



HCP-10 平衡笼式单座调节阀

HCP-10 Balanced Cage Single-Seat Control Valve

HCP-10^[1]平衡笼式单座调节阀，包含 HCP-10000 直通型调节阀和 HCP-10100 角型调节阀，该阀在阀塞或套筒上使用了高性能的密封环。阀体结构紧凑，设有一个改善套筒周围流体平衡流动的导流翼，使其压降损失小，流量大，可调范围广，流量特性精度高，符合 IEC60534-2-1-2011 标准。调节阀动态稳定性好，噪音低，空化腐蚀小。调节阀泄漏量符合 ANSI FCI 70-2-2013 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。

HCP-10^[1] Balanced Cage Single-Seat Control Valve, adopts high-performance sealing ring on the valve plug or sleeve, including HCP-10000 straight-through control valve and HCP-10100 horn shape control valve. The valve body is compact in structure and equipped with a guide wing to improve the balanced flow of the fluid around the sleeve, making it has small pressure drop loss, large flow rate, wide regulating range and high accuracy of flow characteristics, which conforms to standard IEC60534-2-1-2011. The control valve has good dynamic stability, low noise and small cavitation corrosion. The leakage of this series of control valves meets the standard ANSI FCI 70-2-2013. The control valve is equipped with multi-spring diaphragm or cylinder actuator, which has compact structure and large output force.

HCP-10 型调节阀适用于控制各种高温、低温的高压流体。

HCP-10 control valve is suitable for controlling multiple high-pressure fluids with high temperature and low temperature.

产品符合 GB/T4213-2008 标准。

The product meets the standard GB/T4213-2008.

标准规格

Standard Specifications

阀体

Valve Body

形 式 Type	直通单座铸造球型阀 Straight-through single-seat casting ball valve
公称通径 Nominal diameter	32、40、50、65、80、100、125、150、200、250、300、350、400、450、500、600mm
公称压力 Nominal pressure	Class 150、300、600、900、1500、2500； PN16、20、25、40、50、63、100、110、150、160、220、250、260、320、420
连接型式 Connection type	法兰型：FF、RF、RJ、TG、MFM Flange type:FF, RF, RJ, TG,MFM 焊接型 Class150~Class600，PN16~PN110：SW（32~50mm）；BW（65~600mm） Welded type: Class150~Class600, PN16~PN110: SW（32~50mm）；BW（65~600mm） 焊接型 Class900/1500/2500，PN150~PN420：SW（40~80mm）；BW（80~600mm） Welded type: Class900/1500/2500, PN150~PN420: SW（40~80mm）；BW（80~600mm） 法兰标准：JIS B2201、JB/T79.1(PN16)；JB/T79.2 (PN40、PN63)；ASME B16.5；HG20592、

	HG20615 Flange standard: JIS B2201, JB/T79.1(PN16); JB/T79.2 (PN40, PN63); ASME B16.5; HG20592, HG20615
尺寸 Dimensions	请参见表 5 Refer to Table 5
阀体及上阀盖 材质 Material of valve body and upper bonnet	WCB、WC6、CF8、CF8M、CF3M、Ti 及其他合金 WCB, WC6, CF8, CF8M, CF3M, Ti and other alloys. 各种材质的使用温度·压力范围, 请参见表 1 和表 2 See Table 1 and Table 2 for the use temperature and pressure ranges of different materials.
上阀盖型式 Type of upper bonnet	常温型 (P): $-17\sim+250^{\circ}\text{C}$ Normal temperature type (P): $-17\sim+250^{\circ}\text{C}$ 伸长 I 型 (EI): $-45\sim-17^{\circ}\text{C}$ and $+250\sim+566^{\circ}\text{C}$ Extension type I (EI): $-45\sim-17^{\circ}\text{C}$ and $+250\sim+566^{\circ}\text{C}$ 伸长 II 型 (EII): $-100\sim-45^{\circ}\text{C}$ and $+566\sim+650^{\circ}\text{C}$; Extension type II (EII): $-100\sim-45^{\circ}\text{C}$ and $+566\sim+650^{\circ}\text{C}$; 注: 工作温度不准超过各种材料的允许范围。 Note: The working temperature shall not exceed the allowable range of materials.
压盖型式 Type of gland	螺栓压紧式 Bolt-down type
填料 Packing	V 型聚四氟乙烯填料、石墨填料请参见图 2 Refer to Figure 2 for V-type PTFE packing and graphite packing.
垫片 Washer	锯齿型 (316L)、缠绕型 (316L+四氟/石墨) Toothed lock type (stainless steel (316L), wound type (316L+PTFE/graphite)
表面涂层 Coating	深灰色 (环氧树脂)。但是阀体材质为不锈钢时, 本体部不加涂层。 Dark gray (epoxy resin). If the valve body is made of stainless steel, the body is not coated.

注[1]:HCP-10 对应旧型号 HCP;

Note [1]:HCP-10 corresponds to the former model HCP;

阀内组件

Valve Subassembly

阀芯型式 Valve spool type	带组合密封圈或活塞环的压力平衡式阀芯 Pressure balanced valve spool with combined sealing ring or piston ring
阀内件材质及阀 内 件 处 理	标准材质组合及使用温度·压力范围, 请参见表 1 及图 1 Refer to Table 1 and Figure 1 for standard material combination and use temperature and pressure range.

Material of valve inner parts and treatment of valve inner parts	
流量特性 Flow characteristics	高容量流量特性、快开特性（ON/OFF），参见图 4-1 See Figure 4-1 for high capacity flow characteristics and quick opening flow characteristics (ON/OFF). ● 等百分比特性（%F）和线性特性（LF）&快开特性（ON/OFF） ● Equal percentage flow characteristic (%F) and linear flow characteristic (LF)& quick opening flow characteristic (ON/OFF) 高精度流量特性，参见图 4-2 See Figure 4-2 for high-precision flow characteristics ● 等百分比特性（%）和线性特性（L） ● Equal percentage characteristic (%) and linear characteristic (L) 注：关于司太莱堆焊的适用范围，请参见图 1 Note: Refer to Figure 1 for the scope of application of stellite surfacing.

执行机构

Actuator

Model 规格 Specifications	型 号	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	HV	EIL	M8 系列 Series M8
		多弹簧型 Multi-spring type	单/双作用活塞式 Single-acting/double-act ing piston		
用途 Purpose		调节 Adjustment	调节 Adjustment	调节 Adjustment	
供气压力或供给电压 Air supply pressure or supply voltage		供气压力（弹簧范围） Air supply pressure (spring range) 400（80～240）kPa	供气压力 Air supply pressure 400～700kPa	电压：220 /380V 50HZ Voltage: 220 /380V 50HZ 输入信号：4~20mA DC Input signal: 4~20mA DC	
接口 Interface		空气配管： Air supply pipe: NPT 1/4（HA11~HA41）； NPT 1/2（HA51）	空气配管： Air supply pipe: NPT 1/4（HV21~31）； NPT 3/8（HV41~51）； NPT 1/2（HV61~71）； NPT 3/4（HV81）	配线:2-PF3/4 Wiring: 2-PF3/4	配线：PG13.5 Wiring: PG13.5
正作用 Direct acting		气压增加阀闭 Air pressure increasing valve closing	气压增加阀闭 Air pressure increasing valve closing	输入信号阀闭 Input signal valve closing	
反作用 Reverse acting		气压增加阀开 Air pressure increasing valve opening	气压增加阀开 Air pressure increasing valve opening	输入信号阀开 Input signal valve opening	
基本误差 Basic error		±1.5%		±1.5%	
回差		1.5%		1.5%	

Return difference				
环境温度 Ambient temperature	标准型: -30~+70°C Standard type: -30~+70°C 高温型: -15~+120°C High temperature type: -15~+120°C 低温型: -40~+70°C Low temperature type: -40~+70°C	标准型: -20~+80°C Standard type: -20~+80°C 高温型: -15~+120°C High temperature type: -15~+120°C 低温型: -40~+80°C Low temperature type: -40~+80°C	-20~+70°C	-25~+70°C
油漆颜色 Paint color	水蓝色 (色标 RAL5021) Aqua blue (color code RAL5021)	水蓝色色标(RAL5021) Aqua blue (color code RAL5021)	—	—
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 Locator, air filter pressure reducer, lock-up valve, valve conveyor, handwheel mechanism, etc.	定位器、空气过滤减压阀、保位阀、阀传送器、手轮机构等 Locator, air filter pressure reducer, lock-up valve, valve conveyor, handwheel mechanism, etc.	EIL 执行机构手轮 EIL actuator handwheel	M8 执行机构手轮 M8 actuator handwheel

性能

Performance

CV 值及行程 CV value and stroke	请参见表 3 Refer to Table 3
阀座泄漏量 Valve seat leakage	请参见表 1 Refer to Table 1
可调范围 Adjustable range	50:1
允许压差 Allowable pressure difference	请参见表 4 Refer to Table 4
产品重量 Product weight	请参见表 5 Refer to 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

Table1 Material Combination and Service Temperature of Valve Body and Inner Parts•Allowable Leakage of Valve Seat

- R.TFE: 强化聚四氟乙烯
- R.TFE: Reinforced polytetrafluoroethylene
- HT : 热处理
- HT: Heat Treatment
- ST : 堆焊司太莱合金
- ST: Stellite Surfacing
- SS : 部分堆焊司太莱合金
- SS: Stellite Partial-Surfacing
- SF : 全部堆焊司太莱合金
- SF: Stellite Full-Surfacing

表 1-1 阀体材质：碳钢

Table 1-1 Valve Body Material: Carbon Steel

阀体材质 Body material		WCB, WC6, LCB			
套筒 Cage	材质 Material	630			
	处理 Processing	HT			
阀芯 Valve spool	材质 Material	410			
	处理 Processing	HT			
阀座 Valve seat	材质 Material	316+R.TFE	PEEK	630	630
	处理 Processing	—	—	HT	HT
平衡密封环 Balanced sealing ring	材质 Material	R.TFE	R.TFE	R.TFE	Inconel 750
	垫环 Backing ring	316	316	316	—
垫圈 Washer	材质 Material	316L	316L	316L	316L
阀座允许泄漏量 Allowable leakage of valve seat		Class V/VI	Rated Cv×0.01%	Class IV	Class IV
使用温度℃ Use temperature ℃	WCB	-29~+250	-29~+250		-29~+425
	WC6	-29~+250	-29~+250		-29~+595
	LCB	-45~+250	-45~+250		-45~+345

