



HPS 高压单座调节阀

High Pressure Single Seated Control Valve

HPS 高压单座调节阀阀芯采用上导结构，阀体结构紧凑，流体通道呈 S 型，压降损失小，流量大，可调节范围广。阀芯部分导向面积大，抗振性能强。

调节阀泄漏量符合 ANSI FCI 70-2-2006 标准。调节阀配用多弹簧薄膜或气缸执行机构，其结构紧凑，输出力大。

HPS 型调节阀广泛应用于高温及高压场合。

产品符合 GB/T4213-2008 标准

HPS High pressure Single seated Control Valve with a top-guided valve plug, a compact valve body and an S-shape flow passage which features low pressure loss, large flow capacity, wide rangeability and high accuracy flow characteristics. The oriented area is in large which are of strong vibration-resistance.

The seat leakage complies with the ANSI FCI 70-2-2006 standards. The compact size and large output force are available when the control valve is combined with multi-spring diaphragm actuator or cylinder actuator.

The HPS Control Valves are widely used in high-temperature and high-pressure applications

This product complies with the GB/T4213-2008 standards.

标准规格 STANDARD SPECIFICATION

阀体 BODY

形式 Type	直通单座铸造球型阀 Straight-through, single seated, cast globe valve
公称通径 Normal size	25、40、50、80mm
公称压力 Pressure rating	ANSI Class 900, 1500, 2500; JIS 63K *
连接型式 End connections	法兰型 Flanged: RF、RJ 焊接型 Welded end: SW (25~80mm) ; BW (80mm)
尺寸 Dimensions	请参见表 5 See Table 5
阀体及上阀盖材质 Body & Bonnet Material	SCPH2/WCB,SCPH21/WC5,SCS13A/CF8,SCS14A/CF8M,SCS16A/CF3M,Ti and other alloy steels. 各种材质的使用温度·压力范围，请参见表 1 和表 2 As to the operating pressure-temperature limitation for each material, see Table 1& 2
上阀盖型式 Bonnet type	常温型 (P) Plain type : -17~+230℃ 伸长 I 型 (EI) Extension Type I: +230~+566℃
压盖型式 Gland type	螺栓压紧式 Bolted gland
填料 Packing	聚四氟乙烯碳纤维、JM397 石墨填料，请参见图 2 Teflon fiber and JM397 Grafoil, .etc. See Fig.2.
垫片 Gasket	平型、锯齿型 (碳钢、不锈钢 (SUS304、SUS316、SUS316L)、其它合金) Flat type, Saw-tooth type (Carbon steel, Stainless steel or other alloy steels)
表面涂层 Surface coating	银灰色 (环氧树脂)。但是阀体材质为不锈钢时，本体部不加涂层。 SLV (Epoxy resin group) is standard. In the case of stainless steel body, no painting is standard.

* 法兰标准 Standard: JIS B2201-1984、ANSI B16.5-2009、HG20615-2009*

阀内组件 TRIM

阀芯型式 Valve plug type	单座柱塞型 Single seated, Contoured type
阀内件材质 Trim materials	标准材质组合及使用温度·压力范围, 请参见表 1
阀内件处理 Trim materials	See Table 1 for hardening treatment and operating pressure-temperature
流量特性 Flow characteristics	等百分比特性 (%C) 和线性特性 (LC), 参见图 4 Equal percentage (%C) and Linear (LC), see Fig.4

执行机构 ACTUATOR

型号 Type	气动薄膜式 Pneumatic Diaphragm type	气缸活塞式 Cylinder piston type		电子式 Electronic type	智能式 Intelligent type
	HA	VA6	VP	EIL	M8 系列
规格 Specification	多弹簧型 Multi-Spring type	单作用 Single acting	双作用 Double acting		
用途 Purpose	调节 Modulation	调节 Modulation		调节 Modulation	
供气压力或 供给电压 Air supply or Power supply	供气压力(弹簧范围) Air supply (Spring range) 140 (20~100) kPa 160 (20~100) kPa 280 (80~240) kPa 400 (80~240) kPa	供气压力 Air supply 400~700kPa		电压: 220 /380V 50HZ Power supply:220 /380V 50Hz 输入信号 Input signal: 4~20mA DC	电压: 220 /380V 50HZ Power supply:220 /380V 50Hz 输入信号 Input signal: 4~20mA DC
接口 Connection	空气配管: Rc1/4 Air piping: Rc1/4	空气配管 Air piping: G3/8 (VA6、VP5、 VP6); G1/2 (VP7)		配线:2-PF3/4 Wiring: 2-PF3/4	配线: PG13.5 Wiring:PG13.5
正作用 Direct action	气压增加阀闭 Air to valve close	气压增加阀闭 Air to valve close		输入信号阀闭 Signal increase to valve shut	输入信号阀闭 Signal increase to valve shut
反作用 Reverse action	气压增加阀开 Air to valve open	气压增加阀开 Air to valve open		输入信号阀开 Signal increase to valve open	输入信号阀开 Signal increase to valve open
回差 Hysteresis error	≤1%FS (带定位器) ≤ 1%FS (With positioner)	≤1%FS (带定位器) ≤ 1%FS (With positioner)		≤1%FS	≤1%FS
基本误差 Limit of intrinsic error	≤±1%FS (带定位器) ≤ ±1%FS (With positioner)	≤±1%FS (带定位器) ≤ ±1%FS (With positioner)		≤±1%FS	≤±1%FS
环境温度	标准型 Standard	标准型 Standard		-20~+70℃	-25~+70℃

Ambient temperature	type-30~+70℃ 高温型 High Temp. service 0~+100℃ 低温型 Low Temp. service -40~+40℃	type-20~+60℃ 高温型 High Temp. service 0~+100℃ 低温型 Low Temp. service -50~+60℃		
油漆颜色 Painting	蓝色 色标 10B5/10 Blue (Munsell color 10B5/10)	蓝色 色标 10B5/10 Blue (Munsell color 10B5/10)		
附件 Accessories	定位器、空气过滤减压阀、保位阀、阀传送器、手轮机构等 Positioner, Air-set, Lock-up valve, Position transmitter, Hand wheel and others	定位器、空气过滤减压阀、保位阀、阀传送器、手轮机构等 Positioner, Air-set, Lock-up valve, Position transmitter, Hand wheel and others	EIL 执行机构手轮 Handwheel	M8 执行机构手轮 Handwheel

性能 PERFORMANCE

CV 值及行程 Rated CV value and Travel	请参见表 3 See Table 3
阀座泄漏量 Seat Leakage	请参见表 1 See Table 1
可调范围 Rangeability	50 : 1
允许压差 Allowable pressure drops	请参见表 4 See Table 4
产品重量 Weight	请参见表 5 See Table 5
配管安装示意图 Actuator orientation	请参见图 5 See Fig.5

表 1 阀体、阀内件材质组合及使用温度范围• 阀座允许泄漏量

Table 1 BODY/TRIM STANDARD MATERIAL COMBINATION, OPERATING TEMPERATURE AND SEAT LEAKAGE

- R.TFE: 强化聚四氟乙烯 Reinforced Teflon
- HT : 热处理 Heat treatment
- ST : 堆焊司太莱合金 Partial stellite
- SS : 部分堆焊司太莱合金 Stellite seat surface
- SF : 全部堆焊司太莱合金 Stellite full surface

表 1-1 阀体材质：碳钢

Table 1-1 BODY MATERIAL: CARBON STEEL

阀体材质 Body material		SCPH2/A216-WCB,SCPH21/A217-WC6,SCPL1/A352-LCB		
阀芯 Plug	材质 material	SUS410	SUS304/316	SUS304/316
	处理 treatment	HT	SS	SF
阀座 Seat ring	材质 material	SUS410	SUS304/316	SUS304/316
	处理 treatment	HT	SS	SF
导向套 Guide	材质 material	SUS630	SUS630	SUS630
	处理 treatment	HT	HT	HT
垫圈 Gasket	材质 material	SUS316L	SUS316L	SUS316L
阀座允许泄漏量 Seat Leakage	ANSI	Class IV	Class IV	Class IV
	Rated Cv×	0.01%	0.01%	0.01%
使用温度 Operating Temp. °C	SCPH2/WCB Body	-17~+425		
	SCPH21/WC6 Body	-17~+566		
	SCPL1/LCB Body	-45~+350		

