

CV3000 系列 CV3000 SERIES

HP4 高压单座角型调节阀

HP4 高压单座角型调节阀采用不平衡型阀芯，阀芯导向部分导向面积大，抗振性好。阀内件采用二级降压结构设计，在高压差时，抗冲刷性好，产品使用寿命较长。该阀结构紧凑，流量大，可调范围宽。主要用于尿素合成塔出口及其它高压场合。

调节阀的泄漏量符合 ANSIS6.104 标准。调节阀配用多弹簧薄膜或汽缸执行机构，其结构紧凑，输出力大。

产品符合 GB/T4213-2008 标准。

High Pressure Single Seated Angle Valves

HP4 High Pressure Single Seated Angle Valve uses a unbalanced plug with a large guiding area for good vibration resistance. The trims represent good erosion resistance with secondary pressure-relief structure for long service life of the valve. It features with compact structure, large flow and wide rangeability, and it primarily used for urea synthetic tower outlet and other high pressure applications.

The leakage complies with the ANSI B16.104 standards. The compact size and large output force can be available when the control valve is combined with multi-spring diaphragm actuator or cylinder actuator

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

标准规格 STANDARD SPECIFICATION

阀体 BODY

形式 Type	角型锻造阀 Forging angle valve
公称通径 Nominal size	10、15、25、40、50、65、80、100、125mm
公称压力 Pressure rating	PN 16、22、32MPa *
连接型式 End connections	法兰型 Flanged: 透镜垫 (Lens ring washer)
尺寸 Dimensions	请参见表 5 See Table 5
阀体及上阀盖材质 Body & Bonnet Material	锻钢、锻不锈钢 (SUS304、SUS316、SUS316L、A4) 等 Forge steel, forge stainless steel(SUS304, SUS316, SUS316L,A4) and so on 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 : -45~+350℃
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, 各种填料的使用温度·压力范围, 请参见图 2 Teflon fiber and JM397 Grafoil, see Fig.2 for selection
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: HG12-2009、JB/T2769-92 .etc

阀内组件 TRIM

阀芯型式 Valve plug type	单座柱塞型 Plug 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 及图 1 See Table 1&Fig.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)

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	VA	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	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) ; G1/2 (VP7)		配线: PG13.5 Wiring:PG13.5	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) ≤3%FS (不带定位器) ≤ 1%FS (With positioner) ≤ 3%FS (Without positioner)	≤1%FS (带定位器) ≤3%FS (不带定位器) ≤ 1%FS (With positioner) ≤3%FS (Without positioner)		≤1%FS	≤1%FS

基本误差 Limit of intrinsic error	$\leq \pm 1\%FS$ (带定位器) $\leq \pm 5\%FS$ (不带定位器) $\leq \pm 1\%FS$ (With positioner) $\leq \pm 5\%FS$ (Without positioner)	$\leq \pm 1\%FS$ (带定位器) $\leq \pm 5\%FS$ (不带定位器) $\leq \pm 1\%FS$ (With positioner) $\leq \pm 5\%FS$ (Without positioner)	$\leq \pm 1\%FS$	$\leq \pm 1\%FS$
环境温度 Ambient temperature	标准型 Standard type-30~+70℃ 高温型 High Temp.service 0~+100℃ 低温型 Low Temp.service -40~+40℃	标准型 Standard type-20~+60℃ 高温型 High Temp.service 0~+100℃ 低温型 Low Temp.service -50~+60℃	-20~+70℃	-25~+70℃
油漆颜色 Painting	蓝色 Munsell 色标 10B5/10 Blue (Munsell color 10B5/10)	蓝色 Munsell 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 6 See Table 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		A105	
阀芯 Plug	材质 material	SUS304/316/316L	
	处理 treatment	SS/SF	
阀座 Valve seat	材质 material	SUS304/316/316L	
	处理 treatment	SS/SF	
垫圈 Gasket	材质 material	SUS316L	
阀座允许泄漏量 Seat Leakage		Class IV	
使用温度 Operating Temp. °C		-17~+350	