表 1-2 阀体材质：不锈钢

Table 1-2 Valve Body Material: Stainless Steel

阀体材质 Body material		CF8, CF8M, CF3M			
套筒 Cage	材质 Material	304/316/316L			
	处理 Processing	—			
阀芯 Valve spool	材质 Material	304/316/316L	304/316/316L	304/316/316L	304/316/316L
	处理 Processing	—	—	ST	ST
阀座 Valve seat	材质 Material	304/316/316L +R.TFE	304/316/316L +PEEK	304/316/316L	304/316/316L
	处理 Processing	—	—	ST	ST
平衡密封环 Balanced sealing ring	材质 Material	R.TFE	R.TFE	R.TFE	Inconel 750
	垫环 Backing ring	316/哈氏 C (Hastelloy C)	316/哈氏 C (Hastelloy C)	316/哈氏 C (Hastelloy C)	—
垫圈 Washer	材质 Material	316L	316L	316L	316L
阀座允许泄漏量 Allowable leakage of valve seat		Class V/VI	额定 Cv×0.01%	Class IV	Class IV
使用温度 (°C) Use temperature (°C)		-75~+250	-75~+250	-75~+250	-100~+650

注：流体温度在-75℃以下，平衡密封环的材质：Fluoroloy G；垫环：Elgiloy。

Note: When the fluid temperature is below -75℃, the material of the balance sealing ring: Fluoroloy G; Backing ring: Elgiloy.

表 2 阀体材质使用温度•压力范围

Table 2 Use Temperature and Pressure Range of Valve Body Materials

表 2-1

单位:MPa

Table 2-1 Class

Unit: MPa

温度 °C Temper ature (°C)	Class150					Class300					Class600				
	LCB	WCB A105	WC6 F11	F304 CF8	F316 CF8M	LCB	WCB A105	WC6 F11	F304 CF8	F316 CF8M	LCB	WCB A105	WC6 F11	F304 CF8	F316 CF8M
-196~38	—	—	—	1.90	1.90	—	—	—	4.95	4.95	—	—	—	9.91	9.92
-45~38	1.84	—	—	1.90	1.90	4.78	—	—	4.95	4.95	9.57	—	—	9.91	9.92
-5~38	1.84	1.96	1.99	1.90	1.90	4.78	5.10	5.16	4.95	4.95	9.57	10.2	10.32	9.91	9.92
50	1.81	1.92	1.92	1.84	1.84	4.72	5.00	5.16	4.77	4.80	9.46	10.1	10.32	9.56	9.62
100	1.72	1.76	1.76	1.56	1.61	4.51	4.63	5.14	4.08	4.21	9.02	9.27	10.29	8.17	8.43
150	1.57	1.57	1.57	1.39	1.47	4.40	4.51	5.01	3.62	3.85	8.78	9.04	10.03	7.26	7.69
200	1.40	1.40	1.40	1.25	1.37	4.26	4.38	4.88	3.27	3.56	8.54	8.75	9.75	6.54	7.12

250	1.20	1.20	1.20	1.16	1.20	4.05	4.16	4.62	3.04	3.34	8.11	8.33	9.26	6.10	6.67
300	1.01	1.01	1.01	1.01	1.01	3.76	3.87	4.23	2.91	3.15	7.54	7.74	8.48	5.80	6.32
350	0.84	0.84	0.84	0.84	0.84	3.59	3.69	4.01	2.81	3.03	7.18	7.38	8.04	5.60	6.07
375	—	0.73	0.73	0.73	0.73	—	3.64	3.88	2.77	2.96	—	7.28	7.75	5.54	5.93
400	—	0.64	0.64	0.64	0.64	—	3.44	3.65	2.74	2.91	—	6.89	7.31	5.48	5.81
425	—	0.55	0.55	0.55	0.55	—	2.88	3.44	2.71	2.87	—	5.74	6.91	5.42	5.72
450	—	0.47	0.47	0.47	0.47	—	1.99	3.08	2.68	2.81	—	4.00	6.17	5.37	5.61
475	—	0.37	0.37	0.37	0.37	—	1.35	2.58	2.65	2.73	—	2.70	5.17	5.30	5.46
500	—	0.28	0.28	0.28	0.28	—	0.88	2.02	2.60	2.67	—	1.75	4.04	5.20	5.37
525	—	0.18	0.18	0.18	0.18	—	0.51	1.53	2.19	2.57	—	1.03	3.07	4.77	5.15
550	—	—	—	—	—	—	—	1.20	2.00	2.40	—	—	2.40	4.00	4.60
566	—	—	—	—	—	—	—	1.00	1.90	2.20	—	—	2.00	3.80	4.50

单位:Mpa

Unit:

MPa

温度℃ Temperature (°C)	Class900					Class1500					Class2500				
	LCB	WC B A105	WC 6 F11	F30 4 CF8	F316 CF8 M	LCB	WC B A105	WC 6 F11	F30 4 CF8	F316 CF8 M	LCB	WC B A105	WC 6 F11	F30 4 CF8	F316 CF8 M
-196~38	—	—	—	14.8 8	14.88	—	—	—	24.7 9	24.79	—	—	—	41.3 4	41.34
-45~38	14.3 5	—	—	14.8 8	14.88	23.9 2	—	—	24.7 9	24.79	39.8 7	—	—	41.3 4	41.34
-5~38	14.3 5	15.3 1	15.5 0	14.8 8	14.88	23.9 2	25.5 1	25.8 4	24.7 9	24.79	39.8 7	42.5 2	43.0 7	41.3 4	41.34
50	14.1 8	15.0 1	15.3 3	14.3 4	14.43	23.6 4	25.0 2	25.5 5	23.9 0	24.04	39.4 0	41.7 0	42.5 9	39.8 4	40.07
100	13.5 2	13.9 0	14.6 2	12.2 5	12.65	22.5 3	23.1 6	24.3 6	20.4 2	21.09	37.5 6	38.6 2	40.6 1	34.0 1	35.14
150	13.1 8	13.5 6	13.9 0	10.8 9	11.54	21.9 6	22.6 0	23.1 8	18.1 6	19.24	36.6 0	37.6 6	38.6 1	30.2 6	32.07
200	12.7 9	13.1 4	13.6 3	9.82	10.69	21.3 2	21.8 9	22.7 3	16.3 7	17.83	35.5 3	36.5 0	37.8 8	27.2 8	29.71
250	12.1 7	12.5 1	13.3 3	9.15	10.02	20.2 8	20.8 4	22.2 2	15.2 6	16.68	33.8 0	34.7 5	37.0 3	25.4 3	27.80
300	11.3 0	11.6 1	12.7 2	8.71	9.49	18.8 4	19.3 6	21.2 0	14.5 2	15.80	31.4 0	32.2 6	35.3 3	24.2 0	26.34
350	10.7 8	11.0 8	12.0 6	8.42	9.12	17.9 6	18.4 6	20.1 1	14.0 2	15.20	29.9 5	30.7 8	33.5 1	23.3 6	25.36
375	—	10.9 4	11.6 3	8.32	8.91	—	18.2 2	19.3 8	13.8 6	14.84	—	30.3 7	32.3 2	23.1 2	24.74
400	—	10.3 4	10.9 8	8.23	8.72	—	17.2 4	18.2 8	13.7 2	14.55	—	28.7 3	30.4 7	22.8 7	24.25
425	—	8.62	10.5 3	8.14	8.59	—	14.3 7	17.5 4	13.5 7	14.32	—	23.9 4	29.2 3	22.6 3	23.87
450	—	6.01	10.1 3	8.06	8.42	—	10.0 2	16.8 9	13.4 2	14.03	—	16.6 8	28.1 6	22.3 7	22.79
475	—	4.06	9.50	7.97	8.20	—	6.76	15.8 2	13.2 7	13.67	—	11.2 8	26.3 6	22.1 3	22.34
500	—	—	8.33	7.81	8.05	—	—	13.8 9	13.0 2	13.40	—	—	23.1 5	21.7 1	21.47
525	—	—	6.08	7.15	7.73	—	—	10.1 2	11.9 4	12.89	—	—	16.8 8	19.8 8	20.79
550	—	—	3.83	6.54	7.49	—	—	6.38	10.9 1	12.48	—	—	10.6 3	18.1 7	17.85
575	—	—	2.55	6.02	7.22	—	—	4.24	10.0 4	12.04	—	—	7.08	16.7 2	15.20

600	—	—	1.75	5.01	6.43	—	—	2.94	8.35	10.71	—	—	7.90	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

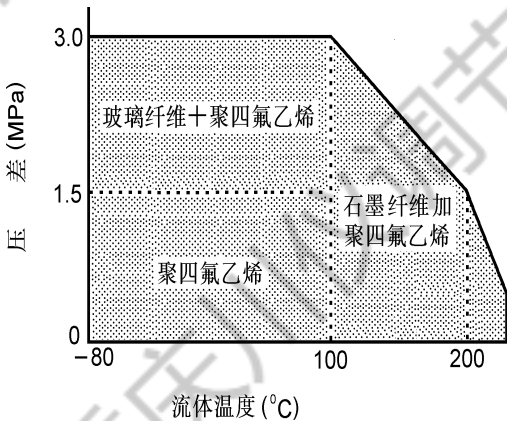
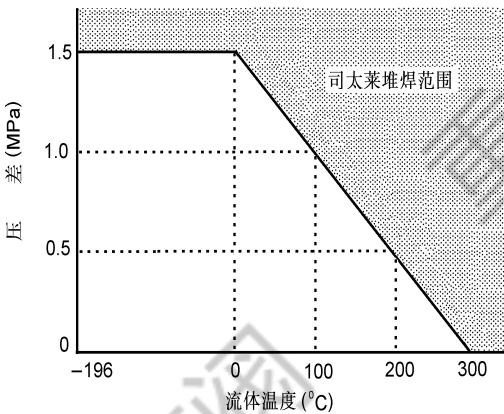
表 2-2 JB/T79-94 或 HG20592-2009 UNIT:MPa

