Valve state	公称压力 Nominal pressure	公称通径 Nominal diameter																				
			50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400	1600
			2″	2½"	3″	4″	5″	6″	8″	10″	12″	14″	16″	18″	20″	24″	28″	32″	36″	40″	48″	56″	64″
M0□11	切断 On-off	Class150// PN10,16,20	20	20	1																		
M0□21	切断 On-off	Class150// PN10,16,20			20	14	3																
M0□30	切断 On-off	Class150// PN10,16,20				20	15																
M0□60	切断 On-off	Class150// PN10,16,20					20	20	15														
M8□10 +A8010	切断 On-off	Class150// PN10,16,20							20	5													
M8□20 +A8020	切断 On-off	Class150// PN10,16,20								20	14												
M8□20+ A8040	切断 On-off	Class150// PN10,16,20									20	5											
M8□30+ A8040	切断 On-off	Class150// PN10,16,20										12	12	4									
M8□30 +A8090	切断 On-off	Class150// PN10,16,20										20	20	19	11	2	1						
M8□30+A8 090+G6502	切断 On-off	Class150// PN10,16,20												20	20	9	6						
M8□30 +A8161	切断 On-off	Class150// PN10,16,20														15	11	4					
M8□30 +A8162	切断 On-off	Class150// PN10,16,20														20	20	14	7	4			
M8□40 +A8250	切断 On-off	Class150// PN10,16,20																20	18	12	3		
M8□50 +A8250	切断 On-off	Class150// PN10,16,20																		16	6		
M8□50 +A8400	切断 On-off	Class150// PN10,16,20																		20	20		

注： 1.若管道直径与阀门口径变径 3 档及以上，且介质为高温蒸汽，执行机构配置请另外详询技术部。

2.以上为常温工况下的最大允许压差，当温度超过 400℃时，最大允许压差需下降 20%，执行机构配置请另外详询技术部。

3.表格中“□”表示 3，4，5，6 其中之一。

Note:1. If the diameter of the pipeline and the diameter of the valve are reduced by 3 stages or more, and the medium is high-temperature steam, please consult the technical department for details on the configuration of the actuator.

2.The above is the maximum allowable differential pressure under normal temperature conditions. When the temperature exceeds 400℃, the maximum allowable differential pressure needs to be reduced by 20%. For the configuration of the actuator, please consult the technical department for details.

3."□" in the table means one of 3, 4, 5, 6.

表 3－14 Class300/PN25/40/50 配电动执行机构 100kPa

Table 3-14 Class300/PN25/40/50 Combined with electric actuator 100kPa

执行机构 Actuator	阀门状态 Valve state	公称压力 Nominal pressure	公 称 通 径 Nominal diameter																				
			50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400	1600
			2″	2½"	3″	4″	5″	6″	8″	10″	12″	14″	16″	18″	20″	24″	28″	32″	36″	40″	48″	56″	64″
M0□11	切断 On-off	Class300/ PN25,40,50	48	27																			
M0□21	切断 On-off	Class300/ PN25,40,50	50	50	21																		
M0□30	切断 On-off	Class300/ PN25,40,50			50	33																	
M0□60	切断 On-off	Class150// PN10,16,20				50	50	36															
M8□10 +A8010	切断 On-off	Class300/ PN25,40,50							27														
M8□20 +A8020	切断 On-off	Class300/ PN25,40,50							42	30													
M8□20+ A8040	切断 On-off	Class300/ PN25,40,50							50	50	32												
M8□30+ A8040	切断 On-off	Class300/ PN25,40,50									47	23											
M8□30 +A8090	切断 On-off	Class300/ PN25,40,50									50	50	34										
M8□30+A809 0+G6502	切断 On-off	Class300/ PN25,40,50											50	32	22								
M8□30 +A8161	切断 On-off	Class300/ PN25,40,50												45	32								
M8□30 +A8162	切断 On-off	Class300/ PN25,40,50												50	50	31	24						
M8□40 +A8250	切断 On-off	Class300/ PN25,40,50														47	41	27					
M8□50 +A8250	切断 On-off	Class300/ PN25,40,50														50	49	33	22	-	-	-	-
M8□50 +A8400	切断 On-off	Class300/ PN25,40,50															50	50	50	-	-	-	-

注：1.若管道直径与阀门口径变径 3 档及以上，且介质为高温蒸汽，执行机构配置请另外详询技术部。

2.以上为常温工况下的最大允许压差，当温度超过 400℃时，最大允许压差需下降 20%，执行机构配置请另外详询技术部。

3.表格中“□”表示 3，4，5，6 其中之一。

Note:1.If the diameter of the pipeline and the diameter of the valve are reduced by 3 stages or more, and the medium is high-temperature steam, please consult the technical department for details on the actuator configuration.

2.The above is the maximum allowable differential pressure under normal temperature conditions. When the temperature exceeds 400℃, the maximum allowable differential pressure needs to be reduced by 20%. For the configuration of the actuator, please consult the technical department for details.

3.The “□”in the table indicates one of 3,4,5,and 6.

分体式阀座执行机构配置及最大允许压差 （表 4）

The maximum allowable pressure differential of actuator configuration for split seat structure (Table 4)

表 4－1 Class150/PN10/16/20 配双作用气开（FC）气缸执行机构 (气源压力: 500kPa)　　100 kPa

Table 4-1 Class150/PN10/16/20 with double-acting air to open(FC) cylinder actuator (air supply: 500kPa)

执行机构 Actuator	阀门状态 Valve state	公称压力 Nominal pressure	公称通径 Nominal diameter																	
			80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1100	1200
			3″	4″	5″	6″	8″	10″	12″	14″	16″	18″	20″	24″	28″	32″	36″	40″	44″	48″
AT83DR0	切断 On-off	Class150/PN10,16,20	10																	
AT92DR0	切断 On-off	Class150/PN10,16,20	20	6																
AT105DR0	切断 On-off	Class150/PN10,16,20		20																
AT125DR0	切断 On-off	Class150/PN10,16,20			16	6														
AT140DR0	切断 On-off	Class150/PN10,16,20			20	20														
AT160DR0	切断 On-off	Class150/PN10,16,20					16													
AT190DR0	切断 On-off	Class150/PN10,16,20					20	16	6											
AT210DR0	切断 On-off	Class150/PN10,16,20						20	10											
AT240DR0	切断 On-off	Class150/PN10,16,20							20	10										
AT270DR0	切断 On-off	Class150/PN10,16,20								20	10	6								
AT300DR0	切断 On-off	Class150/PN10,16,20									20	10	6							
AT350DR0	切断 On-off	Class150/PN10,16,20										20	20	6						
AW12D00F10	切断 On-off	Class150/PN10,16,20					10													
AW16D00F12	切断 On-off	Class150/PN10,16,20					20	10												
AW18D001	切断 On-off	Class150/PN10,16,20						20	10											
AW22D001	切断 On-off	Class150/PN10,16,20							16	10										
AW22D002	切断 On-off	Class150/PN10,16,20							20	20	10									
AW24D002	切断 On-off	Class150/PN10,16,20									16	10								
AW27D002	切断 On-off	Class150/PN10,16,20											6							
AW27D003	切断 On-off	Class150/PN10,16,20									20	20	16	6						
AW30D003	切断 On-off	Class150/PN10,16,20											20							
AW32D003	切断 On-off	Class150/PN10,16,20												10						
AW35D003	切断 On-off	Class150/PN10,16,20												16	6					
AW40D004	切断 On-off	Class150/PN10,16,20												20	10	6				
AW45D004	切断 On-off	Class150/PN10,16,20													20	10	6			
AW50D004	切断 On-off	Class150/PN10,16,20														16				
AW50D005	切断 On-off	Class150/PN10,16,20															10	6		
AW55D005	切断 On-off	Class150/PN10,16,20														20	16	10		
AW60D005	切断 On-off	Class150/PN10,16,20															20			6
AW65D005	切断 On-off	Class150/PN10,16,20																20		
AW65D006	切断 On-off	Class150/PN10,16,20																		10
AW70D006	切断 On-off	Class150/PN10,16,20																		16
AW75D006	切断 On-off	Class150/PN10,16,20																		20

注：1.必须保证 500kPa 气源压力，若现场只有 400kPa 气源压力 ，执行机构配置请另外详询技术部

2.若管道直径与阀门口径变径 3 档及以上，且介质为高温蒸汽，执行机构配置请另外详询技术部。

3.以上为常温工况下的最大允许压差，当温度超过 400℃时，最大允许压差需下降 20%，执行机构配置请另外详询技术部。

Note: 1. The air supply pressure of 500kPa must be guaranteed. If there is only 400kPa air supply pressure on site, please consult the technical department for details of the actuator configuration.

2. If the diameter of the pipeline and the diameter of the valve are reduced by 3 stages or more, and the medium is high-temperature steam, please consult the technical department for details on the configuration of the actuator.

3. The above is the maximum allowable differential pressure under normal temperature conditions. When the temperature exceeds 400℃, the maximum allowable differential pressure needs to be reduced by 20%. For the configuration of the actuator, please consult the technical department for details.

表 4－2 Class150/PN10/16/20 配双作用气关（FO）气缸执行机构 (气源压力: 500kPa)　　100 kPa

Table 4-2 Class150/PN10/16/20 with double-acting air to close(FO) cylinder actuator (air supply: 500kPa)

执行机构 Actuator	阀门状态 Valve state	公称压力 Nominal pressure	公称通径 Nominal diameter																
			80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1100	1200
			3″	4″	5″	6″	8″	10″	12″	14″	16″	18″	20″	24″	28″	32″	36″	40″	44″	48″
AT83DD0	切断 On-off	Class150/PN10,16,20	10																	
AT92DD0	切断 On-off	Class150/PN10,16,20	20	6																
AT105DD0	切断 On-off	Class150/PN10,16,20		20																
AT125DD0	切断 On-off	Class150/PN10,16,20			16	6														
AT140DD0	切断 On-off	Class150/PN10,16,20			20	20														
AT160DD0	切断 On-off	Class150/PN10,16,20					16													
AT190DD0	切断 On-off	Class150/PN10,16,20					20	16	6											
AT210DD0	切断 On-off	Class150/PN10,16,20						20	10											
AT240DD0	切断 On-off	Class150/PN10,16,20							20	10										
AT270DD0	切断 On-off	Class150/PN10,16,20								20	10	6								
AT300DD0	切断 On-off	Class150/PN10,16,20									20	10	6							
AT350DD0	切断 On-off	Class150/PN10,16,20										20	20	6						
AW12D00F10	切断 On-off	Class150/PN10,16,20					10													
AW16D00F12	切断 On-off	Class150/PN10,16,20					20	10												
AW18D001	切断 On-off	Class150/PN10,16,20						20	10											
AW22D001	切断 On-off	Class150/PN10,16,20							16	10										
AW22D002	切断 On-off	Class150/PN10,16,20							20	20	10									
AW24D002	切断 On-off	Class150/PN10,16,20									16	10								
AW27D002	切断 On-off	Class150/PN10,16,20											6							
AW27D003	切断 On-off	Class150/PN10,16,20									20	20	16	6						
AW30D003	切断 On-off	Class150/PN10,16,20											20							
AW32D003	切断 On-off	Class150/PN10,16,20												10						
AW35D003	切断 On-off	Class150/PN10,16,20												16	6					
AW40D004	切断 On-off	Class150/PN10,16,20												20	10	6				
AW45D004	切断 On-off	Class150/PN10,16,20													20	10	6			
AW50D004	切断 On-off	Class150/PN10,16,20														16				
AW50D005	切断 On-off	Class150/PN10,16,20															10	6		
AW55D005	切断 On-off	Class150/PN10,16,20														20	16	10		
AW60D005	切断 On-off	Class150/PN10,16,20															20			6
AW65D005	切断 On-off	Class150/PN10,16,20																20		
AW65D006	切断 On-off	Class150/PN10,16,20																		10
AW70D006	切断 On-off	Class150/PN10,16,20																		16
AW75D006	切断 On-off	Class150/PN10,16,20																		20

注：1.必须保证 500kPa 气源压力，若现场只有 400kPa 气源压力 ，执行机构配置请另外详询技术部。

2.若管道直径与阀门口径变径 3 档及以上，且介质为高温蒸汽，执行机构配置请另外详询技术部。

3.以上为常温工况下的最大允许压差，当温度超过 400℃时，最大允许压差需下降 20%，执行机构配置请另外详询技术部。

Note: 1. The air supply pressure of 500kPa must be guaranteed. If there is only 400kPa air supply pressure on site, please consult the technical department for details of the actuator configuration.

2. If the diameter of the pipeline and the diameter of the valve are reduced by 3 stages or more, and the medium is high-temperature steam, please consult the technical department for details on the configuration of the actuator.

3. The above is the maximum allowable differential pressure under normal temperature conditions. When the temperature exceeds 400℃, the maximum allowable differential pressure needs to be reduced by 20%. For the configuration of the actuator, please consult the technical department for details.

