VB100 低温蝶阀
VB100 Low Temperature Butterfly Valve

VB100 低温蝶阀是用于乙烯、丙烯、液态天然气及液氮等低温及超低温介质工况的阀门。其密封性能优越、操作力矩小、允许压差大、可靠性高、使用寿命长。

VB100 low temperature butterfly valve is applicable for low temperature and ultralow temperature media such as ethylene, propylene, liquefied natural gas (LNG) and liquid nitrogen. It features excellent sealing performance, small operating torque, big allowable differential pressure, high reliability and long service life.

VB100 低温蝶阀是一种三偏心密封蝶阀，其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。

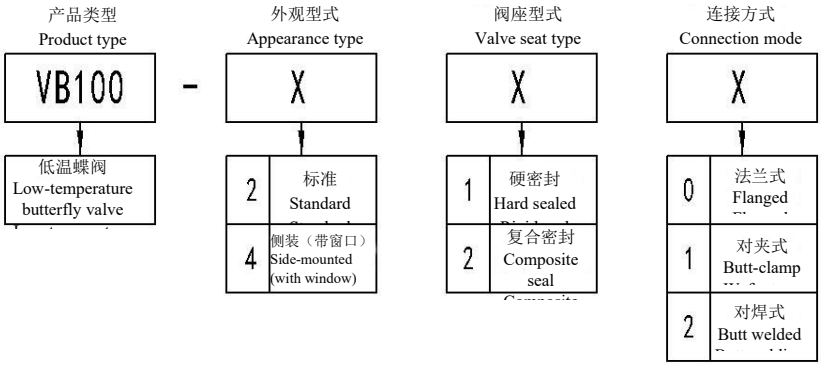
VB100 low temperature butterfly valve is a triple-eccentric sealing butterfly valve and its sealing surface uses a conical surface. There is an angular eccentricity on the horizontal center and two distance eccentricities on axial and radial directions of the stem relative to the runner center to realize friction-free operation between sealing ring of the valve plate and sealing surface of the valve seat before closing. Pressure angle on the sealing surface is greater than friction angle to make opening resistance of the valve plate very low and realize automatic engaging and sealing operation rapidly.

本产品符合 GB/T 24925-2010 标准。

The product complies with GBT 24925-2010 standard.

型号编码规则：

Model code rules:



产品特点：

Product Characteristics:

1、 VB100 低温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。

1. Connection size between VB100 low temperature butterfly valve and actuator is designed according to IS05211 standard, featuring strong universality and easy installation.

2、 VB100 低温蝶阀采用三偏心结构，阀门开闭过程无死区，开启力矩小。

2. VB100 low temperature butterfly valve uses triple-eccentric structure, without dead zone and with small opening torque during valve opening and closing.

3、 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，能充分保证阀门安全性。

3. With an integrated stem and high strength stainless steel, the valve bears high allowable differential pressure; the step type structure design can effectively prevent the stem blowout, fully ensuring safety of the valve.

4、采用伸长型上阀盖，使阀杆填料远离低温介质以保证填料可靠性及其使用寿命。

4. Use extension type upper bonnet, making the stem packing far from low temperature media to ensure reliability and service life of the packing.

5、采用独立式阀座结构，阀座和密封圈均可更换，并具有互换性。

5. It adopts an independent valve seat structure. Both the valve seat and the seal ring are replaceable and interchangeable.

6、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，能达到 TA-Luft 标准要求。

6. The packing system uses a dynamic loading compensation structure with a disc spring to prevent leakage at the packing absolutely to meet TA-Luft standard requirements.

7、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。

7. Design and material selection of the product comply with standards, laws and regulations for environmental protection and requirements of energy conservation and consumption reduction.

三偏心原理：

Principle of triple-eccentricity:

第一偏心：阀杆中心偏离密封面中心；

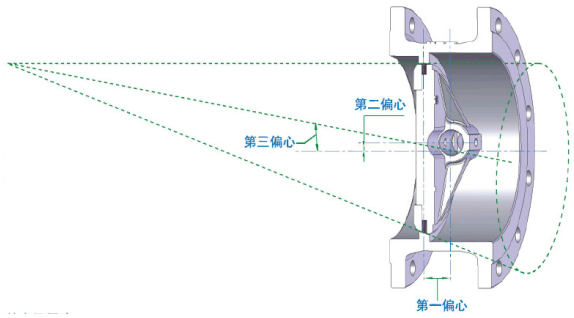
The first eccentricity: center of the stem deviates from that of the sealing surface;

第二偏心：阀杆中心偏离阀体（流道）中心；

The second eccentricity: center of the stem deviates from that of the body (runner);

第三偏心：密封面的中心线与阀体（流道）中心线

The third eccentricity: center line of the sealing surface and that of the body (runner)



结构原理图

Schematic diagram of structure

标准规格

Standard specification

阀体 Body

形　　式 Type	三偏心型 Triple-eccentric type
公称通径 Nominal diameter	DN150~DN1500（6"～60"）[1]
公称压力 Nominal pressure	PN10、16、20、25、40、50、63、100、110 Class 150、300、600
连接型式 Type of connection	法兰式，对焊式 Flanged, welded 密封面型式：RF、MFM、RJ、BW Type of sealing surface: RF, MFM, RJ and BW
法兰标准 Flange standard	JB/T79.1-94(PN16);JB/T79.2-94(PN40\63); ASME B16.5-2013;HG20592-2009、HG20615-2009
材　　料 Material	见表 2 See Table 2
使用温度 Application temperature	－196℃～+200℃
上阀盖型式 Upper valve cover type	铸造一体式/锻造焊接式 Casting integrated/forged welded type
填　　料 Packing	石墨/ ESVP9000/FEP-1303 等 Graphite ESVP9000FEP-1303, etc.
[1].VB100-412 规格范围:DN150~DN1050,Class150;VB100-210、VB100-212、VB100-220、VB100-222 规格范围：PN10~110/Class 150~600,DN80~DN1500。 [1]. VB100-412 specification range: DN150~DN1050,Class150;VB100-210, VB100-212, VB100-220, VB100-222 specification range: PN10~110/Class 150~600,DN80~DN1500.	

阀内组件 Trim

流量特性 Flow feature	近似等百分比 Approximate equal percentage
阀板转角 Angle of valve plate	全开 90° Full open 90°
阀座材料 Material of valve seat	见表 2 See Table 2
阀板材料	见表 2

Material of valve plate	See Table 2
阀杆材料 Material of stem	见表 2 See Table 2

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 source connector	NPT1/8″、NPT 1/4″、NPT 3/8″、NPT 1/2″、NPT 3/4″	
行程角度 Stroke angle	60°或 90° 60° or 90°	
回　　差 Hysteresis error	小于全行程的 2% Less than 2% of the total stroke	
基本误差 Intrinsic error	小于全行程的±2% Less than ±2% of the total stroke	
环境温度 Ambient temperature	标准型-20～+80℃ Standard type: -20 to +80℃ 高温型-15°～+120℃ High temperature type: -15° to +120℃ 低温型-40～+80℃ Low temperature type: -40 to +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 filtration reducer, lock-up valve, stroke switch, valve location transmitter, handwheel, etc.	

阀体、阀内件材质、泄漏量及使用温度范围

Material, leakage and operating temperature range of valve body and valve trims

表 1 主要部件材质及技术参数

Table 1 Material and technical parameters of main components

零件 Part	材质/参数 Material/Parameter
阀体 Valve body	CF8、CF8M、CF3、CF3M、CF8/CF3
阀板 Valve plate	CF8、CF8M、CF3、CF3M、CF8/CF3
阀体阀座 Valve body and valve seat	304/316/316L+ST12
密封圈	304/316/316L+ST6[1]

Seal ring	
阀杆 Valve stem	Gr.660
填料 Packing	石墨/ ESVP9000/FEP-1303 等 Graphite/ ESVP9000/FEP-1303 etc.
轴承 Bearing	316L+HF
阀座允许泄漏率[2] Allowable leakage of valve seat [2]	符合 API598/BS6364 标准 Conform to API598/BS6364
使用温度 Operating temperature	-196℃～+200℃
注：1 若密封圈选多层次时，力矩详询技术部；2 若需要双向密封，扭矩请另外详询技术部。 Note: 1. If the seal ring is multi-layered, please consult the Technology Department for the torque; 2. For bidirectional seal, please consult the Technology Department separately for the torque.	

性能 Performance

Cv 值 Cv value

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°C)的清水，每分钟通过阀的美加仑数。

Definition of Cv value: U.S. gallon of 60°F (15.6°C) clear water passing the valve per minute under conditions the valve is fully opened and differential pressure between both ends is 1 lb/in^2 (0.07kgfcm^2).

流量特性曲线 Flow feature curve

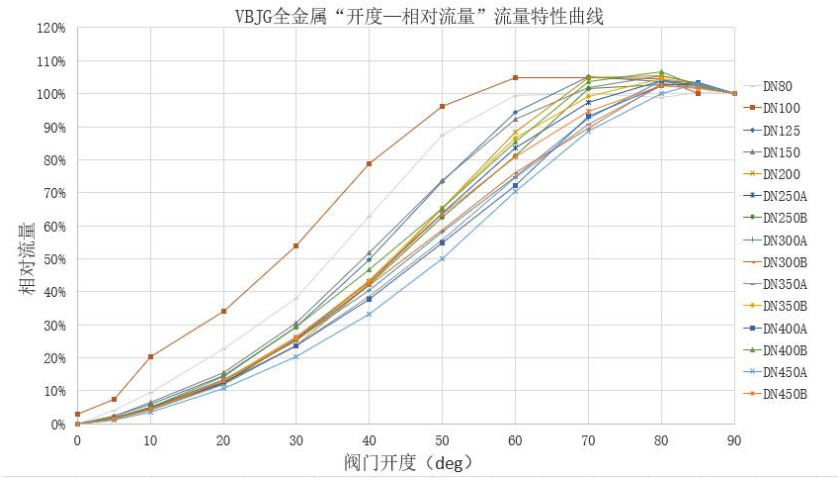


表 2 额定 Cv 值

Table 2 Rated Cv value

DN	NPS	TrimA		TrimB	
mm	in	60° Cv	90° Cv	60° Cv	90° Cv
150	6	330	360	330	360
200	8	760	870	760	870
250	10	1350	1650	1350	1650
300	12	2250	2850	1950	2500
350	14	2650	3600	2250	2750
400	16	3800	5400	3100	3540
450	18	4300	5850	3900	4850
500	20	6100	8500	4650	6100
600	24	8500	13000	7000	9700
700	28	12280	18000	9600	13000
750	30	14500	22700	11053	14500
800	32	16500	25600	12500	17000
900	36	20160	32000	16000	21700
1000	40	26500	43220	19000	27000
1100	44	32000	59500	24000	32000
1200	48	42000	69700	28300	39400
1300	52	49000	95000	32000	45600
1400	52	59000	110000	39400	52300
1500	56	69700	143300	43220	62800