Table 2-2 JB/T79-94 or HG20592-2009 UNIT:MPa

温度℃ Temperature (°C)	PN16	PN40	PN63	PN100	温度℃ Temperature (°C)	PN16	PN40	PN63	PN100
WCB					CF8				
-5～200	1.60	4.00	6.30	10.0	-45～200	1.60	4.00	6.30	10.0
～250	1.40	3.50	5.40	9.00	～300	1.40	3.50	5.40	9.00
～300	1.20	3.00	4.80	7.50	～400	1.20	3.00	4.80	7.50
～350	1.10	2.60	4.00	6.60	～480	1.10	2.60	4.00	6.60
～400	0.90	2.30	3.70	5.80	～520	0.90	2.30	3.70	5.80
～425	0.80	2.00	3.20	5.00	～560	0.80	2.00	3.20	5.00
～435	0.70	1.80	2.80	4.50					
～445	0.62	1.60	2.50	4.20					
～455	0.57	1.40	2.30	3.60					

图 1 阀内件材质·处理

Figure 1 Material·Processing of Valve Inner Parts



压差	Pressure difference
司太莱堆焊范围	Stellite surfacing range
流体温度	Liquid temperature
玻璃纤维+聚四氟乙烯	Glass fiber PTFE
石墨纤维加聚四氟乙烯	Graphite fiber + PTFE
聚四氟乙烯	PTFE

图 1-1 司太莱的工作范围图

1-2 软阀座的工作温度和压差的范围

Figure 1-1 Working Range of Stellite

Figure 1-2 Working Temperature and Pressure Difference range of Soft Valve Seat

注： 1. 630 不锈钢不需堆焊。

Note: 1. 630 stainless steel does not need surfacing.
2. 空化、闪蒸、禁油场合，不管温度和压力多大，建议堆焊司太莱合金。
2. In the case of cavitation, flash, and oil prohibition, it is recommended to conduct Stellite surfacing no matter what the temperature and pressure are.

图 2 填料使用温度·压力范围
Figure 2 Use Temperature and Pressure Range of Packing

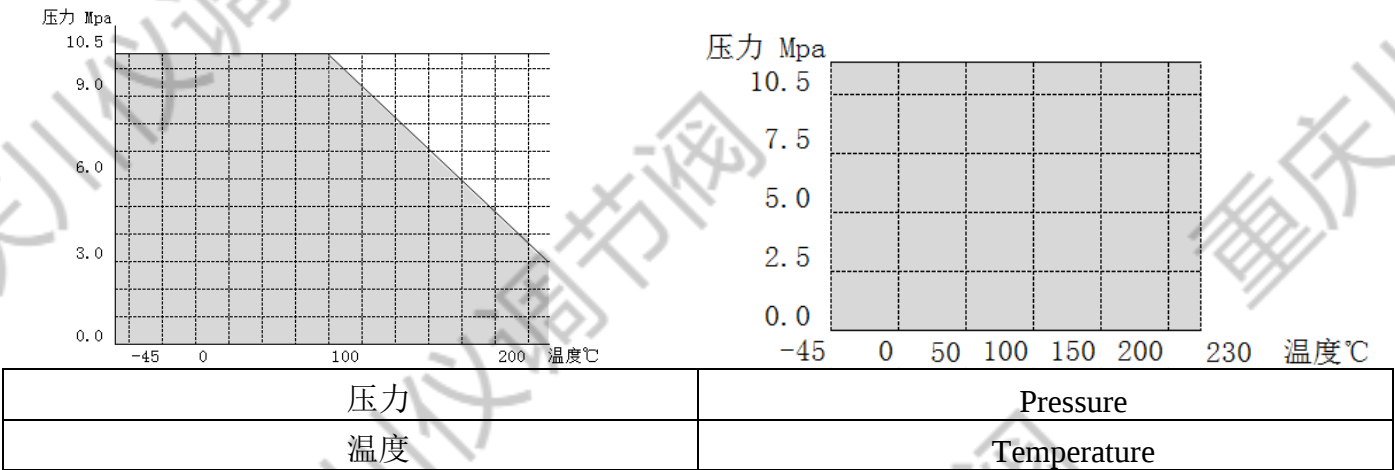


图 2-1 强化聚四氟乙烯 V 型填料
Figure 2-1 V-type R.TFE Packing

图 2-2 聚四氟乙烯碳纤维
Figure 2-2 PTFE Carbon Fiber

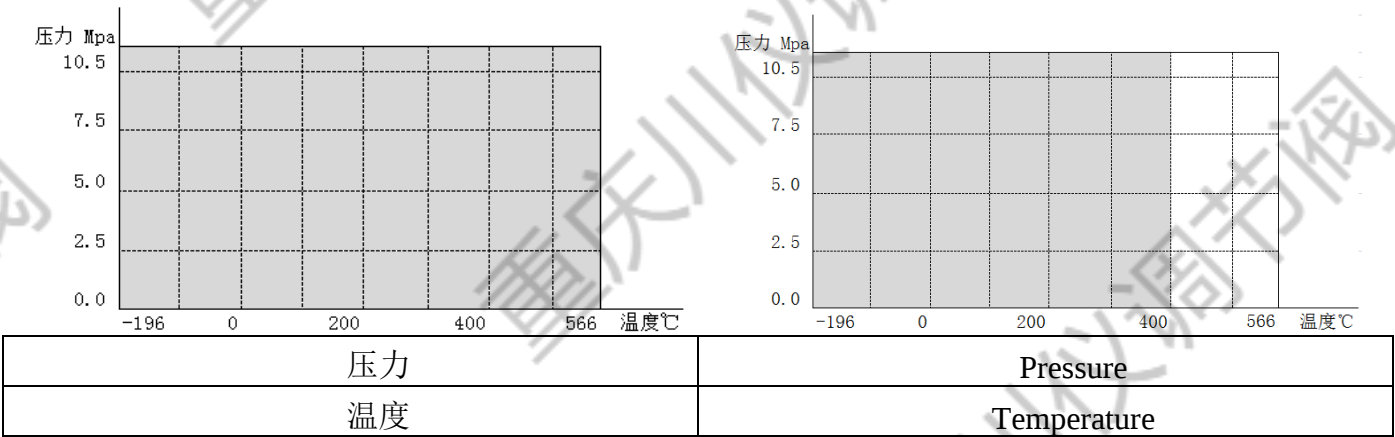
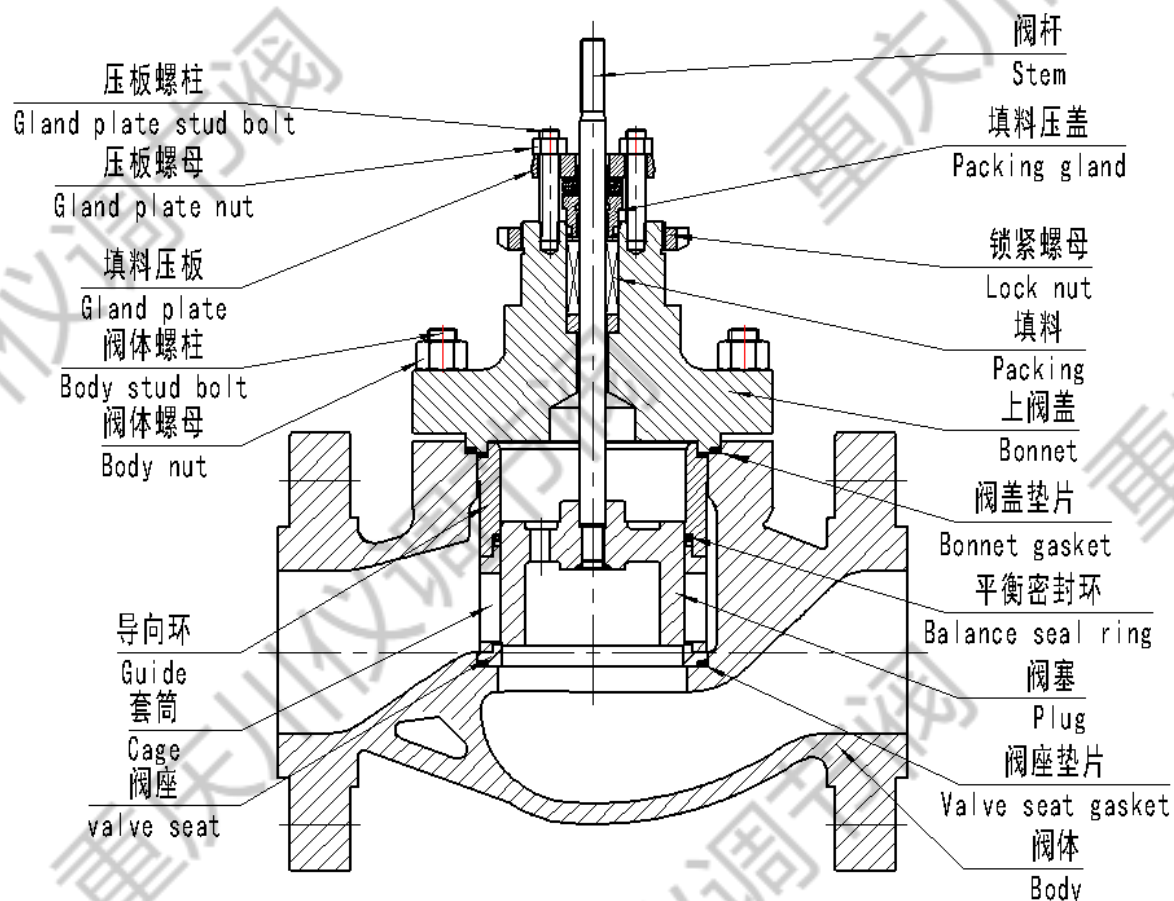