表 4－3 Class150/PN10/16/20 配电动执行机构　　100 kPa

Table 4-3 Class150/PN10/16/20 with electric actuator

执行机构 Actuator	阀门状态 Valve state	公称压力 Nominal pressure	公称通径 Nominal diameter																
			80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1100	1200
			3″	4″	5″	6″	8″	10″	12″	14″	16″	18″	20″	24″	28″	32″	36″	40″	44″	48″
M0△11	切断 On-off	Class150/PN10,16,20	20	6																
M0△21	切断 On-off	Class150/PN10,16,20			10															
M0△30	切断 On-off	Class150/PN10,16,20			20	10														
M0△60	切断 On-off	Class150/PN10,16,20				16	6													
M8□10+A8005	切断 On-off	Class150/PN10,16,20				20														
M8□10+A8010	切断 On-off	Class150/PN10,16,20						10												
M8□10+A8020	切断 On-off	Class150/PN10,16,20						16	6											
M8□20+A8020	切断 On-off	Class150/PN10,16,20							16											
M8□20+A8040	切断 On-off	Class150/PN10,16,20								20	10									
M8□30+A8040	切断 On-off	Class150/PN10,16,20									16	10	6							
M8□30+A8090	切断 On-off	Class150/PN10,16,20										20	16	6						
M8□30+A8090+G6502	切断 On-off	Class150/PN10,16,20												10	10					
M8□30+A8161	切断 On-off	Class150/PN10,16,20												20	20	10				
M8□30+A8162	切断 On-off	Class150/PN10,16,20														20	6			
M8□40+A8250	切断 On-off	Class150/PN10,16,20															10	6		
M8□50+A8250	切断 On-off	Class150/PN10,16,20															16	10		
M8□50+A8400	切断 On-off	Class150/PN10,16,20															20	20		20

注：

1.若管道直径与阀门口径变径 3 档及以上，且介质为高温蒸汽，执行机构配置请另外详询技术部。

2.以上为常温工况下的最大允许压差，当温度超过 400℃时，最大允许压差需下降 20%，执行机构配置请另外详询技术部。

3.表格中“□”表示 3，4，5，6 其中之一。

Note:1.If the diameter of the pipeline and the diameter of the valve are reduced by 3 stages or more, and the medium is high-temperature

steam, please consult the technical department for details on the actuator configuration.

2.The above is the maximum allowable differential pressure under normal temperature conditions. When the temperature exceeds 400℃, the maximum allowable differential pressure needs to be reduced by 20%. For the configuration of the actuator, please consult the technical department for details.

3.The "□"in the table indicates one of 3,4,5,and 6.

表 4－4　Class300/PN25/40/50 配双作用气开（FC）气缸执行机构 (气源压力：500kPa)　　100 kPa

Table 4-4 Class300/PN25/40/50 with double-acting air to open(FC) cylinder actuator (air supply: 500kPa)

执行机构 Actuator	阀门状态 Valve state	公称压力 Nominal pressure	公称通径 Nominal diameter																	
			80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1100	1200
			3″	4″	5″	6″	8″	10″	12″	14″	16″	18″	20″	24″	28″	32″	36″	40″	44″	48″
AT105DR0	切断 On-off	Class300/PN25,40,50	40																	
AT125DR0	切断 On-off	Class300/PN25,40,50		40																
AT1400DR0	切断 On-off	Class300/PN25,40,50			40															
AT160DR0	切断 On-off	Class300/PN25,40,50				40														
AT190DR0	切断 On-off	Class300/PN25,40,50					25													
AT210DR0	切断 On-off	Class300/PN25,40,50						25												
AT240DR0	切断 On-off	Class300/PN25,40,50						40												
AT270DR0	切断 On-off	Class300/PN25,40,50							25											
AT300DR0	切断 On-off	Class300/PN25,40,50								25										
AT350DR0	切断 On-off	Class300/PN25,40,50								40	25									
AW18D001	切断 On-off	Class300/PN25,40,50					40													
AW22D001	切断 On-off	Class300/PN25,40,50						25												
AW22D002	切断 On-off	Class300/PN25,40,50							25											
AW24D002	切断 On-off	Class300/PN25,40,50							40	25										
AW27D003	切断 On-off	Class300/PN25,40,50								40										
AW30D003	切断 On-off	Class300/PN25,40,50									25	25								
AW32D003	切断 On-off	Class300/PN25,40,50									40	40	25							
AW35D003	切断 On-off	Class300/PN25,40,50																		
AW40D004	切断 On-off	Class300/PN25,40,50											40							
AW45D004	切断 On-off	Class300/PN25,40,50												25						
AW50D004	切断 On-off	Class300/PN25,40,50												40						

注：1.必须保证 500kPa 气源压力，若现场只有 400kPa 气源压力 ，执行机构配置请另外详询技术部。

4.若管道直径与阀门口径变径 3 档及以上，且介质为高温蒸汽，执行机构配置请另外详询技术部。

5.以上为常温工况下的最大允许压差，当温度超过 400℃时，最大允许压差需下降 20%，执行机构配置请另外详询技术部。

Note: 1. The air supply pressure of 500kPa must be guaranteed. If there is only 400kPa air supply pressure on site, please consult the technical department for details of the actuator configuration.

2. If the diameter of the pipeline and the diameter of the valve are reduced by 3 stages or more, and the medium is high-temperature steam, please consult the technical department for details on the configuration of the actuator.

3. The above is the maximum allowable differential pressure under normal temperature conditions. When the temperature exceeds 400℃, the maximum allowable differential pressure needs to be reduced by 20%. For the configuration of the actuator, please consult the technical department for details.

表 4—5　Class300/PN25/40/50 配双作用气关（FO）气缸执行机构（气源压力：500kPa）　　100 kPa

Table 4—5 Class300/PN25/40/50 with double-acting air to close(FO) cylinder actuator (air supply: 500kPa)

执行机构 Actuator	阀门状态 Valve state	公称压力 Nominal pressure	公称通径 Nominal diameter																
			80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1100	1200
			3″	4″	5″	6″	8″	10″	12″	14″	16″	18″	20″	24″	28″	32″	36″	40″	44″	48″
AT105DD0	切断 On-off	Class300/PN25,40,50	40																	
AT125DD0	切断 On-off	Class300/PN25,40,50		40																
AT1400DD0	切断 On-off	Class300/PN25,40,50			40															
AT160DD0	切断 On-off	Class300/PN25,40,50				40														
AT190DD0	切断 On-off	Class300/PN25,40,50					25													
AT210DD0	切断 On-off	Class300/PN25,40,50						25												
AT240DD0	切断 On-off	Class300/PN25,40,50						40												
AT270DD0	切断 On-off	Class300/PN25,40,50							25											
AT300DD0	切断 On-off	Class300/PN25,40,50								25										
AT350DD0	切断 On-off	Class300/PN25,40,50								40	25									
AW18D001	切断 On-off	Class300/PN25,40,50					40													
AW22D001	切断 On-off	Class300/PN25,40,50						25												
AW22D002	切断 On-off	Class300/PN25,40,50							25											
AW24D002	切断 On-off	Class300/PN25,40,50							40	25										
AW27D003	切断 On-off	Class300/PN25,40,50								40										
AW30D003	切断 On-off	Class300/PN25,40,50									25	25								
AW32D003	切断 On-off	Class300/PN25,40,50									40	40	25							
AW40D004	切断 On-off	Class300/PN25,40,50											40							
AW45D004	切断 On-off	Class300/PN25,40,50												25						
AW50D004	切断 On-off	Class300/PN25,40,50												40						

注：1.必须保证 500kPa 气源压力，若现场只有 400kPa 气源压力 ，执行机构配置请另外详询技术部。

6.若管道直径与阀门口径变径 3 档及以上，且介质为高温蒸汽，执行机构配置请另外详询技术部。

7.以上为常温工况下的最大允许压差，当温度超过 400℃时，最大允许压差需下降 20%，执行机构配置请另外详询技术部。

Note: 1. The air supply pressure of 500kPa must be guaranteed. If there is only 400kPa air supply pressure on site, please consult the technical department for details of the actuator configuration.

2. If the diameter of the pipeline and the diameter of the valve are reduced by 3 stages or more, and the medium is high-temperature steam, please consult the technical department for details on the configuration of the actuator.

3. The above is the maximum allowable differential pressure under normal temperature conditions. When the temperature exceeds 400℃, the maximum allowable differential pressure needs to be reduced by 20%. For the configuration of the actuator, please consult the technical department for details.

表 4－6 Class300/PN25/40/50 配电动执行机构 **100**

kPa

Table 4-6 Class300/PN25/40/50 with electric actuator

执行机构 Actuator	阀门状态 Valve state	公称压力 Nominal pressure	公称通径 Nominal diameter																
			80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1100	1200
			3″	4″	5″	6″	8″	10″	12″	14″	16″	18″	20″	24″	28″	32″	36″	40″	44″	48″
M0△21	切断 On-off	Class300/PN25,40,50	40	25																
M0△30	切断 On-off	Class300/PN25,40,50		40																
M0△60	切断 On-off	Class300/PN25,40,50			40															
M8□10+A8005	切断 On-off	Class300/PN25,40,50				40														
M8□10+A8010	切断 On-off	Class300/PN25,40,50					25													
M8□20+A8020	切断 On-off	Class300/PN25,40,50					40	25												
M8□20+A8040	切断 On-off	Class300/PN25,40,50						40	25											
M8□30+A8040	切断 On-off	Class300/PN25,40,50							40	25										
M8□30+A8090	切断 On-off	Class300/PN25,40,50							40	40	25									
M8□30+A8090+G6502	切断 On-off	Class300/PN25,40,50									40	25	25							
M8□30+A8161	切断 On-off	Class300/PN25,40,50										40								
M8□30+A8162	切断 On-off	Class300/PN25,40,50											40	25						
M8□40+A8250	切断 On-off	Class300/PN25,40,50												40						

注：

1.若管道直径与阀门口径变径 3 档及以上，且介质为高温蒸汽，执行机构配置请另外详询技术部。

2.以上为常温工况下的最大允许压差，当温度超过 400℃时，最大允许压差需下降 20%，执行机构配置请另外详询技术部。

3.表格中“□”表示 3，4，5，6 其中之一。

Note:1.If the diameter of the pipeline and the diameter of the valve are reduced by 3 stages or more, and the medium is high-temperature steam, please consult the technical department for details on the actuator configuration.

2.The above is the maximum allowable differential pressure under normal temperature conditions. When the temperature exceeds 400℃, the maximum allowable differential pressure needs to be reduced by 20%. For the configuration of the actuator, please consult the technical department for details.

3.The “□”in the table indicates one of 3,4,5,and 6.

表 4—7　Class150/PN10/16/20 配单作用气开（FC）气缸执行机构 (气源压力: 500kPa)　100 kPa

Table 4-7 Class150/PN10/16/20 with single-acting air to open(FC) cylinder actuator (air supply: 500kPa)

执行机构 Actuator	阀门状态 Valve state	公称压力 Nominal pressure	公称通径 Nominal diameter																
			80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1100	1200
			3″	4″	5″	6″	8″	10″	12″	14″	16″	18″	20″	24″	28″	32″	36″	40″	44″	48″
AT105SR5	切断 On-off	Class150/PN10,16,20	10																	
AT125SR5	切断 On-off	Class150/PN10,16,20	20	10																
AT140SR5	切断 On-off	Class150/PN10,16,20		20	10															
AT160SR5	切断 On-off	Class150/PN10,16,20			20	10														
AT190SR5	切断 On-off	Class150/PN10,16,20				20	10													
AT210SR5	切断 On-off	Class150/PN10,16,20					16	6												
AT240SR5	切断 On-off	Class150/PN10,16,20					20	10												
AT270SR5	切断 On-off	Class150/PN10,16,20						20	10	6										
AT300SR5	切断 On-off	Class150/PN10,16,20							16	10										
AT350SR5	切断 On-off	Class150/PN10,16,20							20	20	10	6								
AW18SR51	切断 On-off	Class150/PN10,16,20					10													
AW22SR51	切断 On-off	Class150/PN10,16,20					20	10												
AW24SR51	切断 On-off	Class150/PN10,16,20						20	6											
AW24SR52	切断 On-off	Class150/PN10,16,20							10	6										
AW27SR52	切断 On-off	Class150/PN10,16,20							16	10										
AW30SR52	切断 On-off	Class150/PN10,16,20								16	10									
AW32SR52	切断 On-off	Class150/PN10,16,20								20		6	6							
AW32SR53	切断 On-off	Class150/PN10,16,20									16	10								
AW35SR53	切断 On-off	Class150/PN10,16,20									20		10							
AW40SR53	切断 On-off	Class150/PN10,16,20										16								
AW45SR53	切断 On-off	Class150/PN10,16,20										20	20	6						
AW45SR54	切断 On-off	Class150/PN10,16,20												10						
AW55SR54	切断 On-off	Class150/PN10,16,20												16	6					
AW55SR55	切断 On-off	Class150/PN10,16,20												20	10	6	6			
AW60SR55	切断 On-off	Class150/PN10,16,20													16	10				
AW65SR55	切断 On-off	Class150/PN10,16,20													20		10			
AW70SR55	切断 On-off	Class150/PN10,16,20														20	16	6		
AW70SR56	切断 On-off	Class150/PN10,16,20															20	10		
AW75SR56	切断 On-off	Class150/PN10,16,20																16		6
AW80SR56	切断 On-off	Class150/PN10,16,20																20		10
AW90SR57	切断 On-off	Class150/PN10,16,20																		16
AW100SR57	切断 On-off	Class150/PN10,16,20																		20

注：1.必须保证 500kPa 气源压力，若现场只有 400kPa 气源压力 ，执行机构配置请另外详询技术部。

2.若管道直径与阀门口径变径 3 档及以上，且介质为高温蒸汽，执行机构配置请另外详询技术部。

3.以上为常温工况下的最大允许压差，当温度超过 400℃时，最大允许压差需下降 20%，执行机构配置请另外详询技术部。

Note: 1. The air supply pressure of 500kPa must be guaranteed. If there is only 400kPa air supply pressure on site, please consult the technical department for details of the actuator configuration.