表 1-2 阀体材质：不锈钢

Table 1-2 BODY MATERIAL: STAINLESS STEEL

阀体材质 Body material		SCS13A/CF8,SCS14A/CF8M,SCS16A/CF3M		
阀芯 Plug	材质 material	SUS304/316/316L	SUS304/316/316L	
	处理 treatment	SS	SF	
阀座 Seat ring	材质 material	SUS304/316/316L	SUS304/316/316L	
	处理 treatment	SS	SF	
导向套 Guide	材质 material	SUS304/316/316L	SUS304/316/316L	
	处理 treatment	ST	ST	
垫圈 Gasket	材质 material	SUS316L	SUS316L	
阀座允许泄漏量 Seat Leakage	ANSI	Class IV	Class IV	
	Rated Cv×	0.01%	0.01%	
使用温度 Operating Temp. °C		-196~+566		

表 2 阀体材质使用温度· 压力范围

Table 2 BODY MATERIAL/OPERATING PRESSURE-TEMPERATURE RATIO UNIT:MPa

温度 Temp. ℃	ANSI900						ANSI1500						ANSI2500					
	LCB	WCB A105	WC6 F11	WC9 F22	SCS13A F304 CF8	SCS14A F316 CF8M	LCB	WCB A105	WC6 F11	WC9 F22	SCS13A F304 CF8	SCS14A F316 CF8M	LCB	WCB A105	WC6 F11	WC9 F22	SCS13A F304 CF8	SCS14A F316 CF8M
-196~38	—	—	—	—	14.88	14.88	—	—	—	—	24.79	24.79	—	—	—	—	41.34	41.34
-45~38	14.35	—	—	—	14.88	14.88	23.92	—	—	—	24.79	24.79	39.87	—	—	—	41.34	41.34
-5~38	14.35	15.31	15.50	15.50	14.88	14.88	23.92	25.51	25.84	25.84	24.79	24.79	39.87	42.52	43.07	43.07	41.34	41.34
50	14.18	15.01	15.33	15.35	14.34	14.43	23.64	25.02	25.55	25.58	23.90	24.04	39.40	41.70	42.59	42.64	39.84	40.07
100	13.52	13.90	14.62	14.70	12.25	12.65	22.53	23.16	24.36	24.50	20.42	21.09	37.56	38.62	40.61	40.85	34.01	35.14
150	13.18	13.56	13.90	13.98	10.89	11.54	21.96	22.60	23.18	23.30	18.16	19.24	36.60	37.66	38.61	38.84	30.26	32.07
200	12.79	13.14	13.63	13.45	9.82	10.69	21.32	21.89	22.73	22.40	16.37	17.83	35.53	36.50	37.88	37.35	27.28	29.71
250	12.17	12.51	13.33	13.26	9.15	10.02	20.28	20.84	22.22	22.10	15.26	16.68	33.80	34.75	37.03	36.83	25.43	27.80
300	11.30	11.61	12.72	12.72	8.71	9.49	18.84	19.36	21.20	21.20	14.52	15.80	31.40	32.26	35.33	35.33	24.20	26.34
350	10.78	11.08	12.06	12.06	8.42	9.12	17.96	18.46	20.11	20.11	14.02	15.20	29.95	30.78	33.51	33.51	23.36	25.36
375		10.94	11.63	11.63	8.32	8.91		18.22	19.38	19.38	13.86	14.84		30.37	32.32	32.32	23.12	24.74
400		10.34	10.98	10.98	8.23	8.72		17.24	18.28	18.28	13.72	14.55		28.73	30.47	30.47	22.87	24.25
425		8.62	10.53	10.53	8.14	8.59		14.37	17.54	17.54	13.57	14.32		23.94	29.23	29.23	22.63	23.87
450		6.01	10.13	10.13	8.06	8.42		10.02	16.89	16.89	13.42	14.03		16.68	28.16	28.16	22.37	22.79
475		4.06	9.50	9.50	7.97	8.20		6.76	15.82	15.82	13.27	13.67		11.28	26.36	26.36	22.13	22.34
500			8.33	8.33	7.81	8.05			13.89	13.89	13.02	13.40			23.15	23.15	21.71	21.47
525			6.08	6.58	7.15	7.73			10.12	10.96	11.94	12.89			16.88	18.26	19.88	20.79
550			3.83	4.91	6.54	7.49			6.38	8.17	10.91	12.48			10.63	13.63	18.17	17.85
575			2.55	3.51	6.02	7.22			4.24	5.85	10.04	12.04			7.08	9.74	16.72	15.20
600			1.75	2.29	5.01	6.43			2.94	3.82	8.35	10.71			7.90	6.36	13.92	17.85
625					3.92	5.48					6.54	9.12					10.89	15.20
650					3.16	4.23					5.25	7.06					8.75	11.76
675					2.33	3.78					3.88	6.31					6.45	10.53

图 1 阀内件材质·处理

Fig.1 TRIM MATERIAL/TREATMENT

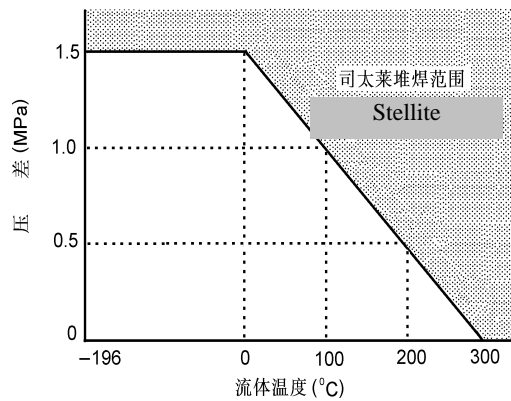


图 1-1 司太莱的工作范围

Fig.1-1 Temperature/normal differential pressure ranges requiring Stellite

- 注: 1. 空化和闪蒸或者水的温度超过 100 °C 热场合, 建议用 9Cr18 硬化不锈钢。
2. 空化、闪蒸、禁油及常处于关闭状态
3. 如 $C_v \leq 0.16$, 阀芯全部堆焊司太莱合金或用 9Cr18 硬化不锈钢。

Note: 1.9Cr18 hardened stainless steel is recommended for valves in cavitation/flashing situation or superheated service of water higher than 100°C.

2. Stellite is recommended for the cavitation/flashing, oil prohibitive and valve-close situation.
3. When C_v value is 0.16 or lower, Stellite faced valve plug or 9Cr18 hardened stainless steel valve plug are standard.

图 2 填料使用温度·压力范围

Fig.2 PACKING PRESSURE · TEMPERATURE RATINGS

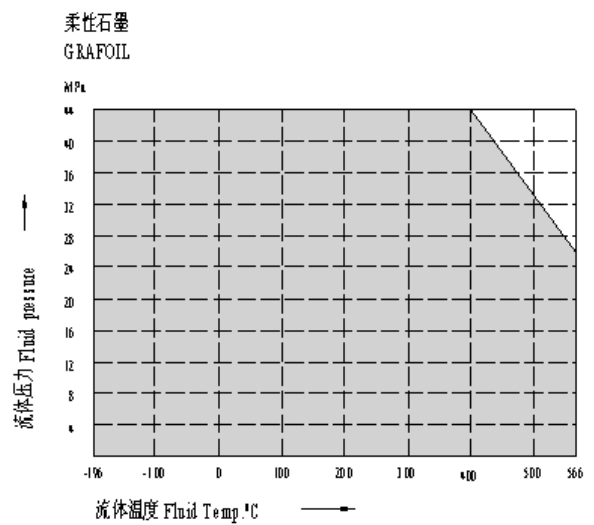
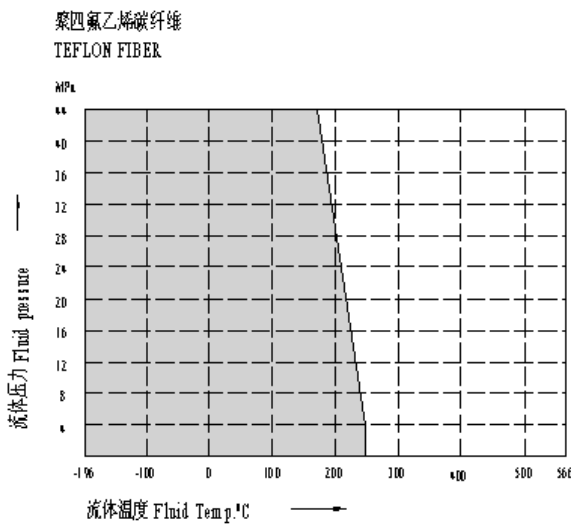