图 2-3 柔性石墨（非氧化环境）

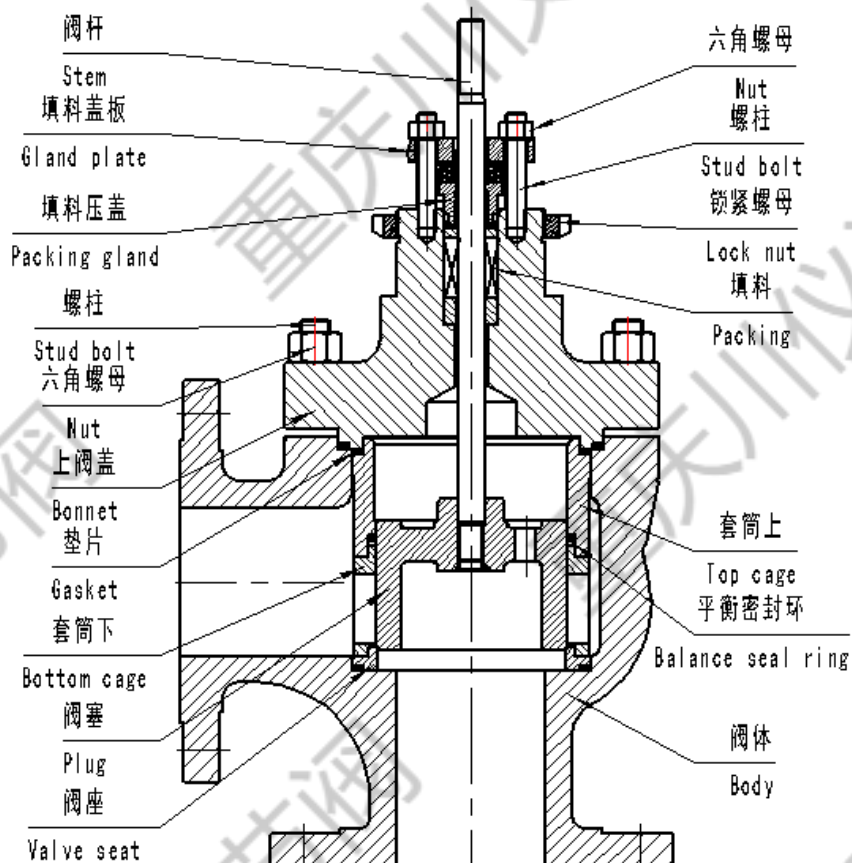
图 2-3 柔性石墨（氧化环境）

Figure 2-3 Expanded Graphite (Non-oxidizing Environment) Figure 2-3 Expanded Graphite (Oxidizing Environment)

图 3 阀体部件结构
Figure 3 Structure of Valve Body Parts



HCP-10000



HCP-10100

表 3 CV 值和行程

Table 3 CV Value and Stroke

表 3-1 高容量阀芯（%F,LF&ON/OFF）（Class150~600、PN16~110）

Table 3-1 High Capacity Spool (%F, LF&ON/OFF) (Class150~600, PN16~110)

公称通径 Nominal diameter		32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
阀座直径 Valve seat diameter		32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
额定 Cv 值 Rated Cv Value	等百分比%F Equal percentage % F	24	36	60	99	140	220	320	420	820	1260	1560	2120	2750	3300	4300	5500
	线性 LF &ON/OFF Linear LF &ON/OFF	26	40	75	110	150	240	360	450	850	1350	1560	2120	2750	3300	4650	6450
额定行程(mm) Rated stroke(mm)		25			38			50		75	100		120		150		200
额定 Cv 值 Rated Cv Value	等百分比%F Equal percentage %F	—			—			—		—	1350	1650	2250	2850	3600	4850	—
	线性 LF &ON/OFF Linear LF &ON/OFF	—			—			—		—	1400	1650	2250	2850	3800	5200	—
加大行程(mm) Extended stroke (mm)		—			—			—		—	120		150		200		—

表 3-2 高精度阀芯（%,L）（Class150~600、PN16~110）

Table 3-2 High-Precision Spool (% ,L) (Class150~600, PN16~110)

公称通径 Nominal diameter	32		40			50			65			80			100			125			150			200		
阀座直径 Valve seat diameter	32		40			50			65			80			100			125			150			200		
额定 Cv 值 Rated Cv Value	11	17	11	17	24	17	24	44	24	44	68	44	68	99	68	99	175	99	175	275	175	275	360	275	360	650
等百分比% Equal percentage%	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	
线性 L Linear L																										
额定行程(mm) Rated stroke(mm)	25							38							50							75				

公称通径 Nominal diameter	250	300	350	400	450	500	600		
阀座直径 Valve seat diameter	250	300	350	400	450	500	600		
等百分比% Equal percentage%	1050	1200	1700	1800	2500	3540	4180	4650	5850
线 性 L Linear L	1350	1560	2120	2750	3300	4650	5500	5850	6700
额定行程(mm) Rated stroke(mm)	100		120		150			200	280

注:符号△表示阀的规格范围。

Note: “△” indicates the specification range of the valve.

(JIS63K、Class900/1500、PN150~260)

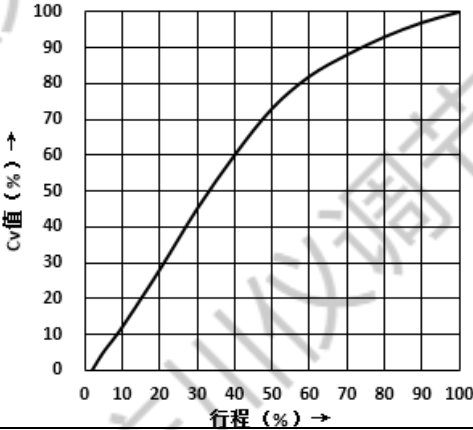
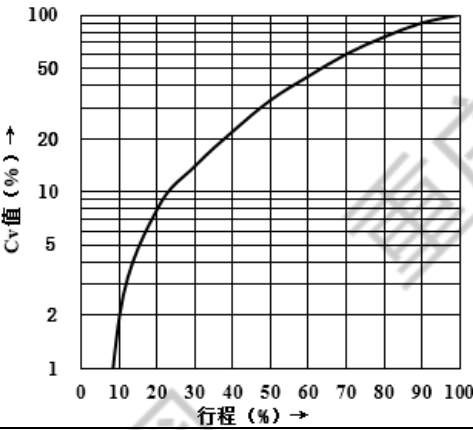
公称通径 Nominal diameter	32	40	50	65	80	100	125	150	200	250	300	350	400	450
阀座直径 Valve seat diameter	32	40	50	65	75	100	125	150	200	250	300	350	400	450
额定 等百分比% Cv 值 Equal percentage%	12	17	12	17	25	17	25	50	25	50	80	50	80	110
Rated Cv 线性 L Value Linear L	12	20	12	20	30	20	30	60	30	60	90	60	90	140
额定行程(mm) Rated stroke(mm)	25			38			50			75	100	150	175	

(Class2500、PN320~420)

公称通径 Nominal diameter	32	40	50	65	80	100	125	150	200
阀座直径 Valve seat diameter	32	40	50	55	55	85	125	130	150
额定 等百分比% Cv 值 Equal Percentage%	12	12	17	12	17	30	17	30	50
Rated Cv 线性 L Value Linear L	12	12	20	12	20	42	20	42	60
额定行程(mm) Rated stroke(mm)	25			38			50		

图 4 典型流量特性曲线

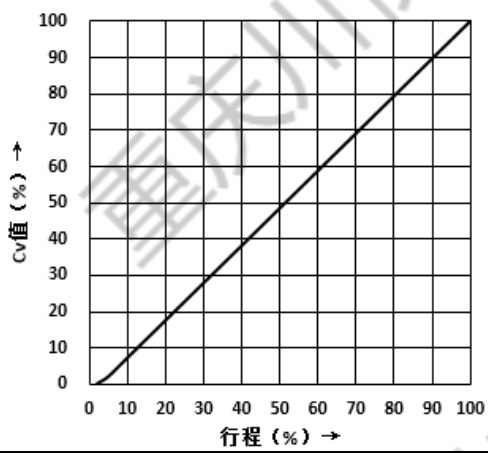
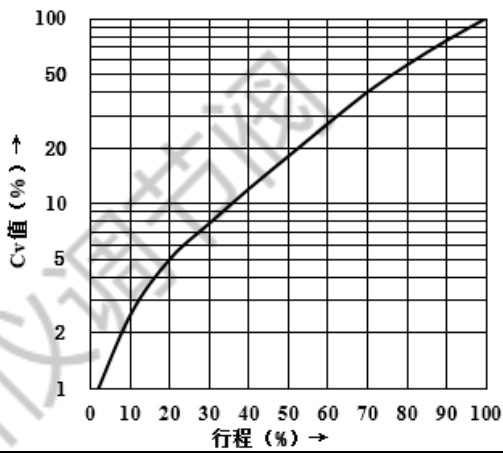
Figure 4 Typical Curve of Flow Characteristics



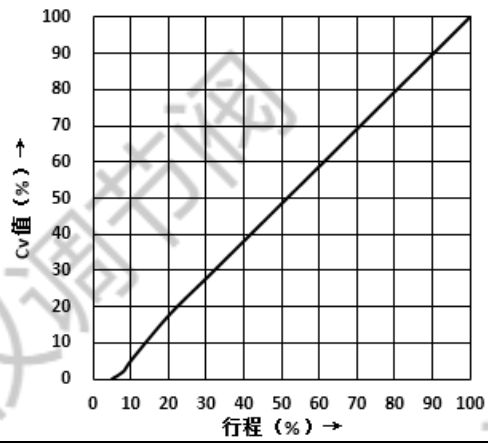
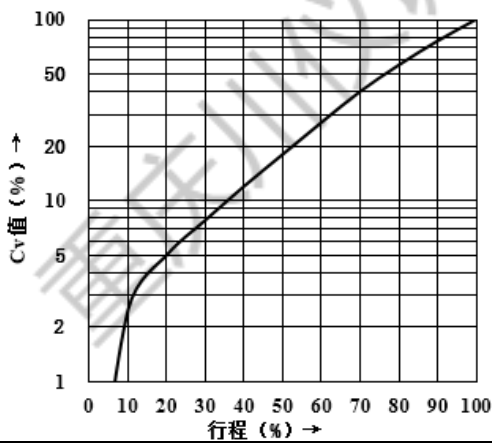
Cv 值	Cv value
行程	Stroke