表 1-2 阀体材质: 不锈钢

Table 1-2 BODY MATERIAL: STAINLESS STEEL

阀体材质 Body material		F304/316/316L/A4	
阀芯 Plug	材质 material	SUS304/316/316L/A4	SUS304/316/316L/A4
	处理 treatment	SS	SF
阀座 Seat ring	材质 material	SUS304/316/316L/A4	SUS304/316/316L/A4
	处理 treatment	SS	SF
导向套 Guide	材质 material	SUS304/316/316L/A4	SUS304/316/316L/A4
	处理 treatment	ST	ST
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		-45~+350	-45~+350

表 2 阀体材质使用温度· 压力范围

Table 2 BODY MATERIAL/OPERATING PRESSURE-TEMPERATURE RATING

温度 Temp. °C	PN160/ANSI900						PN220/ANSI1500						PN320/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

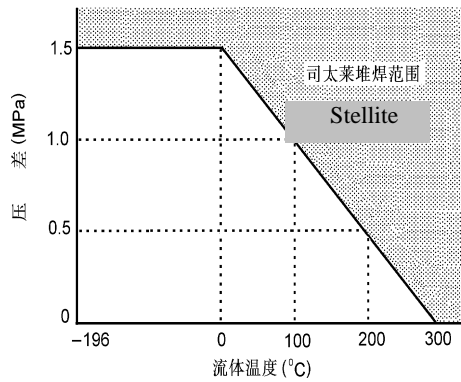


图 1-1 司太莱的工作范围

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 过热场合, 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 for cavitation/flashing service or for superheated service of water higher than 100°C.

2. When cavitation/flashing service, oil prohibitive service, or retention of valve-close performance is required, use of Stellite is recommended regardless of temperature or pressure drops.

3. When C_v is 0.16 or lower, Stellite faced valve plugs or 9Cr18 hardened stainless steel valve plugs is standard.

图 2 填料使用温度·压力范围

Fig.2 PACKING PRESSURE · TEMPERATURE RATINGS

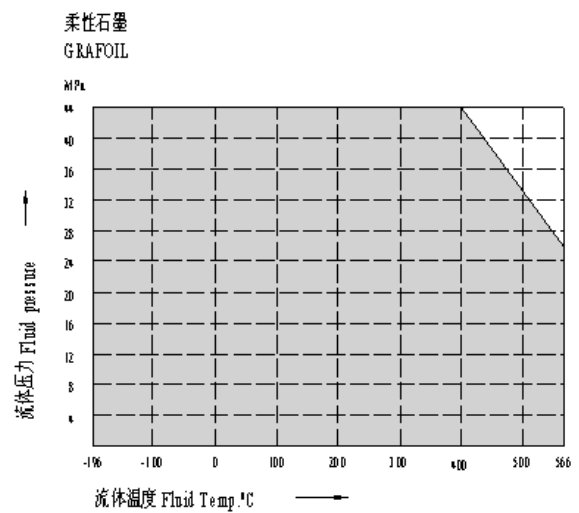
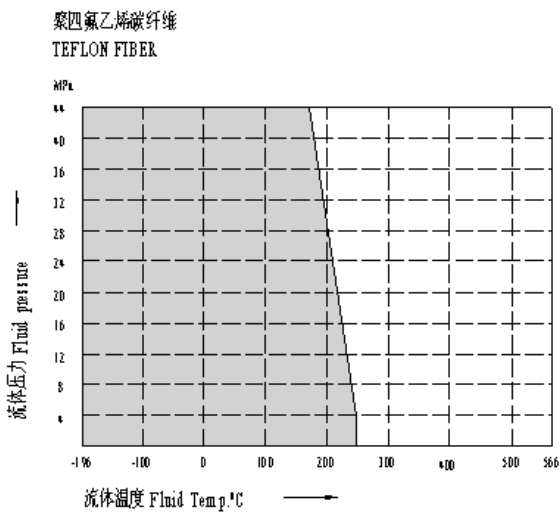