法兰式阀体结构

Structure of flanged body

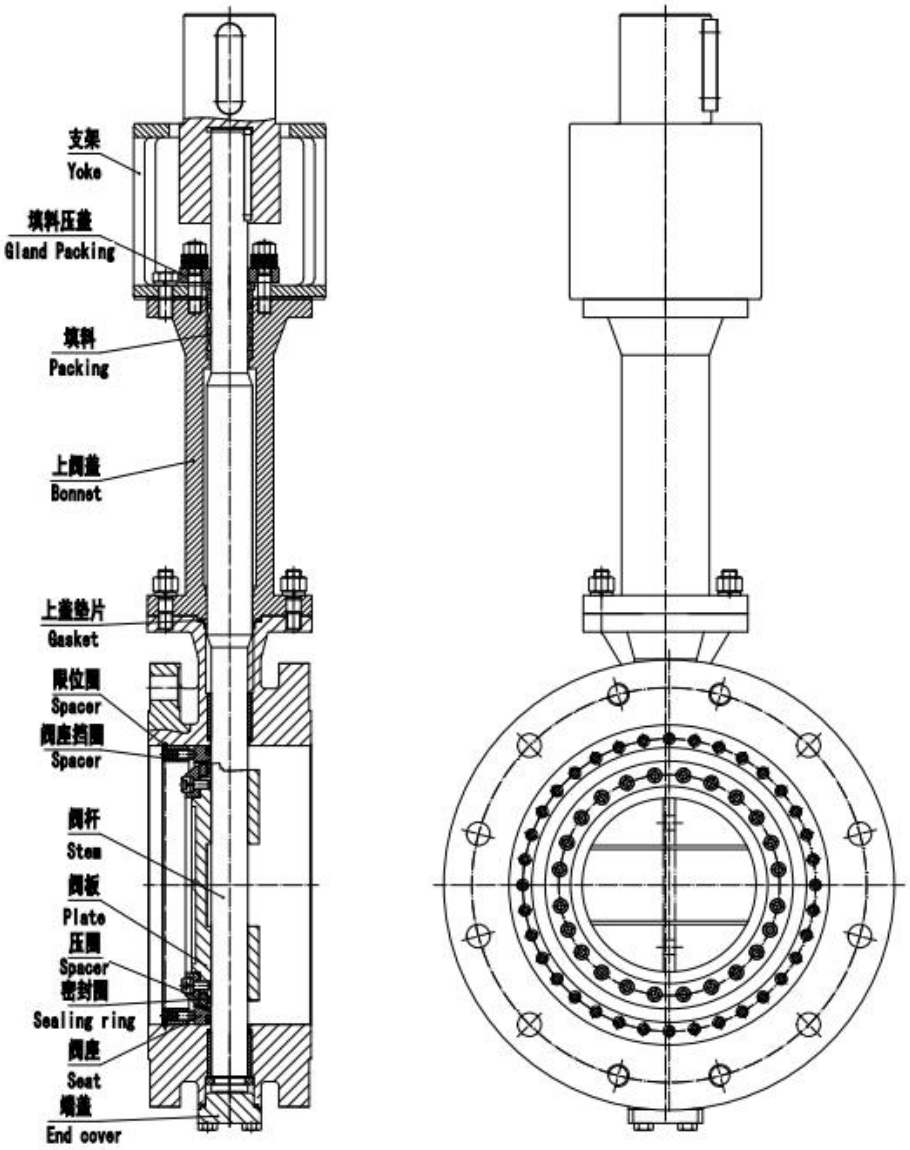


图 2.1 VB100 标准型阀体结构图

Fig. 2.1 Structural diagram of VB100 standard body

侧装式阀体结构

Structure of side-mounted body

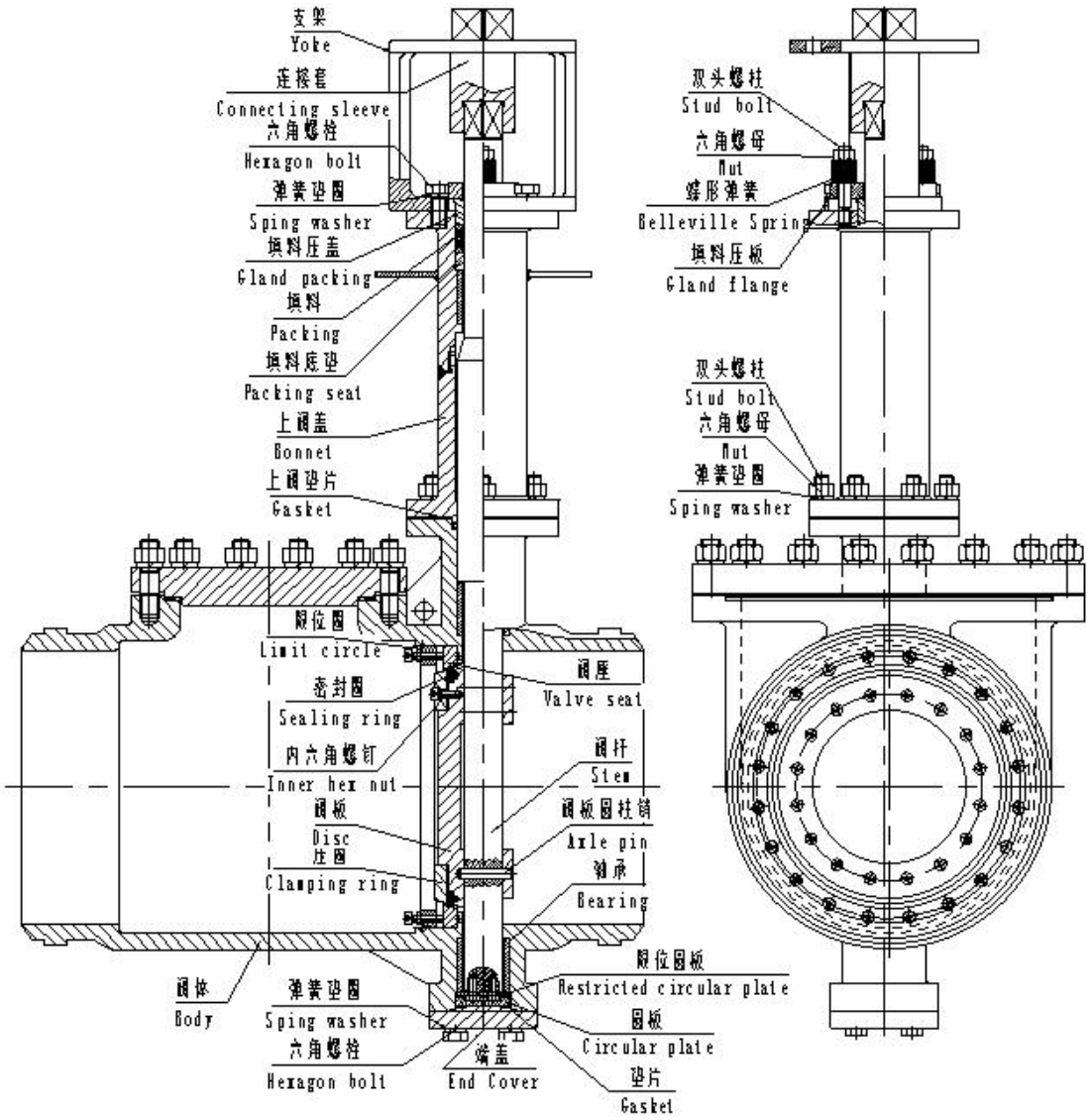


图 2.2 VB100 侧装式在线维修结构阀体结构图

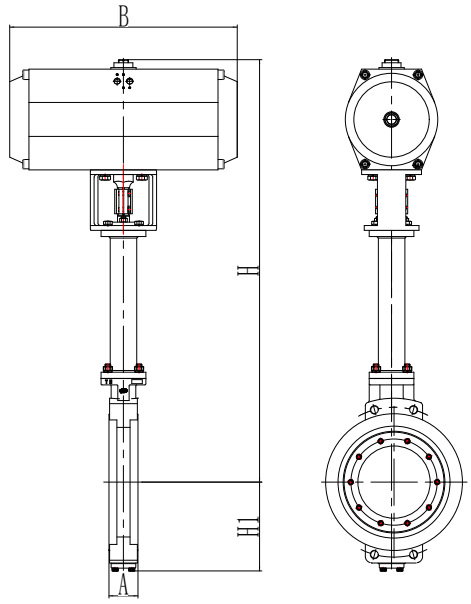
Fig. 2.2 Structural diagram of VB100 side-mounted online maintenance body

外形尺寸

Overall dimensions

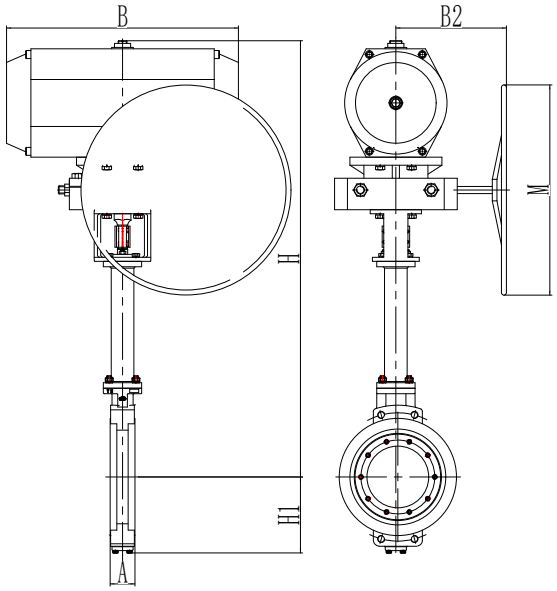
VB100 系列标准型配 AT/AT（+手轮）外形尺寸

Overall dimensions of VB100 series standard with AT/AT (+ handwheel)



VB100 系列标准型配 AT 执行机构

VB100 series standard with AT actuator

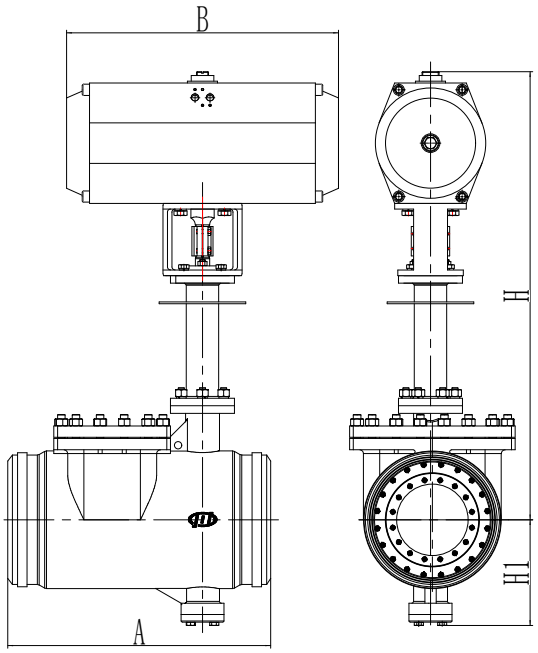


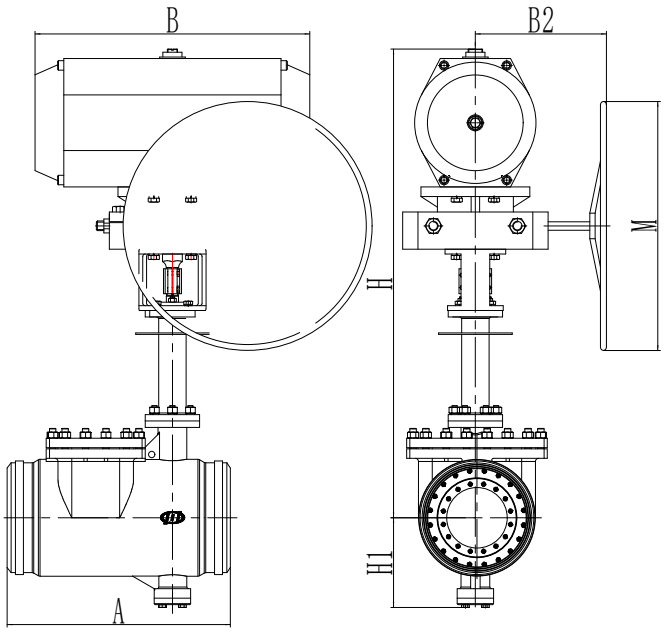
VB100 系列标准型配 AT 执行机构+手轮

VB100 series standard with AT actuator + handwheel

VB100 系列侧装式在线维修结构配 AT/AT（+手轮）外形尺寸

Overall dimensions of VB100 series side-mounted online maintenance structure with AT/AT (+ handwheel)





VB100 侧装式配 AT 执行机构
VB100 side-mounted with AT actuator

VB100 侧装式配 AT 执行机构+手轮
VB100 side-mounted with AT actuator + handwheel

图 3 配 AT 外形尺寸图

Figure 3 Overall dimension drawing with AT

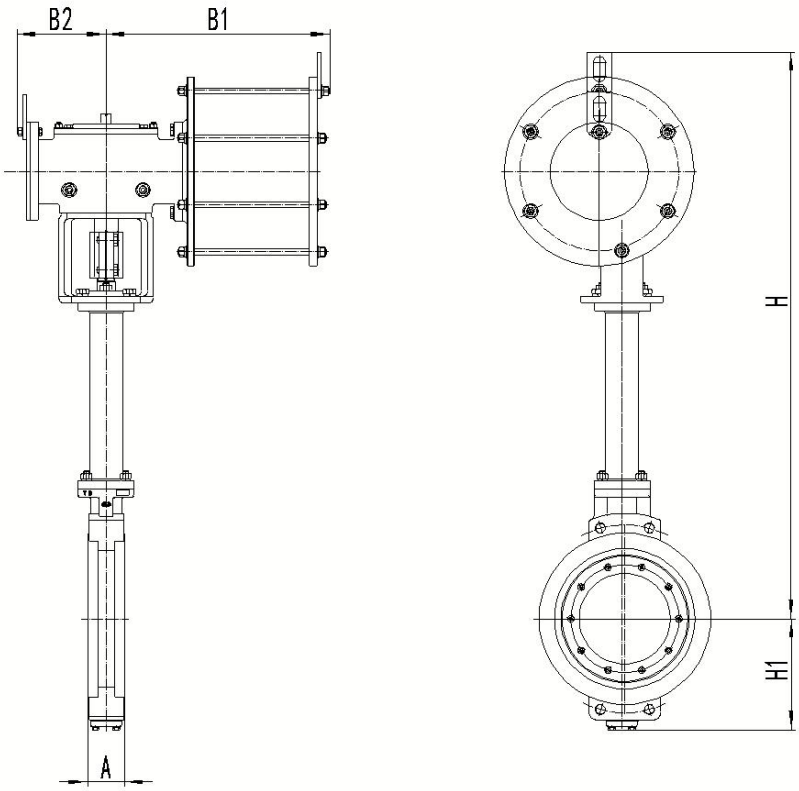


图 4.1 VB100 标准型配 AW18R001~AW85R007 外形尺寸图

Figure 4.1 Overall dimension drawing of VB100 standard with AW18R001~AW85R007

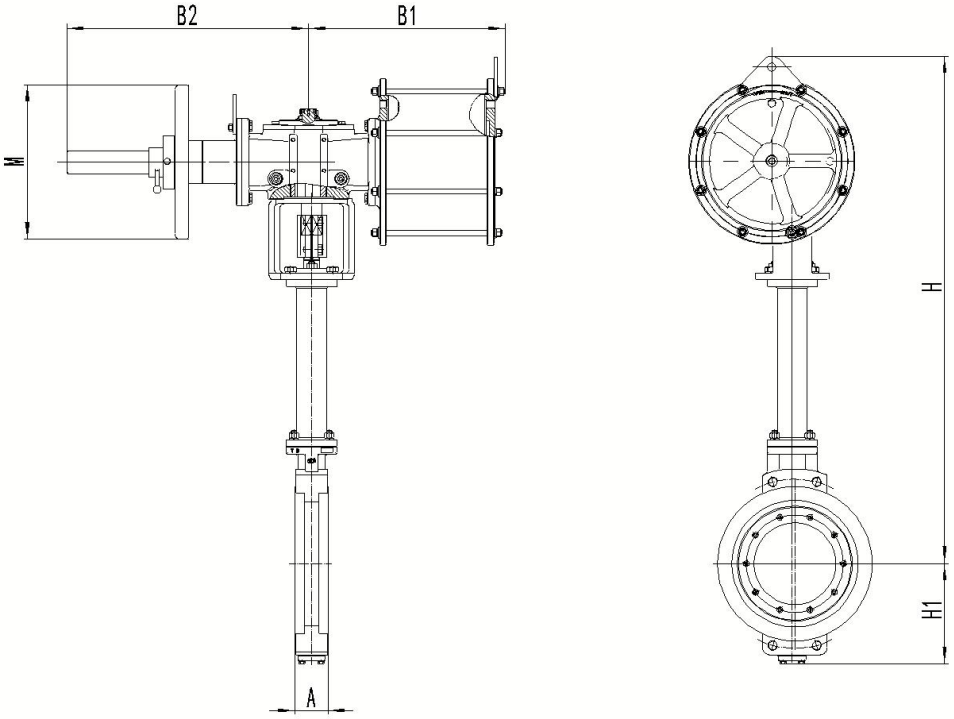


图 4.2 VB100 标准型配 AW18R001~AW27R002 带丝杆手轮外形尺寸图

Figure 4.2 Overall dimension drawing of VB100 standard with AW18R001~AW27R002 and screw rod handwheel

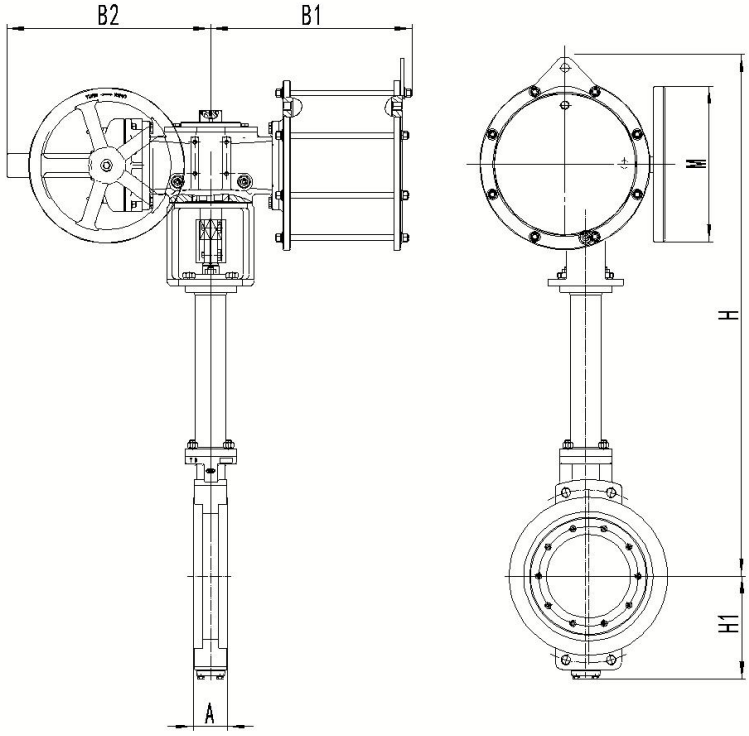


图 4.3 VB100 标准型配 AW27R003~AW35R004 带伞齿手轮外形尺寸图

Figure 4.3 Overall dimension drawing of VB100 standard with AW27R003~AW35R004 and bevel gear handwheel

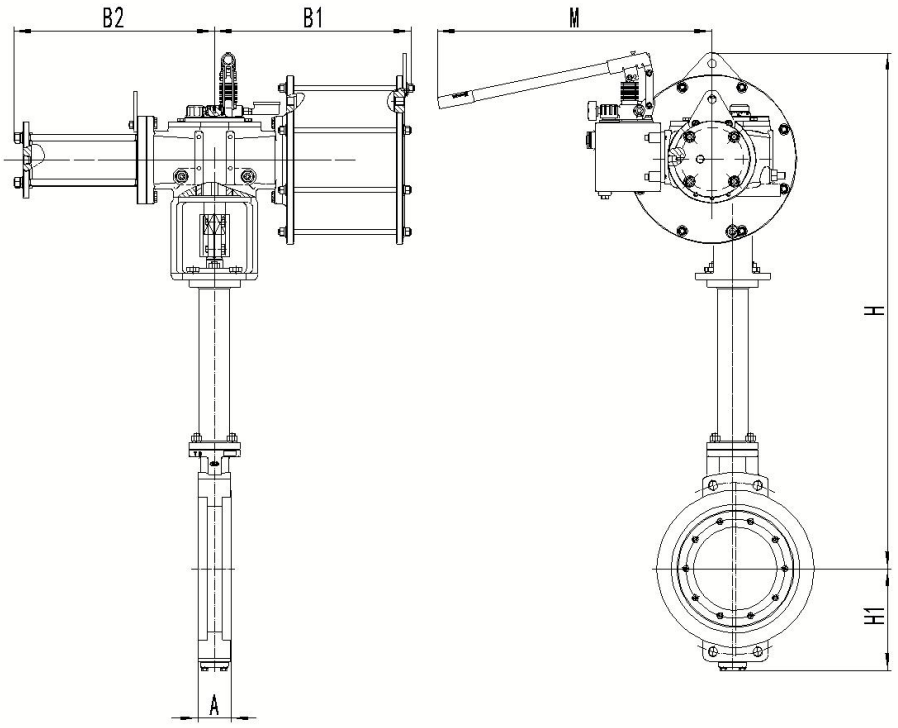


图 4.4VB100 标准型配 AW40R004~AW85R007 带液压手轮外形尺寸图

Figure 4.4 Overall dimension drawing of VB100 standard with AW40R004~AW85R007 and hydraulic handwheel