等百分比特性 (%F) 线性特性 (LF)
Equal percentage flow characteristic (%F) Linear flow characteristic (LF)

图 4-1 高容量流量特性曲线
Figure 4-1 High Capacity Flow Characteristic Curve



Cv 值	Cv value
行程	Stroke
等百分比特性 (% 金属阀座) Equal percentage characteristics (%metal seat)	线性特性 (L 金属阀座) Linear characteristics (L metal seat)



Cv 值	Cv value
行程	Stroke
等百分比特性 (% 软阀座) Equal percentage characteristics (% soft valve seat)	线性特性 (L 软阀座) Linear characteristics (L soft valve seat)

4-2 高精度流量特性曲线

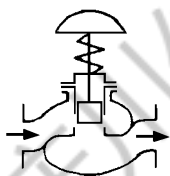
4-2 High-Precision Flow Characteristic Curve

Chongqing Chuanyi Control Valve Co., Ltd.

Table 4 Allowable Pressure Difference

Table 4-1 Diaphragm Type Actuator (HA)

Table 4-1-1 FO Valve 100kPa



公称压力 Nominal pressure	执行机构 Actuator	供气压力 Air supply pressure	弹簧范围 Spring range	阀座型式 Valve seat type	温度范围 Temperature range	允许压差 Allowable pressure difference											
						公称通径 Nominal diameter											
						32	40	50	65	80	100	125	150	200	250	300	
						阀座直径 (mm) Valve seat diameter (mm)											
						32	40	50	65	80	100	125	150	200	250	300	
Class150~Class600、 PN16~PN110	HA21D8	4.0	0.8~2.4	金属密封 Metal seal	P (常温) P (normal temperature)	100	100	100	—	—	—	—	—	—	—		
					EI (伸长型) EI (Extension type)	90	60	10	—	—	—	—	—	—	—		
				软密封 Soft seal	P (常温) P (normal temperature)	30	30	30	—	—	—	—	—	—	—		
	HA31D8	4.0	0.8~2.4	金属密封 Metal seal	P (常温) P (normal temperature)	—	—	—	100	100	100	—	—	—			
					EI (伸长型) EI (Extension type)	—	—	—	83.3	35	—	—	—	—	—		
				软密封 Soft seal	P (常温) P (normal temperature)	—	—	—	30	30	—	—	—	—	—		
	HA41D8	4.0	0.8~2.4	金属密封 Metal seal	P (常温) P (normal temperature)	—	—	—	100	100	100	100	100	80	—		
					EI (伸长型) EI (Extension type)	—	—	—	83.3	83.3	83.3	83.3	83.3	—	—	—	
				软密封 Soft seal	P (常温) P (normal temperature)	—	—	—	30	30	30	30	30	—	—	—	
	HA42D8	4.0	0.8~2.4	金属密封 Metal seal	P (常温) P (normal temperature)	—	—	—	—	—	—	—	—	100	—		
					EI (伸长型) EI	—	—	—	—	—	—	—	—	83.3	—	—	

[illegible]

公称压力 Nominal pressure	执行机构 Actuator	供气压力 Air supply pressure	弹簧范围 Spring range	阀座型式 Valve seat type	允许压差 Allowable pressure difference													
					公称通径 Nominal diameter													
					32	40	50	65	80	100	150	200	250	300	350	400	450	
					阀座直径 (mm) Valve seat diameter(mm)													
					32	40	50	65	80	100	150	200	250	300	350	400	450	
Class 900 Class 1500 PN150 ~260 JIS 63K	HA31D8	4.0	0.8~2.4	金属阀座 Metal valve seat	264	264	264	264	170	—	—	—	—	—	—	—	—	
	HA41D8	4.0	0.8~2.4	金属阀座 Metal valve seat	—	—	—	—	—	264	226	158	—	—	—	—	—	
	HA51D1	4.0	1.06~2.06	金属阀座 Metal valve seat	—	—	—	—	—	—	—	220	—	—	—	—	—	
	HA51D4	4.0	1.06~2.4	金属阀座 Metal valve seat	—	—	—	—	—	—	—	—	165	110	—	—	—	
	HV71SD5	5.0	-	金属阀座 Metal valve seat	—	—	—	—	—	—	—	—	—	—	70	—	—	
	HV81SD5	5.0	-	金属阀座 Metal valve seat	—	—	—	—	—	—	—	—	—	—	120	100	90	
Class 2500 PN320 ~420	HA31D8	4.0	0.8~2.4	金属阀座 Metal valve seat	440	440	423	381	170	—	—	—	—	—	—	—	—	
	HA41D8	4.0	0.8~2.4	金属阀座 Metal valve seat	440	440	440	440	440	440	263	226	—	—	—	—	—	
	HA51D1	4.0	1.06~2.06	金属阀座 Metal valve seat	—	—	—	—	—	—	—	250	—	—	—	—	—	

Table 4-1-2 FC Valve

100kPa

A schematic diagram of a hydraulic cylinder. It shows a central piston with a rectangular cross-section. Above the piston is a spring mechanism consisting of a coiled spring and a semi-circular cap. Two ports are shown on the sides of the cylinder, each with an arrow pointing outwards, indicating fluid flow. The entire assembly is enclosed in a rounded rectangular frame.

	HA51R2	5	1.6~3.1	金属密封 Metal seal	P (常温) P (normal temperature)	—	—	—	—	—	—	—	—	100	—	—
					EI (伸长型) EI (Extension type)	—	—	—	—	—	—	—	—	83.3	—	—
				软密封 Soft seal	P (常温) P (normal temperature)	—	—	—	—	—	—	—	—	30	—	—
	HA51R5	5	1.6~3.6	金属密封 Metal seal	P (常温) P (normal temperature)	—	—	—	—	—	—	—	—	—	100	100
					EI (伸长型) EI (Extension type)	—	—	—	—	—	—	—	—	—	83.3	83.3
				软密封 Soft seal	P (常温) P (normal temperature)	—	—	—	—	—	—	—	—	—	30	30

公称压力 Nominal pressure	执行机构 Actuator	供气压力 Air supply pressure	弹簧范围 Spring range	阀座型式 Valve seat type	允许压差 Allowable pressure difference													
					公称通径 Nominal diameter													
					32	40	50	65	80	100	150	200	250	300	350	400	450	
					阀座直径(mm) Valve seat diameter(mm)													
					32	40	50	65	80	100	150	200	250	300	350	400	450	
Class 900 Class 1500 PN150 ~ PN260	HA31R8	4.0	0.8~2.4	金属密封 Metal seal	264	264	190	113	113	—	—	—	—	—	—	—	—	
	HA41R8	4.0	0.8~2.4	金属密封 Metal seal	—	—	264	227	227	159	91	57	—	—	—	—	—	
	HA42R8	4.0	0.8~2.4	金属密封 Metal seal	—	—	—	—	—	—	181	114	—	—	—	—	—	
	HA51R3	5.5	2.12~4.12	金属密封 Metal seal	—	—	—	—	—	—	—	120	—	—	—	—	—	
	HV61SR5	5.0	1.9~3.0	金属密封 Metal seal						264	264	150	—	—	—	—	—	
	HV71SR5	5.0	1.9~3.0	金属密封 Metal seal	—	—	—	—	—	—	—	—	190	170	70			
	HV81SR5	5.0	1.9~3.0	金属密封 Metal seal	—	—	—	—	—	—	—	—	—	—	120	100	90	
Class 2500 PN320 ~ PN420	HA31R8	4.0	0.8~2.4	金属密封 Metal seal	264	264	190	169	169	99	45	—	—	—	—	—	—	
	HA41R8	4.0	0.8~2.4	金属密封 Metal seal	—	440	359	324	324	203	110	91	—	—	—	—	—	
	HV61SR5	5.0	1.9~3.0	金属密封 Metal seal	—	—	—	—	—	440	368	207	—	—	—	—	—	

表 4-2 气缸式执行机构 (HV 双作用)
Table 4-2 Cylinder Actuator (HV Double-acting)

100kPa
100kPa

公称压力 Nominal pressure	执行机构 Actuator	供气压力 Air supply pressure	阀座型式 Valve seat type	温度范围 Temperature range	允许压差 Allowable pressure difference										
					公称通径 Nominal diameter										
					100	125	150	200	250	300	350	400	450	500	600
					阀座直径(mm) Valve seat diameter(mm)										
					100	125	150	200	250	300	350	400	450	500	600
Class15 0~600、 PN16~ 110	HV41D00	5	金属密封 Metal seal	P（常温） P (normal temperature)	100	100	100	—	—	—	—	—	—	—	—
				EI（伸长型） EI (Extension type)	100	100	100	—	—	—	—	—	—	—	
			软密封 Soft seal	P（常温） P (normal temperature)	30	30	30	—	—	—	—	—	—	—	
	HV51D00	5	金属密封 Metal seal	P（常温） P (normal temperature)	—	—	—	100	68	62	—	—	—	—	
				EI（伸长型） EI (Extension type)	—	—	—	100	68	62	—	—	—	—	
			软密封 Soft seal	P（常温） P (normal temperature)	—	—	—	30	30	30	—	—	—	—	
	HV61D00	5	金属密封 Metal seal	P（常温） P (normal temperature)	—	—	—	—	100	100	88	—	—	—	
				EI（伸长型） EI (Extension type)	—	—	—	—	100	100	88	—	—	—	
			软密封 Soft seal	P（常温） P (normal temperature)	—	—	—	—	30	30	30	—	—	—	
	HV71D00	5	金属密封 Metal seal	P（常温） P (normal temperature)	—	—	—	—	100	100	100	100	100	—	—

Chongqing Chuanyi Control Valve Co., Ltd.