图 3 阀体部件结构 Fig.3 BODY SECTION

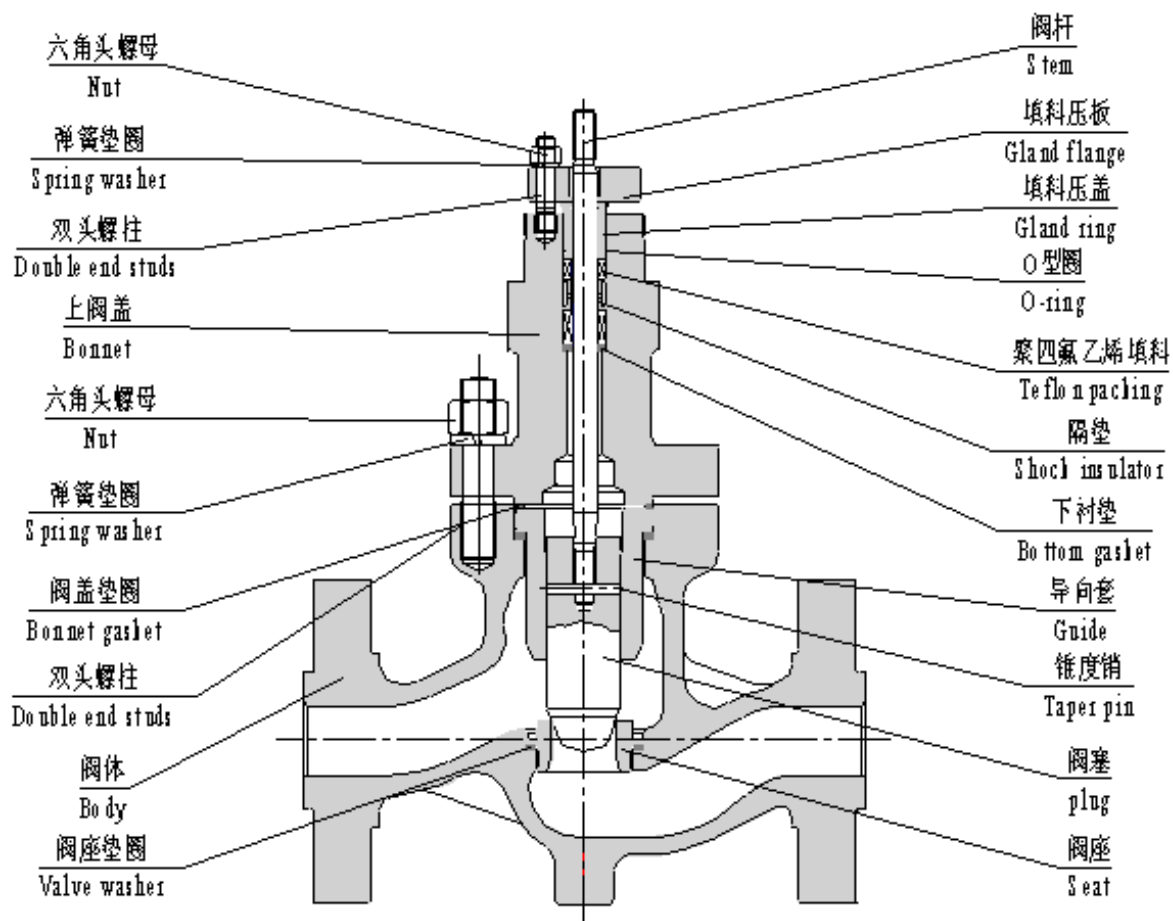


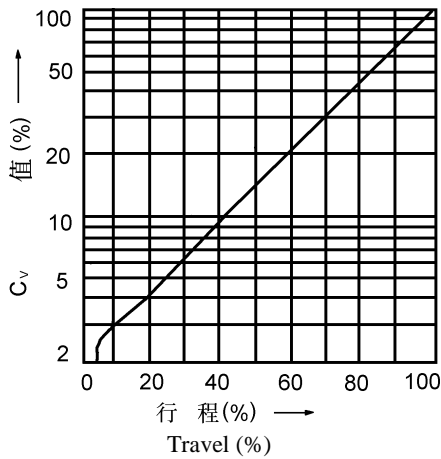
表 3 CV 值和行程

Table 3 Rated Cv value and travel

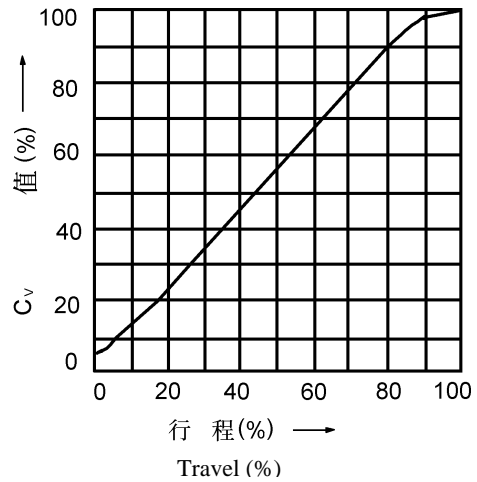
公称通径 Nominal size			25									40			50			80		
阀座直径 Seat size												25	32	40	32	40	50	50	65	80
额定 Cv 值 Rated Cv value	等百分比 (%C) Equal percentage	JIS63K	0.25	0.4	0.63	1.0	1.6	2.5	4.0	6.3	12	12	17	25	17	25	47	47	75	110
	ANSI900																			
	线性 (LC) Linear	ANSI1500																		
		ANSI2500										—	12	17	12	17	31	31	47	75
额定行程 (mm) Rated travel			14.3			25									38					

图 4 典型流量特性曲线

Fig.4 TYPICAL FLOW CHARACTERISTICS



等百分比特性 (%C 金属阀座)
Equal percentage characteristics (%C metal seat)



线性特性 (LC 金属阀座)
Linear characteristics (LC metal seat)

表 4 允许压差

Table 4 ALLOWABLE PRESSURE DROPS

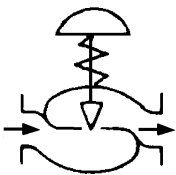
表 4-1 薄膜式执行机构 (HA)

Table 4-1 DIAPHRAGM ACTUATOR (HA)

表 4-1-1 气—关式阀

Table 4-1-1 Air-to-close

100kPa

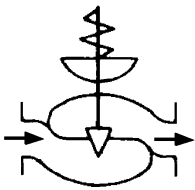


公称压力 Pressure rating	执行机构 Actuator	供气压力 Air supply	弹簧范围 Spring range	允许压差 Allowable pressure drops							
				Cv 值或阀座直径 Rated Cv value or Valve seat size							
				Cv≤4.0	Cv=6.3	Cv=12	32	40	50	65	80
ANSI 900 ANSI 1500 JIS 63K	HA3D	4.0	0.8~2.4	264	264	264	135	91	53	32	22
				264	264	260	128	85	48	28	19
	HA4D	4.0	0.8~2.4	—	—	—	239	161	95	58	41
	HA4D×2	4.0	0.8~2.4	—	—	—	—	245	144	92	60
ANSI 2500	HA3D	4.0	0.8~2.4	425	423	270	270	135	72	53	32
				414	410	260	260	128	67	48	28
	HA4D	4.0	0.8~2.4	—	—	440	440	239	128	95	58
	HA4D×2	4.0	0.8~2.4	—	—	—	—	350	200	180	110