2. If the diameter of the pipeline and the diameter of the valve are reduced by 3 stages or more, and the medium is high-temperature steam, please consult the technical department for details on the configuration of the actuator.

3. The above is the maximum allowable differential pressure under normal temperature conditions. When the temperature exceeds 400℃, the maximum allowable differential pressure needs to be reduced by 20%. For the configuration of the actuator, please consult the technical department for details.

表 4—8　Class150/PN10/16/20 配单作用气关（FO）气缸执行机构 (气源压力: 500kPa)　100 kPa

Table 4-8 Class150/PN10/16/20 with single-acting air to close(FO) cylinder actuator (air supply: 500kPa)

执行机构 Actuator	阀门状态 Valve state	公称压力 Nominal pressure	公称通径 Nominal diameter																	
			80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1100	1200
			3″	4″	5″	6″	8″	10″	12″	14″	16″	18″	20″	24″	28″	32″	36″	40″	44″	48″
AT105SD5	切断 On-off	Class150/PN10,16,20	10																	
AT125SD5	切断 On-off	Class150/PN10,16,20	20	10																
AT140SD5	切断 On-off	Class150/PN10,16,20		20	10															
AT160SD5	切断 On-off	Class150/PN10,16,20			20	10														
AT190SD5	切断 On-off	Class150/PN10,16,20				20	6													
AT210SD5	切断 On-off	Class150/PN10,16,20					16	6												
AT240SD5	切断 On-off	Class150/PN10,16,20					20	10												
AT270SD5	切断 On-off	Class150/PN10,16,20						20	16	6										
AT300SD5	切断 On-off	Class150/PN10,16,20								10										
AT350SD5	切断 On-off	Class150/PN10,16,20							20	16	10	6								
AW18SD51	切断 On-off	Class150/PN10,16,20					10													
AW22SD51	切断 On-off	Class150/PN10,16,20					20	10												
AW24SD51	切断 On-off	Class150/PN10,16,20						20	6											
AW24SD52	切断 On-off	Class150/PN10,16,20						20	10	6										
AW27SD52	切断 On-off	Class150/PN10,16,20							16	10										
AW30SD52	切断 On-off	Class150/PN10,16,20							20	16	10									
AW32SD52	切断 On-off	Class150/PN10,16,20								20		6	6							
AW32SD53	切断 On-off	Class150/PN10,16,20									16	10								
AW35SD53	切断 On-off	Class150/PN10,16,20									20		10							
AW40SD53	切断 On-off	Class150/PN10,16,20										16								
AW45SD53	切断 On-off	Class150/PN10,16,20										20	20	60						
AW45SD54	切断 On-off	Class150/PN10,16,20												10						
AW55SD54	切断 On-off	Class150/PN10,16,20												16	6					
AW55SD55	切断 On-off	Class150/PN10,16,20												20	10	6	6			
AW60SD55	切断 On-off	Class150/PN10,16,20													16	10				
AW65SD55	切断 On-off	Class150/PN10,16,20													20		10			

执行机构 Actuator	阀门状态 Valve state	公称压力 Nominal pressure	公称通径 Nominal diameter																	
			80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1100	1200
			3″	4″	5″	6″	8″	10″	12″	14″	16″	18″	20″	24″	28″	32″	36″	40″	44″	48″
AW70SD55	切断 On-off	Class150/PN10,16,20														20	1.6	6		
AW70SD56	切断 On-off	Class150/PN10,16,20															20	10		
AW75SD56	切断 On-off	Class150/PN10,16,20																16		6
AW80SD56	切断 On-off	Class150/PN10,16,20																20		10
AW90SD57	切断 On-off	Class150/PN10,16,20																		16
AW100SD57	切断 On-off	Class150/PN10,16,20																		20

注：1.必须保证 500kPa 气源压力，若现场只有 400kPa 气源压力 ，执行机构配置请另外详询技术部。

2..若管道直径与阀门口径变径 3 档及以上，且介质为高温蒸汽，执行机构配置请另外详询技术部。

3..以上为常温工况下的最大允许压差，当温度超过 400℃时，最大允许压差需下降 20%，执行机构配置请另外详询技术部。

Note: 1. The air supply pressure of 500kPa must be guaranteed. If there is only 400kPa air supply pressure on site, please consult the technical department for details of the actuator configuration.

2. If the diameter of the pipeline and the diameter of the valve are reduced by 3 stages or more, and the medium is high-temperature steam, please consult the technical department for details on the configuration of the actuator.

3. The above is the maximum allowable differential pressure under normal temperature conditions. When the temperature exceeds 400℃, the maximum allowable differential pressure needs to be reduced by 20%. For the configuration of the actuator, please consult the technical department for details.

表 4—9　Class300/PN25/40/50 配单作用气开（FC）气缸执行机构（气源压力：500kPa）　100 kPa

Table 4-9 Class300/PN25/40/50 with single-acting air to open(FC) cylinder actuator (air supply: 500kPa)

执行机构 Actuator	阀门状态 Valve state	公称压力 Nominal pressure	公称通径 Nominal diameter																	
			80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1100	1200
			3″	4″	5″	6″	8″	10″	12″	14″	16″	18″	20″	24″	28″	32″	36″	40″	44″	48″
AT125SR5	切断 On-off	Class300/PN25,40,50	25																	
AT140SR5	切断 On-off	Class300/PN25,40,50	40	25																
AT160SR5	切断 On-off	Class300/PN25,40,50		40	25															
AT190SR5	切断 On-off	Class300/PN25,40,50			40	25														
AT210SR5	切断 On-off	Class300/PN25,40,50				40														
AT240SR5	切断 On-off	Class300/PN25,40,50					25													
AT270SR5	切断 On-off	Class300/PN25,40,50					40	25												
AT300SR5	切断 On-off	Class300/PN25,40,50						40												
AT350SR5	切断 On-off	Class300/PN25,40,50							25											
AW22SR51	切断 On-off	Class300/PN25,40,50					25													
AW24SR51	切断 On-off	Class300/PN25,40,50					40													
AW24SR52	切断 On-off	Class300/PN25,40,50						25												
AW30SR52	切断 On-off	Class300/PN25,40,50						40	25											
AW32SR53	切断 On-off	Class300/PN25,40,50							40	25										
AW40SR53	切断 On-off	Class300/PN25,40,50								40	25									
AW45SR54	切断 On-off	Class300/PN25,40,50									40	25	25							
AW55SR54	切断 On-off	Class300/PN25,40,50										40								
AW60SR55	切断 On-off	Class300/PN25,40,50											40	25						
AW70SR55	切断 On-off	Class300/PN25,40,50												40						

注：1.必须保证 500kPa 气源压力，若现场只有 400kPa 气源压力 ，执行机构配置请另外详询技术部。

2.若管道直径与阀门口径变径 3 档及以上，且介质为高温蒸汽，执行机构配置请另外详询技术部。

3.以上为常温工况下的最大允许压差，当温度超过 400℃时，最大允许压差需下降 20%，执行机构配置请另外详询技术部。

Note: 1. The air supply pressure of 500kPa must be guaranteed. If there is only 400kPa air supply pressure on site, please consult the technical department for details of the actuator configuration.

2. If the diameter of the pipeline and the diameter of the valve are reduced by 3 stages or more, and the medium is high-temperature steam, please consult the technical department for details on the configuration of the actuator.

3. The above is the maximum allowable differential pressure under normal temperature conditions. When the temperature exceeds 400℃, the maximum allowable differential pressure needs to be reduced by 20%. For the configuration of the actuator, please consult the technical department for details.

表 4－10　Class300/PN25/40/50 配单作用气关（FO）气缸执行机构 (气源压力: 500kPa)　　100 kPa

Table 4-10 Class300/PN25/40/50 with single-acting air to close(FO) cylinder actuator (air supply: 500kPa)

执行机构 Actuator	阀门状态 Valve state	公称压力 Nominal pressure	公称通径 Nominal diameter																	
			80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1100	1200
			3″	4″	5″	6″	8″	10″	12″	14″	16″	18″	20″	24″	28″	32″	36″	40″	44″	48″
AT125SD5	切断 On-off	Class300/PN25,40,50	25																	
AT140SD5	切断 On-off	Class300/PN25,40,50	40	25																
AT160SD5	切断 On-off	Class300/PN25,40,50		40	25															
AT190SD5	切断 On-off	Class300/PN25,40,50			40	25														
AT210SD5	切断 On-off	Class300/PN25,40,50				40														
AT240SD5	切断 On-off	Class300/PN25,40,50				40	25													
AT270SD5	切断 On-off	Class300/PN25,40,50					40	25												
AT300SD5	切断 On-off	Class300/PN25,40,50						40												
AT350SD5	切断 On-off	Class300/PN25,40,50							25											
AW22SD51	切断 On-off	Class300/PN25,40,50					25													
AW24SD51	切断 On-off	Class300/PN25,40,50					40													
AW24SD52	切断 On-off	Class300/PN25,40,50					40	25												
AW30SD52	切断 On-off	Class300/PN25,40,50						40	25											
AW32SD53	切断 On-off	Class300/PN25,40,50							40	25										
AW40SD53	切断 On-off	Class300/PN25,40,50								40	25									
AW45SD54	切断 On-off	Class300/PN25,40,50									40	25	25							
AW55SD54	切断 On-off	Class300/PN25,40,50										40								
AW60SD55	切断 On-off	Class300/PN25,40,50											40	25						
AW70SD55	切断 On-off	Class300/PN25,40,50												40						

注：1.必须保证 500kPa 气源压力，若现场只有 400kPa 气源压力 ，执行机构配置请另外详询技术部。

2.若管道直径与阀门口径变径 3 档及以上，且介质为高温蒸汽，执行机构配置请另外详询技术部。

3.以上为常温工况下的最大允许压差，当温度超过 400℃时，最大允许压差需下降 20%，执行机构配置请另外详询技术部。

Note: 1. The air supply pressure of 500kPa must be guaranteed. If there is only 400kPa air supply pressure on site, please consult the technical department for details of the actuator configuration.

2. If the diameter of the pipeline and the diameter of the valve are reduced by 3 stages or more, and the medium is high-temperature steam, please consult the technical department for details on the configuration of the actuator.

3. The above is the maximum allowable differential pressure under normal temperature conditions. When the temperature exceeds

400℃, the maximum allowable differential pressure needs to be reduced by 20%. For the configuration of the actuator, please consult the technical department for details.