图 3 阀体部件结构 Fig.3 BODY SECTION

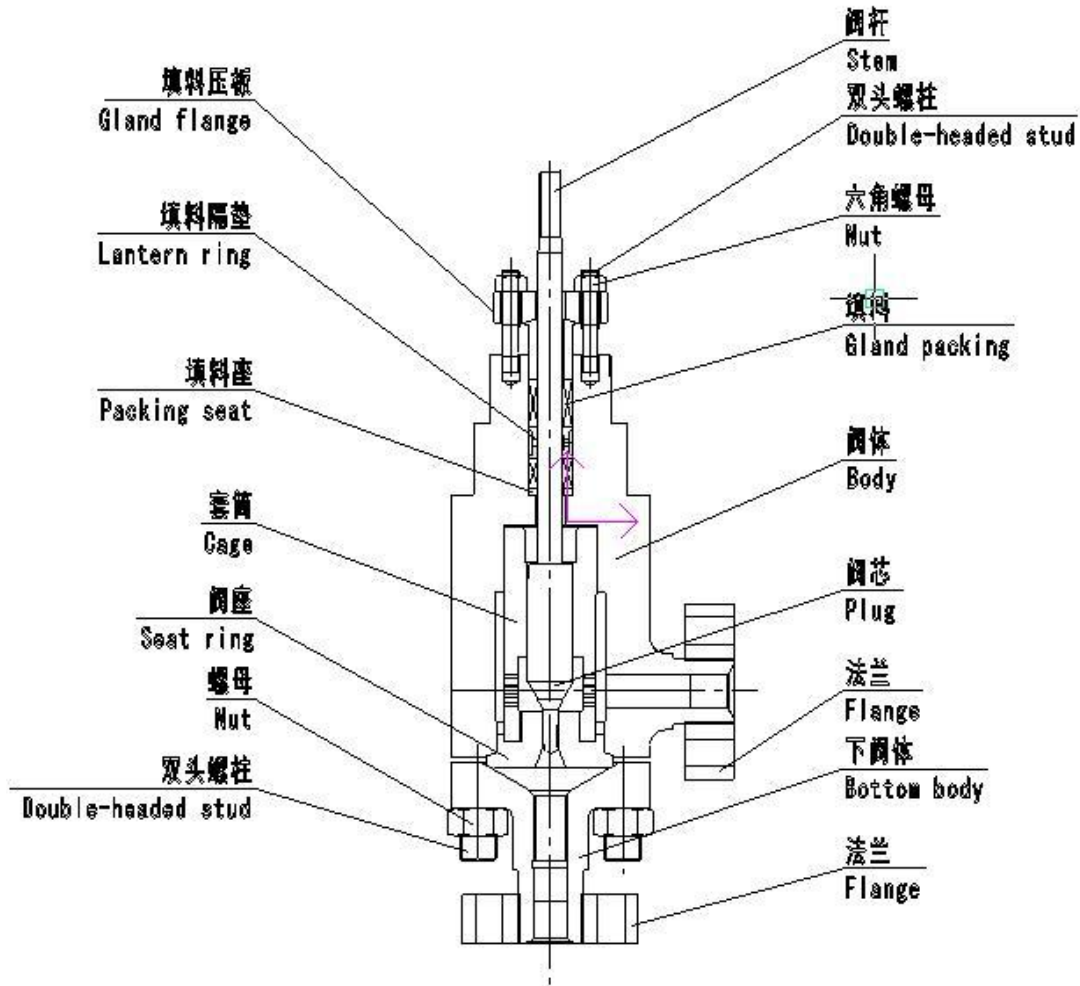


表 3 CV 值和行程

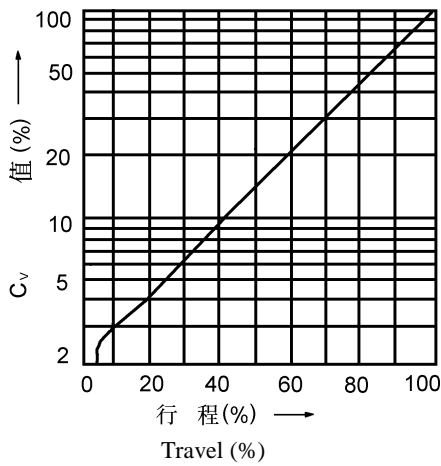
Table 3 Rated Cv value and travel (%C, LC)

公称通径 Nominal size		10			15					25						32			
阀座直径 Seat size		6	8	10	6	8	10	12	14	6	8	10	12	14	16	20	16	20	28
额定 Cv 值 Rated Cv value	等百分比 (%C) Equal percentage	0.1	0.4	1.0	0.1	0.4	1.0	2.5	4.0	0.1	0.4	1.0	2.5	4.0	6.3	12	6.3	12	17
	线性 (LC) Linear	0.16	0.63	1.6	0.16	0.63	1.6	2.5	4.0	0.16	0.63	1.6	2.5	4.0	6.3	12	6.3	12	17
		0.25			0.25					0.25									
额定行程 (mm) Rated travel		14.3		25	14.3		25			14.3			25						