表 4-1-2 气—开式阀

Table 4-1-2 Air-to-open

100kPa



公称压力 Pressure rating	执行机构 Actuator	供气压力 Air supply	弹簧范围 Spring range	允许压差 Allowable pressure drops							
				Cv 值或阀座直径 Rated Cv value or Valve seat size							
				Cv≤4.0	Cv=6.3	Cv=12	32	40	50	65	80
ANSI 900 ANSI 1500 JIS 63K	HA3R	2.8	0.8~2.4	163	161	102	50	32	18	10	7
				152	149	92	42	27	14	7	4
	HA4R	2.8	0.8~2.4	187	185	183	91	61	35	21	14
				180	177	173	84	55	30	17	11
	HA4R×2	2.8	0.8~2.4	—	—	—	—	88	48	30	20
	VA6R	3.0 (1*)	1.9~2.5	264	264	264	258	174	102	62	44
		3.5 (1*)	1.9~3.0								
4.0 (1*)		1.9~3.5	264								
ANSI 2500	HA3R	2.8	0.8~2.4	163	161	102	102	50	25	18	10
				152	149	92	92	42	20	14	7
	HA4R	2.8	0.8~2.4	187	185	183	183	91	48	35	21
				180	177	173	173	84	43	30	17
	HA4R×2	2.8	0.8~2.4	—	—	—	—	130	68	50	29
	VA6R	3.0 (1*)	1.9~2.5	329	328	327	327	258	138	102	62
		3.5 (1*)	1.9~3.0								
4.0 (1*)		1.9~3.5	325								

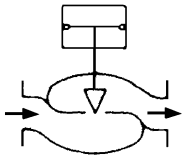
- 注: 1. 最大允许压差不准超过 ANSI B16.34—1981 标准规定的最大工作压力。
 2. 进口压力 P1 不准超过阀关闭时的最大允许压差
 3. 最大允许压差随阀泄漏量不同而变化, 用一格上方数字表示阀泄漏量≤0.01%, 下方数字表示阀泄漏量≤0.001%
 4. 黑线框内数字表示阀配用标准规格执行机构。
 5. 1*仅用于公称通径 DN=25, CV=0.25~0.63 的阀;
 2*仅用于公称通径 DN=25, CV=1.0~12 的阀和公称通径 DN40、50 的阀;
 3*仅用于公称通径 DN=80 的阀。

- Note: 1. Take care not to cause the allowable maximum pressure drops to exceed the maximum operating pressure designated by ANSI B16.34—1981
 2. Take care not to cause the inlet pressure (P1) to exceed the maximum allowable pressure drops at valve-close.
 3. The maximum allowable pressure drops differs depending on valve seat leakage volume. Figures in the upper portion of the column denote pressure under a leakage rate of 0.01%; those on the lower side denote pressure under a leakage rate of 0.001%.
 4. The figures in gray denote the standard actuator specifications.
 5. 1* is applicable to valve size DN=25, CV value 0.25~0.63;
 2* is applicable to valve size DN=25, CV value 0.25~0.63 and DN=40、50;
 3* is applicable to valve size DN=80.

表 4-2 气缸式执行机构 (VP)

Table 4-2 CYLINDER ACTUATOR (VP)

100kPa



公称压力 Pressure rating	执行机构 Actuator	供气压力 Air supply	允许压差 Allowable pressure drops																
			Cv 值或阀座直径 Rated Cv value or Valve seat size																
			Cv≤4.0	Cv=6.3	Cv=12	32	40	50	65	80									
ANSI 900 ANSI 1500	VP5	3	188	187	186	184	142	83	50	36	185	184	182	177	136	79	47	33	
			251	251	250	247	191	113	69	49	248	247	245	241	185	108	65	46	
		4	264	264	264	264	240	142	87	62	264	264	264	264	234	138	83	59	
			5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
		VP6	3	—	—	—	—	—	—	—	179	146	89	64	175	142	86	61	
			4	—	—	—	—	—	—	—	240	197	121	86	236	192	117	86	
	5		—	—	—	—	—	—	—	264	248	152	109	264	243	148	106		
	VP7	3	—	—	—	—	—	—	—	175	138	99	171	135	96				
		4	—	—	—	—	—	—	—	234	186	133	231	182	130				
		5	—	—	—	—	—	—	—	264	233	167	264	229	164				
		3	—	—	—	—	—	—	—	178	146	89	173	142	86				
		4	—	—	—	—	—	—	—	239	197	121	235	192	117				
		5	—	—	—	—	—	—	—	300	248	152	296	243	148				
	ANSI 2500	VP5	3	188	187	186	186	184	113	83	50	185	184	182	182	177	107	79	47
				251	251	250	250	247	152	113	69	248	247	245	245	241	147	108	65
4			315	314	313	313	310	192	142	87	312	311	309	309	304	186	138	83	
			5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
VP6			3	—	—	—	—	—	—	—	178	146	89	173	142	86			
			4	—	—	—	—	—	—	—	239	197	121	235	192	117			
		5	—	—	—	—	—	—	—	300	248	152	296	243	148				
VP7		3	—	—	—	—	—	—	—	—	—	—	175	138	171	135			
		4	—	—	—	—	—	—	—	—	—	—	234	186	231	182			
		5	—	—	—	—	—	—	—	—	—	—	294	233	290	229			

注: 1. 如果执行机构带有辅助气源, 应选二者中较小一个供气压力作为计算允许压差的基础。
2. 最大允许压差不准超过 ANSI B16.34-1981 或 JIS B2201-1984 标准规定的最大工作压力。
3. 进口压力 P1 不准超过阀关闭时的最大允许压差。
4. 最大允许压差随阀泄漏量不同而变化, 用一格上方数字表示阀泄漏量 ≤ 0.01%, 下方数字表示阀泄漏量 ≤ 0.001%

Note: 1. When the actuator with the added air supply, the lower one should be the base of calculating the allowable pressure drops.
2. Take care not to cause the allowable maximum pressure drops to exceed the maximum operating pressure designated by ANSI B16.34—1981 or JIS B2201—1984.
3. Take care not to cause the inlet pressure (P1) to exceed the maximum allowable pressure drops at valve-close.
4. The maximum allowable pressure drops differs depending on valve seat leakage volume. Figures in the upper portion of the column denote pressure under a leakage rate of 0.01%; those on the lower side denote pressure under a leakage rate of 0.001%.

表 4-3 电子式执行机构 (EIL) 及智能式执行机构 (M8)

Table 4-3 ELECTRONIC ACTUATOR (EIL) & INTELLIGENT ACTUATOR (M8)

100kPa

执行机构 Actuator	公称通径 Nominal size	允许压差 Allowable pressure drops											
		25			40			50			80		
		Cv≤4.0	Cv=6.3	Cv=12	25	32	40	32	40	50	50	65	80
EIL04		220	167	110	110	55	37	55	37	24			
EIL08 M8610+L8210		420	420	270	270	140	94	140	94	56	—	—	—
EIL20 M8620+L8220		—	—	—	—	325	187	325	187	112	112	70	60

注：1. 以上允许压差为阀全关时的允许压差。
2. 黑线框内数字表示阀配用标准规格执行机构。

Note: 1. The figures denote the allowable pressure drops at valve-close fully.
2. The figures in gray denote the standard actuator specifications.

表 5 尺寸

Table 5 DIMENSIONS

表 5-1 法兰距尺寸

Table 5-1 Fact-to-Face dimensions

mm

公称通径 Nominal size	A						
	JIS63K	ANSI 900		ANSI 1500		ANSI 2500	
	RF	RF (SW, BW)	RJ	RF (SW, BW)	RJ	RF (SW, BW)	RJ
25	245	245	245	245	245	245	249
40	323	333	333	333	333	358	361
50	354	375	378	375	378	400	403
80	431	440	443	460	463	498	504

注：法兰距符合 IEC 534—3—1976 标准。

Note: Face-to-face dimensions comfort to IEC 534-3-1976 Standard.