外形尺寸 Outline dimensions

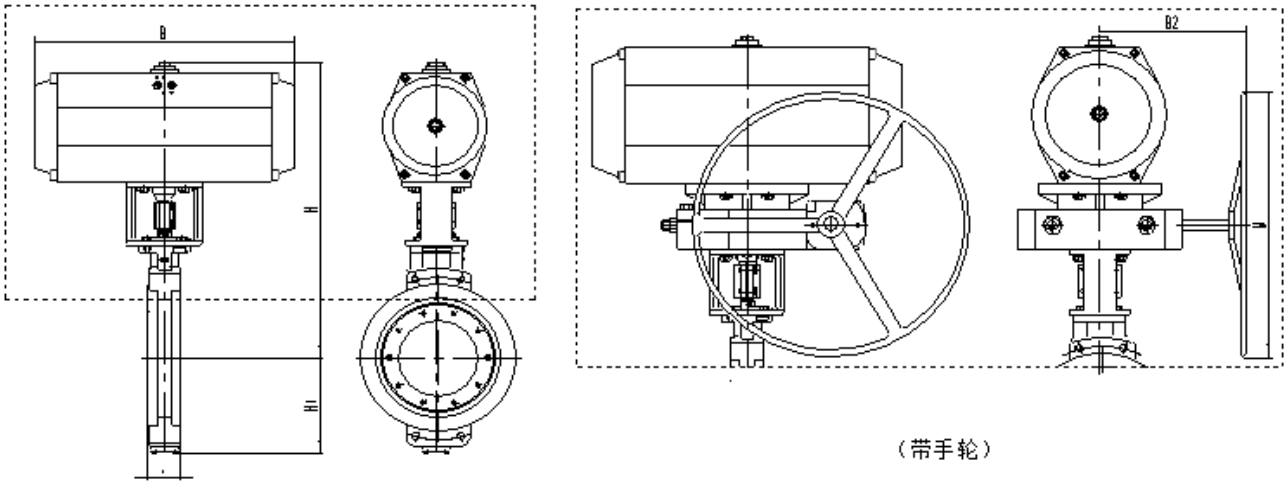


图 6.1 配 AT 外形尺寸图

Figure 6.1 Outline dimensions of valve combined with AT actuator

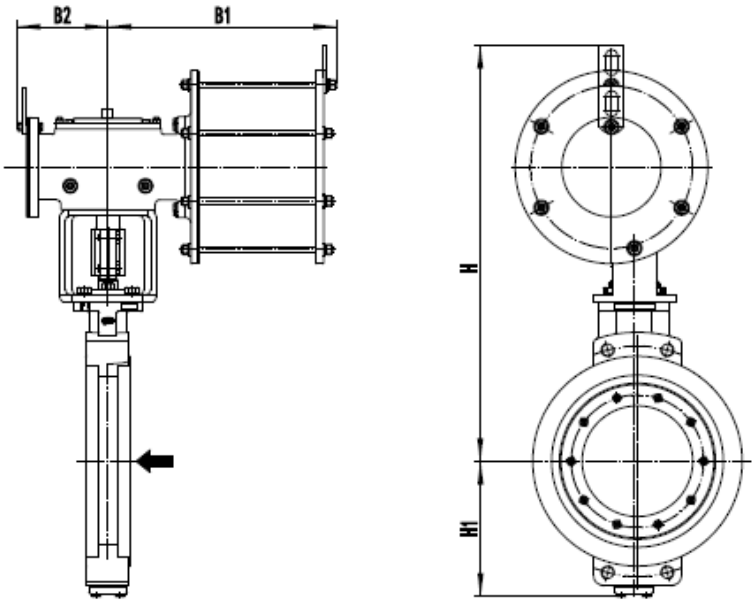


图 7.1 配 AW18D001~AW85D007 外形尺寸图

Figure 7.1 Outline dimensions of valve combined with AW18D001~AW85D007 actuator

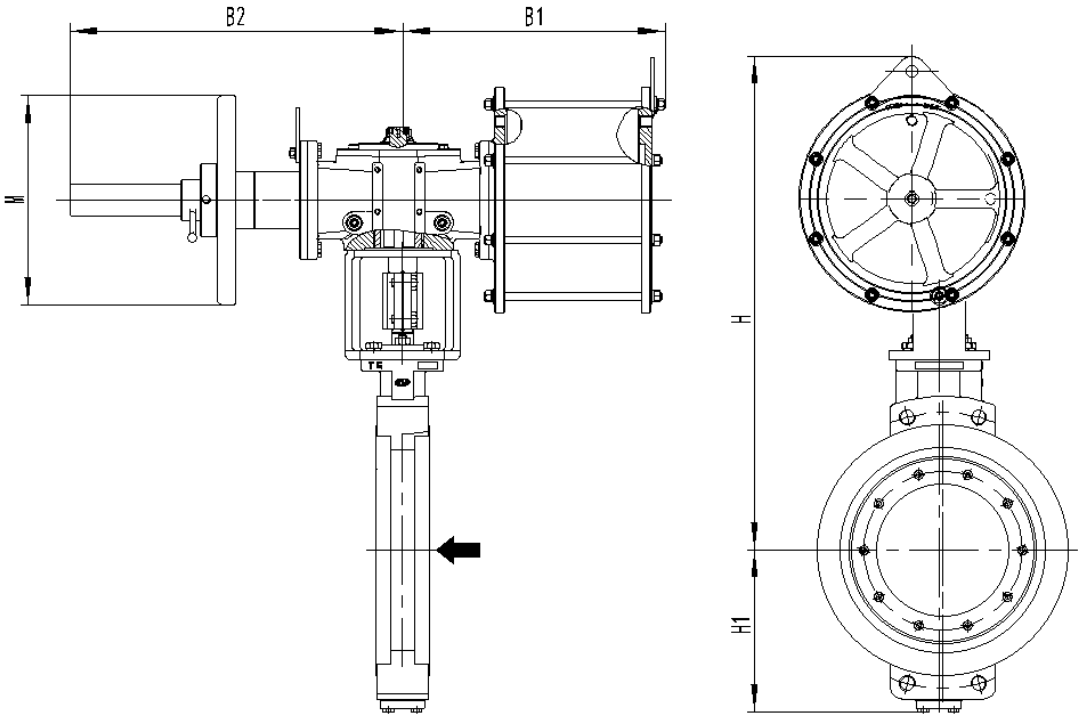


图 7.2 配 AW18D001~AW27D002 带丝杆手轮外形尺寸图

Figure 7.2 Outline dimensions of valve combined with AW18D001~AW27D002 actuator with lead screw handwheel

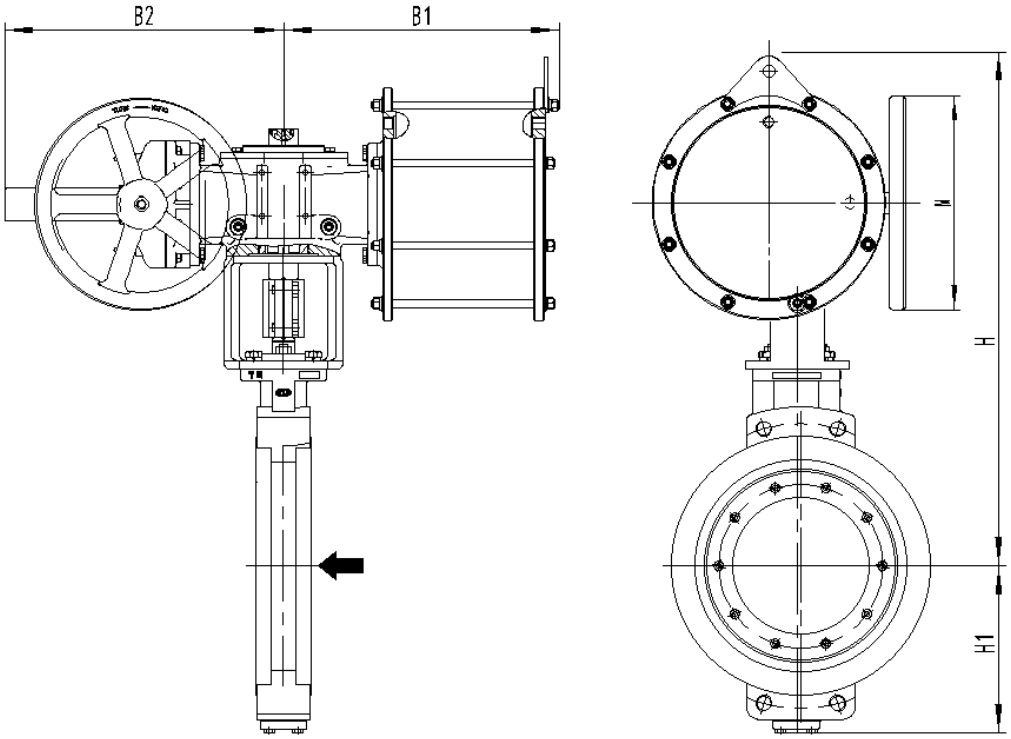


图 7.3 配 AW27D003~AW35D004 带伞齿手轮外形尺寸图

Figure 7.3 AW27D003~AW35D004 Outline dimensions of valve combined with AW27D003~AW35D004 actuator with lead screw handwheel

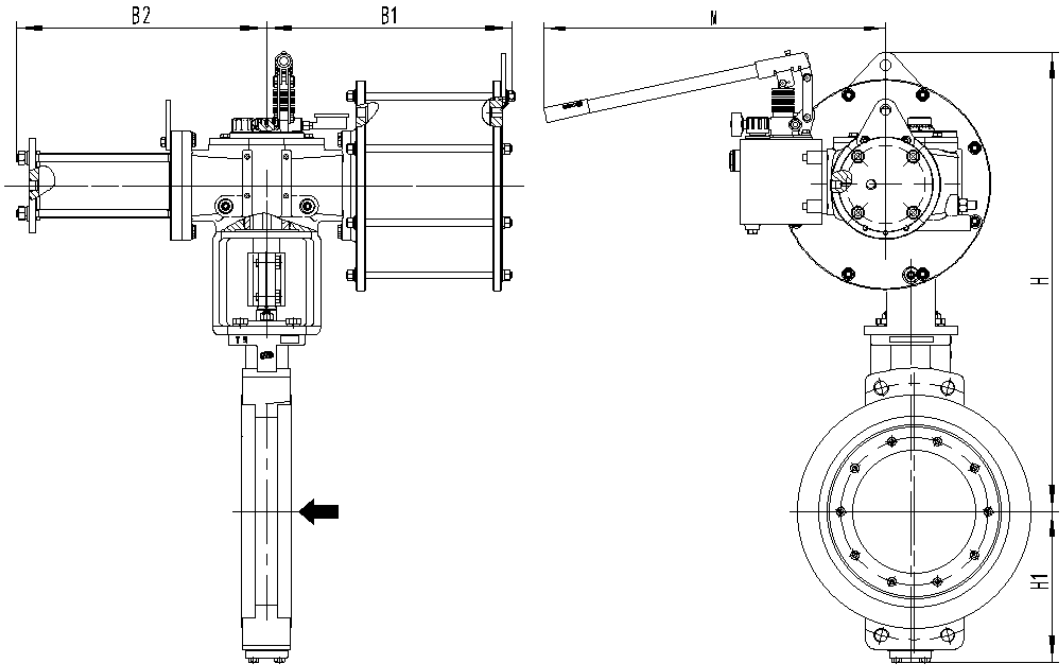


图 7.4 AW40D004~AW90D007 带液压手轮外形尺寸图

Figure 7.4 Outline dimensions of valve combined with AW40D004~AW90D007 actuator with hydraulic handwheel

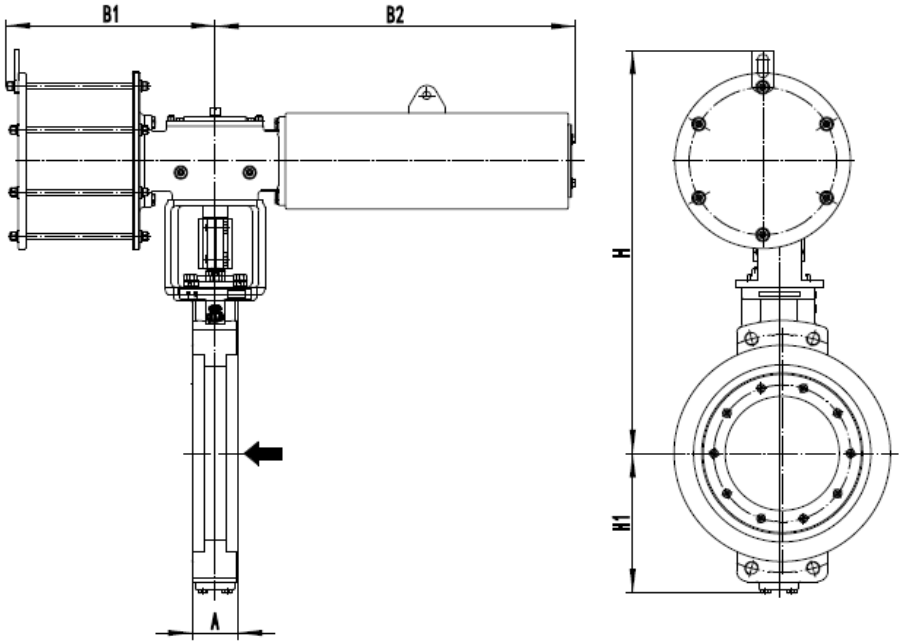


图 8.1 配 AW18SR41~AW85SR56 外形尺寸图 (FC)

Figure 8.1 Outline dimensions of AW18SR41~AW85SR56

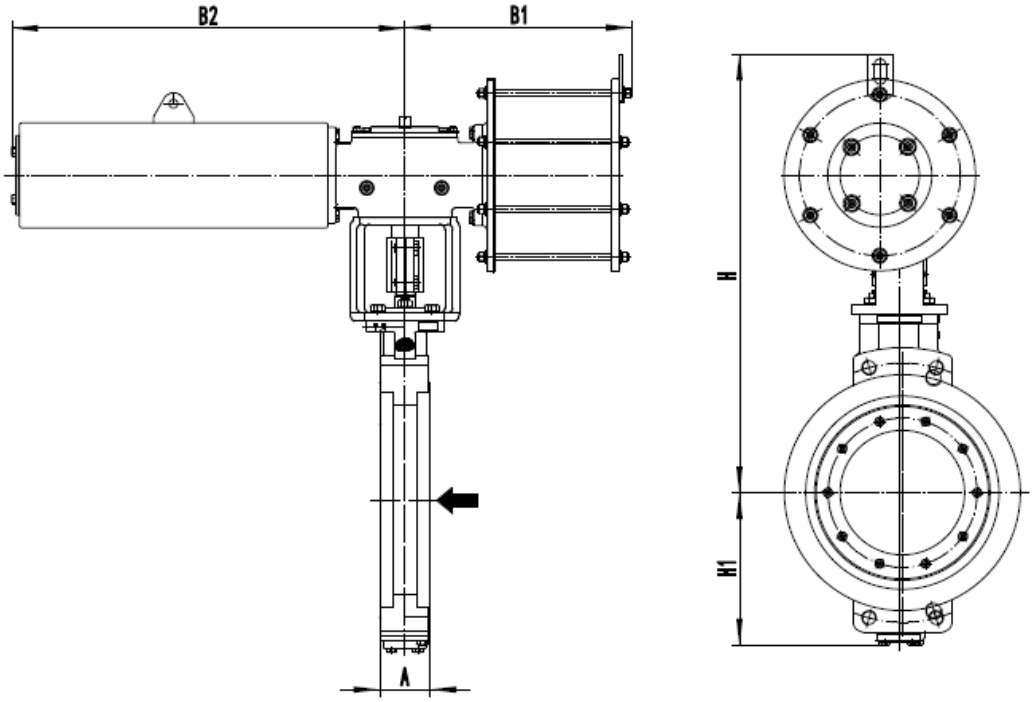


图 8.2 配 AW18SD41~AW85SD56 外形尺寸图 (FO 此状态为执行机构通气状态)

Figure 8.2 Outline dimensions of valve combined with AW18SD41~AW85SD56 actuator(FO The state is when the air supply is connected.)