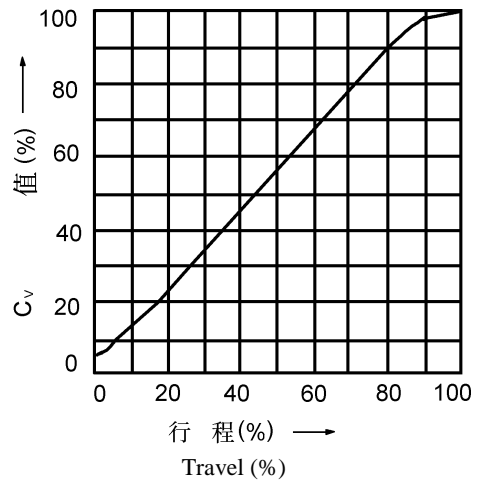
公称通径 Nominal size		40			50			65			80			100			125		
阀座直径 Seat size		20	28	34	28	34	44	34	44	56	44	56	66	56	66	85	66	85	105
额定 Cv 值 Rated Cv value	等百分比 (%C) Equal percentage	12	17	25	17	25	47	25	47	75	47	75	110	75	110	185	110	185	290
	线性 (LC) Linear																		
额定行程 (mm) Rated travel		25						38						50					

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

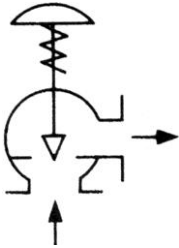
表 4-1 薄膜式执行机构 (HA)

Table 4-1 DIAPHRAGM ACTUATOR (HA)

表 4-1-1 气关式阀

Table 4-1-1 Air-to-close

100kPa

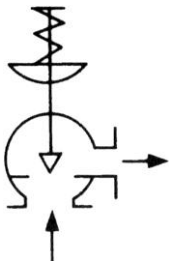


公称压力 Pressure rating	执行机构 Actuator	供气压力 Air supply	弹簧范围 Spring range	允许压差 Allowable pressure drops									
				Cv 值或阀座直径 Rated Cv value or Valve seat size									
				Cv≤4.0	Cv=6.3	Cv=12	28	34	44	56	66	85	105
PN16Mpa	HA3D	4.0	0.8~2.4	420	372	238	121	82	49	30	21	—	—
PN22Mpa	HA4D	4.0	0.8~2.4	—	420	410	209	142	85	52	38	23	15
PN32MPa	HA4D×2	4.0	0.8~2.4	—	—	—	418	284	170	100	75	46	30

表 4-1-2 气开式阀

Table 4-1-2 Air-to-open

100kPa

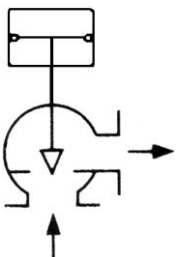


公称压力 Pressure rating	执行机构 Actuator	供气压力 Air supply	弹簧范围 Spring range	允许压差 Allowable pressure drops									
				Cv 值或阀座直径 Rated Cv value or Valve seat size									
				Cv≤4.0	Cv=6.3	Cv=12	28	34	44	56	66	85	105
PN16Mpa	HA3R	2.8	0.8~2.4	243	186	120	60	41	25	15	11	—	—
PN22Mpa	HA4R	2.8	0.8~2.4	420	320	205	105	72	42.5	26	19	11.4	7.5
PN32MPa	HA4R×2	2.8	0.8~2.4	—	—	410	210	144	85	52	38	23	15
	VA6R	4.0	1.9~3.5				283	203	121	75	54	33	22

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	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	28	34	44	56	66	85	105
PN16Mpa	VP4	4.0	无	—	—	420	257	175	105	65	46	—	—
PN22Mpa	VP5	4.0	无	—	—	—	372	252	150	93	67	41	26.5
PN32MPa	VP6	4.0	无	—	—	—	420	420	254	157	113	68	45
	VP7	4.0	无	—	—	—	—	—	420	248	178	108	70

表 4-2 电子式执行机构 (EIL) 及电动式执行机构 (M8)