表 5-2 外形尺寸

Table 5-2 Other dimensions

mm

公称 通径 Nominal size	执行机构 Actuator	H						H1			B	B1	B2	B3	B4
		ANSI 900 JIS 63K		ANSI 1500		ANSI 2500		ANSI 900	ANSI 1500	ANSI 2500					
		常温型 (P) Plain bonnet	伸长 I 型 (E I) Extension bonnet Type I	常温型 (P) Plain bonnet	伸长 I 型 (E I) Extension bonnet Type I	常温型 (P) Plain bonnet	伸长 I 型(E Type I) Extension bonnet Type I								
25	HA3D、R	810	945	810	945	840	960	62	62	62	363	—	—	—	—
	HA4D、R	975	1105	975	1105	1005	1125				520	—	—	—	—
	VA6R	1465	1595	1465	1595	1495	1615				475	—	—	—	—
	VP5	1170	1300	1170	1300	1200	1320				345	—	—	—	—
	EIL04	915	1045	915	1045	945	1065				267	—	258	—	—
40	HA3D、R	835	975	835	975	880	1025	100	105	115	363	—	—	—	—
	HA4D、R	995	1135	995	1135	1040	1185				520	—	—	—	—
	HA4×2D、R	1560	1700	1560	1700	1605	1750				470	—	—	—	—
	VA6R	1485	1625	1485	1625	1530	1675				475	—	—	—	—
	VP5	1190	1330	1190	1330	1235	1380				345	—	—	—	—
	VP6	1305	1445	1305	1445	1350	1500				445	—	—	—	—
	EIL08	1010	1150	1010	1150	1055	1200				229	—	338	—	—
M8610+L8210	1160	1300	1160	1300	1205	1350	—	285	346	253	350				
50	HA3D、R	865	1025	865	1025	900	1060	110	120	130	363	—	—	—	—
	HA4D、R	1030	1190	1030	1190	1065	1225				520	—	—	—	—
	HA4×2D、R	1595	1760	1595	1760	1635	1790				520	—	—	—	—
	VA6R	1520	1680	1520	1680	1555	1715				475	—	—	—	—
	VP5	1225	1385	1225	1385	1260	1420				345	—	—	—	—
	VP6	1335	1500	1335	1500	1375	1535				445	—	—	—	—
	VP7	1335	1500	1335	1500	1375	1535				545	—	—	—	—
	EIL08	1040	1205	1040	1205	1080	1240				229	—	338	—	—
M8610+L8210	1195	1360	1195	1360	1235	1390	—	285	346	253	350				
80	HA3D、R	900	1080	900	1080	935	1105	140	150	160	363	—	—	—	—
	HA4D、R	1070	1250	1070	1250	1105	1280				520	—	—	—	—
	HA4×2D、R	1635	1815	1635	1815	1670	1740				520	—	—	—	—
	VA6R	1560	1740	1560	1740	1595	1765				475	—	—	—	—
	VP5	1265	1445	1265	1445	1300	1470				345	—	—	—	—
	VP6	1380	1560	1380	1560	1415	1585				445	—	—	—	—
	VP7	1380	1560	1380	1560	1415	1585				545	—	—	—	—
	EIL20	1445	1625	1445	1625	1480	1650				258	—	356	—	—
	M8620+L8220	1230	1410	1230	1410	1265	1435				—	313	350	253	350

表 5-2-2 外形尺寸

Table 5-2-2 Other dimensions

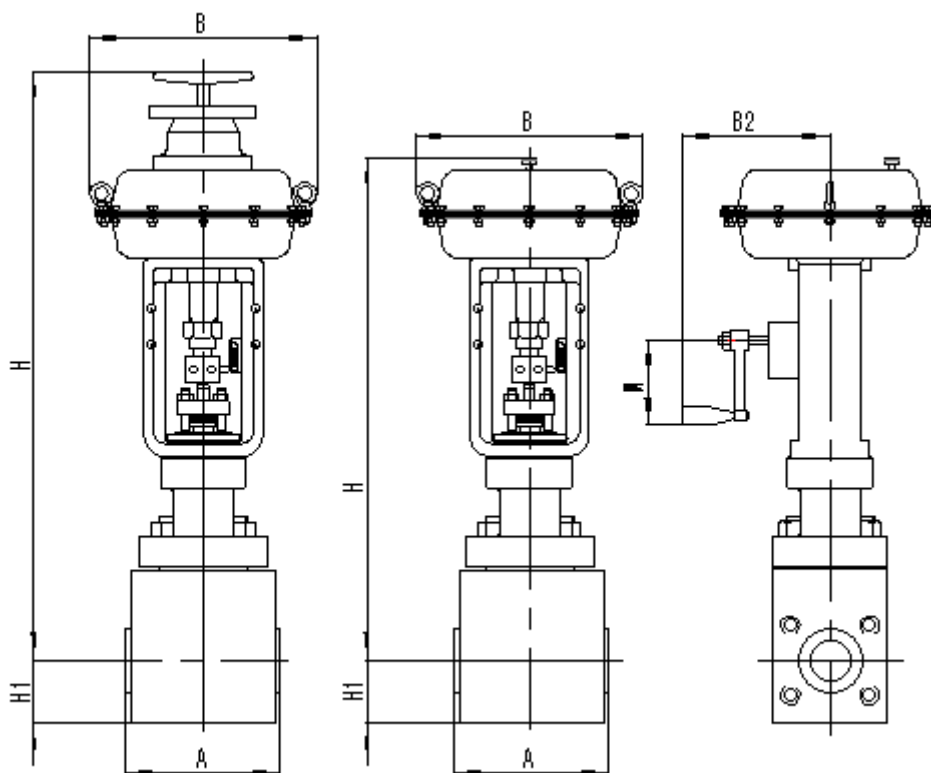
mm

公称 口径 Nominal size	执行机构 Actuator	H												B2	M
		侧装手轮						顶装手轮							
		ANSI 900		ANSI 1500		ANSI 2500		ANSI900		ANSI1500		ANSI2500			
		常温型 (P) Plain bonnet	伸长 I 型 (E I) Extension bonnet Type I	常温型 (P) Plain bonnet	伸长 I 型 (E I) Extension bonnet Type I	常温型 (P) Plain bonnet	伸长 I 型 (E I) Extension bonnet Type I	常温型 (P) Plain bonnet	伸长 I 型 (E I) Extension bonnet Type I	常温型 (P) Plain bonnet	伸长 I 型 (E I) Extension bonnet Type I	常温型 (P) Plain bonnet	伸长 I 型 (E I) Extension bonnet Type I		
25	HA3D、R	810	945	810	945	840	960	1100	1235	1100	1235	1130	1250	278.5	175
	HA4D、R	975	1105	975	1105	1005	1125	1375	1505	1375	1505	1405	1525	303	φ320
	VA6R	1590	1720	1590	1720	1620	2015	—	—	—	—	—	—	384	φ380
	VP5	1280	1410	1280	1410	1310	1430	—	—	—	—	—	—	324	φ380
40	HA3D、R	835	975	835	975	880	1025	1125	1265	1125	1265	1170	1315	278.5	175
	HA4D、R	995	1135	995	1135	1040	1185	1395	1535	1395	1535	1440	1585	303	φ320
	HA4×2D、R	1880	2020	1880	2020	1925	2070	—	—	—	—	—	—	310	φ380
	VA6R	1610	1750	1610	1750	1655	1800	—	—	—	—	—	—	384	φ380
	VP5	1300	1440	1300	1440	1345	1490	—	—	—	—	—	—	324	φ380
	VP6	1430	1560	1430	1560	1465	1625	—	—	—	—	—	—	384	φ380
50	HA3D、R	865	1025	865	1025	900	1060	1155	1315	1155	1315	1190	1350	278.5	175
	HA4D、R	1030	1190	1030	1190	1065	1225	1430	1590	1430	1590	1465	1625	303	φ320
	HA4×2D、R	1915	2080	1915	2080	1955	2110	—	—	—	—	—	—	310	φ380
	VA6R	1645	1800	1645	1800	1680	1840	—	—	—	—	—	—	384	φ380
	VP5	1335	1495	1335	1495	1370	1530	—	—	—	—	—	—	324	φ380
	VP6	1460	1625	1460	1625	1500	1660	—	—	—	—	—	—	384	φ380
	VP7	1460	1625	1460	1625	1500	1660	—	—	—	—	—	—	384	φ380
80	HA3D、R	900	1080	900	1080	935	1105	1190	1370	1190	1370	1225	1395	278.5	175
	HA4D、R	1070	1250	1070	1250	1105	1275	1470	1650	1470	1650	1505	1675	303	φ320
	HA4×2D、R	1955	2135	1955	2135	1990	2060	—	—	—	—	—	—	310	φ380
	VA6R	1685	1865	1685	1865	1720	1890	—	—	—	—	—	—	384	φ380
	VP5	1375	1555	1375	1555	1410	1580	—	—	—	—	—	—	324	φ380
	VP6	1505	1685	1505	1685	1540	1710	—	—	—	—	—	—	384	φ380
	VP7	1845	1955	1845	1955	—	—	—	—	—	—	—	—	384	φ380