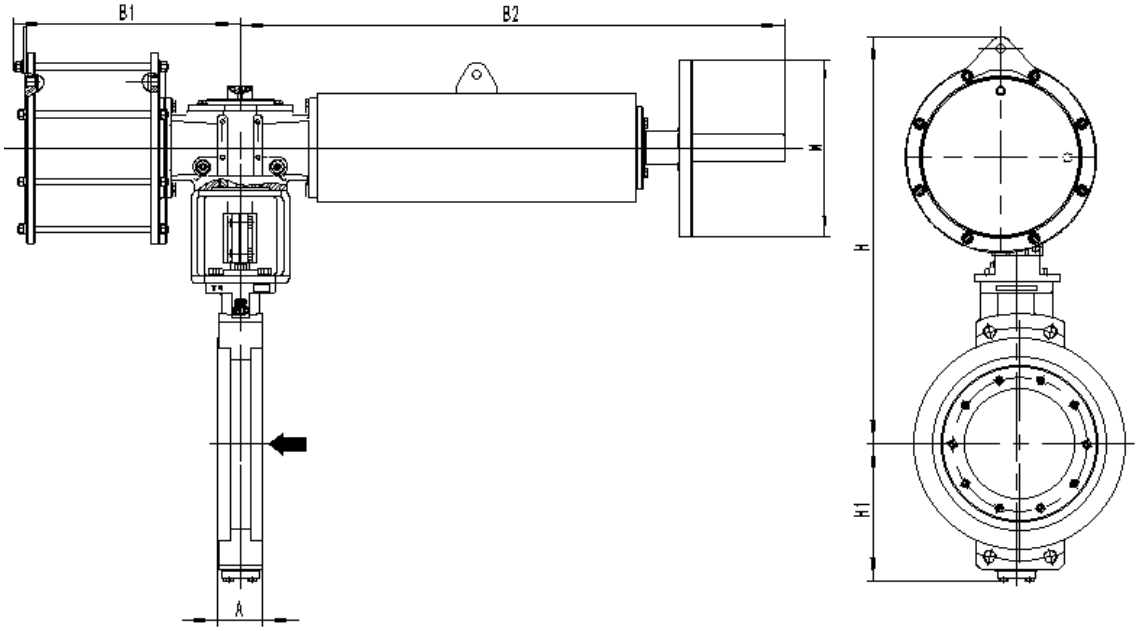


图 8.3 配 AW18SR41~AW27SR52 带丝杆手轮外形尺寸图 (FC)

Figure 8.3 Outline dimensions of valve combined with AW18SR41~AW27SR52 actuator with lead screw handwheel(FC)

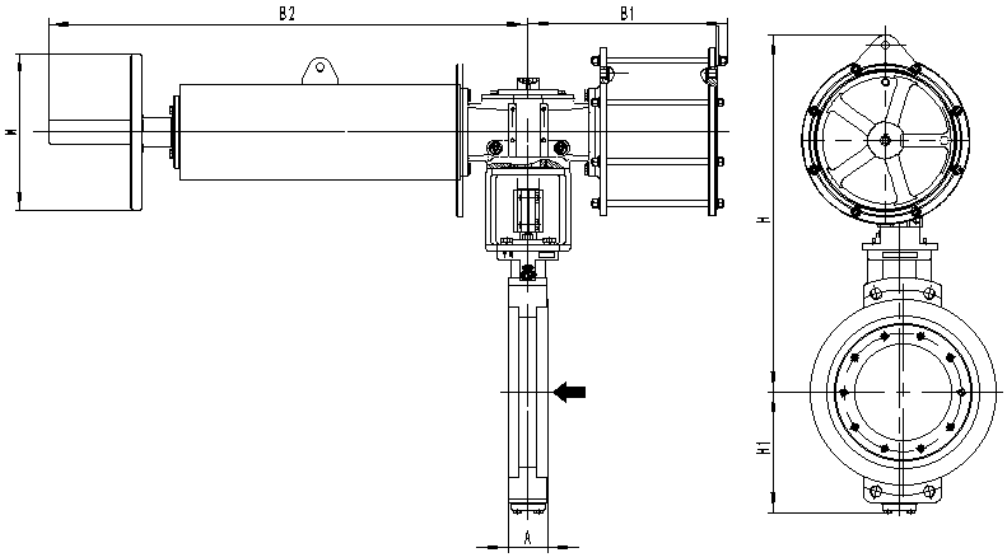


图 8.4 配 AW18SD41~AW27SD52 带丝杆手轮外形尺寸图(FO 此状态为执行机构通气状态)

Figure 8.4 Outline dimensions of valve combined with AW18SD41~AW27SD52 handwheel with lead screw handwheel(FO The state is when the air supply is connected.)

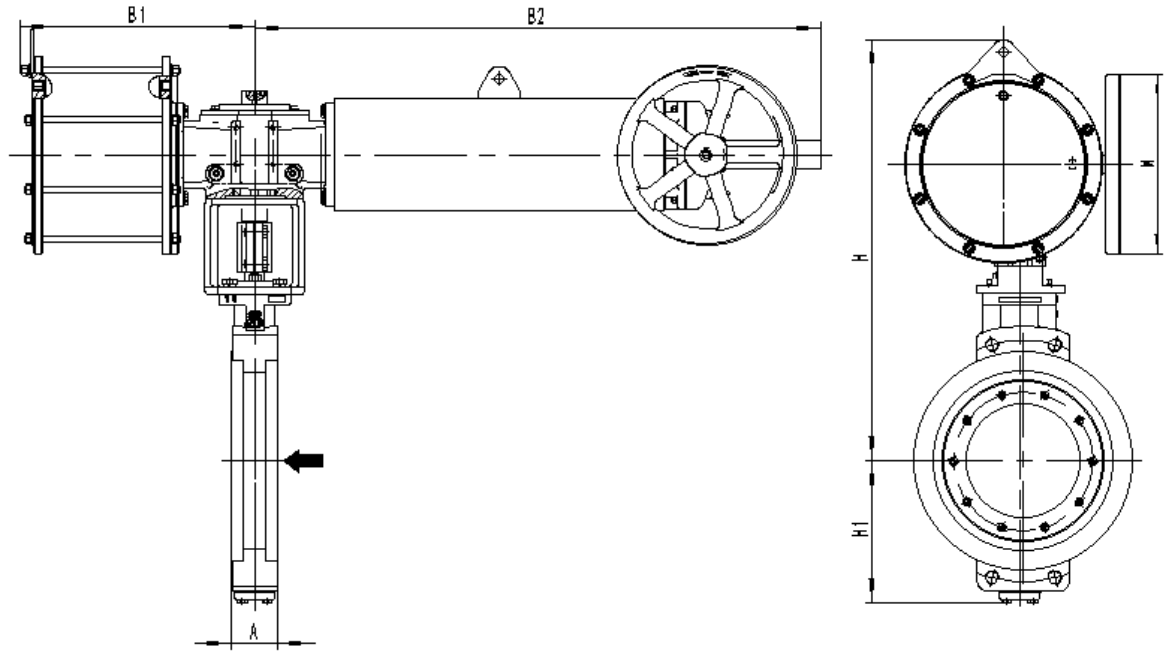


图 8.5 配 AW30SR42~AW40SR53 带伞齿手轮外形尺寸图 (FC)

Figure 8.5 Outline dimensions of valve combined with AW30SR42~AW40SR53 actuator with bevel gear handwheel(FC)

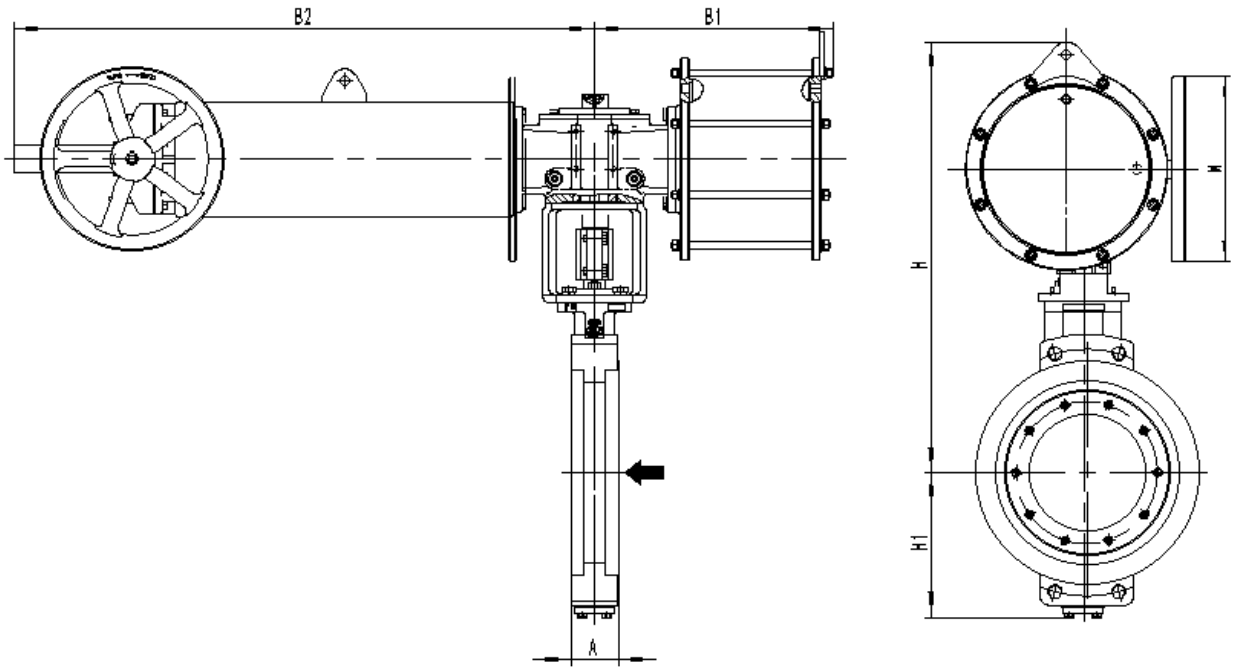


图 8.6 配 AW30SD42~AW40SD53 带伞齿手轮外形尺寸图(FO 此状态为执行机构通气状态)

Figure 8.6 Outline dimensions of valve combined with AW30SD42~AW40SD53 actuator with bevel gear handwheel (FO)

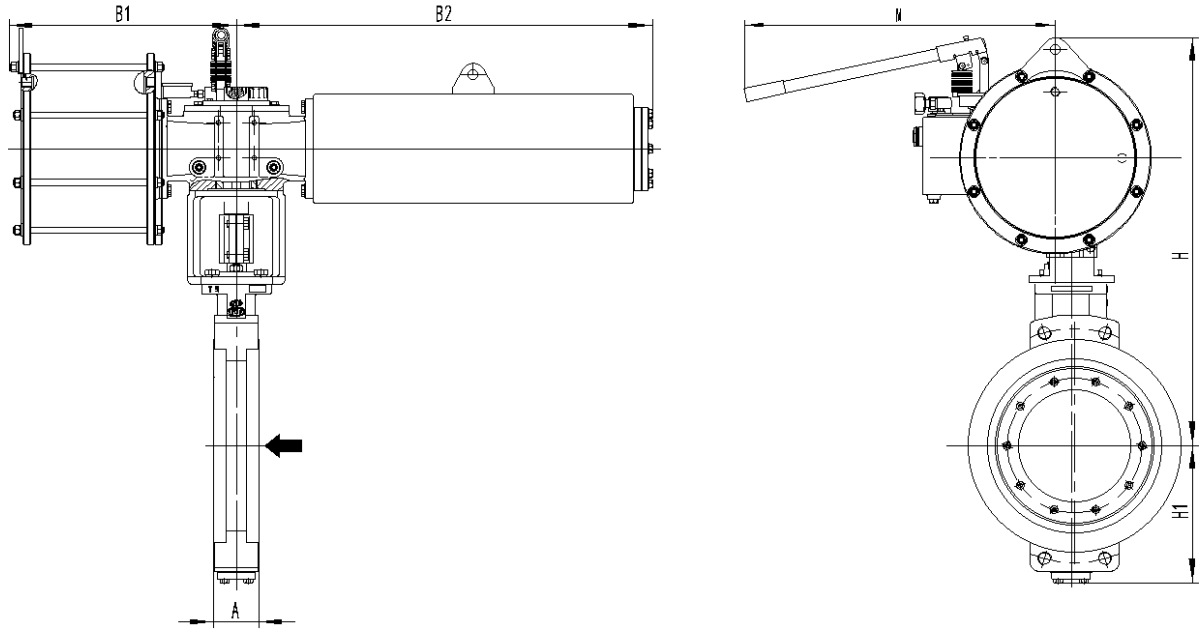


图 8.7 配 AW45SR43~AW85SR56 带液压手轮外形尺寸图 (FC)

Figure 8.7 Outline dimensions of valve combined with AW45SR43~AW85SR56 actuator with hydraulic handwheel(FC)