Table 4-2 ELECTRONIC ACTUATOR (EIL) & ELECTRIC MOTOR ACTUATOR (M8) 100kPa

执行机构 Actuator	阀座形式 Valve seat	阀座直径 (mm) Valve seat size									
		Cv≤4.0	Cv=6.3	Cv=12	28	34	44	56	66	85	105
EIL04	金属阀座 Metal seat	243	186	120	8.6	—	—	—	—	—	—
EIL08 M8610+L8210	金属阀座 Metal seat	420	320	205	105	72	42.5	26	19	11.4	7.5
M8620+L8220	金属阀座 Metal seat	—	—	410	210	144	85	52	38	23	15
EIL20	金属阀座 Metal seat	—	—	—	283	203	121	75	54	33	22

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. 黑线框内数字表示阀配用标准规格执行机构。以上压差为阀处于关闭时的压差。

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 figures in gray denote the standard actuator specifications. The above figures are the pressure drops when the valve is closed.

表 5 尺寸

Table 5 DIMENSIONS

表 5-1 法兰距

Table 5-1 Face-to-face dimensions

mm

公称通径 Nominal Size	A1	A
	PN16、22、32Mpa	
	透镜垫 Len ring washer	
10	165	120
15		
25		
32	200	135
40	235	165
50	275	190
65	345	275
80	345	275
100	390	305
125	460	340

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

表 5-2-1 外形尺寸

Table 5-2-1 Other dimensions

mm

公称通径 Nominal size	执行机构 Actuator	H	B	B1	B2	B3	B4
10 15 25	HA3D、R	650	363	—	—	—	—
	HA4D、R	800	520	—	—	—	—
	HA4×2D、R	1360	520	—	—	—	—
	EIL04	640	172	—	258	—	—
	EIL08	700	229	—	338	—	—
	M8610+L8210	1230	—	285	346	353	230
32 40	HA3D、R	650	363	—	—	—	—
	HA4D、R	800	520	—	—	—	—
	HA4×2D、R	1360	520	—	—	—	—
	VA6R	1050	480	—	—	—	—
	VP4	980	334	—	—	—	—
	VP5	990	382	—	—	—	—
	EIL04	640	172	—	258	—	—
	EIL08	700	229	—	338	—	—
	M8610+L8210	1230	—	285	346	353	230
50	HA3D、R	670	363	—	—	—	—
	HA4D、R	820	520	—	—	—	—
	HA4×2D、R	1380	520	—	—	—	—
	VA6R	1070	480	—	—	—	—
	VP4	1000	334	—	—	—	—
	VP5	1010	382	—	—	—	—
	VP6	1120	480	—	—	—	—
	EIL08	740	229	—	338	—	—
	M8610+L8210	1250	—	285	346	353	230
65 80	HA3D、R	680	363	—	—	—	—
	HA4D、R	840	520	—	—	—	—
	HA4×2D、R	1400	520	—	—	—	—
	VA6R	1100	480	—	—	—	—
	VP5	1040	382	—	—	—	—
	VP6	1150	480	—	—	—	—
	VP7	1160	50	—	—	—	—
	EIL08	770	229	—	338	—	—
	M8610+L8210	1280	—	285	346	353	230
	EIL20	1020	259	—	356	—	—
	M8620+L8220	1350	—	313	350	353	230

100	HA4D、R	850	520	—	—	—	—
	HA4×2D、R	1410	520	—	—	—	—
	VA6R	1090	480	—	—	—	—
	VP5	1050	382	—	—	—	—
	VP6	1170	480	—	—	—	—
	VP7	1180	50	—	—	—	—
	EIL20	990	259	—	356	—	—
	M8620+L8220	1350	313	350	—	253	230
125	HA4D、R	880	520	—	—	—	—
	HA4×2D、R	1440	520	—	—	—	—
	VA6R	1120	480	—	—	—	—
	VP5	1080	382	—	—	—	—
	VP6	1200	480	—	—	—	—
	VP7	1210	50	—	—	—	—
	EIL20	1020	—	356	—	—	—
	M8620+L8220	1380	313	350	—	253	230