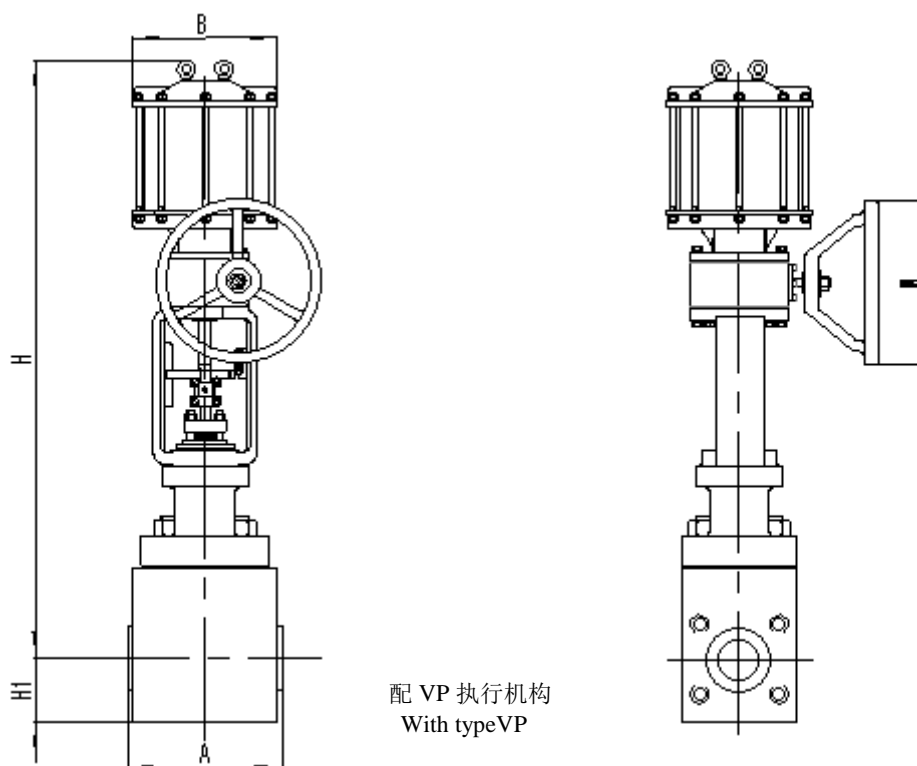
注：表 5-2-2 上 H 栏尺寸是气动执行机构（带手轮）调节阀高度。

Note: The size of H in Table 5-2-2 shows the height of the valve and pneumatic actuator (with handwheel) combined

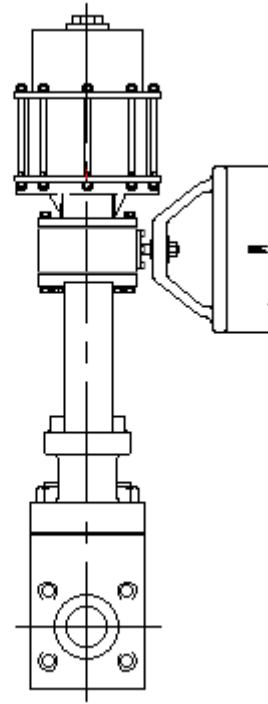
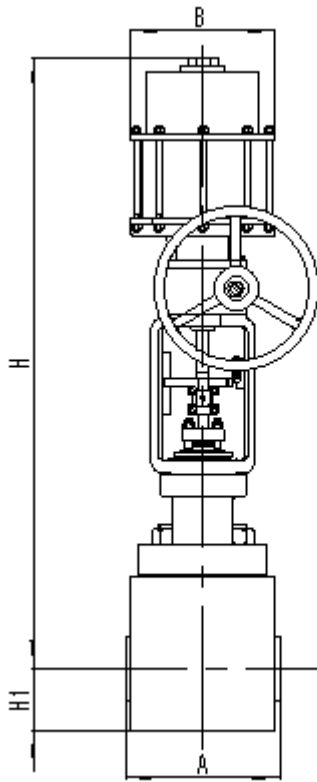
下图适用于：DN25 口径。



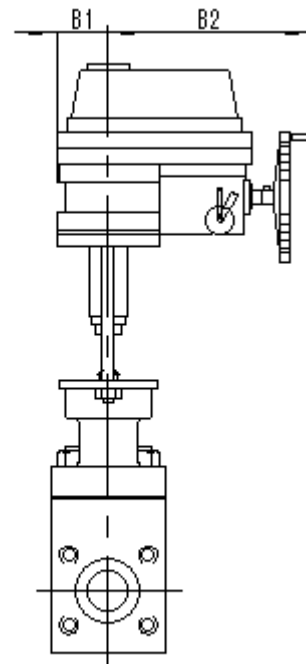
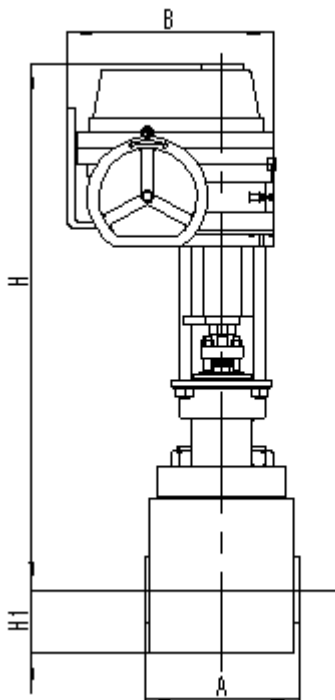
配 HA 执行机构
With type HA