图 4 VB100 低温蝶阀标准型配 AW18R001~AW85R007 带外形尺寸图

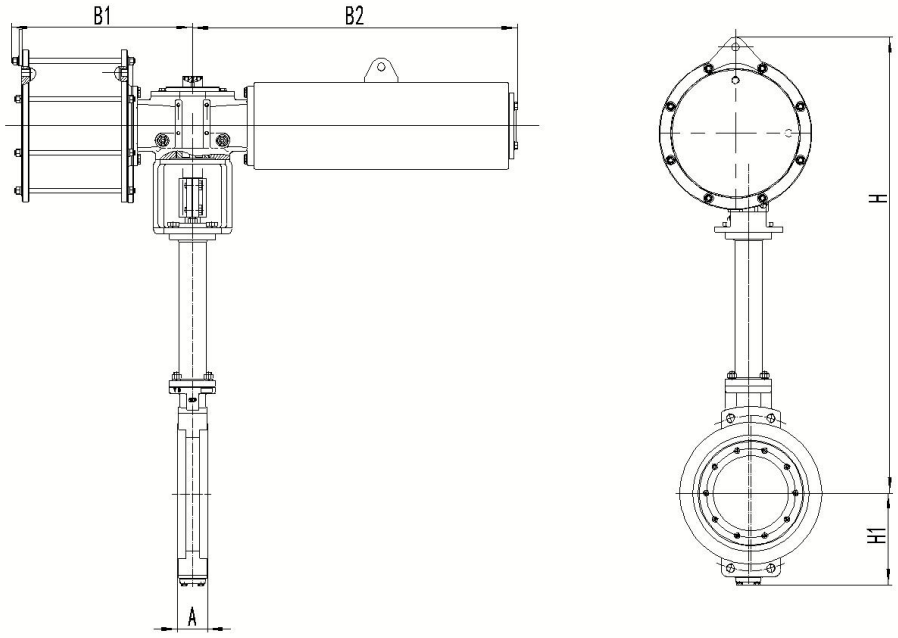


Figure 4 Overall dimension drawing of VB100 low-temperature butterfly valve standard with AW18R001~AW85R007

图 5.1 VB100 标准型配 AW18SR41~AW85SR56 外形尺寸图 (FC)

Figure 5.1 Overall dimension drawing of VB100 standard with AW18SR41~AW85SR56 (FC)

图 5.2 VB100 标准型配 AW18SR41~AW85SR56 外形尺寸图 (FO)

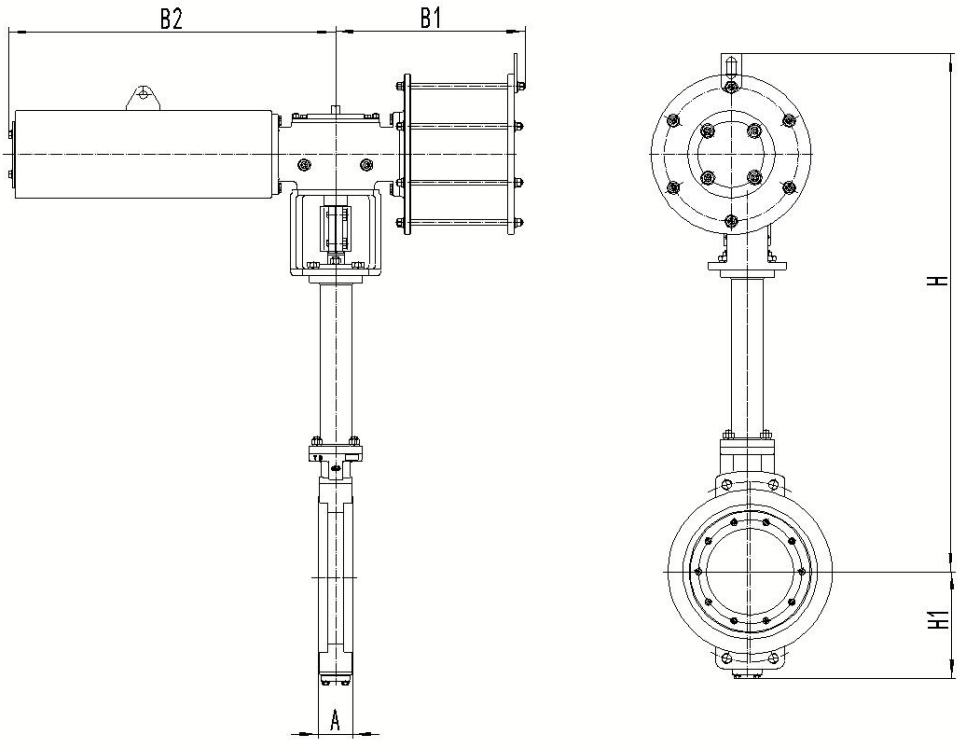


Figure 5.2 Overall dimension drawing of VB100 standard with AW18SR41~AW85SR56 (FO)

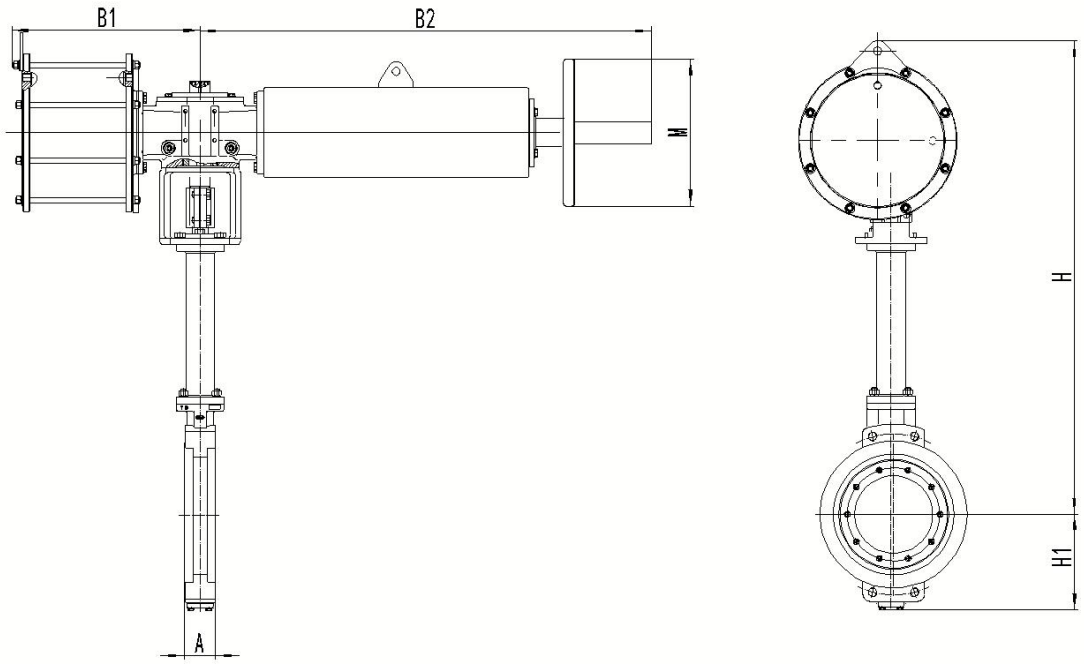


图 5.3 VB100 标准型配 AW18SR41~ AW27SR52 带丝杆手轮外形尺寸图 (FC)

Figure 5.3 Overall dimension drawing of VB100 standard with AW18SR41~ AW27SR52 and screw rod handwheel (FC)

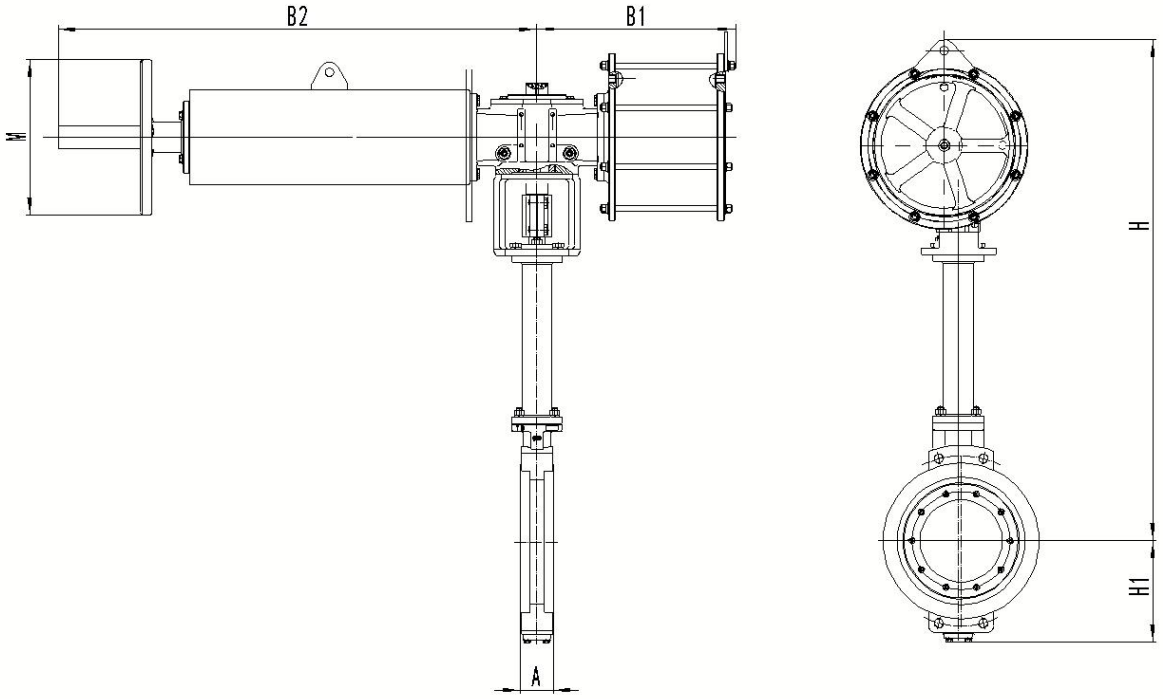


图 5.4 VB100 标准型配 AW18SR41~ AW27SR52 带丝杆手轮外形尺寸图 (FO)

Figure 5.4 Overall dimension drawing of VB100 standard with AW18SR41~ AW27SR52 and screw rod handwheel (FO)

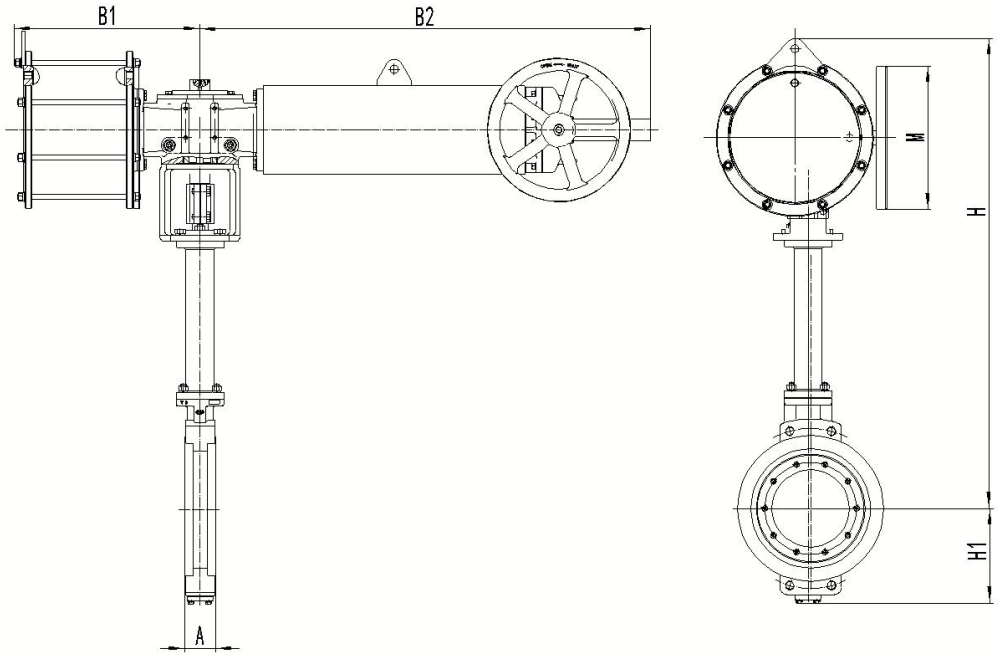


图 5.5 VB100 标准型配 AW30SR42~AW40SR53 带伞齿手轮外形尺寸图 (FC)

Figure 5.5 Overall dimension drawing of VB100 standard with AW30SR42~AW40SR53 and bevel gear handwheel (FC)

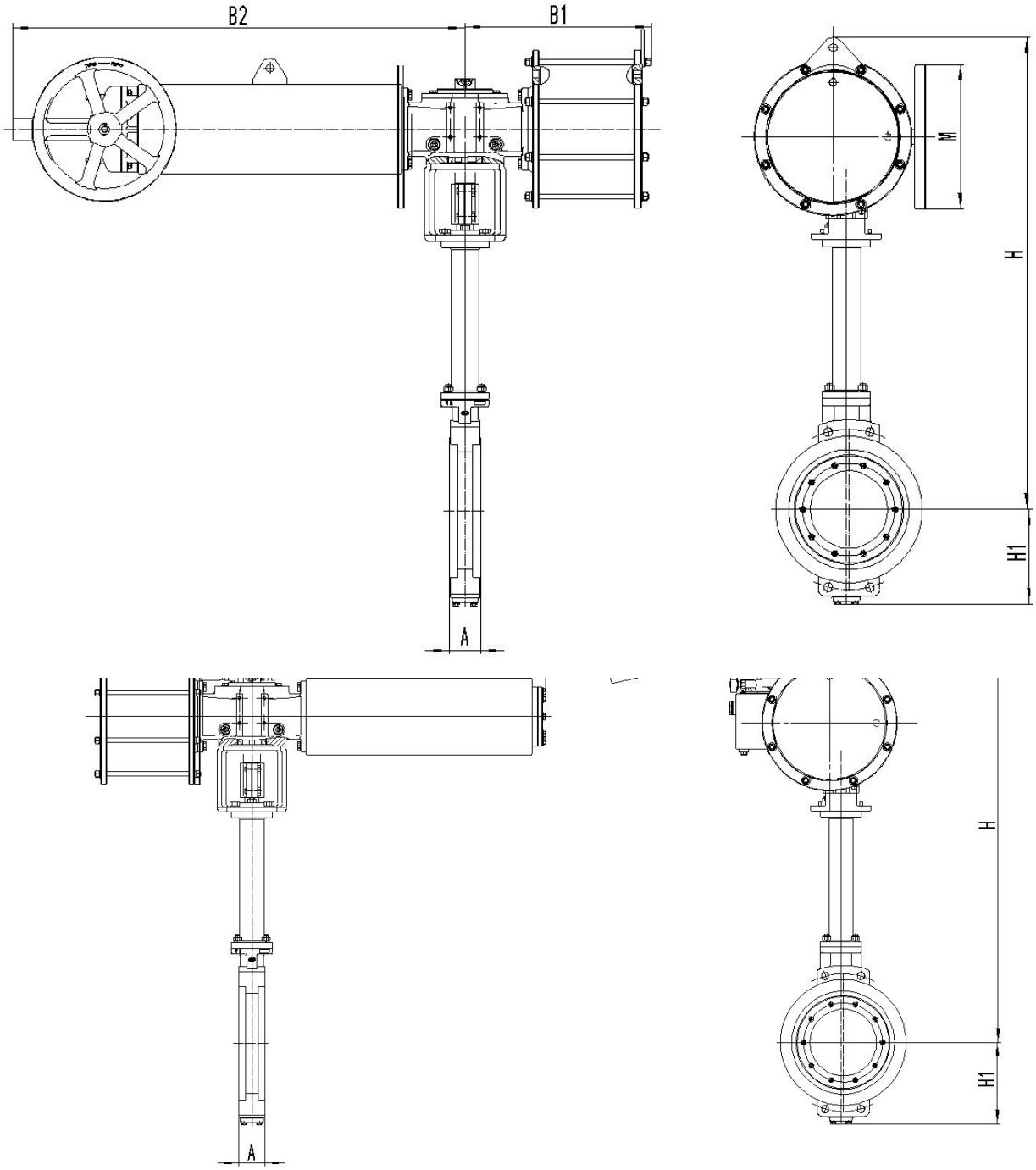


图 5.6 VB100 标准型配 AW30SR42~AW40SR53 带伞齿手轮外形尺寸图 (FO)