表 5-2-2 外形尺寸

Table 5-2 -2 Other dimensions

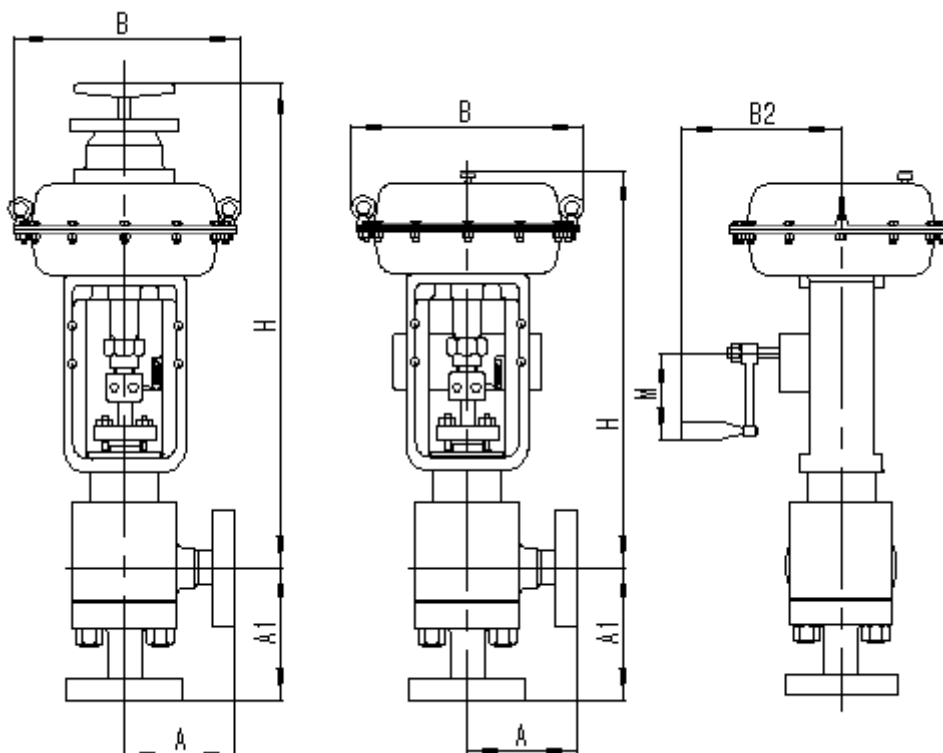
mm

公称通径 Nominal size	执行机构 Actuator	H		B	B2	M
		侧装手轮 Side-mounted handwheel	顶装手轮 Top-mounted handwheel			
10 15 25	HA3D、R	650	937	363	278.5	175
	HA4D、R	800	1198	520	303	φ 320
	HA4×2D、R	1678	—	520	310	φ 320
32 40	HA3D、R	650	937	363	278.5	175
	HA4D、R	800	1198	520	303	φ 320
	HA4×2D、R	1678	—	520	310	φ 320
	VA6R	1175	—	480	384	φ 380
	VP4	1090	—	338	324	Φ 380
50	VP5	1100	—	382	324	Φ 380
	HA3D、R	670	957	363	278.5	175
	HA4D、R	820	1218	520	303	φ 320
	HA4×2D、R	1698	—	520	310	φ 320
	VA6R	1195	—	480	384	φ 380
	VP4	1110	—	338	324	Φ 380
	VP5	1120	—	382	324	Φ 380
65 80	VP6	1245	—	480	384	Φ 380
	HA3D、R	680	967	363	278.5	175
	HA4D、R	840	1238	520	303	φ 320
	HA4×2D、R	1718	—	520	310	φ 320
	VA6R	1225	—	480	384	φ 380
	VP5	1150	—	382	324	Φ 380
	VP6	1275	—	480	384	Φ 380
VP7	1285	—	580	384	Φ 380	