[illegible]

公称压力 Nominal pressure	执行机构 Actuator	公称通径 Nominal diameter	阀座直径 (mm) Valve diameter (mm)	阀座型式 Valve seat type	供气压力 Air supply pressure		
					3	4	5
Class 900 Class 1500 PN150~PN260	HV51D00	150	150	金属密封 Metal seal	198	264	264
Class 2500 PN320~420					242	264	264
					198	264	330
					281	289	440
Class 900 Class 1500 PN150~PN260	HV61D00	200	200	金属密封 Metal seal	191	255	264
Class 2500 PN320~420					264	264	264
					192	255	319
					440	440	440
Class 900 Class 1500 PN150~PN260	HV71D00	250	250	金属密封 Metal seal	260	260	260
		300	300	金属密封 Metal seal	260	260	260
	HV81D00	350	350	金属密封 Metal seal	250	260	260
		400	400	金属密封 Metal seal	240	260	260
		450	450	金属密封 Metal seal	220	260	260

注：最大允许压差不准超过 ASME B16.34 或 JIS B2201 标准规定的最大工作压力。

Note: The maximum allowable pressure difference shall not exceed the maximum working pressure specified in standard ASME B16.34 or JIS B220.

表 4-3 电子式执行机构 (EIL) 及电动式执行机构 (M8)

Table 4-3 Electronic Actuator (EIL) and Electric Actuator (M8)

100kPa																	
公称压力 Nominal pressure	执行机构 Actuator	阀座型式 Valve seat type	温度范围 Temperature range	允许压差 Allowable pressure difference													
				公称通径 Nominal diameter													
				32	40	50	65	80	100	125	150	200	250	300	350	400	450
				阀座直径(mm) Valve seat diameter(mm)													
				32	40	50	65	80	100	125	150	200	250	300	350	400	450
Class150~600、 PN16~110	EIL04	金属密封 Metal seal	P（常温） P (normal temperature)	100	100	100	—	—	—	—	—	—	—	—	—	—	—
			EI（伸长型） EI (Extension type)	83.3	83.3	83.3	—	—	—	—	—	—	—	—	—	—	
		软密封 Soft seal	P（常温） P (normal temperature)	30	30	30	—	—	—	—	—	—	—	—	—	—	
			EIL08 M8610+L8210	金属密封 Metal seal	P（常温） P (normal temperature)	—	—	—	100	100	100	—	—	—	—	—	—

100kPa

Chongqing Chuanyi Control Valve Co., Ltd.

Shanghai Chaoyi Control Valve Co., Ltd.																	
1		EI (伸长型) EI (Extension type)	—	—	—	83.3	83.3	83.3	—	—	—	—	—	—	—	—	—
			软密封 Soft seal	P (常温) P (normal temperature)	—	—	—	30	30	30	—	—	—	—	—	—	—
		EIL12		金属密封 Metal seal	P (常温) P (normal temperature)	—	—	—	—	—	—	98.3	88.8	—	—	—	—
	EI (伸长型) EI (Extension type)		—		—	—	—	—	—	83.3	—	—	—	—	—	—	—
	软密封 Soft seal		P (常温) P (normal temperature)	—	—	—	—	—	—	30	30	—	—	—	—	—	—
			EIL20 M8620+L8220	金属密封 Metal seal	P (常温) P (normal temperature)	—	—	—	—	—	—	—	100	—	—	—	—
	EI (伸长型) EI (Extension type)				—	—	—	—	—	—	83.3	83.3	—	—	—	—	—
	软密封 Soft seal			P (常温) P (normal temperature)	—	—	—	—	—	—	—	—	30	—	—	—	—
		EIL25 M8620+L8230		金属密封 Metal seal	P (常温) P (normal temperature)	—	—	—	—	—	—	—	—	80	75	—	—
	EI (伸长型) EI (Extension type)		—		—	—	—	—	—	—	—	65	57	—	—	—	—
	软密封 Soft seal		P (常温) P (normal temperature)	—	—	—	—	—	—	—	—	—	30	30	—	—	—
			M8630+L8240	金属密封 Metal seal	P (常温) P (normal temperature)	—	—	—	—	—	—	—	—	100	100	88	50
	EI (伸长型) EI (Extension type)				—	—	—	—	—	—	—	—	83.3	83.3	—	—	—

		软密封 Soft seal	P (常温) P (normal temperature)	—	—	—	—	—	—	—	—	—	—	30	30	30	30	30
--	--	------------------	----------------------------------	---	---	---	---	---	---	---	---	---	---	----	----	----	----	----

执行机构 Actuator	公称压力 Nominal pressure	阀座型式 Valve seat type	允许压差 Allowable pressure difference											
			公称通径 Nominal diameter											
			40	50	65	80	100	150	200	250	300	350	400	450
			阀座直径(mm) Valve seat diameter(mm)											
			40	50	65	80	100	150	200	250	300	350	400	450
EIL08 M8610+L8210	Class 900~ 1500 PN150~260 JIS63K	金属密封 Metal seal	260	260	—	—	—	—	—	—	—	—	—	
	Class 2500 PN320~420	金属密封 Metal seal	440	423	—	—	—	—	—	—	—	—	—	
EIL20 M8620+L8220	Class 900~ 1500 PN150~260 JIS63K	金属密封 Metal seal	—	—	260	260	260	195	—	—	—	—	—	
	Class 2500 PN320~420	金属密封 Metal seal	—	—	440	440	440	263	—	—	—	—	—	
EIL25 M8620+L8230	Class 900~ 1500 PN150~260 JIS63K	金属密封 Metal seal	—	—	—	—	—	—	157	124	92	—	—	
	Class 2500 PN320~420	金属密封 Metal seal	—	—	—	—	—	—	220	165	110	—	—	
M8630+L8240	Class 900~ 1500 PN150~260 JIS63K	金属密封 Metal seal	—	—	—	—	—	—	—	—	—	117	101	
	Class 2500 PN320~420	金属密封 Metal seal	—	—	—	—	—	—	—	—	—	190	170	

注：1.以上允许压差为阀全关时的允许压差。

Note: 1. The above allowable pressure difference is the allowable pressure difference when the valve is fully closed.

2. 灰框数字表示阀配用标准规格执行机构。

2. The numbers in the grey box refer to standard specifications of the actuator with valves.

表 5 尺寸

Table 5 Dimensions

表 5-1-1 法兰距尺寸

Table 5-1-1 Dimensions of Flange Distance

HCP-10000

mm

公称 通径 Nominal diameter	A							
	Class 150 RF JIS 10K FF RF PN16 RF	JIS 16K RF	Class 300 RF JIS 20K RF JIS 30K RF PN40 MFM	Class 600 RF JIS 40K RF PN63 MFM	JIS 16K TG	JIS 20K TG	JIS 30K TG	JIS 40K TG
32	190	—	205	210	—	—	—	—
40	222	231	235	251	235	236	248	251
50	254	263	267	286	265	267	276	286
65	276	288	292	311	290	292	303	311
80	298	313	317	337	310	317	326	337
100	352	364	368	394	360	368	379	394
125	403	—	425	457	—	425	—	457
150	451	465	473	508	475	473	486	508
200	543	560	568	610	570	568	580	610
250	673	—	708	752	—	—	—	—
300	737	—	775	819	—	—	—	—
350	889	—	927	972	—	—	—	—
400	1016	—	1057	1108	—	—	—	—
450	1140	—	1181	1239	—	—	—	—
500	1267	—	1397	1499	—	—	—	—
600	1556	—	1576	1676	—	—	—	—

mm

公称 通径 Nominal diameter	A						
	Class 150 RJ	Class 300 RJ	Class 600 RJ	Class 300 TG	Class 600 TG	Class 150 SW、BW	Class 150、 600 SW、 BW
32	235	248	251	244	248	251	251
40	235	248	251	244	248	251	251
50	267	283	289	276	283	286	286
65	289	308	314	302	308	311	311
80	311	333	340	327	333	337	337
100	365	384	397	378	391	394	394
150	464	489	511	483	505	473	508
200	556	584	613	578	606	568	610

mm

公称 通径 Nominal diameter	A						
	JIS63K	Class 900		Class 1500		Class 2500	
	RF	RF (SW, BW)	RJ	RF (SW, BW)	RJ	RF (SW, BW)	RJ
40	323	333	333	333	333	358	361
50	354	375	378	375	378	400	403
80	431	440	443	460	463	498	504
100	496	510	513	530	533	575	585
150	699	715	718	770	776	820	833
200	895	915	918	972	982	1020	1036
250	—	1137	1140	1327	1336	—	—
300	—	1311	1314	1400	1416	—	—
350	—	—	—	1526	1526	—	—
400	—	1520	1520	—	—	—	—
450	—	—	—	1720	1720	—	—

注：法兰距符合 IEC 60534-3 标准。

Note: Flange distance conforms to standard IEC 60534-3.