Figure 5.6 Overall dimension drawing of VB100 standard with AW30SR42~AW40SR53 and bevel gear handwheel (FO)

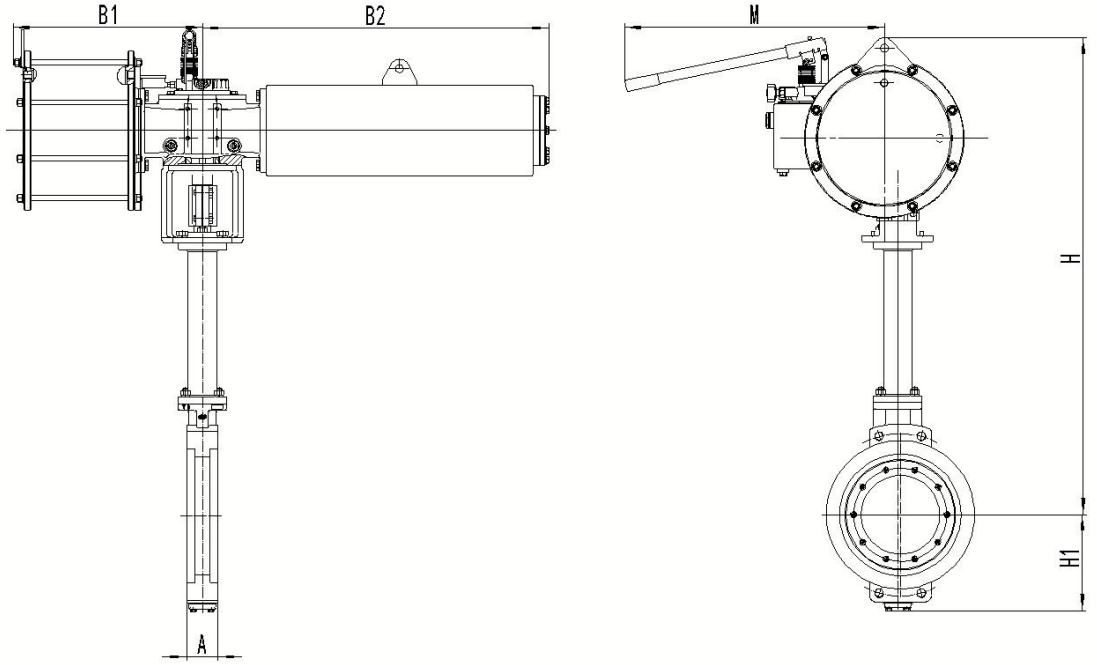


图 5.7 VB100 标准型配 AW45SR43~AW85SR56 带液压手轮外形尺寸图 (FC)

Figure 5.7 Overall dimension

drawing of VB100 standard with AW45SR43~AW85SR56 and hydraulic handwheel (FC)

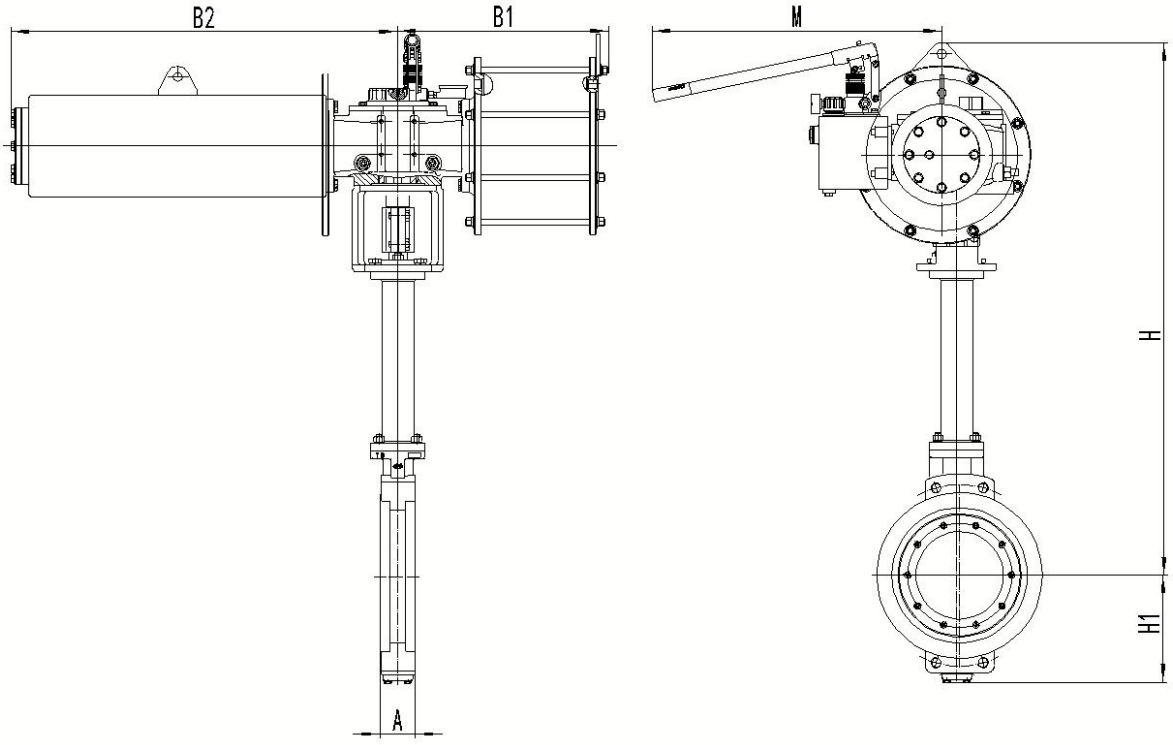


图 5.8 VB100 标准型配 AW45SR43~AW85SR56 带液压手轮外形尺寸图 (FO)

Figure 5.8 Overall dimension drawing of VB100 standard with AW45SR43~AW85SR56 and hydraulic handwheel (FO)

图 5 VB100 低温蝶阀标准型配 AW18SR41~AW85SR56 外形尺寸图

Figure 5 Overall dimension drawing of VB100 low-temperature butterfly valve standard with AW18SR41~AW85SR56

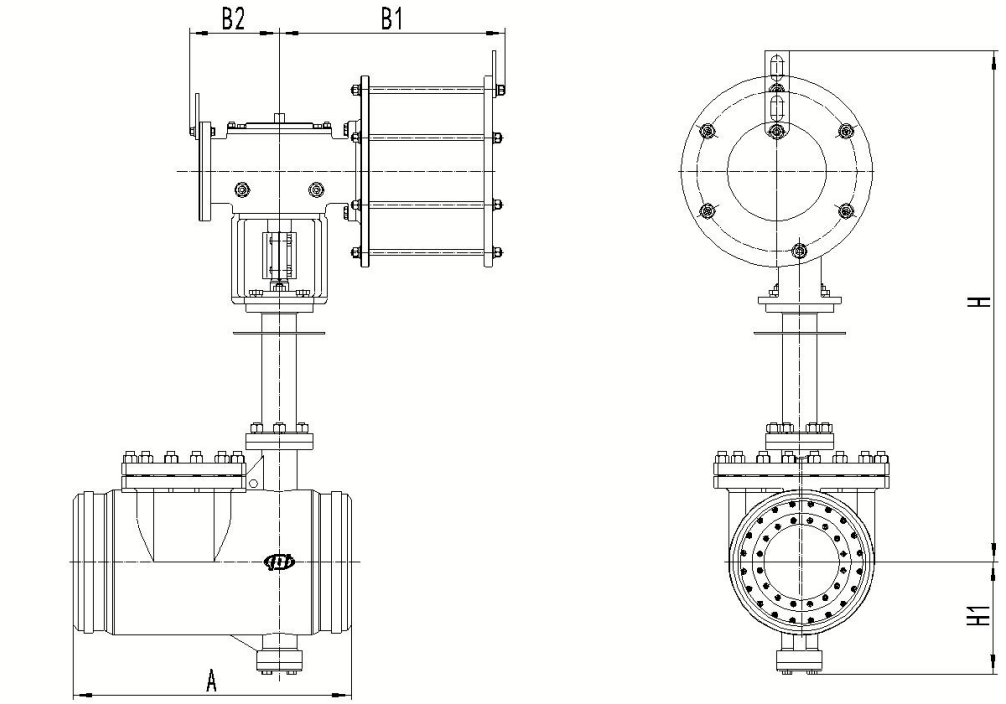


图 6.1 VB100 侧装式配 AW18R001~AW85R007 外形尺寸图

Figure 6.1 Overall dimension drawing of VB100 side-mounted with AW18R001~AW85R007

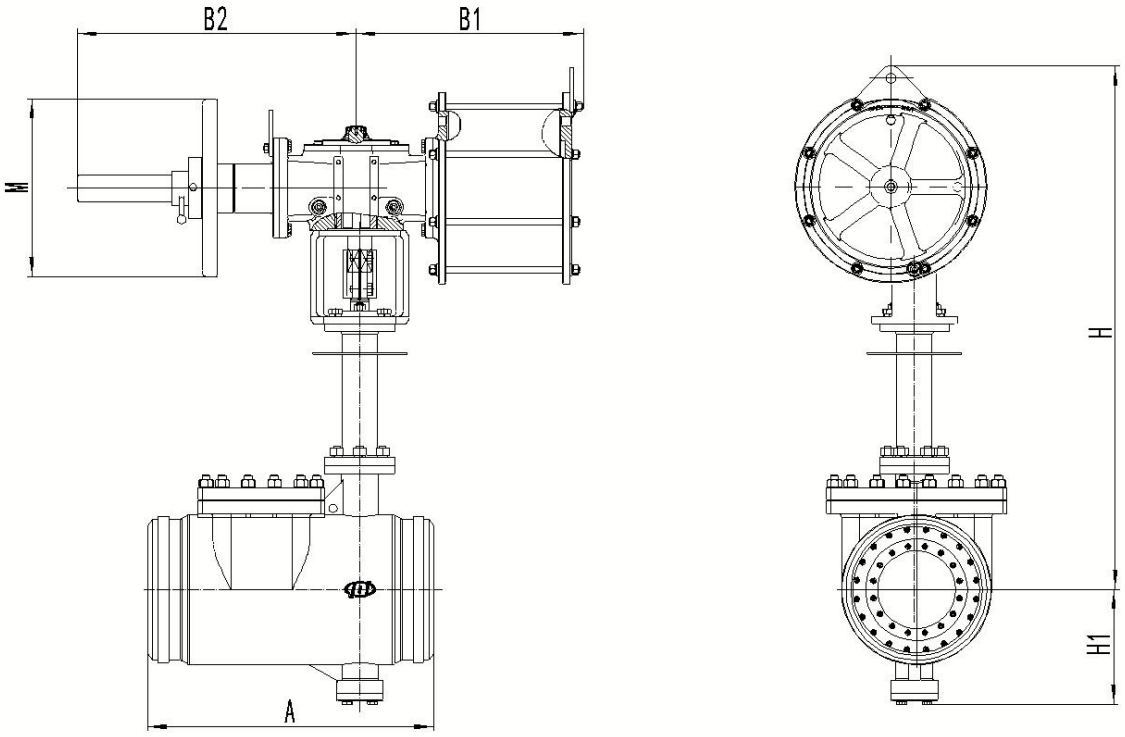


图 6.2 VB100 侧装式配 AW18R001~AW85R007 带丝杆手轮外形尺寸图

Figure 6.2 Overall dimension drawing of VB100 side-mounted with AW18R001~AW85R007 and screw rod handwheel

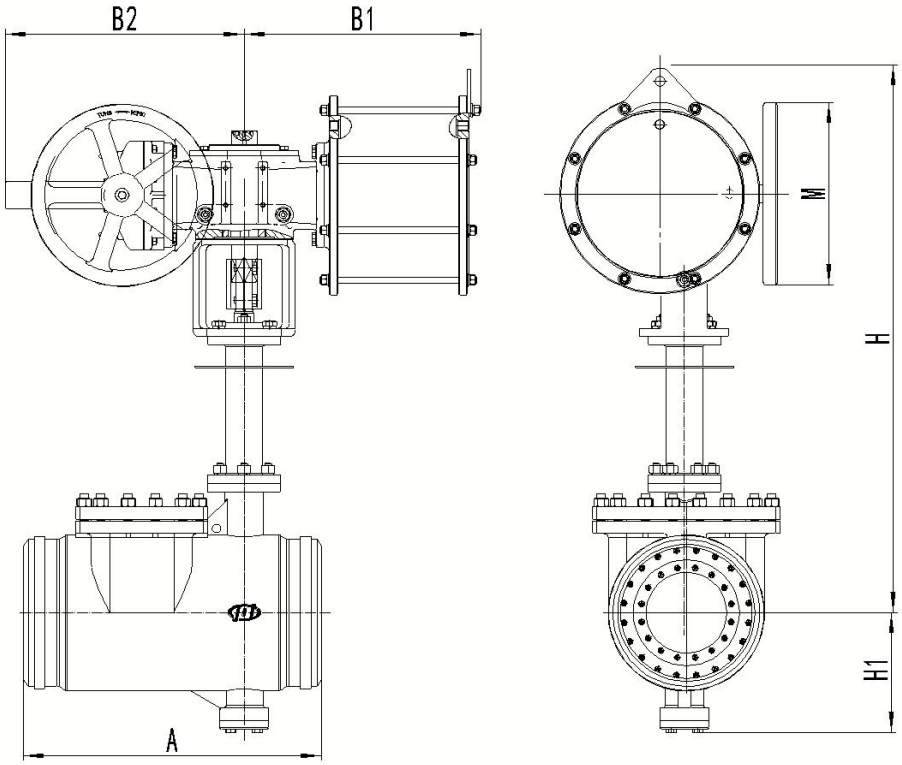


图 6.3 VB100 侧装式配 AW18R001~AW85R007 带伞齿手轮外形尺寸图

Figure 6.3 Overall dimension drawing of VB100 side-mounted with AW18R001~AW85R007 and bevel gear handwheel