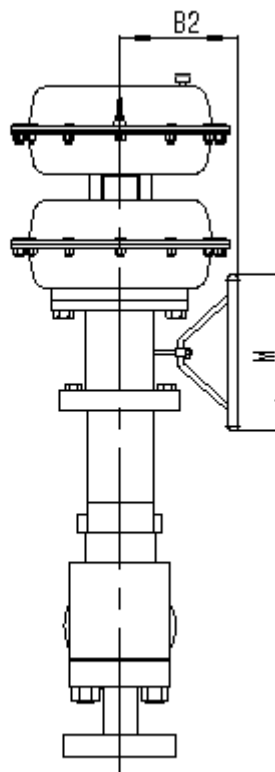
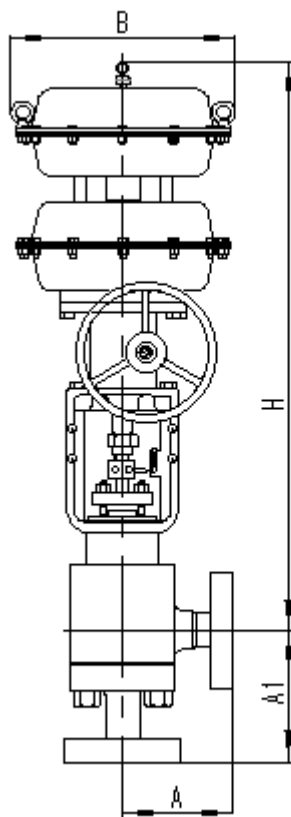
100	HA4D、R	850	1248	520	303	φ 320
	HA4×2D、R	1728	—	520	310	φ 320
	VA6R	1215	—	480	384	φ 380
	VP5	1160	—	382	324	Φ 380
	VP6	1295	—	480	384	Φ 380
	VP7	1305	—	580	384	Φ 380
125	HA4D、R	880	1278	520	303	φ 320
	HA4×2D、R	1758	—	520	310	φ 320
	VA6R	1245	—	480	384	φ 380
	VP5	1190	—	382	315	Φ 380
	VP6	1325	—	480	384	Φ 380
	VP7	1335	—	580	384	Φ 380

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。

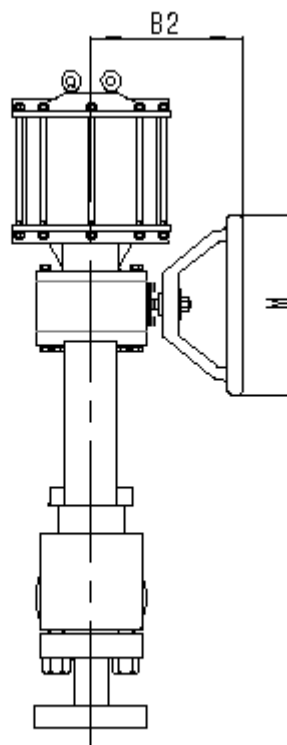
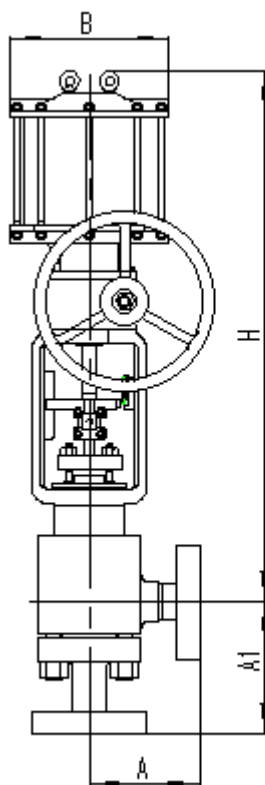
Note: The size of H in Table 5-2-2 shows the height of the valve and pneumatic actuator (with handwheel) combined



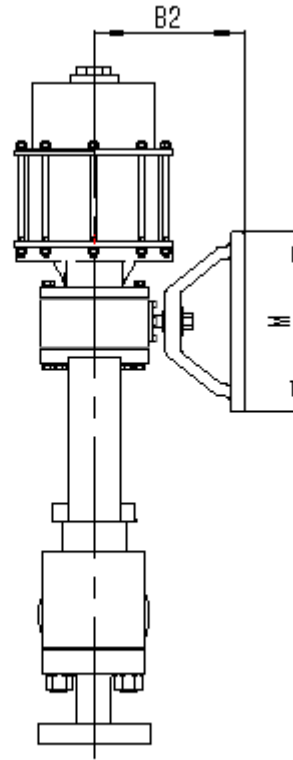
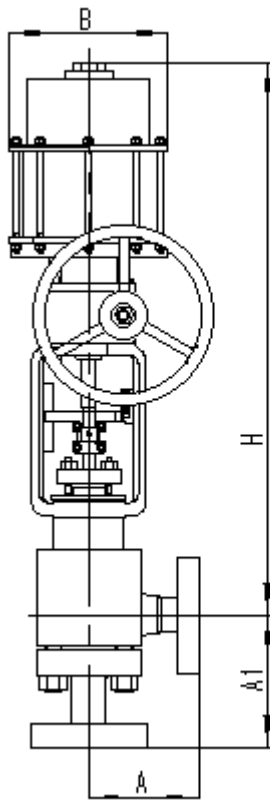
配 HA 执行机构
With type HA