HCP-10100

mm

公称 通径 Nominal diameter	A/A1							
	Class 150 RF JIS 10K FF RF PN16 MFM	JIS 16K RF	Class 300 RF JIS 20K RF JIS 30K RF PN40 MFM	Class 600 RF JIS 40K RF PN63 MFM	JIS 16K TG	JIS 20K TG	JIS 30K TG	JIS 40K TG
32	111	116	118	133	118	118	124	126
40	111	116	118	133	118	118	124	126
50	127	132	134	150	133	134	138	143
65	138	144	146	165	145	146	152	156
80	149	157	159	170	155	159	163	169
100	176	182	184	206	180	184	190	197
150	226	233	237	267	238	237	243	254
200	272	280	284	305	285	284	290	305

公称 通径 Nominal diameter	A/A1						
	Class 150 RJ	Class 300 RJ	Class 600 RJ	Class 300 TG	Class 600 TG	Class 150 SW、BW	Class 150、600 SW、BW
32	118	124	126	122	124	126	126
40	118	124	126	122	124	126	126
50	134	142	145	138	142	143	143
65	145	154	157	151	154	156	156
80	156	167	170	164	167	169	169
100	183	192	199	189	196	197	197
150	232	245	256	242	253	237	254
200	278	292	307	289	303	284	305

公称通径 Nominal diameter	A/A1						
	JIS63K	Class 900		Class 1500		Class 2500	
	RF	RF (SW, BW)	RJ	RF (SW, BW)	RJ	RF (SW, BW)	RJ
40	161.5	166.5	166.5	166.5	166.5	179	180.5
50	177	187.5	189	188	189	225	225
80	215.5	220	220	230	230	270	270
100	248	255	256.5	265	266.5	287.5	292.5
150	349.5	357.5	359	385	388	410	416.5
200	447.5	457.5	459	486	491	510	518
250	—	568.5	570	663.5	668	—	—
300	—	655.5	657	700	708	—	—
350	—	—	—	763	763	—	—
400	—	760	760	—	—	—	—

表 5-1-2 侧面最大尺寸

Table 5-1-2 Maximum Dimension of Side Surface

HCP-10000							mm
公称通径 Nominal diameter	C						
	PN16	PN40	PN64	Class150	Class300	Class600	
32	147	149	152	147	149	152	
40	150	150	170	150	150	170	
50	177	180	184	177	180	184	
65	198	202	206	198	202	206	
80	209	214	218	209	214	218	
100	249	256	262	249	256	275	
125	301	306	316	301	312	330	
150	351	358	370	351	358	370	
200	434	450	458	434	450	468	
250	560	568	574	560	568	580	
300	575	583	589	575	583	597	
350	706	716	722	706	716	740	
400	781	798	811	781	798	827	
450	848	864	900	848	864	900	

mm

公称通径 Nominal diameter	C		
	Class900	Class1500	Class2500
40	180	180	205
50	215	215	235
80	240	265	305
100	290	310	355
150	380	395	485
200	470	498	550

mm

公称通径 Nominal diameter	C					
	PN16	PN40	PN64	Class150	Class300	Class600
32	155	160	180	155	160	180
40	155	160	180	155	160	180
50	175	175	190	175	175	190
65	190	198	208	190	198	208
80	210	220	225	210	220	225
100	235	264	283	235	264	283
150	295	330	366	295	330	366
200	350	391	429	350	391	429

mm

公称 通径 Nominal diameter	C		
	Class900	Class1500	Class2500
DN40	180	180	205
DN50	215	215	235
DN80	240	265	305
DN100	290	310	355
DN150	380	395	485
DN200	470	485	550

表 5-2 外形尺寸

Table 5-2 Overall Dimensions

表 5-2-1 外形尺寸

Table 5-2-1 Overall Dimensions

HCP-10000										mm
公称 通径 Nominal diameter	执行机构 Actuator	H			B	B1	B2	B3	B4	H1
		常温型(P) Normal temperature type (P)	伸长I型(EI) Extension type I (EI)	伸长II型(EII) Extension type II (EII)						
32	HA21D8、R8	575	745	850	281	—	—	—	—	70
	HA31D8、R8	700	870	1015	363	—	—	—	—	
	EIL04	790	960	1065	267	—	258	—	—	
40	HA21D8、R8	575	745	850	281	—	—	—	—	70
	HA31D8、R8	700	870	1015	363	—	—	—	—	
	EIL04	790	960	1065	267	—	258	—	—	
50	HA21D8、R8	575	745	855	281	—	—	—	—	80
	HA31D8、R8	700	870	980	363	—	—	—	—	
	EIL04	790	960	1070	267	—	258	—	—	
65	HA31D8、R8	735	915	1035	363	—	—	—	—	88
	HA41D8、R8	920	1100	1215	520	—	—	—	—	
	EIL08	925	1105	1225	229	—	338	—	—	
	M8610+L8210	975	1155	1275	—	285	346	253	350	
80	HA31D8、R8	745	925	1065	363	—	—	—	—	98
	HA41D8、R8	925	1115	1240	520	—	—	—	—	
	EIL08	930	1110	1230	229	—	338	—	—	
	M8610+L8210	985	1170	1305	—	285	346	253	350	
100	HA31D8、R8	770	980	1105	363	—	—	—	—	113
	HA41D8、R8	945	1165	1305	520	—	—	—	—	
	HV41D00	1180	1400	1545	334	—	—	—	—	
	EIL08	960	1170	1295	229	—	338	—	—	
125	M8610+L8210	1010	1220	1245	—	285	346	253	350	146
	HA31D8、R8	840	1100	1300	363	—	—	—	—	
	HA41D8、R8	1010	1270	1485	520	—	—	—	—	
	HV41D00	1190	1450	1665	334	—	—	—	—	
150	EIL08	1050	1310	1515	229	—	338	—	—	170
	HA31D8、R8	840	1100	1300	363	—	—	—	—	
	HA41D8、R8	1010	1270	1485	520	—	—	—	—	
	HV41D00	1190	1450	1665	334	—	—	—	—	
200	EIL12	1050	1310	1515	229	—	338	—	—	220
	HA41D8、R8	1150	1410	1655	520	—	—	—	—	
	HV51D00	1420	1685	2050	382	—	—	—	—	
	EIL20	1295	1550	1800	258	—	356	—	—	
250	M8620+L8220	1485	1750	2021	—	313	350	253	350	305
	HA51D8、R8	1455	1725	—	605	—	—	—	—	
	HV51D00	1355	1620	—	382	—	—	—	—	
	HV61D00	1470	1735	—	480	—	—	—	—	
	EIL25	1540	1805	—	258	—	356	—	—	
300	M8620+L8230	1865	2470	—	—	313	350	253	350	345
	HA51D8、R8	1455	1720	—	605	—	—	—	—	
	HV51D00	1355	1620	—	382	—	—	—	—	
	HV61D00	1470	1735	—	480	—	—	—	—	
	EIL25	1535	1780	—	258	—	356	—	—	
350	M8620+L8230	1505	1845	—	—	313	350	253	350	385
	HV61D00	1565	1850	—	480	—	—	—	—	
	HV71D00	1565	1850	—	580	—	—	—	—	
	M8630+L8240	1540	1880	—	—	375	455	266	350	
400	HV71D00	2005	2115	—	730	—	—	—	—	420
	M8630+L8240	2300	2400	—	—	375	455	266	350	
450	HV71D00	2100	2250	—	730	—	—	—	—	430
	M8630+L8240	2350	2450	—	—	375	455	266	350	

500	HV81D00	2552	—	—	730	—	440	—	—	580
600	HV81D00	2736	—	—	730	—	440	—	—	625

公称 通径 Nomin al diamet er	执行机构 Actuator	H						H1			mm				
		Class 900		Class 1500		Class 2500		Class 900	Class 1500	Class 2500	B	B1	B2	B3	B4
		常温型 (P)	伸长I型 (EI)	常温型(P)	伸长I型(EI)	常温型 (P)	伸长I型(EI)								
		Normal tempera ture type (P)	Extension type I (EI)	Normal temperatu re type (P)	Extension type I (EI)	Normal tempera ture type (P)	Extension type I (EI)								
40	HA31D8、R8	835	975	835	975	880	1025	100	105	115	363	—	—	—	—
	HA41D8、R8	995	1135	995	1135	1040	1185				520	—	—	—	—
	EIL08	1010	1150	1010	1150	1055	1200				229	—	338	—	—
	M8610+L8210	1155	1295	1155	1295	1200	1345				—	313	350	253	350
50	HA31D8、R8	865	1025	865	1025	900	1060	110	120	130	363	—	—	—	—
	HA41D8、R8	1030	1190	1030	1190	1065	1225				520	—	—	—	—
	EIL08	1040	1205	1040	1205	1080	1240				229	—	338	—	—
	M8610+L8210	1195	1360	1195	1360	1235	1390				—	313	350	253	350
80	HA31D8、R8	900	1080	900	1080	935	1105	140	150	160	363	—	—	—	—
	HA41D8、R8	1070	1250	1070	1250	1105	1275				520	—	—	—	—
	EIL20	1445	1625	1445	1625	1480	1650				229	—	338	—	—
	M8620+L8220	1230	1410	1230	1410	1265	1435				—	313	350	253	350
100	HA31D8、R8	935	1115	935	1115	985	1155	160	170	180	363	—	—	—	—
	HA41D8、R8	1100	1280	1100	1280	1145	1315				520	—	—	—	—
	HV61SR5	1345	1525	1345	1525	1385	1560				475	—	—	—	—
	EIL20	1480	1660	1480	1660	1520	1690				258	—	356	—	—
	M8620+L8220	1265	1445	1265	1445	1305	1480				—	313	350	253	350
150	HA31D8、R8	995	1175	995	1175	1035	1210	210	225	260	363	—	—	—	—
	HA41D8、R8	1155	1335	1155	1335	1195	1370				520	—	—	—	—
	HV61SR5	1930	2010	1830	2010	1870	2050				475	—	—	—	—
	HV51D00	1355	1535	1355	1535	1395	1570				382	—	—	—	—
	EIL20	1315	1495	1315	1495	1355	1530				258	—	356	—	—
	M8620+L8220	1395	1575	1395	1575	1435	1610				—	313	350	253	350
	M8620+L8220	1395	1575	1395	1575	1435	1610				—	313	350	253	350
200	HA41D8、R8	1280	1460	1280	1460	1335	1515	320	335	330	520	—	—	—	—
	HA51D8、R8	1605	1780	1605	1780	1655	1835				605	—	—	—	—
	HV61D00	1585	1765	1585	1765	1640	1820				445	—	—	—	—
	EIL25	1655	1835	1655	1835	1710	1890				258	—	356	—	—
	M8620+L8230	1625	1805	1625	1805	1680	1860				—	313	350	253	350
250	HA51D8、R8	1780	1825	1575	1825	—	—	338	380	—	605	—	—	—	—
	HV71D00	1720	1840	1590	1840	—	—			—	580	—	—	—	—
	EIL25	1655	1680	1430	1680	—	—			—	258	—	356	—	—
	M8620+L8230	1700	1870	1620	1870	—	—			—	—	313	350	253	350
300	HA51D8、R8	1760	1830	1580	1830	—	—	407	380	—	605	—	—	—	—
	HV71D00	1720	1830	1580	1830	—	—			—	580	—	—	—	—
	EIL25	1655	1660	1410	1660	—	—			—	258	—	356	—	—
	M8620+L8230	1695	1860	1610	1860	—	—			—	—	313	350	253	350
350	HV81D00	2040	2290	2165	2290	—	—	550	545	—	705	—	—	—	—
	M8630+L8240	1995	2245	1995	2245	—	—			—	—	313	350	253	350
400	HV81D00	1920	2170	1920	2170	—	—	520	520	—	705	—	—	—	—
	M8630+L8240	1900	2150	1900	2150	—	—			—	—	313	350	253	350
450	HV81D00	—	—	2287	—	—	—	—	490	—	705	—	—	—	—