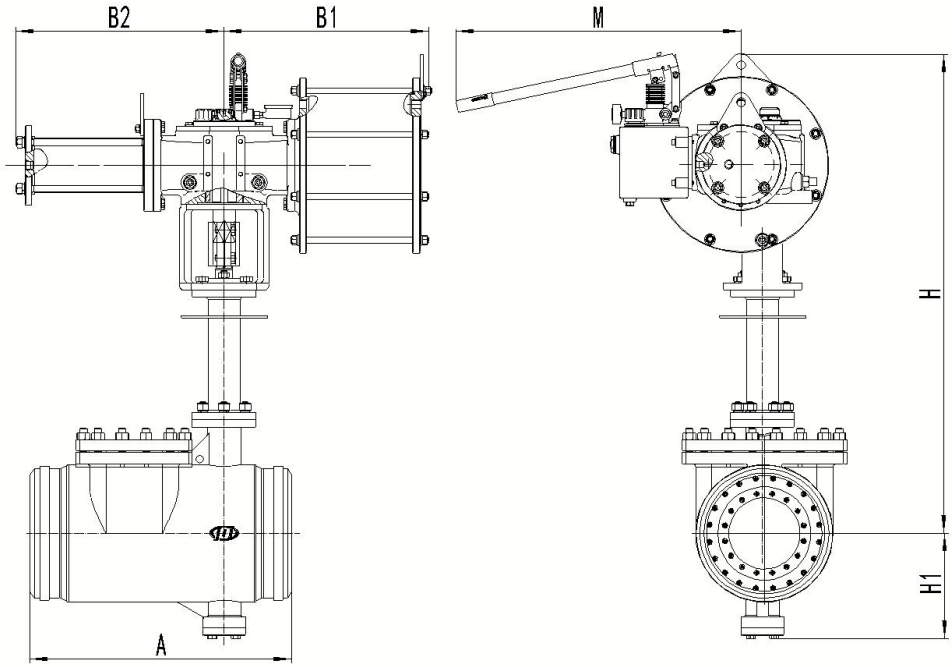


图 6.4 VB100 侧装式配 AW18R001~AW85R007 带液压手轮外形尺寸图

Figure 6.4 Overall dimension drawing of VB100 side-mounted with AW18R001~AW85R007 and hydraulic handwheel

图 6 VB100 低温蝶阀侧装式配 AW18R001~AW85R007 外形尺寸图

Figure 6 Overall dimension drawing of VB100 low-temperature butterfly valve side-mounted with AW18R001~AW85R007

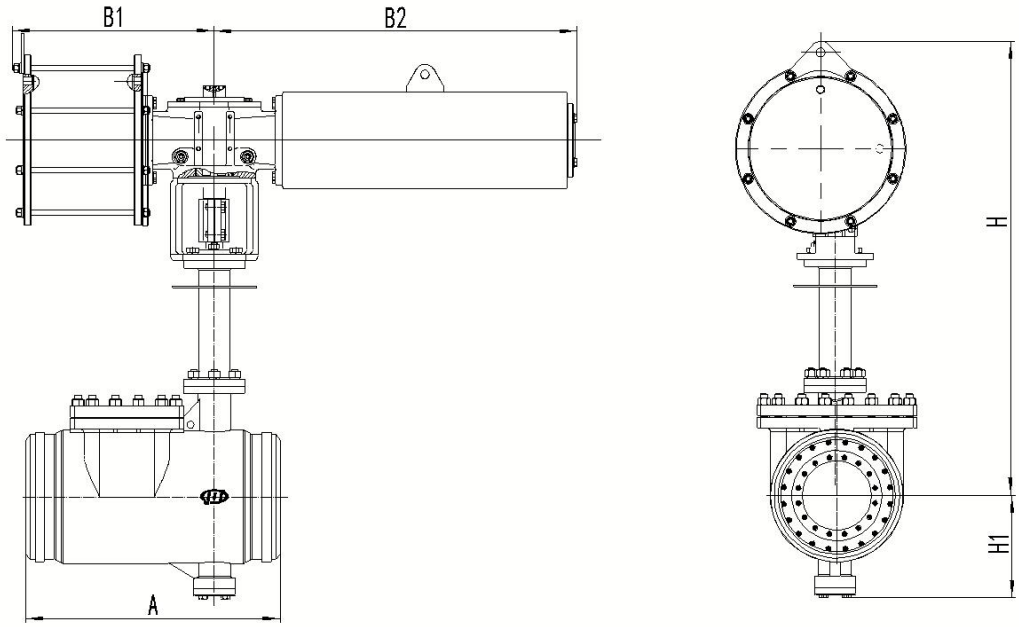


图 7.1 VB100 侧装式配 AW18SR41~AW85SR56 外形尺寸图 (FC)

Figure 7.1 Overall dimension drawing of VB100 side-mounted with AW18SR41~AW85SR56 (FC)

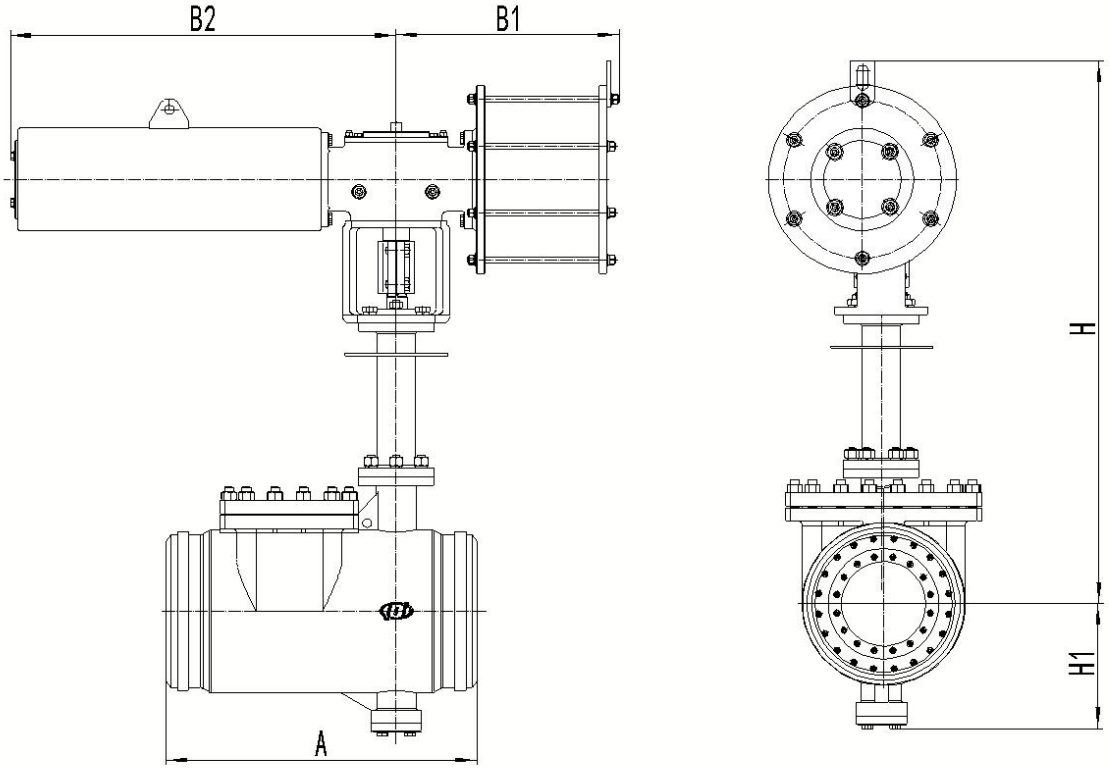


图 7.2 VB100 侧装式配 AW18SR41~AW85SR56 外形尺寸图 (FO)

Figure 7.2 Overall dimension drawing of VB100 side-mounted with AW18SR41~AW85SR56 (FO)

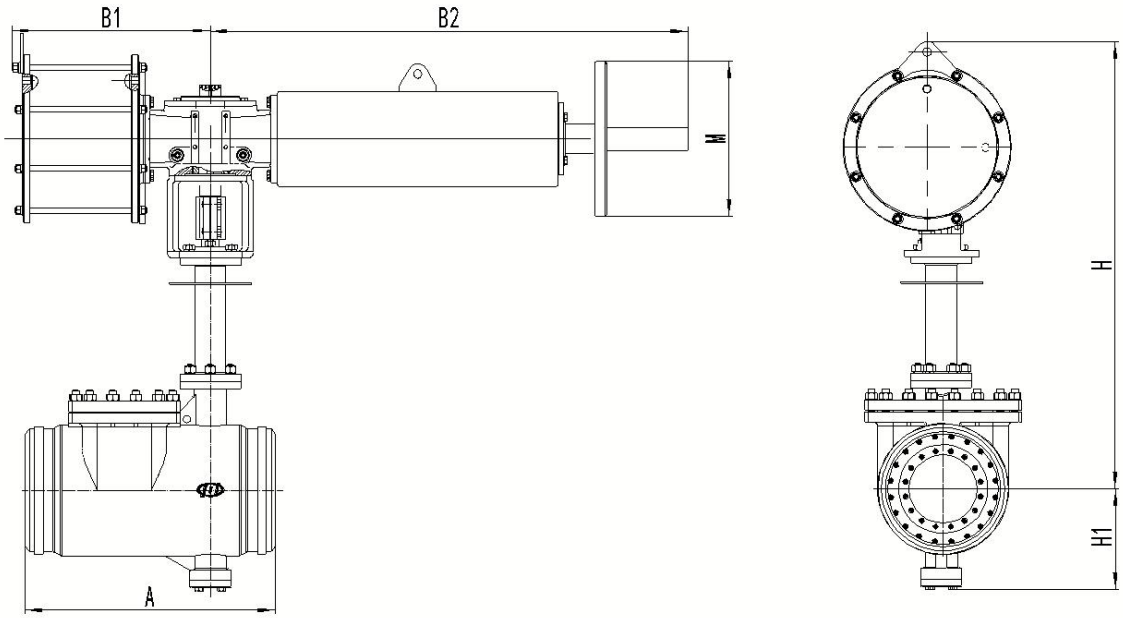


图 7.3 VB100 侧装式配 AW18SR41~AW27SR52 带丝杆手轮外形尺寸图 (FC)

Figure 7.3 Overall dimension drawing of VB100 side-mounted with AW18SR41~AW27SR52 and screw rod handwheel (FC)

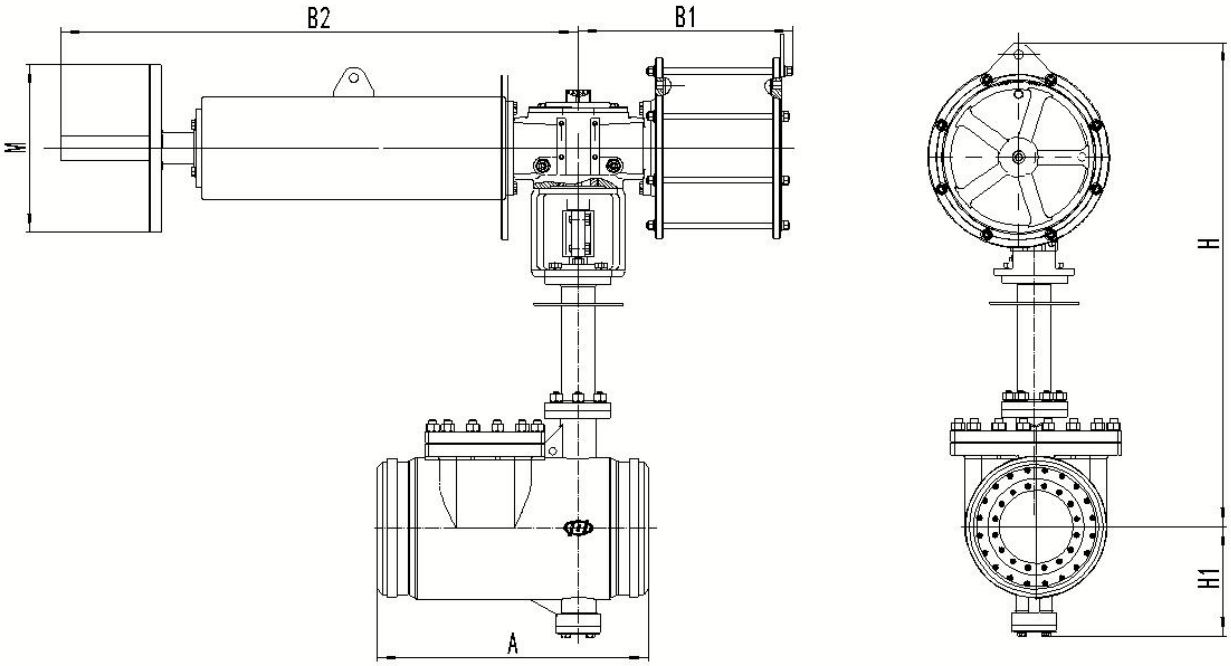


图 7.4VB100 侧装式配 AW18SR41~AW27SR52 带丝杆手轮外形尺寸图 (FO)

Figure 7.4 Overall dimension drawing of VB100 side-mounted with AW18SR41~AW27SR52 and screw rod handwheel (FO)

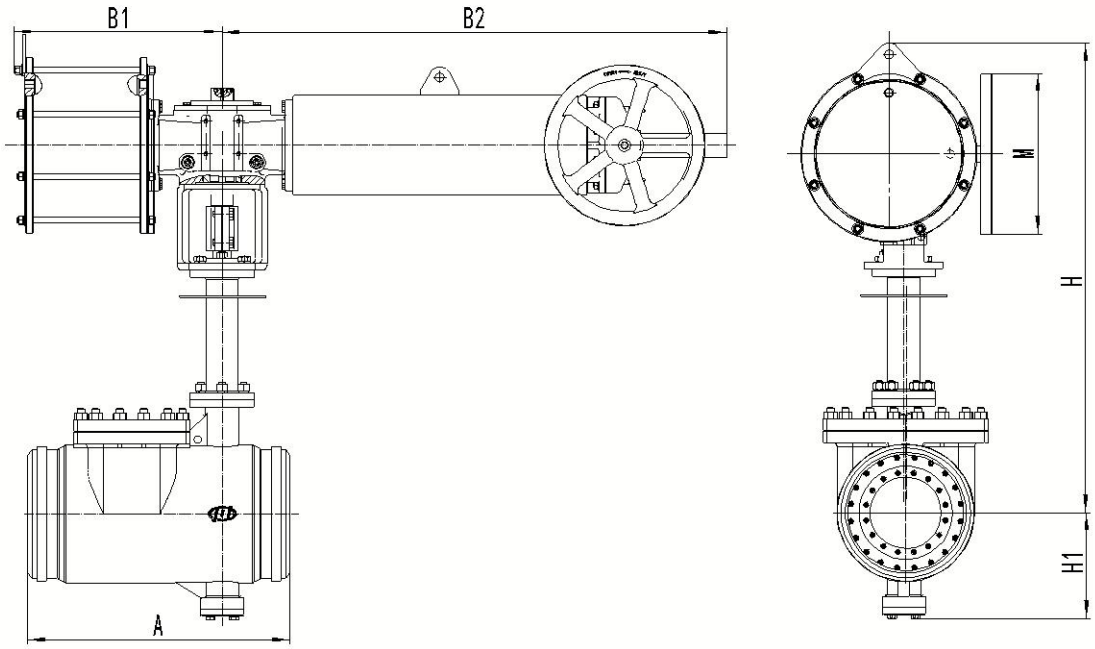


图 7.5 VB100 侧装式配 AW30SR42~AW40SR53 带伞齿手轮外形尺寸图 (FC)

Figure 7.5 Overall dimension drawing of VB100 side-mounted with AW30SR42~AW40SR53 and bevel gear handwheel (FC)