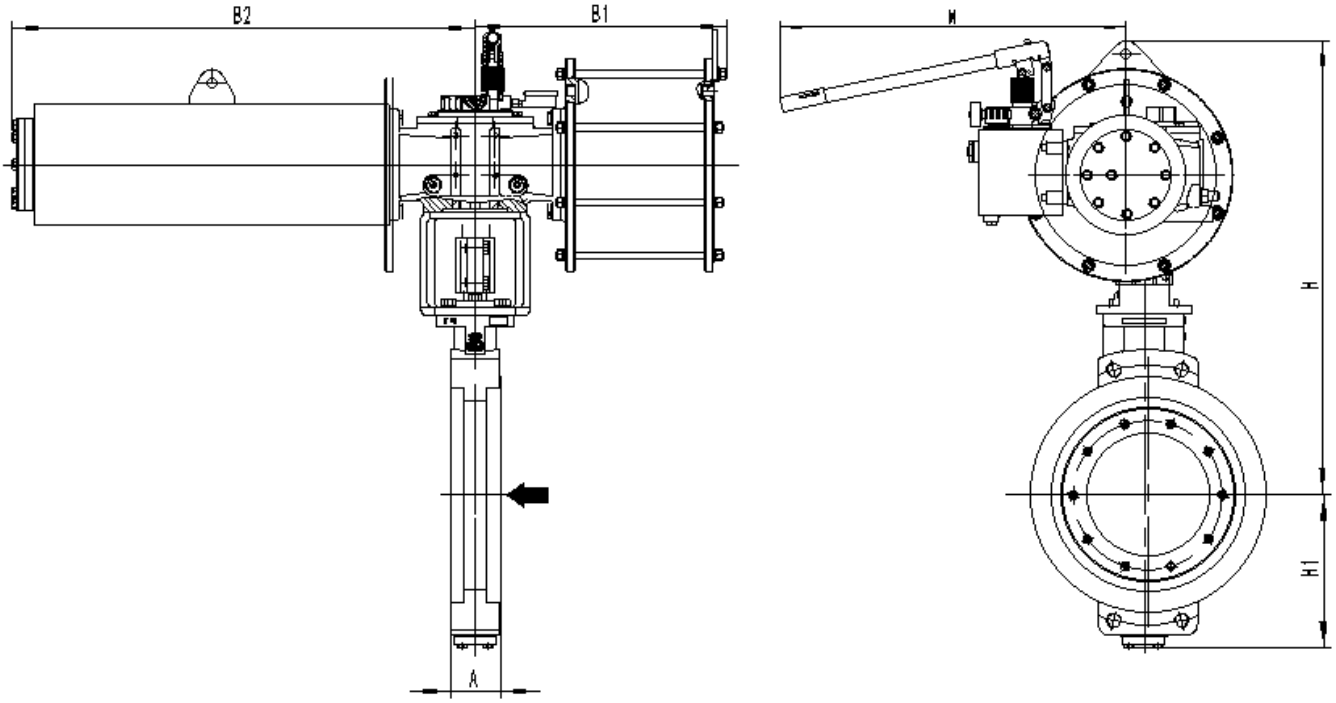


图 8.8 配 AW45SD43~AW85SD56 带液压手轮外形尺寸图(FO 此状态为执行机构通气状态)

Figure 8.8 Outline dimensions of valve combined with AW45SD43~AW85SD56 actuator(FO The state is when the air supply is connected)

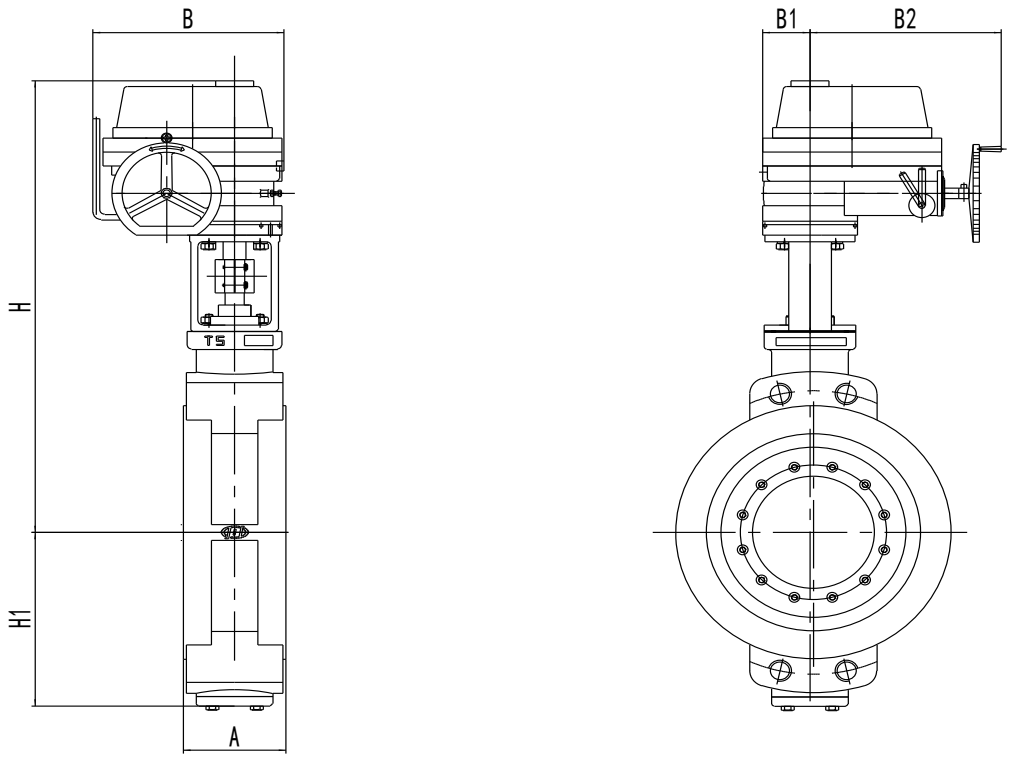


图 9 配 EI 执行机构外形尺寸图

Figure 9 Outline dimensions of valve combined with EI actuator

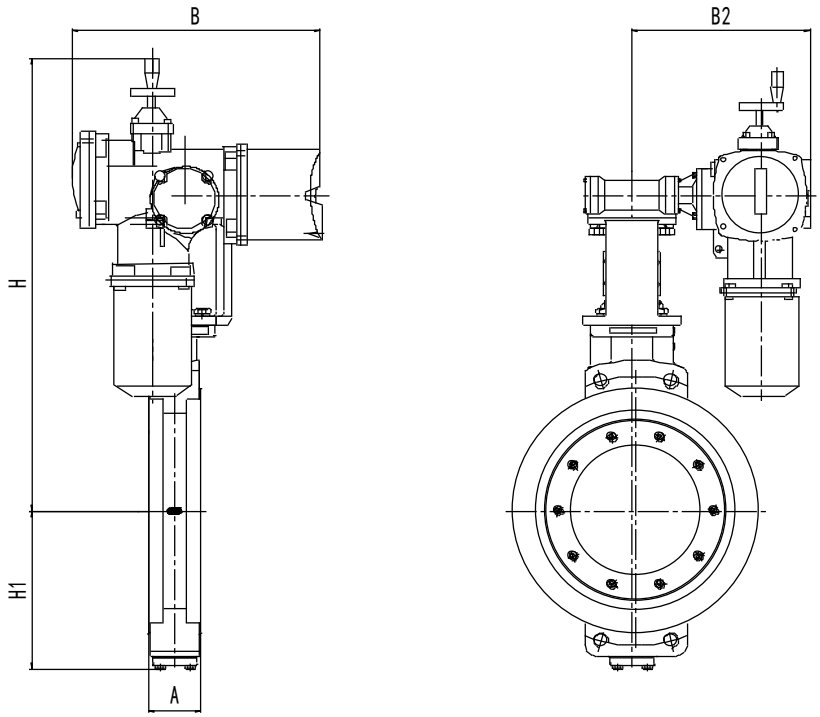


图 10　配 M8000 系列执行机构外形尺寸图

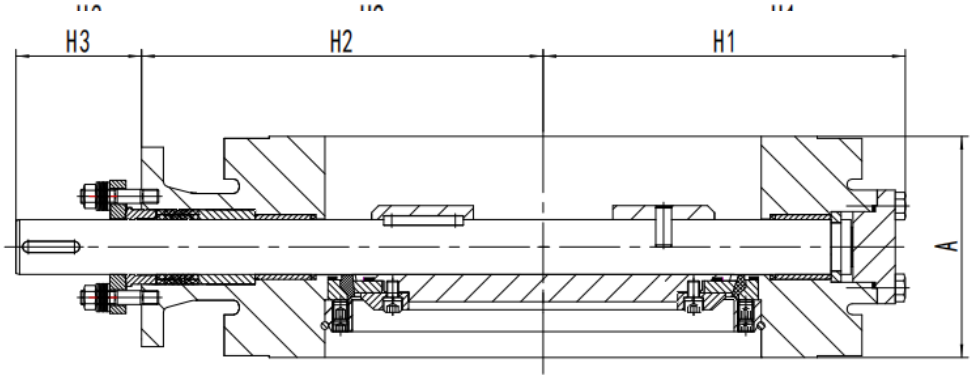
Figure 10 Outline dimensions of valve combined with M8000 actuator

注：外形尺寸图中的执行机构和手轮相关尺寸 B，B1，B2，M 请参考所配执行机构的样本数据。

Note: Dimensions related to actuator and handwheel in overall dimensions drawing B, B1, B2, M Please refer to the sample data of the assigned actuator.

阀体部件外形图及相关尺寸

Outline drawing and related dimensions of valve body components



法兰距、外形尺寸及重量

Face-to-face dimensions, outline dimensions and weight

表 5－1　Class150/PN10,16,20　　mm

Table 5-1 Outline dimensions of Class150/PN10,16,20 valve　　mm

公称通径 Nominal diameter (mm)	Class150/PN10,16,20 法兰距 A Face-to-face dimensions A		外形尺寸 Outline dimensions			阀体部件重量 Body component weight kg	
	VBJG-300012	VBJG-300002 VBJG-300022	H1	H2	H3	VBJG-300012	VBJG-300002 VBJG-300022
2"(50)	49	70	113	110	84	5.4	8.8
2½"(65)	49	114	116	125	86	6.2	13.4
3"(80)	49	114	125	134	94	7.6	15.2
4"(100)	56	127	147	157	101	11.5	22.1
5"(125)	64	140	161	175	101	15.3	27.4
6"(150)	70	140	165	195	105	20.5	35.8
8"(200)	71	152	198	219	108	28.4	59.4
10"(250)	76	165	323	250	128	42.2	81.6
12"(300)	83	178	268	297	128	65.4	117.5
14"(350)	92	190	294	324	167	91.5	142.8
16"(400)	102	216	334	325	162	113.7	182.2
18"(450)	114	222	359	401	179	170.9	246.7
20"(500)	127	229	395	434	179	195.9	290.2
24"(600)	154	267	464	500	185	290.5	431.3

28"(700)	165	292	536	564	242	416.7	819.5
32"(800)	190	318	586	614	242	-	1077.7
36"(900)	203	330	651	676	242	-	1223.6
40"(1000)	216	410	700	726	242	-	1469.6
44"(1100)	-	470	786	797	310		-
48"(1200)	254	470	850	-	-	-	-
56"(1400)	279	530	1100	-	-	-	-
64"(1600)	318	600	1500	-	-	-	-
72"(1800)	356	670	1900	-	-	-	-
76"(1900)	-	610	-	-	-	-	-
80"(2000)	406	760	2100	-	-	-	-

表 5－2　Class300/PN25,40,50　　mm

Table 5-2　Outline dimensions of Class300/PN25,40,50 valve　　mm

公称通径 Nominal diameter (mm)	Class150/PN10,16,20 法兰距 A Face-to-face dimensions A		外形尺寸 Outline dimensions			阀体部件重量 Body component weight kg	
	VBJG-300012	VBJG-300002 VBJG-300022	H1	H2	H3	VBJG-300012	VBJG-300002 VBJG-300022
2"(50)	49	70	113	110	84	5.4	8.8
2½"(65)	49	114	116	125	86	6.2	13.4
3"(80)	64	180	125	134	94	7.6	15.2
4"(100)	64	190	147	157	101	11.5	22.1
5"(125)	70	200	161	175	101	15.3	27.4
6"(150)	76	210	165	195	105	20.5	35.8
8"(200)	89	230	316	224	108	42.2	92.1
10"(250)	114	250	258	285	128	74.5	128.5
12"(300)	114	270	288	315	162	101.5	187.5
14"(350)	127	290	324	345	162	137.9	259.6
16"(400)	140	310	362	378	179	201.7	332.8
18"(450)	152	330	394	422	179	235.7	440.1
20"(500)	152	350	423	455	179	286.1	517.1
24"(600)	178	390	498	525	185		739.9
28"(700)	229	292	-	-	-	-	-
32"(800)	241	318	-	-	-	-	-
36"(900)	241	350	-	-	-	-	-
40"(1000)	300	410	-	-	-	-	-
48"(1200)	360	-	-	-	-	-	-