配 VP 执行机构
With type VP

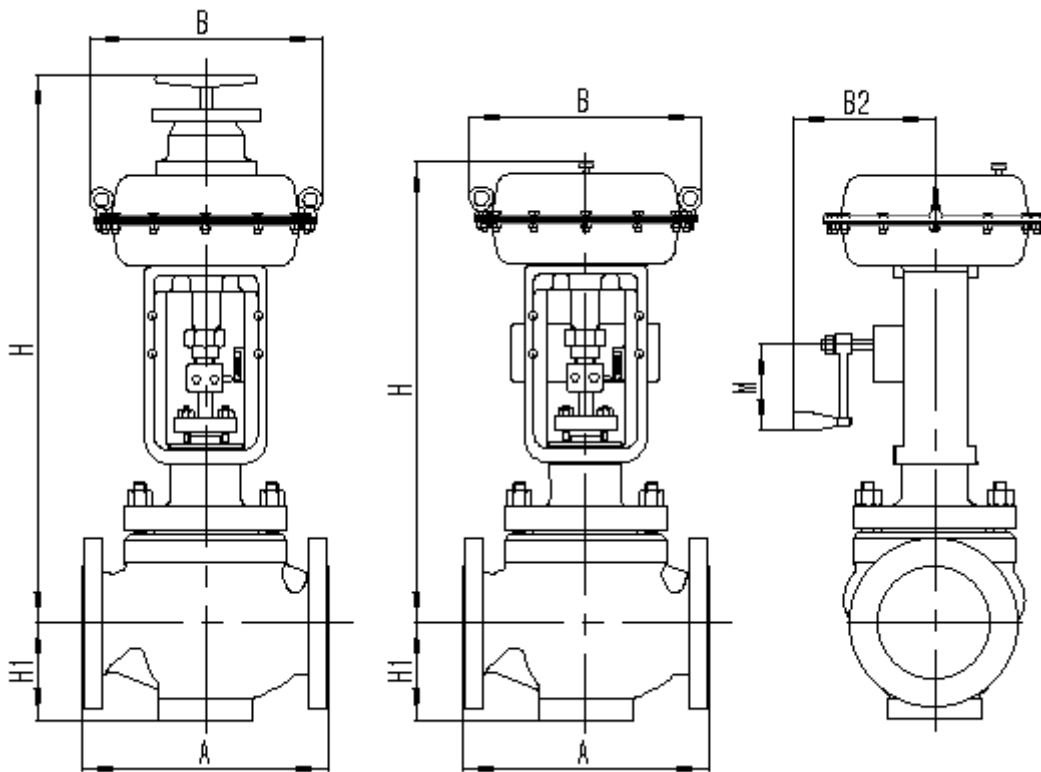


配 VA 执行机构
With type VA

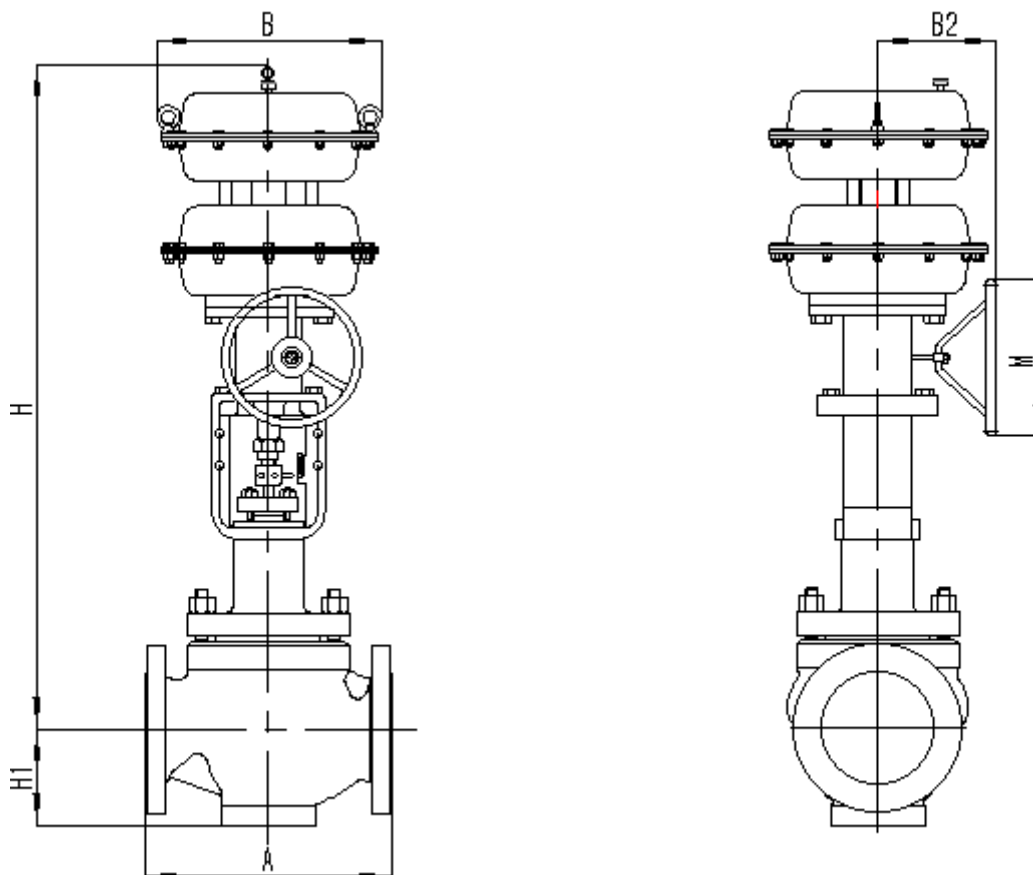


配 EIL 执行机构
With type EIL

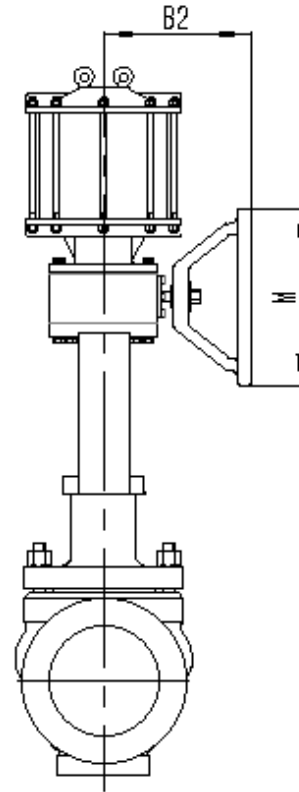
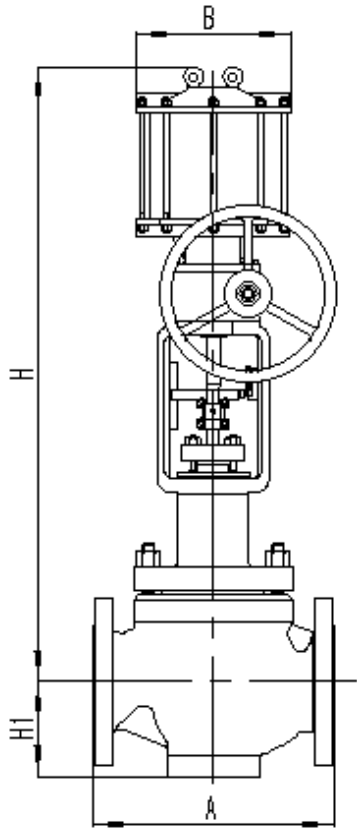
下图适用于：DN40 及其以上口径。



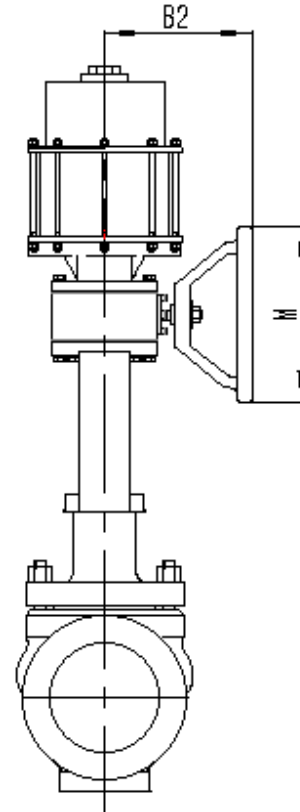
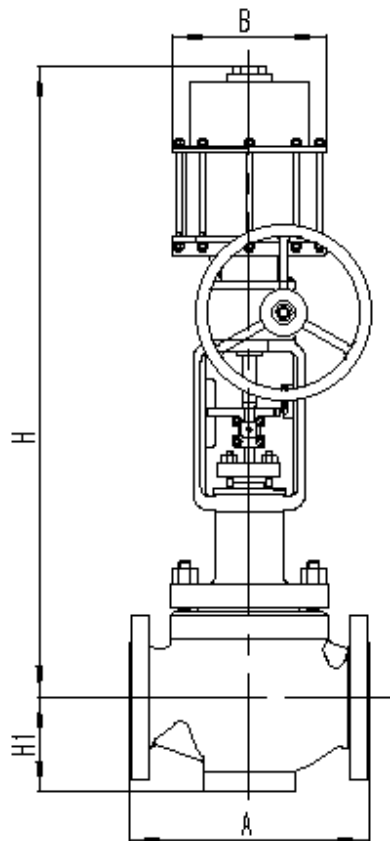
配 HA 执行机构
With type HA