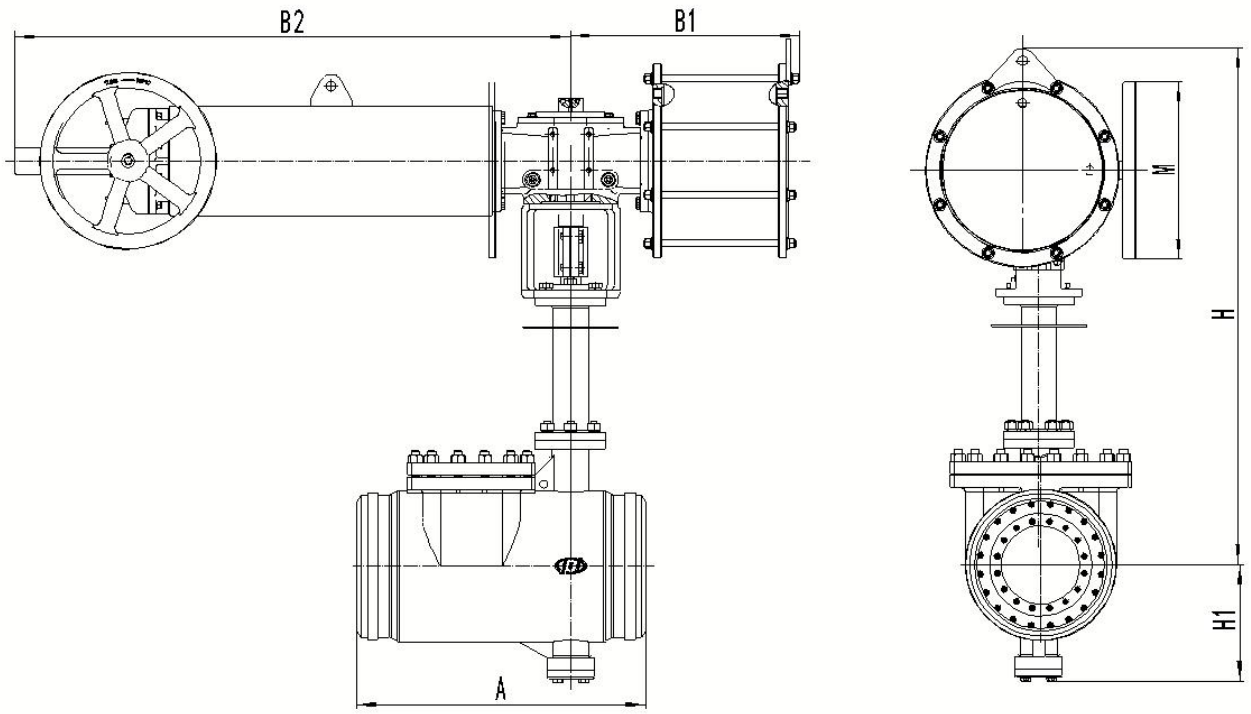


图 7.6 VB100 侧装式配 AW30SR42~AW40SR53 带伞齿手轮外形尺寸图 (FO)

Figure 7.6 Overall dimension drawing of VB100 side-mounted with AW30SR42~AW40SR53 and bevel gear handwheel (FO)

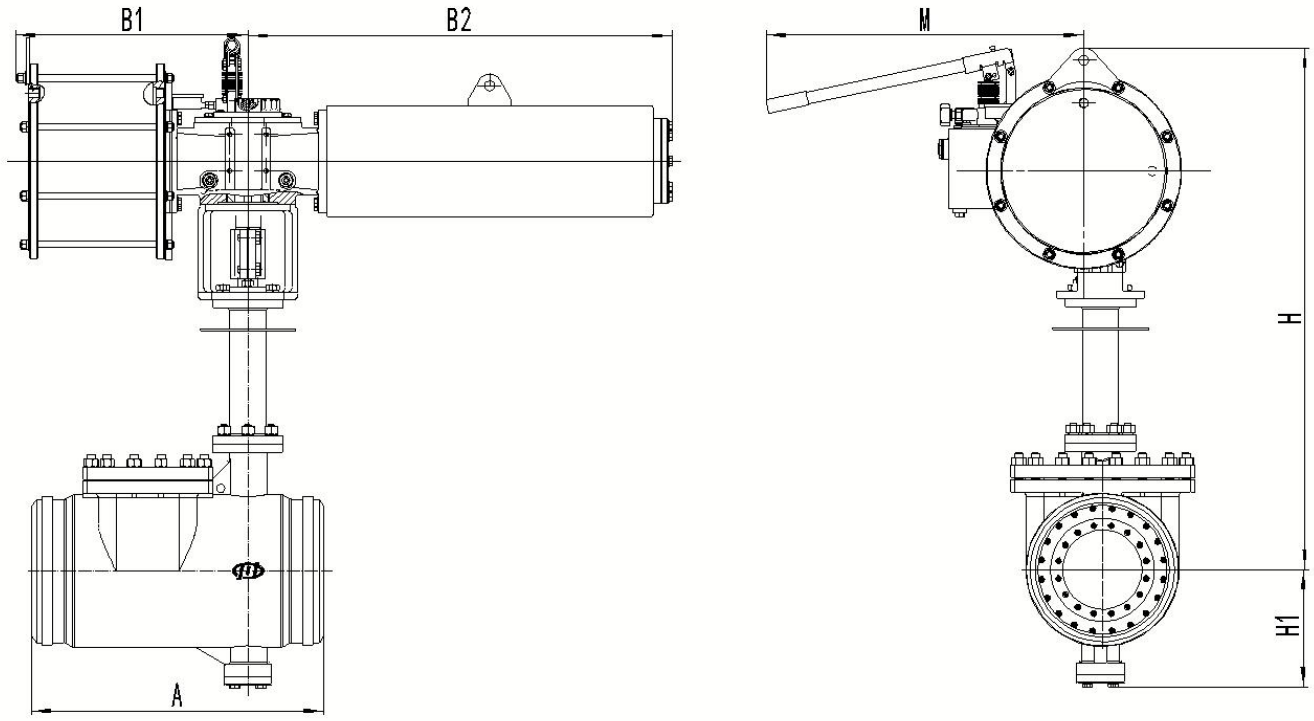


图 7.7 VB100 侧装式配 AW45SR43~AW85SR56 带液压手轮外形尺寸图 (FC)

Figure 7.7 Overall dimension drawing of VB100 side-mounted with AW45SR43~AW85SR56 and hydraulic handwheel (FC)

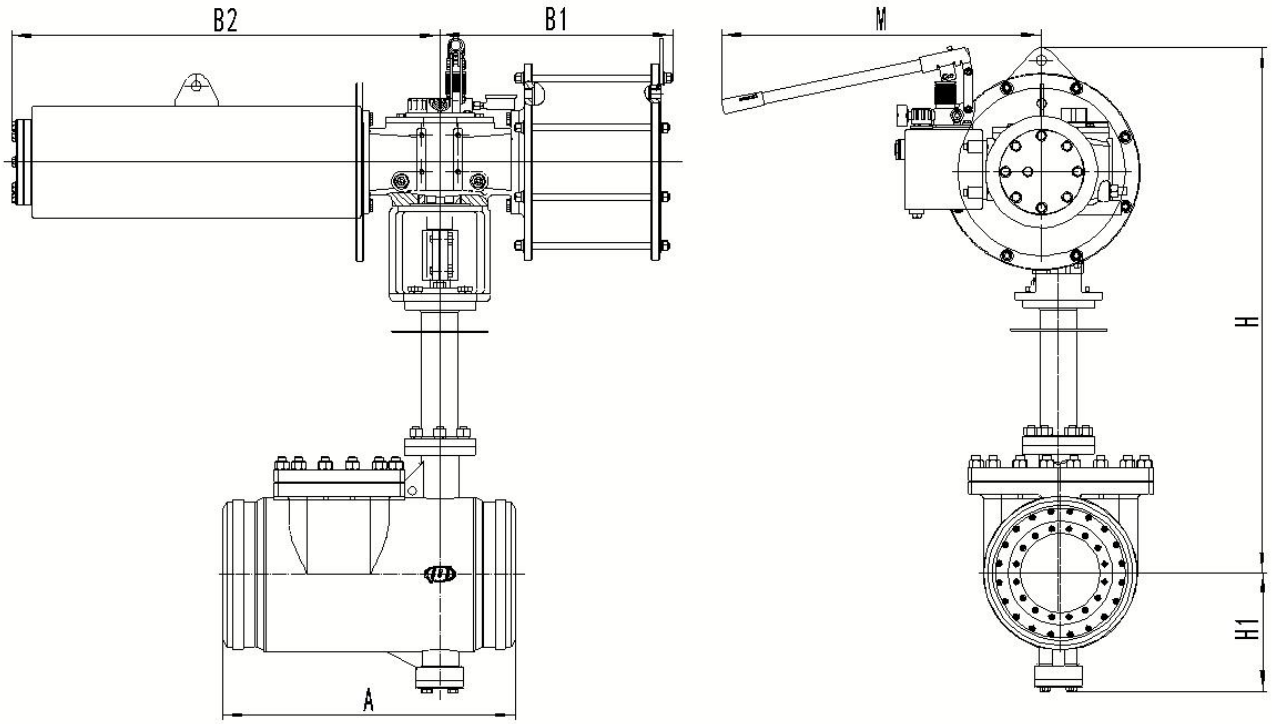


图 7.8 VB100 侧装式配 AW45SR43~AW85SR56 带液压手轮外形尺寸图 (FO)

Figure 7.8 Overall dimension drawing of VB100 side-mounted with AW45SR43~AW85SR56 and hydraulic handwheel (FO)

图 7　VB100 低温蝶阀侧装式配 AW18S ~AW85S 外形尺寸图

Figure 7　Overall dimension drawing of VB100 low-temperature butterfly valve side-mounted with AW18S ~AW85S

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。阀体部件外形图及相关尺寸

Note: For dimensions B, B1, B2, and M of the actuator and handwheel in the dimensional drawing, please refer to the sample data of the matched actuator. Valve body component dimensional drawing and related dimensions.

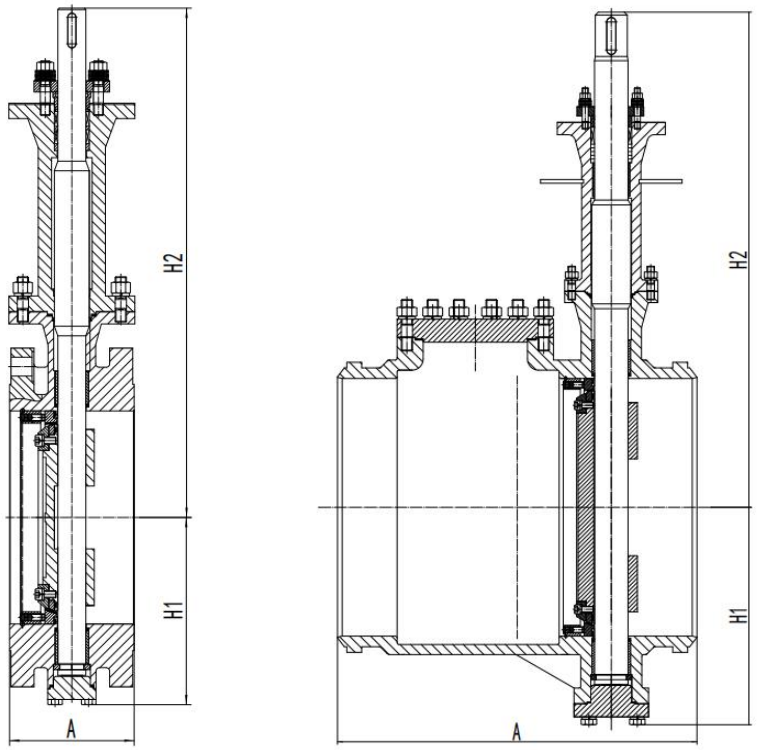


图 8　VB100 低温蝶阀阀体部件外形尺寸图

Figure 8　Overall dimension drawing of VB100 low-temperature butterfly valve body component

外形尺寸及重量

Overall size and weight

表 3　Class 150/ PN10,16,20 外形尺寸

Table 3 Overall size of Class 150 PN10,16,20

公称通径 Nominal diameter (mm)	法兰式 Flanged				侧装对焊式 Side-mounted butt welding type			
	A	H1	H2	重量 Weight kg	A	H1	H2	重量 Weight kg
6"(150)	140	200	609	80	535	170	609	170
8"(200)	152	230	700	116	654	210	700	305
10"(250)	165	265	750	160	700	250	750	365
12"(300)	178	300	880	228	700	290	880	465
14"(350)	190	330	900	294	744	300	900	562
16"(400)	216	370	930	368	801	330	930	674
18"(450)	222	405	950	442	808			803
20"(500)	229	435	1215	541	877	390	1215	922
24"(600)	267	510	1295	880	921	480	1295	1562
28"(700)	292	570			965	585	1300	1923

30"(750)	292	600			1036	605	1410	2082
32"800)	318	660			1060	680	1326	2950
36"(900)	330	750			1170	745	1800	3651
40"(1000)	410	860			1150	805	1900	4165
42"(1050)	410	900			1145	810	1925	4430

执行器配置 Class 150/300，温度（-196℃~+200℃）　　压差单位：MPa

Actuator configuration Class 150/300, temperature (-196℃-+200℃)

Differential pressure unit: MPa

表 4-1 双作用执行机构配置表　　气源压力：400KPa

Table 4-1 Configuration table of double acting actuator　　Air source pressure: 400kPa

执行机构 Actuator	阀门状态 Valve status	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	750	800	900	1000	1050	1200
			3″	4″	5″	6″	8″	10″	12″	14″	16″	18″	20″	24″	28″	30″	32″	36″	40″	42″	48″
AT92DR0/ AT92DD0	切断 Cut-off	Class150~Class600/PN6~PN110	0.4																		
AT105DR0/ AT105DR0	切断 Cut-off	Class150~Class600/PN6~PN110	1	0.2																	
AT125DR0/ AT125DR0	切断 Cut-off	Class150~Class600/PN6~PN110	2	1																	
AT140DR0/ AT140DD0	切断 Cut-off	Class150~Class600/PN6~PN110		2	1																
AT160DR0/ AT160DD0	切断 Cut-off	Class150~Class600/PN6~PN110			1.7	0.8															
AT190DR0/ AT190DD0	切断 Cut-off	Class150~Class600/PN6~PN110			2	2	0.5														
AT210DR0/ AT210DD0	切断 Cut-off	Class150~Class600/PN6~PN110					1														
AT240DR0/ AT240DD0	切断 Cut-off	Class150~Class600/PN6~PN110					2	0.7													
AT270DR0/ AT270DD0	切断 Cut-off	Class150~Class600/PN6~PN110						1.9	0.7												
AT300DR0/ AT300DD0	切断 Cut-off	Class150~Class600/PN6~PN110						2	1.4												
AW12D00F10	切断 Cut-off	Class150~Class600/PN6~PN110				0.3															
AW16D00F12	切断 Cut-off	Class150~Class600/PN6~PN110				2	0.4														
AW18D001	切断 Cut-off	Class150~Class600/PN6~PN110					0.9														
AW22D001	切断 Cut-off	Class150~Class600/PN6~PN110					1.9	0.5													
AW22D002	切断 Cut-off	Class150~Class600/PN6~PN110					2	1.4	0.2												
AW24D002	切断 Cut-off	Class150~Class600/PN6~PN110						2	1	0.3											
AW27D002	切断 Cut-off	Class150~Class600/PN6~PN110							1.2	0.5											
AW27D003	切断 Cut-off	Class150~Class600/PN6~PN110							2	1.3	0.6	0.1									
AW30D003	切断 Cut-off	Class150~Class600/PN6~PN110								1.9	0.9	0.4									
AW32D003	切断 Cut-off	Class150~Class600/PN6~PN110								2	1.3	0.6	0.2								
AW35D003	切断 Cut-off	Class150~Class600/PN6~PN110									1.7	1	0.5								
AW35D004	切断 Cut-off	Class150~Class600/PN6~PN110									2	1.3	0.8	0.1							
AW40D004	切断 Cut-off	Class150~Class600/PN6~PN110										2	1.4	0.5							
AW45D004	切断 Cut-off	Class150~Class600/PN6~PN110											2	0.8	0.2						
AW50D004	切断 Cut-off	Class150~Class600/PN6~PN110												1.1	0.3	0.2					
AW50D005	切断 Cut-off	Class150~Class600/PN6~PN110												1.3	0.5	0.3	0.1				
AW55D005	切断 Cut-off	Class150~Class600/PN6~PN110												1.8	0.8	0.6	0.4	0.1			
AW60D005	切断 Cut-off	Class150~Class600/PN6~PN110												2	1.3	1	0.7	0.3			

AW65D005	切断 Cut-off	Class150~Class600/PN6~PN110													1.8	1.4	1	0.5	0.2	0.2	
AW65D006	切断 Cut-off	Class150~Class600/PN6~PN110													2	2	1.7	1	0.6	0.6	
AW70D006	切断 Cut-off	Class150~Class600/PN6~PN110															2	1.5	0.9	0.9	
AW75D006	切断 Cut-off	Class150~Class600/PN6~PN110																1.9	1.2	1.2	
AW75D007	切断 Cut-off	Class150~Class600/PN6~PN110																2	1.6	1.6	
AW80D007	切断 Cut-off	Class150~Class600/PN6~PN110																	1.9	1.9	
AW85D007	切断 Cut-off	Class150~Class600/PN6~PN110																	2	2	-

注：1.所有执行机构配置为全金属单向密封配置，若有双向密封，或者多层次复合密封需求，执行机构请另外咨询技术部。

Note: 1. All actuators are configured with all-metal single-direction seals. If there is a need for bidirectional seal or multi-layer composite seal, please consult the Technology Department separately for the actuator.