表 5－3　Class600/PN63,100,110　　mm

Table 5-3 Outline dimensions of Class600/PN63,100,110 valve　　mm

公称通径 Nominal diameter (mm)	Class150/PN10,16,20 法兰距 A Face-to-face dimensions A		外形尺寸 Outline dimensions			阀体部件重量 Body component weight kg	
	VBJG-300012	VBJG-300002 VBJG-300022	H1	H2	H3	VBJG-300012	VBJG-300002 VBJG-300022
6"(150)	156	210	222	227	162	-	100
8"(200)	168	230	260	269	162	-	148
10"(250)	178	250	305	305	179	-	267
12"(300)	200	270	343	349	188	-	368
14"(350)	228	290	378	392	198	-	438
16"(400)	240	310	408	434	242	-	599
18"(450)	252	330	426	406	260	-	821
20"(500)	265	350	466	485	280	-	1010
24"(600)	290	390	538	565	310	-	1473

伸长高温上盖　Extended high-temperature bonnet

整体式阀座结构伸长上阀盖

Integral seat structure with extension bonnet

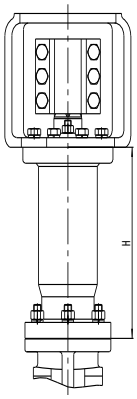


图 11　整体式阀座伸长高温上盖

Fig.11 Integral seat structure with extension bonnet

分体式阀座结构伸长上阀盖

Split seat structure with extension bonnet

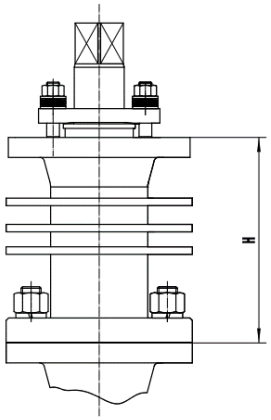


图 12　分体式阀座伸长高温上盖

Fig.12 Split seat structure with extension bonnet

表 5—1　整体式阀座伸长高温上盖外形尺寸

Table 5-1 Outline dimensions of extended high-temperature bonnet (Integral seat)

Class150/PN10,16,20		Class300/PN25,40,50		Class600/PN63,100,110	
公称通径（mm） Nominal diameter	高度 H(mm) Height	公称通径（mm） Nominal diameter	高度 H(mm) Height	公称通径（mm） Nominal diameter	高度 H(mm) Height
3"(80)	150	3"(80)	150	3"(80)	-
4"(100)	150	4"(100)	150	4"(100)	-
5"(125)	150	5"(125)	150	5"(125)	-
6"(150)	150	6"(150)	150	6"(150)	150
8"(200)	200	8"(200)	200	8"(200)	200
10"(250)	200	10"(250)	200	10"(250)	200
12"(300)	300	12"(300)	300	12"(300)	300
14"(350)	300	14"(350)	300	14"(350)	300
16"(400)	300	16"(400)	300	16"(400)	300
18"(450)	300	18"(450)	300	18"(450)	-
20"(500)	300	20"(500)	300	20"(500)	-
24"(600)	300	24"(600)	300	24"(600)	-

Class150/Class300　TrimA/TrimX		Class300/Class600　TrimB	
公称通径（mm） Nominal diameter	高度 H(mm) Height	公称通径（mm） Nominal diameter	高度 H(mm) Height
3"(80)	150	3"(80)	150
4"(100)	150	4"(100)	150
5"(125)	150	5"(125)	150
6"(150)	150	6"(150)	150
8"(200)	150	8"(200)	150
10"(250)	150	10"(250)	150
12"(300)	150	12"(300)	150
14"(350)	150	14"(350)	150
16"(400)	150	16"(400)	150
18"(450)	250	18"(450)	250
20"(500)	250	20"(500)	250
24"(600)	250	24"(600)	250
28"(700)	300	28"(700)	300
32"(800)	150	32"(800)	300
36"(900)	150	36"(900)	300
40"(1000)	150	40"(1000)	300

注：1.计算带伸长高温上盖外形尺寸时，在基本结构外形尺寸基础上加上上盖高度尺寸 H

2.上述表 4-1 至 4-7 中重量一栏中的数值不包含伸长高温上盖的重量。

3.TrimX：最大压差△Pmax. 10bar；TrimA：最大压差△Pmax. 20bar；TrimB：最大压差△Pmax.40bar

Note: 1. When calculating the outline dimension of the extended high-temperature bonnet, add the outline dimension of the bonnet H on the

basis of the outline dimension of the basic structure.

2. The values in the column of weight in Table 4-1 to 4-7 above do not include the weight of the extended high-temperature bonnet.

3.TrimX: maximum differential pressure ΔPmax. 10bar; TrimA: maximum differential pressure ΔPmax. 20 bar; TrimB: Maximum differential pressure Pmax. 40bar

法兰螺栓

Flange bolt

表 7-1 Class150/PN10,16,20 VBJG-300012 法兰螺栓统计：

Table 6-1 Statistics on the flange bolts of Class150/PN10,16,20 VBJG-300012

口径 DN	压力 Nominal pressure	每台螺栓规格及数量 Specification and quantity per unit	压力 Nominal pressure	每台螺栓规格及数量 Specification and quantity per unit	压力 Nominal pressure	每台螺栓规格及数量 Specification and quantity per unit	
DN50	PN10	4-M16x135	PN16	4-M16x135	Class150/PN20	4-M16x135	
DN65	PN10	8-M16x60 4-M16x140	PN16	8-M16x60 4-M16x140	Class150/PN20	4-M16x140	
DN80	PN10	8-M16x140	PN16	8-M16x140	Class150/PN20	4-M16x150	
DN100	PN10	8-M16x150	PN16	8-M16x150	Class150/PN20	8-M16x160	
DN125	PN10	8-M16x160	PN16	8-M16x160	Class150/PN20	8-M20x170	
DN150	PN10	8-M20x180	PN16	8-M20x180	Class150/PN20	8-M20x180	
DN200	PN10	8-M20x180	PN16	12-M20x180	Class150/PN20	8-M20x190	
DN250	PN10	12-M20x190	PN16	12-M24x200	Class150/PN20	12-M24x210	
DN300	PN10	12-M20x200	PN16	12-M24x210	Class150/PN20	12-M24x220	
DN350	PN10	8-M20x85 12-M20x210	PN16	8-M24x95 12-M24x230	Class150/PN20	8-M27x110 8-M27x240	
DN400	PN10	8-M24x95 12-M24x230	PN16	8-M27x110 12-M27x250	Class150/PN20	8-M27x120 12-M27x250	
DN450	PN10	8-M24x95 16-M24x250	PN16	8-M27x100 16-M27x280	Class150/PN20	8-M30x115 12-M30x275	
DN500	PN10	8-M24x95 16-M24x270	PN16	8-M30x110 16-M30x300	Class150/PN20	8-M30x110 16-M30x290	
DN600	PN10	8-M27x110 16-M27x310	PN16	8-M33x120 16-M33x340	Class150/PN20	8-M33x120 16-M33x340	
DN700	PN10	8-M27x105 20-M27x330	PN16	8-M33x120 20-M33x370	Class150/PN20	A 系列 A series	8-M33x140 24-M33x400
						B 系列 B series	8-M20x105 36-M20x320
DN800	PN10	8-M30x140 20-M30x390	PN16	8-M36x3x160 20-M36x3x440	Class150/PN20	A 系列 A series	8-M39x170 24-M39x450
						B 系列 B series	8-M20x110 44-M20x340
DN900	PN10	8-M30x145	PN16	8-M36x3x170	Class150/PN20	A 系列 A series	8-M39x170 28-M39x485

		24- M30X410		24-M36x3x465		B 系列 B series	8-M24x115
							40-M24x375
DN1000	PN10	8-M33x2x160	PN16	8-M39x3x180	Class150/PN20	A 系列 A series	8-M39x175
							32-M39x500
		24-M33x2x445		24-M39x3x500		B 系列 B series	16-M27x125
							36-M27x410

注：1.PN 系列配对法兰螺栓须按照 GB/T20592-2009 标准中表 3.0.3-1 规定选择；Class 系列配对法兰螺栓须按照 GB/T20615-2009 标准中表 3.3.1 规定选择螺栓和螺母；

2.若法兰螺栓中同时存在长螺栓和短螺栓两种，短螺栓必须使用第一条标准规定的全螺纹螺柱。

3.如用户无特殊要求，短螺栓、螺母材质为 35CrMo。

Note: 1.PN series companion flange bolts shall be selected according to Table 3.0.3-1 in GB/T20592-2009; Class series companion flange bolts shall be selected in accordance with Table 3.3.1 in GB/T20615-2009;

2.If there are both long bolts and short bolts in the flange bolts, the short bolts must be fully threaded bolts as stipulated in the first standard.

3. If the customer has no special requirements, the material of short bolts and nuts is 35CrMo.

表 7-2　Class150/PN10,16,20 VBJG-300002 法兰螺栓统计：

Table 6-2 Statistics on the flange bolts of Class150/PN10,16,20 VBJG-300002

口径 DN	压力 Nominal pressure	每台螺栓规格及数量 Specification and quantity per unit	压力 Nominal pressure	每台螺栓规格及数量 Specification and quantity per unit	压力 Nominal pressure	每台螺栓规格及数量 Specification and quantity per unit
DN50	PN10	8-M16x70	PN16	8-M16x70	Class150/PN20	8-M16x70
DN65	PN10	16-M16x90	PN16	16-M16x90	Class150/PN20	8-M16x90
DN80	PN10	8-M16x80	PN16	8-M16x80	Class150/PN20	8-M16x100
		8-M16x100		8-M16x100		
DN100	PN10	8-M16x80	PN16	8-M16x80	Class150/PN20	8-M16x80
		8-M16X90		8-M16x90		8-M16x95
DN125	PN10	8-M16x80	PN16	8-M16x80	Class150/PN20	12-M20x110
		8-M16x90		8-M16x90		8-M20X85
DN150	PN10	8-M20x80	PN16	8-M20x80	Class150/PN20	8-M20x90
		8-M20x100		8-M20x110		8-M20x110
DN200	PN10	16-M20x100	PN16	24-M20x110	Class150/PN20	16-M20x110
DN250	PN10	8-M20x90	PN16	8-M24x90	Class150/PN20	8-M24x100
		16-M20x110		16-M24x120		16-M24x120
DN300	PN10	24-M20x110	PN16	8-M24x100	Class150/PN20	8-M24x110
				16-M24x120		16-M24x130
DN350	PN10	32-M20x110	PN16	8-M24x110	Class150/PN20	8-M27x110
				24-M24x130		16-M27x140
DN400	PN10	32-M24x120	PN16	32-M27x140	Class150/PN20	8-M27x120
						24-M27x140
DN450	PN10	40-M24x120	PN16	8-M27x120	Class150/PN20	8-M30x130
				32-M27x140		24-M30x160
DN500	PN10	40-M24x130	PN16	8-M30x130	Class150/PN20	8-M30x130

				32-M30x150		32-M30x160	
DN600	PN10	40-M27x140	PN16	40-M33x170	Class150/PN20	8-M33x150	
						32-M33x180	
DN700	PN10	8-M27x130	PN16	8-M33x150	Class150/PN20	A 系列 A series	8-M33x195
							48-M33x230
		40-M27x160		40-M33x190		B 系列 B series	80-M20x150
DN800	PN10	48-M30x175	PN16	48-M36x3x210	Class150/PN20	A 系列 A series	8-M39x205
							48-M39x250
						B 系列 B series	96-M20x150
DN900	PN10	56-M30x190	PN16	56-M36x3x225	Class150/PN20	A 系列 A series	8-M39x205
							56-M39x280
						B 系列 B series	88-M24x170
DN1000	PN10	56-M33x205	PN16	56-M39x3x240	Class150/PN20	A 系列 A series	8-M39x205
							64-M39x280
						B 系列 B series	88-M27x180

注：1.PN 系列配对法兰螺栓须按照 GB/T20592-2009 标准中表 3.0.3-1 规定选择；Class 系列配对法兰螺栓须按照 GB/T20615-2009 标准中表 3.3.1 规定选择螺栓和螺母；

2.若法兰螺栓中同时存在长螺栓和短螺栓两种，短螺栓必须使用第一条标准规定的全螺纹螺柱。

3.如用户无特殊要求，短螺栓、螺母材质为 35CrMo。

Note: 1.PN series companion flange bolts shall be selected according to Table 3.0.3-1 in GB/T20592-2009; Class series companion flange bolts shall be selected in accordance with Table 3.3.1 in GB/T20615-2009;

2.If there are both long bolts and short bolts in the flange bolts, the short bolts must be fully threaded bolts as stipulated in the first standard.