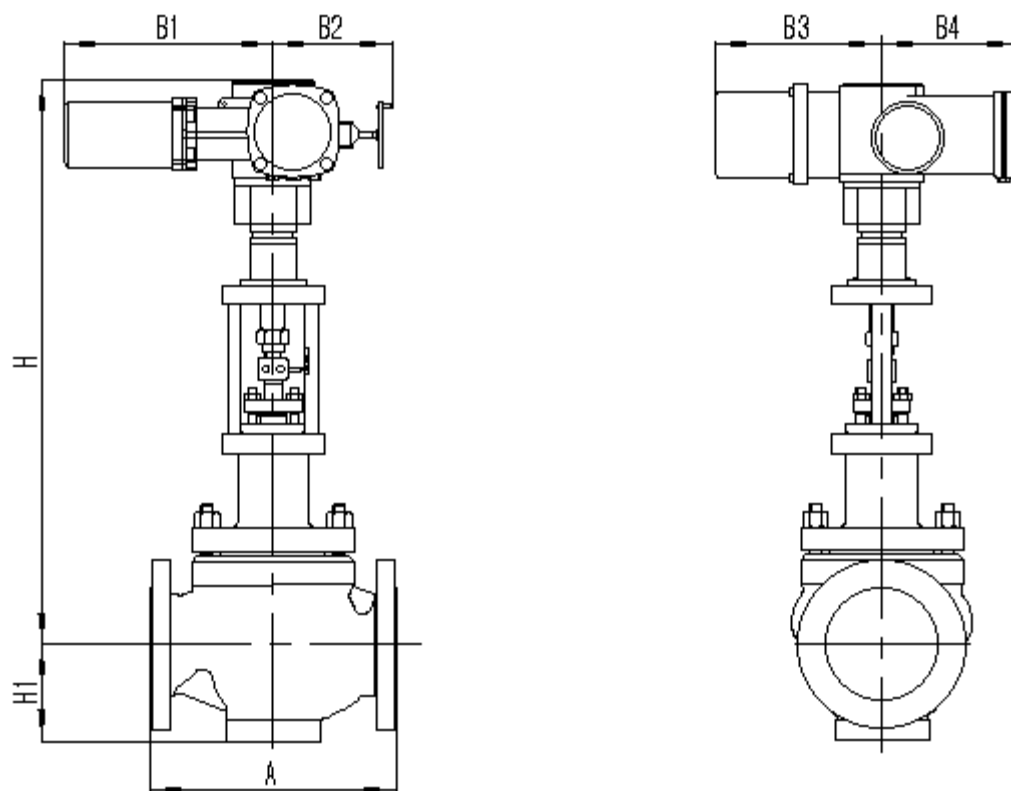
配 HA4X2 执行机构
With type HA4X2



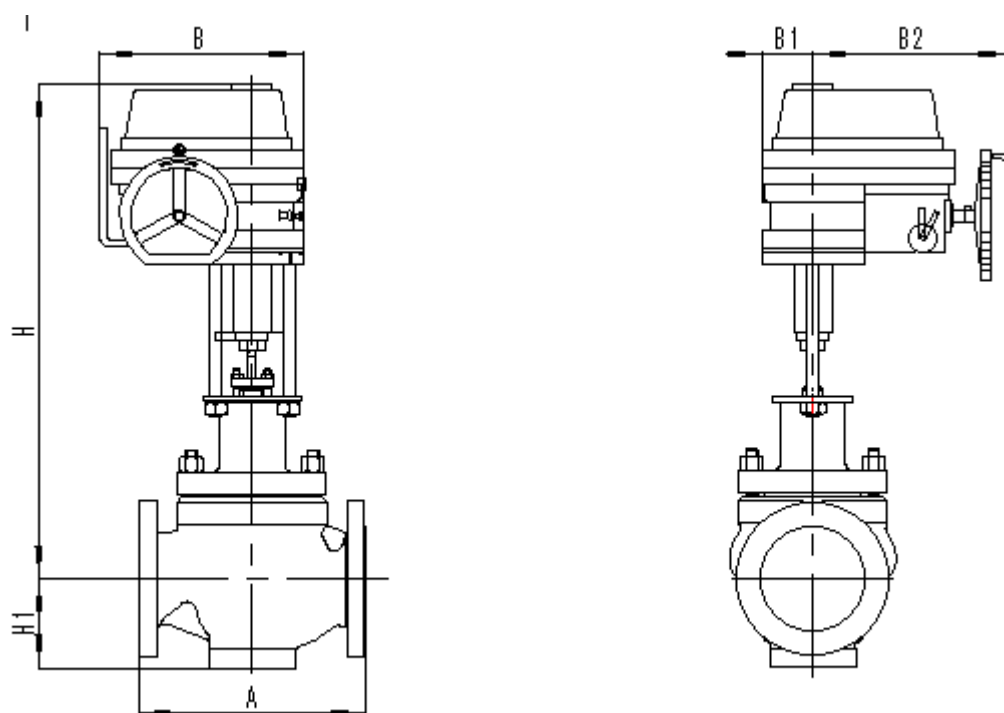
配 VP 执行机构
With type VP



配 VA 执行机构
With type VA



配 M8 执行机构
 With type M8



配 EIL 执行机构
 With type EIL

图 5 法兰距及外形尺寸
 Fig.5 Face-to-Face dimension and Other dimensions

表 6 重量

Table 6 WEIGHT

kg

公称 口径 Nominal size	执行机构 Actuator	法兰连接 Flanged type						焊接连接 Welded type									
		ANSI 900		JIS63K		ANSI 1500		ANSI 2500		ANSI 900		JIS63K		ANSI 1500		ANSI 2500	
		常温型 (P) Plain bonnet	伸长 I 型 (E I) Extension bonnet Type I	常温型 (P) Plain bonnet	伸长 I 型 (E I) Extension bonnet Type I	常温型 (P) Plain bonnet	伸长 I 型 (E I) Extension bonnet Type I	常温型 (P) Plain bonnet	伸长 I 型 (E I) Extension bonnet Type I	常温型 (P) Plain bonnet	伸长 I 型 (E I) Extension bonnet Type I	常温型 (P) Plain bonnet	伸长 I 型 (E I) Extension bonnet Type I	常温型 (P) Plain bonnet	伸长 I 型 (E I) Extension bonnet Type I	常温型 (P) Plain bonnet	伸长 I 型 (E I) Extension bonnet Type I
25	HA3D、R	55	60	60	65	85	90	45	50	50	55	70	75				
	HA4D、R	85	90	90	95	115	120	80	85	85	90	100	105				
	VP5	105	110	105	110	130	135	95	100	100	105	115	120				
	EIL04	35	40	35	40	65	70	25	30	25	30	50	55				
40	HA3D、R	60	65	65	70	90	95	50	55	55	60	75	80				
	HA4D、R	90	95	95	100	125	130	80	85	85	90	105	110				
	HA4×2	170	175	175	180	205	210	160	165	165	170	185	195				
	VP5	105	110	110	115	140	145	95	100	100	105	120	125				
	VP6	180	185	185	190	215	220	170	175	175	180	195	200				
	EIL08	60	65	65	70	90	95	50	55	55	60	75	80				
	M8610+L8210	75	80	75	80	80	85	40	45	40	45	65	80				
50	HA3D、R	75	85	75	85	110	120	55	65	60	70	85	95				
	HA4D、R	100	110	105	115	140	150	85	95	90	100	115	125				
	HA4×2	180	190	185	195	220	230	165	175	170	180	195	205				
	VP5	115	125	120	130	155	165	100	110	105	115	130	140				
	VP6	190	200	195	205	230	240	175	185	180	190	205	215				
	VP7	300	310	305	315	340	350	285	295	290	300	315	325				
	EIL08	75	85	75	85	110	120	55	65	60	70	85	95				
	M8610+L8210	90	100	90	100	125	135	70	80	75	85	100	110				
80	HA3D、R	105	115	140	160	225	245	85	95	110	130	170	190				
	HA4D、R	135	145	170	190	255	275	115	125	140	160	200	220				
	HA4×2	215	225	250	270	335	355	195	205	220	240	280	300				
	VP5	150	160	185	205	270	290	130	140	155	175	215	235				
	VP6	225	235	260	280	345	365	205	215	230	250	290	310				
	VP7	335	345	370	390	455	475	315	325	340	360	400	420				
	EIL20	95	105	130	150	215	235	75	85	100	120	160	180				
	M8620+L8220	115	125	150	170	235	255	95	105	120	140	180	220				