2.阀门最大允许压差不超过其额定公称压力。

2. The maximum allowable pressure difference of the valve shall not exceed its rated nominal pressure.

3.若管道变径三挡以上，执行机构请另外咨询技术部。

3. If the pipe diameter is reduced by more than three levels, please consult the Technology Department separately for the actuator.

执行器配置 Class 150/300，温度（-196℃~+200℃） 压差单位：MPa

Actuator configuration Class 150/300, temperature (-196℃-+200℃)

Differential pressure unit: MPa

表 4-2 单作用执行机构配置表 气开（FC） 气源压力：400KPa

Table 4-2 Configuration table of single acting actuator Air-to-open (FC) Air source pressure: 400kPa

执行机构 Actuator	阀门状态 Valve status	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	750	800	900	1000	1050	1200
			3″	4″	5″	6″	8″	10″	12″	14″	16″	18″	20″	24″	28″	30″	32″	36″	40″	42″	48″
AT125SR4	切断 Cut-off	Class150~Class600/PN6~PN110	0.9																		
AT140SR4	切断 Cut-off	Class150~Class600/PN6~PN110	1.3	0.9																	
AT160SR4	切断 Cut-off	Class150~Class600/PN6~PN110	2	1.4	0.7																
AT190SR4	切断 Cut-off	Class150~Class600/PN6~PN110		2	1	0.1															
AT210SR4	切断 Cut-off	Class150~Class600/PN6~PN110			1.7	0.8															
AT240SR4	切断 Cut-off	Class150~Class600/PN6~PN110			2	1.9	0.4														
AT270SR4	切断 Cut-off	Class150~Class600/PN6~PN110				2	1.1	0.2													
AT300SR4	切断 Cut-off	Class150~Class600/PN6~PN110					1.8	0.6													
AW18SR41	切断 Cut-off	Class150~Class600/PN6~PN110				0.7															
AW22SR41	切断 Cut-off	Class150~Class600/PN6~PN110				1.2															
AW24SR41	切断 Cut-off	Class150~Class600/PN6~PN110				2	0.6														

AW24SR42	切断 Cut-off	Class150~Class600/PN6~PN110					1.4	0.4												
AW27SR42	切断 Cut-off	Class150~Class600/PN6~PN110					2	0.8	0.1											
AW30SR42	切断 Cut-off	Class150~Class600/PN6~PN110						1	0.2											
AW32SR42	切断 Cut-off	Class150~Class600/PN6~PN110						2	0.9	0.3										
AW32SR43	切断 Cut-off	Class150~Class600/PN6~PN110							1.3	0.6	0.2									
AW35SR43	切断 Cut-off	Class150~Class600/PN6~PN110							1.7	0.9	0.3									
AW40SR43	切断 Cut-off	Class150~Class600/PN6~PN110							2	1.2	0.6	0.2								
AW45SR43	切断 Cut-off	Class150~Class600/PN6~PN110								1.6	0.8	0.3								
AW45SR44	切断 Cut-off	Class150~Class600/PN6~PN110								2	1.4	0.8	0.4							
AW50SR44	切断 Cut-off	Class150~Class600/PN6~PN110									1.9	1.2	0.7	0.1						
AW55SR44	切断 Cut-off	Class150~Class600/PN6~PN110									2	1.5	0.9	0.3						
AW55SR45	切断 Cut-off	Class150~Class600/PN6~PN110										1.7	1.2	0.4						
AW60SR45	切断 Cut-off	Class150~Class600/PN6~PN110										2	1.7	0.7	0.2					
AW65SR45	切断 Cut-off	Class150~Class600/PN6~PN110											2	1.1	0.4	0.3	0.1			
AW70SR45	切断 Cut-off	Class150~Class600/PN6~PN110												1.4	0.7	0.5	0.3	0.3		
AW70SR46	切断 Cut-off	Class150~Class600/PN6~PN110												2	1.2	0.9	0.6	0.5	0.1	0.1
AW75SR46	切断 Cut-off	Class150~Class600/PN6~PN110													1.6	1.3	1	0.7	0.2	0.2
AW80SR46	切断 Cut-off	Class150~Class600/PN6~PN110													2	1.7	1.3	1	0.4	0.4
AW85SR46	切断 Cut-off	Class150~Class600/PN6~PN110														2	1.7	1.3	0.6	0.6
AW90SR47	切断 Cut-off	Class150~Class600/PN6~PN110															2	1.8	0.8	0.8
AW100SR47	切断 Cut-off	Class150~Class600/PN6~PN110																2	1.2	1.2
AW90SR48	切断 Cut-off	Class150~Class600/PN6~PN110																	1.5	1.5
AW100SR48	切断 Cut-off	Class150~Class600/PN6~PN110																	2	2

注：1.所有执行机构配置为全金属单向密封配置，若有双向密封，或者多层次复合密封需求，执行机构请另外咨询技术部。

Note: 1. All actuators are configured with all-metal single-direction seals. If there is a need for bidirectional seal or multi-layer composite seal, please consult the Technology Department separately for the actuator.

2.阀门最大允许压差不超过其额定公称压力。

2. The maximum allowable pressure difference of the valve shall not exceed its rated nominal pressure.

3.若管道变径三挡以上，执行机构请另外咨询技术部。

3. If the pipe diameter is reduced by more than three levels, please consult the Technology Department separately for the actuator.

执行器配置 Class 150/300，温度（-196℃~+200℃） 压差单位：MPa

Actuator configuration Class 150/300, temperature (-196℃-+200℃)

Differential pressure unit: MPa

表 4-3 单作用执行机构配置表 气关（F0 ） 气源压力：400KPa

Table 4-3 Configuration table of single acting actuator Air-to-close (FO) Air source pressure: 400kPa

执行机构 Actuator	阀门状态 Valve status	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	750	800	900	1000	1050	1200
			3″	4″	5″	6″	8″	10″	12″	14″	16″	18″	20″	24″	28″	30″	32″	36″	40″	42″	48″
AT105SD4	切断 Cut-off	Class150~Class600/PN6~PN110	0.1																		
AT125SD4	切断 Cut-off	Class150~Class600/PN6~PN110	0.7																		
AT140SD4	切断 Cut-off	Class150~Class600/PN6~PN110	1.4	0.9																	
AT160SD4	切断 Cut-off	Class150~Class600/PN6~PN110	2	1	0.5																
AT190SD4	切断 Cut-off	Class150~Class600/PN6~PN110		2	1.2	0.4															
AT210SD4	切断 Cut-off	Class150~Class600/PN6~PN110			1.9	1															
AT240SD4	切断 Cut-off	Class150~Class600/PN6~PN110			2	2	0.4														
AT270SD4	切断 Cut-off	Class150~Class600/PN6~PN110					1.4	0.2													
AT300SD4	切断 Cut-off	Class150~Class600/PN6~PN110					1.9	0.6													
AW08SD4F10	切断 Cut-off	Class150~Class600/PN6~PN110	0.3																		
AW10SD4F12	切断 Cut-off	Class150~Class600/PN6~PN110	1.1	0.7																	
AW12SD4F10	切断 Cut-off	Class150~Class600/PN6~PN110	1.2	0.8																	
AW16SD4F12	切断 Cut-off	Class150~Class600/PN6~PN110	2	1.7	0.9																
AW18SD41	切断 Cut-off	Class150~Class600/PN6~PN110		2	1.5	0.7															
AW22SD41	切断 Cut-off	Class150~Class600/PN6~PN110			2	1.2															
AW24SD41	切断 Cut-off	Class150~Class600/PN6~PN110				2	0.6														
AW24SD42	切断 Cut-off	Class150~Class600/PN6~PN110					1.4	0.4													
AW27SD42	切断 Cut-off	Class150~Class600/PN6~PN110					2	0.8	0.1												
AW30SD42	切断 Cut-off	Class150~Class600/PN6~PN110						1	0.2												
AW32SD42	切断 Cut-off	Class150~Class600/PN6~PN110						2	0.9	0.3											
AW32SD43	切断 Cut-off	Class150~Class600/PN6~PN110							1.3	0.6	0.2										
AW35SD43	切断 Cut-off	Class150~Class600/PN6~PN110							1.7	0.9	0.3										
AW40SD43	切断 Cut-off	Class150~Class600/PN6~PN110							2	1.2	0.6	0.2									
AW45SD43	切断 Cut-off	Class150~Class600/PN6~PN110								1.6	0.8	0.3									
AW45SD44	切断 Cut-off	Class150~Class600/PN6~PN110								2	1.4	0.8	0.4								
AW50SD44	切断 Cut-off	Class150~Class600/PN6~PN110									1.9	1.2	0.7	0.1							
AW55SD44	切断 Cut-off	Class150~Class600/PN6~PN110									2	1.5	0.9	0.3							
AW55SD45	切断 Cut-off	Class150~Class600/PN6~PN110										1.7	1.2	0.4							
AW60SD45	切断 Cut-off	Class150~Class600/PN6~PN110										2	1.7	0.7	0.2						
AW65SD45	切断 Cut-off	Class150~Class600/PN6~PN110											2	1.1	0.4	0.3	0.1				
AW70SD45	切断 Cut-off	Class150~Class600/PN6~PN110												1.4	0.7	0.5	0.3				
AW70SD46	切断 Cut-off	Class150~Class600/PN6~PN110												2	1.2	0.9	0.6	0.3	0.1	0.1	
AW75SD46	切断 Cut-off	Class150~Class600/PN6~PN110													1.6	1.3	1	0.5	0.2	0.2	
AW80SD46	切断 Cut-off	Class150~Class600/PN6~PN110													2	1.7	1.3	0.7	0.4	0.4	
AW85SD46	切断 Cut-off	Class150~Class600/PN6~PN110														2	1.7	1	0.6	0.6	
AW90SD47	切断 Cut-off	Class150~Class600/PN6~PN110															2	1.4	0.9	0.9	

AW100SD47	切断 Cut-off	Class150~Class600/PN6~PN110																1.7	1.1	1.1	
AW90SD48	切断 Cut-off	Class150~Class600/PN6~PN110																2	1.5	1.5	
AW100SD48	切断 Cut-off	Class150~Class600/PN6~PN110																	2	2	

注：1.所有执行机构配置为全金属单向密封配置，若有双向密封，或者多层次复合密封需求，执行机构请另外咨询技术部。

Note: 1. All actuators are configured with all-metal single-direction seals. If there is a need for bidirectional seal or multi-layer composite seal, please consult the Technology Department separately for the actuator.

2.阀门最大允许压差不超过其额定公称压力。

2. The maximum allowable pressure difference of the valve shall not exceed its rated nominal pressure.

3.若管道变径三挡以上，执行机构请另外咨询技术部。

3. If the pipe diameter is reduced by more than three levels, please consult the Technology Department separately for the actuator.

执行器配置 Class 150/300，温度（-196℃~+200℃）　　压差单位：MPa

Actuator configuration Class 150/300, temperature (-196℃-+200℃)

Differential pressure unit: MPa

表 4-4 双作用执行机构配置表　　气源压力：500KPa

Table 4-4 Configuration table of double acting actuator　　Air source pressure: 500kPa

执行机构 Actuator	阀门状态 Valve status	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	750	800	900	1000	1050	1200
			3″	4″	5″	6″	8″	10″	12″	14″	16″	18″	20″	24″	28″	30″	32″	36″	40″	42″	48″
AT83DR0/ AT23DD0	切断 Cut-off	Class150~Class600/PN6~PN110	0.1																		
AT92DR0/ AT92DD0	切断 Cut-off	Class150~Class600/PN6~PN110	0.9																		
AT105DR0/ AT105DR0	切断 Cut-off	Class150~Class600/PN6~PN110	1.3	0.7																	
AT125DR0/ AT125DR0	切断 Cut-off	Class150~Class600/PN6~PN110	2	1.1	0.3																
AT140DR0/ AT140DD0	切断 Cut-off	Class150~Class600/PN6~PN110		2	1	0.2															
AT160DR0/ AT160DD0	切断 Cut-off	Class150~Class600/PN6~PN110			2	1.4															
AT190DR0/ AT190DD0	切断 Cut-off	Class150~Class600/PN6~PN110				2	1														
AT210DR0/ AT210DD0	切断 Cut-off	Class150~Class600/PN6~PN110					1.7	0.4													
AT240DR0/ AT240DD0	切断 Cut-off	Class150~Class600/PN6~PN110					2	1.3	0.4												
AT270DR0/ AT270DD0	切断 Cut-off	Class150~Class600/PN6~PN110						2	1.3	0.6	0.1										
AT300DR0/ AT300DD0	切断 Cut-off	Class150~Class600/PN6~PN110							2	1.2	0.5										
AW06D00F07	切断 Cut-off	Class150~Class600/PN6~PN110	0.3																		

AW08D00F10	切断 Cut-off	Class150~Class600/PN6~PN110	2	1																
AW10D00F12	切断 Cut-off	Class150~Class600/PN6~PN110		2	1	0.2														
AW12D00F10	切断 Cut-off	Class150~Class600/PN6~PN110			1.8	0.8														
AW16D00F12	切断 Cut-off	Class150~Class600/PN6~PN110			2	2	0.9													
AW18D001	切断 Cut-off	Class150~Class600/PN6~PN110					1.5	0.3												
AW22D001	切断 Cut-off	Class150~Class600/PN6~PN110					2	1.1	0.2											
AW22D002	切断 Cut-off	Class150~Class600/PN6~PN110						2	0.9	0.3										
AW24D002	切断 Cut-off	Class150~Class600/PN6~PN110							1.6	0.8	0.2									
AW27D002	切断 Cut-off	Class150~Class600/PN6~PN110							1.8	1	0.3									
AW27D003	切断 Cut-off	Class150~Class600/PN6~PN110							2	2	1	0.5	0.1							
AW30D003	切断 Cut-off	Class150~Class600/PN6~PN110									1.5	0.8	0.4							
AW32D003	切断 Cut-off	Class150~Class600/PN6~PN110									1.9	1.1	0.6							
AW35D003	切断 Cut-off	Class150~Class600/PN6~PN110									2	1.5	1	0.2						
AW35D004	切断 Cut-off	Class150~Class600/PN6~PN110										1.9	1.3	0.4						
AW40D004	切断 Cut-off	Class150~Class600/PN6~PN110										2	2	0.9	0.2	0.1				
AW45D004	切断 Cut-off	Class150~Class600/PN6~PN110												1.3	0.5	0.3	0.1			
AW50D004	切断 Cut-off	Class150~Class600/PN6~PN110												1.6	0.7	0.5	0.3			
AW50D005	切断 Cut-off	Class150~Class600/PN6~PN110												1.9	0.9	0.6	0.4	0.1		
AW55D005	切断 Cut-off	Class150~Class600/PN6~PN110												2	1.3	1	0.7	0.3		
AW60D005	切断 Cut-off	Class150~Class600/PN6~PN110													1.9	1.6	1.1	0.6	0.3	0.3
AW65D005	切断 Cut-off	Class150~Class600/PN6~PN110													2	2	1.5	0.9	0.5	0.5
AW65D006	切断 Cut-off	Class150~Class600/PN6~PN110															2	1.5	0.9	0.9
AW70D006	切断 Cut-off	Class150~Class600/PN6~PN110																2	1.3	1.3
AW75D006	切断 Cut-off	Class150~Class600/PN6~PN110																	1.7	1.7
AW75D007	切断 Cut-off	Class150~Class600/PN6~PN110																	2	2

注：1.所有执行机构配置为全金属单向密封配置，若有双向密封，或者多层次复合密封需求，执行机构请另外咨询技术部。

Note: 1. All actuators are configured with all-metal single-direction seals. If there is a need for bidirectional seal or multi-layer composite seal, please consult the Technology Department separately for the actuator.