3. If the customer has no special requirements, the material of short bolts and nuts is 35CrMo.

表 7-3　Class300/PN25,40,50 VBJG-300012 法兰螺栓统计：

Table 7-3 Statistics on the flange bolts of Class300/PN25,40,50 VBJG-300012

口径 DN	压力 Nominal pressure	每台螺栓规格及数量 Specification and quantity per unit	压力 Nominal pressure	每台螺栓规格及数量 Specification and quantity per unit	压力 Nominal pressure	每台螺栓规格及数量 Specification and quantity per unit
DN50	PN25	4-M16x140	PN40	4-M16x140	Class300/PN50	8-M16x65 4-M16x140
DN65	PN25	8-M16x65 4-M16x150	PN40	8-M16x65 4-M16x150	Class300/PN50	8-M20x75 4-M20x160
DN80	PN25	8-M16x165	PN40	8-M16x165	Class300/PN50	8-M20x180
DN100	PN25	8-M20x170	PN40	8-M20x170	Class300/PN50	8-M20x190
DN125	PN25	8-M24x190	PN40	8-M24x190	Class300/PN50	8-M20x200
DN150	PN25	8-M24x90 4-M24x200	PN40	8-M24x90 4-M24x200	Class300/PN50	8-M20x90 8-M20x210
DN200	PN25	8-M24x90 8-M24x220	PN40	8-M27x100 8-M27x230	Class300/PN50	8-M24x100 8-M24x240
DN250	PN25	8-M27x100 8-M27x260	PN40	8-M30x120 8-M30x270	Class300/PN50	8-M27x110 12-M27x280
DN300	PN25	8-M27x100 12-M27x260	PN40	8-M30x110 12-M30x280	Class300/PN50	8-M30x120 12-M30x300
DN350	PN25	8-M30x110 12-M30x290	PN40	8-M33x120 12-M33x300	Class300/PN50	8-M30x120 16-M30x310
DN400	PN25	8-M33x130 12-M33x320	PN40	8-M36x3x140 12-M36x3x330	Class300/PN50	8-M33x130 16-M33x340
DN450	PN25	8-M33x130 16-M33x320	PN40	8-M36x3x140 16-M36x3x360	Class300/PN50	8-M33x130 20-M33x360
DN500	PN25	8-M33x140 16-M33X325	PN40	8-M39x3x140 16-M39x3x360	Class300/PN50	8-M33x130 20-M33x360
DN600	PN25	8-M36x3x150 16-M36x3x380	PN40	8-M45 x3x170 16-M45x3x430	Class300/PN50	8-M39x150 20-M39x410

注：1.PN 系列配对法兰螺栓须按照 GB/T20592-2009 标准中表 3.0.3-1 规定选择；Class 系列配对法兰螺栓须按照 GB/T20615-2009 标准中表 3.3.1 规定选择螺栓和螺母；

2.若法兰螺栓中同时存在长螺栓和短螺栓两种，短螺栓必须使用第一条标准规定的全螺纹螺柱。

3.如用户无特殊要求，短螺栓、螺母材质为 35CrMo。

Note: 1.PN series companion flange bolts shall be selected according to Table 3.0.3-1 in GB/T20592-2009; Class series companion flange bolts shall be selected in accordance with Table 3.3.1 in GB/T20615-2009;

2.If there are both long bolts and short bolts in the flange bolts, the short bolts must be fully threaded bolts as stipulated in the first standard.

3. If the customer has no special requirements, the material of short bolts and nuts is 35CrMo.

表 7-4　Class300/PN25,40,50 VBJG-300002 法兰螺栓统计：

Table 7-4　Statistics on the flange bolts of Class300/PN25,40,50 VBJG-300002

口径 DN	压力 Nominal pressure	每台螺栓规格及数量 Specification and quantity per unit	压力 Nominal pressure	每台螺栓规格及数量 Specification and quantity per unit	压力 Nominal pressure	每台螺栓规格及数量 Specification and quantity per unit	
DN50	PN25	8-M16x80	PN40	8-M16x80	Class300/PN50	16-M16x90	
DN65	PN25	8-M16x80 8-M16x100	PN40	8-M16x80 8-M16x100	Class300/PN50	8-M20x80 8-M20x105	
DN80	PN25	4-M16x85 12-M16x105	PN40	4-M16x85 12-M16x105	Class300/PN50	8-M20x90 8-M20x110	
DN100	PN25	8-M20x100 8-M20x130	PN40	8-M20x100 8-M20x130	Class300/PN50	8-M20x100 8-M20x130	
DN125	PN25	8-M24x105 8-M24x 135	PN40	8-M24x105 8-M24x 135	Class300/PN50	16-M20x140	
DN150	PN25	16-M24x140	PN40	16-M24x140	Class300/PN50	8-M20x115 16-M20x145	
DN200	PN25	24-M24x130	PN40	24-M27x145	Class300/PN50	24-M24x160	
DN250	PN25	24-M27x140	PN40	24-M30x160	Class300/PN50	32-M27x175	
DN300	PN25	32-M27x145	PN40	32-M30x170	Class300/PN50	32-M30x185	
DN350	PN25	32- M30x160	PN40	32-M33x185	Class300/PN50	40-M30x195	
DN400	PN25	32-M33x170	PN40	32-M36x3x195	Class300/PN50	40-M33x205	
DN450	PN25	40-M33x190	PN40	40-M36x3x210	Class300/PN50	48-M33x210	
DN500	PN25	40- M33x175	PN40	40- M39x3x215	Class300/PN50	4-M33x180 44-M33x220	
DN600	PN25	40-M36x3x210	PN40	40-M45x3x260	Class300/PN50	48-M39x3x250	
DN700	PN25	8- M39x3x160 40-M39x3x210	PN40	—	Class300/PN50	B 系列 B series	16-M33x235 56-M33x275
DN800	PN25	8-M45x3x170 40-M45x3x225	PN40	—	Class300/PN50	A 系列 A series B 系列 B series	8-M48x270 48-M48x325 8-M39x3x265 56-M39x3x310
DN900	PN25	8-M45x3x180 48-M45x3x235	PN40	—	Class300/PN50	A 系列 A series B 系列 B series	8-M52x290 56-M52x345 8-M42x3x275 56-M42x3x320
DN1000	PN25	8-M52x4x190	PN40	—	Class300/PN50	A 系列 A series	8-M42x200 56-M42x345

		48-M52x4x255				B 系列 B series	8-M42x3x300
							72-M42x3x345

注：1.PN 系列配对法兰螺栓须按照 GB/T20592-2009 标准中表 3.0.3-1 规定选择；Class 系列配对法兰螺栓须按照 GB/T20615-2009 标准中表 3.3.1 规定选择螺栓和螺母；

2.若法兰螺栓中同时存在长螺栓和短螺栓两种，短螺栓必须使用第一条标准规定的全螺纹螺柱。

3.如用户无特殊要求，短螺栓、螺母材质为 35CrMo。

Note: 1.PN series companion flange bolts shall be selected according to Table 3.0.3-1 in GB/T20592-2009; Class series companion flange bolts shall be selected in accordance with Table 3.3.1 in GB/T20615-2009;

2.If there are both long bolts and short bolts in the flange bolts, the short bolts must be fully threaded bolts as stipulated in the first standard.

3. If the customer has no special requirements, the material of short bolts and nuts is 35CrMo.

表 7-5 Class600 PN63,100,110 VBJG-300012 法兰螺栓统计：

Table 7-5 Statistics on the flange bolts of PN63,100,110 VBJG-300012

口径 DN	压力 Nominal pressure	每台螺栓规格及数量 Specification and quantity per unit	压力 Nominal pressure	每台螺栓规格及数量 Specification and quantity per unit	压力 Nominal pressure	每台螺栓规格及数量 Specification and quantity per unit
DN150	PN63	8-M30x130	PN100	8-M30x140	Class600/PN110	8-M27x140
		4-M30x315		8-M30x330		8-M27x 350
DN200	PN63	8-M33x145	PN100	8-M33x155	Class600/PN110	8-M30x155
		8-M33x345		8-M33x365		8-M30x385
DN250	PN63	8-M33x150	PN100	8-M36x3x170	Class600/PN110	8-M33x170
		8-M33x365		8-M36x3x400		12-M33x415
DN300	PN63	8-M33x155	PN100	8-M39x3x185	Class600/PN110	8-M33x175
		12-M33x400		12-M39x3x440		16-M33x445
DN350	PN63	8-M36x3x165	PN100	8- M45x3x205	Class600/PN110	8-M36x3x185
		12-M36x3x440		12-M45x3x495		16-M36x3x485
DN400	PN63	8-M39x3x175	PN100	8- M45x3x210	Class600/PN110	8-M39x3x200
		12-M39x3x465		12-M45x3x515		16-M39x3x515
DN450	PN63	—	PN100	—	Class600/PN110	8- M42x3x215
						16- M42x3x545
DN500	PN63	—	PN100	—	Class600/PN110	8- M42x3x220
						20- M42x3x570

注：1.PN 系列配对法兰螺栓须按照 GB/T20592-2009 标准中表 3.0.3-1 规定选择；Class 系列配对法兰螺栓须按照 GB/T20615-2009 标准中表 3.3.1 规定选择螺栓和螺母；

2.若法兰螺栓中同时存在长螺栓和短螺栓两种，短螺栓必须使用第一条标准规定的全螺纹螺柱。

3.如用户无特殊要求，短螺栓、螺母材质为 35CrMo。

Note: 1.PN series companion flange bolts shall be selected according to Table 3.0.3-1 in GB/T20592-2009; Class series companion flange bolts shall be selected in accordance with Table 3.3.1 in GB/T20615-2009;

2.If there are both long bolts and short bolts in the flange bolts, the short bolts must be fully threaded bolts as stipulated in the first standard.

3. If the customer has no special requirements, the material of short bolts and nuts is 35CrMo.

表 7-6 Class600 PN63,100,110 VBJG-300002 法兰螺栓统计：

Table 7-6 Statistics on the flange bolts of Class600 PN63,100,110 VBJG-300002

口径 DN	压力 Nominal pressure	每台螺栓规格及数量 Specification and quantity per unit	压力 Nominal pressure	每台螺栓规格及数量 Specification and quantity per unit	压力 Nominal pressure	每台螺栓规格及数量 Specification and quantity per unit
DN150	PN63	8-M30x120 8-M30x155	PN100	8-M30x130 16-M30x185	Class600/PN110	8-M27x130 16-M27x180
DN200	PN63	8-M33x135 16-M33x175	PN100	8-M33x150 16-M33x195	Class600/PN110	8-M30x145 16-M30x210
DN250	PN63	8-M33x145 16-M33x180	PN100	8-M36x3x170 16-M36x3x225	Class600/PN110	8-M33x170 24-M33x230
DN300	PN63	8-M33x155 24-M33x195	PN100	8-M39x3x175 24-M39x3x245	Class600/PN110	16-M33x170 24-M33x240
DN350	PN63	8-M36x3x160 24-M36x3x205	PN100	8-M45x3x200 24-M45x3x260	Class600/PN110	8-M36x3x190 32-M36x3x260
DN400	PN63	8-M39x3x175 24-M39x3x225	PN100	8-M45x3x200 24-M45x3x280	Class600/PN110	8-M39x3x 190 32-M39x3x 270
DN450	PN63	—	PN100	—	Class600/PN110	8-M42x3x210 32-M42x3x295
DN500	PN63	—	PN100	—	Class600/PN110	12-M42x3x 210 36-M42x3x 305
DN600	PN63	—	PN100	—	Class600/PN110	16-M48x3x245 32-M48x3x345

注：1.PN 系列配对法兰螺栓须按照 GB/T20592-2009 标准中表 3.0.3-1 规定选择；Class 系列配对法兰螺栓须按照 GB/T20615-2009 标准中表 3.3.1 规定选择螺栓和螺母；

2.若法兰螺栓中同时存在长螺栓和短螺栓两种，短螺栓必须使用第一条标准规定的全螺纹螺柱。

3.如用户无特殊要求，短螺栓、螺母材质为 35CrMo。

Note: 1.PN series companion flange bolts shall be selected according to Table 3.0.3-1 in GB/T20592-2009; Class series companion flange bolts shall be selected in accordance with Table 3.3.1 in GB/T20615-2009;

2.If there are both long bolts and short bolts in the flange bolts, the short bolts must be fully threaded bolts as stipulated in the first standard.

3. If the customer has no special requirements, the material of short bolts and nuts is 35CrMo.

手轮机构

表 8-1　执行机构手轮标准配用：

Handwheel

Table 8-1 Standard configuration

执行机构（双作用）Actuator(double-acting)	执行机构（单作用）Actuator(Single-acting)	标准配用手轮 Standard handwheel configuration	执行机构（单作用）Actuator(Single-acting)	标准配用手轮 Standard handwheel configuration	执行机构（单作用）Actuator(Single-acting)	标准配用手轮 Standard handwheel configuration
AT63D、AT75D	AT63S、AT75S	SD-1	AW18D001	丝杆 HG18D1 Lead screw	AW18SR41, AW18SD41	丝杆 HG18S41 Lead screw
AT83D、AT92D	AT63S、AT75S	SD-2	AW22D002	丝杆 HG22D2 Lead screw	AW22SR51, AW22SD51	丝杆 HG22S51 Lead screw
AT105D、AT125D	AT105S、AT125S	SD-3	AW27D003	伞齿 HG27D3 bevel gear	AW27SR52, AW27SD52	丝杆 HG27S52 Lead screw
AT140D、AT160D	AT140S、160S	SD-4	AW35D003	伞齿 HG32D3 bevel gear	AW32SR53, AW32SD53	伞齿 HG32S53 bevel gear
AT190D、AT210D	AT190S、AT210S	SD-5	AW40D004	液压 HG40D4 Hydraulic	AW40SR53, AW40SD53	伞齿 HG40S53 bevel gear
AT240D、AT270D	AT240S	SD-6	AW55D005	液压 HG55D5 Hydraulic	AW55SR55, AW55SD55,	液压 HG55S55 Hydraulic
AT300D	AT270S、AT300S	SD-7	AW70D006	液压 HG70D6 Hydraulic	AW60SR55, AW60SD55	液压 HG60S55 Hydraulic
AT350D	AT350S	SD-8	AW85D007	液压 HG85D7 Hydraulic	AW70SR55, AW70SD55	液压 HG70S55 Hydraulic
AT400D	AT400S	SD-9				