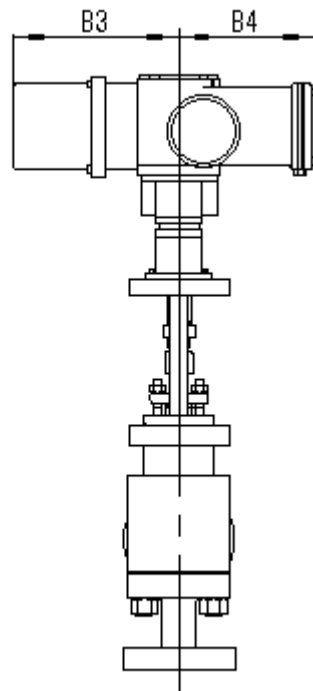
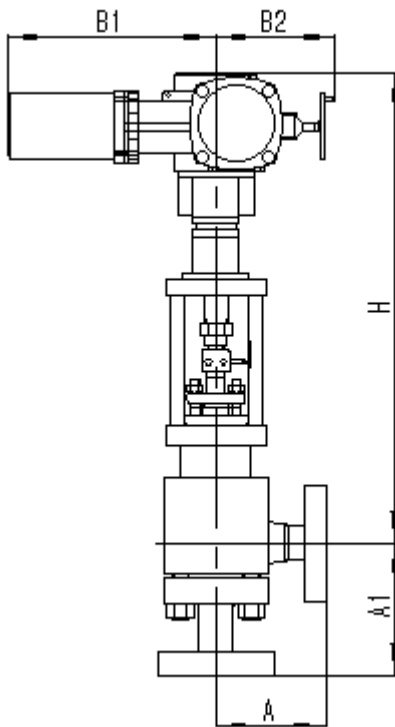
配 HA4X2 执行机构
With type HA4X2



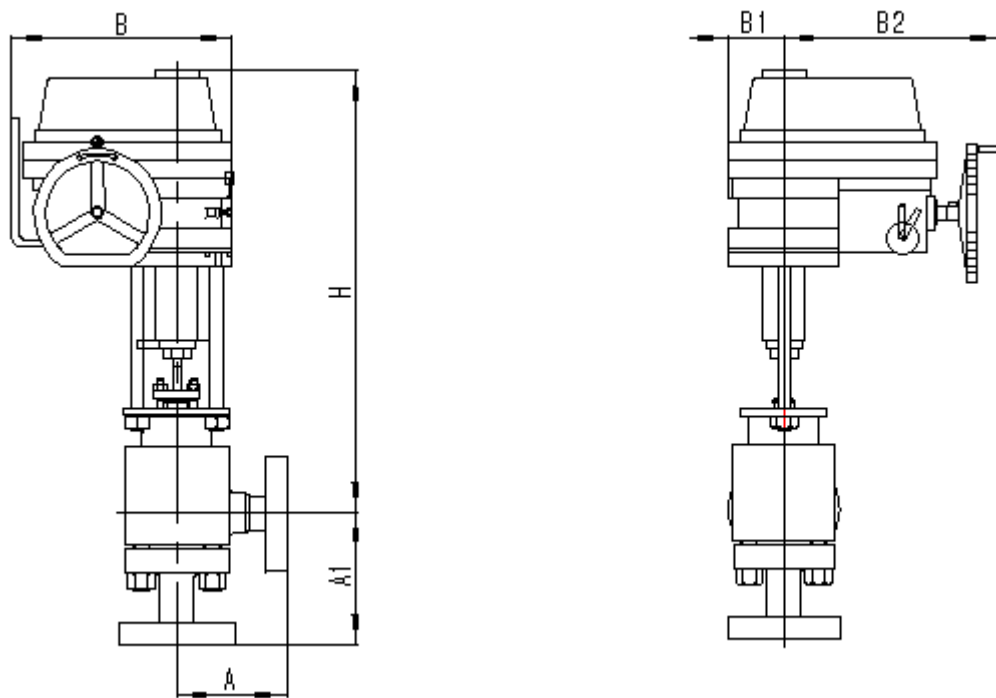
配 VP 执行机构
With type VP



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