2.阀门最大允许压差不超过其额定公称压力。

2. The maximum allowable pressure difference of the valve shall not exceed its rated nominal pressure.

3.若管道变径三挡以上，执行机构请另外咨询技术部。

3. If the pipe diameter is reduced by more than three levels, please consult the Technology Department separately for the actuator.

执行器配置 Class 150/300，温度（-196℃~+200℃） 压差单位：MPa

Actuator configuration Class 150/300, temperature (-196℃-+200℃)

Differential pressure unit: MPa

表 4-5 单作用执行机构配置表 气开（FC） 气源压力：500KPa

Table 4-5 Configuration table of single acting actuator Air-to-open (FC) Air source

pressure: 500kPa

执行机构 Actuator	阀门状态 Valve status	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	750	800	900	1000	1050	1200
			3″	4″	5″	6″	8″	10″	12″	14″	16″	18″	20″	24″	28″	30″	32″	36″	40″	42″	48″
AT105SR5	切断 Cut-off	Class150~Class600/PN6~PN110	0.4																		
AT125SR5	切断 Cut-off	Class150~Class600/PN6~PN110	1	0.4																	
AT140SR5	切断 Cut-off	Class150~Class600/PN6~PN110	2	1	0.2																
AT160SR5	切断 Cut-off	Class150~Class600/PN6~PN110		2	1																
AT190SR5	切断 Cut-off	Class150~Class600/PN6~PN110			1.3	0.5															
AT210SR5	切断 Cut-off	Class150~Class600/PN6~PN110			2	1.4	0.1														
AT240SR5	切断 Cut-off	Class150~Class600/PN6~PN110				2	0.9														
AT270SR5	切断 Cut-off	Class150~Class600/PN6~PN110					1.7														
AT300SR5	切断 Cut-off	Class150~Class600/PN6~PN110					2	0.2													
AW08SR5F10	切断 Cut-off	Class150~Class600/PN6~PN110	0.9	0.1																	
AW10SR5F12	切断 Cut-off	Class150~Class600/PN6~PN110	1.9	1	0.2																
AW12SR5F10	切断 Cut-off	Class150~Class600/PN6~PN110	2		0.4																
AW16SR5F12	切断 Cut-off	Class150~Class600/PN6~PN110		2	1	0.3															
AW18SR51	切断 Cut-off	Class150~Class600/PN6~PN110			2	1.2															
AW22SR51	切断 Cut-off	Class150~Class600/PN6~PN110				2	0.6														
AW24SR51	切断 Cut-off	Class150~Class600/PN6~PN110					1.4	0.4													
AW24SR52	切断 Cut-off	Class150~Class600/PN6~PN110					2	0.8	0.1												
AW27SR52	切断 Cut-off	Class150~Class600/PN6~PN110						1	0.2												
AW30SR52	切断 Cut-off	Class150~Class600/PN6~PN110						2	0.9	0.3											
AW32SR52	切断 Cut-off	Class150~Class600/PN6~PN110							1.3	0.6	0.2										
AW32SR53	切断 Cut-off	Class150~Class600/PN6~PN110							1.7	0.9	0.3										
AW35SR53	切断 Cut-off	Class150~Class600/PN6~PN110							2	1.2	0.6	0.2									
AW40SR53	切断 Cut-off	Class150~Class600/PN6~PN110								1.6	0.8	0.3									
AW45SR53	切断 Cut-off	Class150~Class600/PN6~PN110								2	1.4	0.8	0.4								
AW45SR54	切断 Cut-off	Class150~Class600/PN6~PN110									1.9	1.2	0.7	0.1							
AW50SR54	切断	Class150~Class600/PN6~PN110									2	1.5	0.9	0.3							

	Cut-off																			
AW55SR54	切断 Cut-off	Class150~Class600/PN6~PN110									1.7	1.2	0.4							
AW55SR55	切断 Cut-off	Class150~Class600/PN6~PN110									2	1.7	0.7	0.2						
AW60SR55	切断 Cut-off	Class150~Class600/PN6~PN110										2	1.1	0.4	0.3	0.1				
AW65SR55	切断 Cut-off	Class150~Class600/PN6~PN110											1.4	0.7	0.5	0.3				
AW70SR55	切断 Cut-off	Class150~Class600/PN6~PN110											2	1.2	0.9	0.6	0.3	0.1	0.1	
AW70SR56	切断 Cut-off	Class150~Class600/PN6~PN110												1.6	1.3	1	0.5	0.2	0.2	
AW75SR56	切断 Cut-off	Class150~Class600/PN6~PN110												2	1.7	1.3	0.7	0.4	0.4	
AW80SR56	切断 Cut-off	Class150~Class600/PN6~PN110													2	1.7	1	0.6	0.6	
AW85SR56	切断 Cut-off	Class150~Class600/PN6~PN110														2	1.3	0.8	0.8	
AW90SR57	切断 Cut-off	Class150~Class600/PN6~PN110															1.8	1.2	1.2	
AW100SR57	切断 Cut-off	Class150~Class600/PN6~PN110															2	1.6	1.6	
AW90SR58	切断 Cut-off	Class150~Class600/PN6~PN110																2	2	

注：1.所有执行机构配置为全金属单向密封配置，若有双向密封，或者多层次复合密封需求，执行机构请另外咨询技术部。

Note: 1. All actuators are configured with all-metal single-direction seals. If there is a need for bidirectional seal or multi-layer composite seal, please consult the Technology Department separately for the actuator.

2.阀门最大允许压差不超过其额定公称压力。

2. The maximum allowable pressure difference of the valve shall not exceed its rated nominal pressure.

3.若管道变径三挡以上，执行机构请另外咨询技术部。

3. If the pipe diameter is reduced by more than three levels, please consult the Technology Department separately for the actuator.

执行器配置 Class 150/300，温度（-196℃~+200℃） 压差单位：MPa

Actuator configuration Class 150/300, temperature (-196℃-+200℃)

Differential pressure unit: MPa

表 4-6 单作用执行机构配置表 气关（FO） 气源压力：500KPa

Table 4-6 Configuration table of single acting actuator Air-to-close (FO) Air source pressure: 500kPa

执行机构 Actuator	阀门状态 Valve status	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	750	800	900	1000	1050	1200
			3″	4″	5″	6″	8″	10″	12″	14″	16″	18″	20″	24″	28″	30″	32″	36″	40″	42″	48″
AT105SD5	切断 Cut-off	Class150~Class600/PN6~PN110	0.4																		

AT125SD5	切断 Cut-off	Class150~Class600/PN6~PN110	1	0.3																
AT140SD5	切断 Cut-off	Class150~Class600/PN6~PN110	2	1	0.2															
AT160SD5	切断 Cut-off	Class150~Class600/PN6~PN110		1.8	1															
AT190SD5	切断 Cut-off	Class150~Class600/PN6~PN110		2	1.9	0.9														
AT210SD5	切断 Cut-off	Class150~Class600/PN6~PN110			2	1.6	0.2													
AT240SD5	切断 Cut-off	Class150~Class600/PN6~PN110				2	0.9													
AT270SD5	切断 Cut-off	Class150~Class600/PN6~PN110					2	0.7												
AT300SD5	切断 Cut-off	Class150~Class600/PN6~PN110						1.1	0.3											
AW08SD5F10	切断 Cut-off	Class150~Class600/PN6~PN110	0.7																	
AW10SD5F12	切断 Cut-off	Class150~Class600/PN6~PN110	1.7	1	0.1															
AW12SD5F10	切断 Cut-off	Class150~Class600/PN6~PN110	1.9		0.2															
AW16SD5F12	切断 Cut-off	Class150~Class600/PN6~PN110	2	2	1	0.1														
AW18SD51	切断 Cut-off	Class150~Class600/PN6~PN110			2	1.2														
AW22SD51	切断 Cut-off	Class150~Class600/PN6~PN110				2	0.6													
AW24SD51	切断 Cut-off	Class150~Class600/PN6~PN110					1.4	0.4												
AW24SD52	切断 Cut-off	Class150~Class600/PN6~PN110					2	0.8	0.1											
AW27SD52	切断 Cut-off	Class150~Class600/PN6~PN110						1	0.2											
AW30SD52	切断 Cut-off	Class150~Class600/PN6~PN110						2	0.9	0.3										
AW32SD52	切断 Cut-off	Class150~Class600/PN6~PN110							1.3	0.6	0.2									
AW32SD53	切断 Cut-off	Class150~Class600/PN6~PN110							1.7	0.9	0.3									
AW35SD53	切断 Cut-off	Class150~Class600/PN6~PN110							2	1.2	0.6	0.2								
AW40SD53	切断 Cut-off	Class150~Class600/PN6~PN110								1.6	0.8	0.3								
AW45SD53	切断 Cut-off	Class150~Class600/PN6~PN110								2	1.4	0.8	0.4							
AW45SD54	切断 Cut-off	Class150~Class600/PN6~PN110									1.9	1.2	0.7	0.1						
AW50SD54	切断 Cut-off	Class150~Class600/PN6~PN110									2	1.5	0.9	0.3						
AW55SD54	切断 Cut-off	Class150~Class600/PN6~PN110										1.7	1.2	0.4						
AW55SD55	切断 Cut-off	Class150~Class600/PN6~PN110										2	1.7	0.7	0.2					
AW60SD55	切断 Cut-off	Class150~Class600/PN6~PN110											2	1.1	0.4	0.3				

AW65SD55	切断 Cut-off	Class150~Class600/PN6~PN110												1.4	0.7	0.5	0.1				
AW70SD55	切断 Cut-off	Class150~Class600/PN6~PN110												2	1.2	0.9	0.3	0.3	0.1	0.1	
AW70SD56	切断 Cut-off	Class150~Class600/PN6~PN110													1.6	1.3	0.6	0.5	0.2	0.2	
AW75SD56	切断 Cut-off	Class150~Class600/PN6~PN110													2	1.7	1	0.7	0.4	0.4	
AW80SD56	切断 Cut-off	Class150~Class600/PN6~PN110														2	1.3	1	0.6	0.6	
AW85SD56	切断 Cut-off	Class150~Class600/PN6~PN110															1.7	1.3	0.8	0.8	
AW90SD57	切断 Cut-off	Class150~Class600/PN6~PN110															2	1.8	1.2	1.2	
AW100SD57	切断 Cut-off	Class150~Class600/PN6~PN110																2	1.6	1.6	
AW90SD58	切断 Cut-off	Class150~Class600/PN6~PN110																	2	2	

注：1.所有执行机构配置为全金属单向密封配置，若有双向密封，或者多层次复合密封需求，执行机构请另外咨询技术部。

Note: 1. All actuators are configured with all-metal single-direction seals. If there is a need for bidirectional seal or multi-layer composite seal, please consult the Technology Department separately for the actuator.

2.阀门最大允许压差不超过其额定公称压力。

2. The maximum allowable pressure difference of the valve shall not exceed its rated nominal pressure.

3.若管道变径三挡以上，执行机构请另外咨询技术部。

3. If the pipe diameter is reduced by more than three levels, please consult the Technology Department separately for the actuator.

冷箱结构

Structure of cold box

带冷箱结构阀体组件：

Body components with cold box structure:

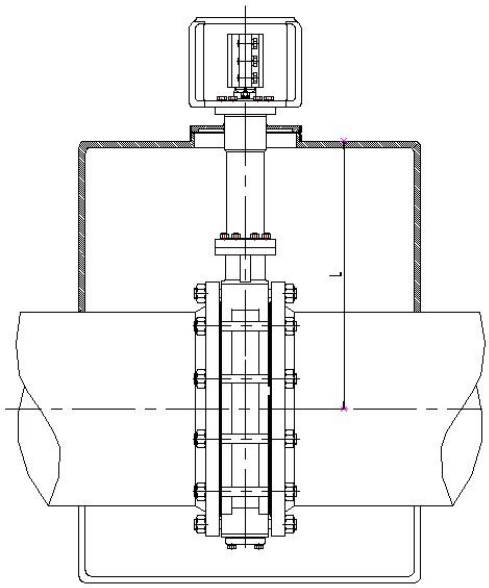


图 5.1 带冷箱结构——阀体组件

Fig. 5.1 With cold box structure-Body components

注：1.当 VB100 为带冷箱结构时，请提供管道中心到冷箱外壁高度尺寸 L。

Note: 1. When VB100 has a cold box structure, please provide height size L from center of the pipe to outer wall of the cold box.

2.带冷箱时，蒙皮高度尺寸可调范围±75mm。

2. In case of a cold box, rangeability of skin height size ±75mm.

手轮机构

Handwheel mechanism

表 5-1 执行机构手轮标准配用：

Table 5-1 Standard configuration of actuator handwheel

执行机构（双作用）Actuator (dual-action)	执行机构（单作用）Actuator (single-action)	标准配用手轮 Standard configuration handwheel	执行机构（单作用）Actuator (single-action)	标准配用手轮 Standard configuration handwheel	执行机构（单作用）Actuator (single-action)	标准配用手轮 Standard configuration handwheel
AT63R、AT75R	AT63S、AT75S	SR-1	AW18R001	丝杆 Screw rod HG18R1	AW18SR41, AW18SR41	丝杆 Screw rod HG18S41
AT83R、AT92R	AT63S、AT75S	SR-2	AW22R002	丝杆 Screw rod HG22R2	AW22SR51, AW22SR51	丝杆 Screw rod HG22S51
AT105R、AT125R	AT105S、AT125S	SR-3	AW27R003	伞齿 Bevel gear HG27R3	AW27SR52, AW27SR52	丝杆 Screw rod HG27S52
AT140R、AT160R	AT140S、160S	SR-4	AW35R003	伞齿 Bevel gear HG32R3	AW32SR53, AW32SR53	伞齿 Bevel gear HG32S53
AT190R、AT210R	AT190S、AT210S	SR-5	AW40R004	液压 Hydraulic HG40R4	AW40SR53, AW40SR53	伞齿 Bevel gear HG40S53
AT240R、AT270R	AT240S	SR-6	AW55R005	液压 Hydraulic HG55R5	AW55SR55, AW55SR55,	液压 Hydraulic HG55S55
AT300R	AT270S、AT300S	SR-7	AW70R006	液压 Hydraulic HG70R6	AW60SR55, AW60SR55	液压 Hydraulic HG60S55
AT350R	AT350S	SR-8	AW85R007	液压 Hydraulic HG85R7	AW70SR55, AW70SR55	液压 Hydraulic HG70S55
AT400R	AT400S	SR-9				