HCP-10100

mm

公称 通径 Nominal diameter	执行机构 Actuator	H			ΦB/B	B1	B2	B3	B4
		常温型(P) Normal temperature type (P)	伸长I型(EI) Extension type I (EI)	伸长II型(EII) Extension type II (EII)					
32	HA21D8、R8	555	725	835	281	—	—	—	—
	HA31D8、R8	680	850	1000	363	—	—	—	—
	EIL04	770	940	1050	172	—	258	—	—
40	HA21D8、R8	555	725	835	281	—	—	—	—
	HA31D8、R8	680	850	1000	363	—	—	—	—
	EIL04	770	940	1050	172	—	258	—	—
50	HA21D8、R8	550	720	830	281	—	—	—	—
	HA31D8、R8	675	845	955	363	—	—	—	—
	EIL04	765	940	1045	172	—	258	—	—
65	HA21D8、R8	625	795/805	930	281	—	—	—	—
	HA31D8、R8	705	885/895	1005	363	—	—	—	—
	HA41D8、R8	890	1070/1080	1185	520	—	—	—	—
	EIL08	890	1070	1195	229	—	338	—	—
	M8610+L8210	945	1125	1245	—	285	346	353	230
80	HA21D8、R8	660	835/845	980	281	—	—	—	—
	HA31D8、R8	715	900/910	1035	363	—	—	—	—
	HA41D8、R8	900	1085/1095	1215	520	—	—	—	—
	EIL08	905	1085	1205	229	—	338	—	—
	M8610+L8210	955	1140	1275	—	285	346	253	230
100	HA21D8、R8	700	900/970	1040	281	—	—	—	—
	HA31D8、R8	755	965/1005	1090	363	—	—	—	—
	HA41D8、R8	930	1150/1160	1290	520	—	—	—	—
	HV61SR5	1470	1690	1830	480	—	—	—	—
	HV51D00	1175	1395	1535	382	—	—	—	—
	EIL08	940	1150	1275	229	—	338	—	—
	M8610+L8210	995	1205	1330	—	285	346	253	230
125	HA31D8、R8	825	1085/1105	1285	363	—	—	—	—
	HA41D8、R8	995	1255/1290	1465	520	—	—	—	—
	HV61SR5	1535	1795	2010	480	—	—	—	—
	HV51D00	1240	1500	1715	382	—	—	—	—
	HV61D00	1355	1615	1830	480	—	—	—	—
	HV71D00	1355	1615	1830	580	—	—	—	—
	EIL08	1035	1295	1495	229	—	338	—	—
	M8620+L8220	1155	1415	1630	—	313	350	253	230
150	HA31D8、R8	825	1085/1105	1285	363	—	—	—	—
	HA41D8、R8	995	1255/1290	1465	520	—	—	—	—
	HV61SR5	1535	1795	2010	480	—	—	—	—
	HV51D00	1240	1500	1715	382	—	—	—	—
	HV61D00	1355	1615	1830	480	—	—	—	—
	HV71D00	1355	1615	1830	580	—	—	—	—
	EIL08	1035	1295	1495	229	—	338	—	—
	M8620+L8220	1155	1415	1630	—	313	350	253	230
200	HA41D8、R8	1135	1395	1640	520	—	—	—	—
	HV51D00	1405	1670	2035	382	—	—	—	—
	HV61D00	1515	1780	2150	480	—	—	—	—
	HV71D00	1515	1780	2150	580	—	—	—	—
	M8620+L8230	1485	1745	1990	—	313	350	253	230

mm

公称 通径 Nominal diameter	执行机构 Actuator	H						ΦB/B	B1	B2	B3	B4
		Class 900 JIS 63K		Class 1500		Class 2500						
		常温型 (P) Normal temperat ure type (P)	伸长I型 (EI) Extensio n type I (EI)	常温型(P) Normal temperatu re type (P)	伸长I型(EI) Extension type I (EI)	常温型(P) Normal temperatu re type (P)	伸长I型(EI) Extension type I (EI)					
40	HA31D8、R8	860	1000	860	1000	905	1050	363	—	—	—	—
	HA41D8、R8	995	1135	995	1135	1040	1185	520	—	—	—	—
	EIL08	1010	1150	1010	1150	1055	1200	229	—	338	—	—
	M8610+L8210	1080	1220	1080	1220	1125	1270	—	285	346	253	350
50	HA31D8、R8	890	1050	890	1050	920	1080	363	—	—	—	—
	HA41D8、R8	1030	1190	1030	1190	1065	1220	520	—	—	—	—
	EIL08	1040	1205	1040	1205	1075	1235	229	—	338	—	—
	M8610+L8210	1115	1280	1115	1280	1150	1310	—	285	346	253	350
80	HA31D8、R8	925	1105	925	1105	960	1130	363	—	—	—	—
	HA41D8、R8	1070	1250	1070	1250	1105	1275	520	—	—	—	—
	EIL20	1450	1630	1450	1630	1485	1655	258	—	356	—	—
	M8620+L8220	1230	1410	1230	1410	1265	1435	—	313	350	253	230
100	HA31D8、R8	955	1135	955	1135	1005	1175	363	—	—	—	—
	HA41D8、R8	1100	1280	1100	1280	1145	1315	520	—	—	—	—
	HV61SR5	1590	1770	1590	1770	1635	1805	480	—	—	—	—
	EIL20	1480	1660	1480	1660	1520	1690	258	—	356	—	—
	M8620+L8220	1265	1442	1265	1442	1305	1475	—	313	350	253	230
150	HA31D8、R8	1010	1190	1010	1190	1040	1220	363	—	—	—	—
	HA41D8、R8	1165	1345	1165	1345	1195	1375	520	—	—	—	—
	HV61SR5	1655	1835	1655	1835	1685	1865	480	—	—	—	—
	HV51D00	1360	1540	1360	1540	1390	1570	382	—	—	—	—
	EIL20	1540	1720	1540	1720	1570	1750	258	—	356	—	—
	M8620+L8220	1325	1505	1325	1505	1355	1535	—	313	350	253	230
200	HA41D8、R8	1300	1480	1300	1480	1335	1515	520	—	—	—	—
	HA51D8、R8	1625	1805	1625	1805	1660	1840	605	—	—	—	—
	HV61D00	1605	1785	1605	1785	1640	1820	480	—	—	—	—
	EIL25	1675	1855	1675	1855	1710	1890	258	—	356	—	—
	M8620+L8230	1645	1825	1645	1825	1680	1860	—	313	350	253	230
250	HA51D8、R8	1575	1825	1575	1825	—	—	605	—	—	—	—
	HV71D00	1590	1840	1590	1840	—	—	580	—	—	—	—
	EIL25	1430	1680	1430	1680	—	—	258	—	356	—	—
	M8620+L8230	1620	1870	1620	1870	—	—	—	313	350	253	230
300	HA51D8、R8	1580	1830	1580	1830	—	—	605	—	—	—	—
	HV71D00	1580	1830	1580	1830	—	—	580	—	—	—	—
	EIL25	1410	1660	1410	1660	—	—	258	—	356	—	—
	M8620+L8230	1610	1860	1610	1860	—	—	—	313	350	253	230
350	HV81D00	2040	2290	2040	2290	—	—	705	—	—	—	—
	M8630+L8240	1995	2245	1995	2245	—	—	—	375	455	266	350
400	HV81D00	1920	2170	1920	2170	—	—	705	—	—	—	—

	M8630+L8240	1900	2150	1900	2150	—	—	—	375	455	266	350
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表 5-2-2 外形尺寸

Table 5-2-2 Overall Dimensions

HCP-10000

mm

公称 通径 Nomina l diamete r	执行机构 Actuator	H						B2	M
		侧装手轮			顶装手轮				
		Side mounted handwheel			Top mounted handwheel				
		常温型(P) Normal temperatu re type (P)	伸长I型(EI) Extension type I (EI)	伸长II型(EII) Extension type II (EII)	常温型(P) Normal temperatu re type (P)	伸长I型(EI) Extension type I (EI)	伸长II型(EII) Extension type II (EII)		
32	HA21D8、R8	575	745	850	840	1005	1110	273.5	175
	HA31D8、R8	700	870	1015	990	1160	1305	278.5	175
40	HA21D8、R8	575	745	850	840	1005	1110	273.5	175
	HA31D8、R8	700	870	1015	990	1160	1305	278.5	175
50	HA21D8、R8	575	745	855	840	1005	1110	273.5	175
	HA31D8、R8	700	870	980	990	1160	1305	278.5	175
65	HA31D8、R8	735	915	1035	1025	1205	1325	278.5	175
	HA41D8、R8	920	1100	1215	1320	1500	1615	303	φ320
80	HA31D8、R8	745	925	1065	1035	1215	1355	278.5	175
	HA41D8、R8	925	1115	1240	1325	1515	1640	303	φ320
100	HA31D8、R8	770	980	1105	1160	1270	1395	278.5	175
	HA41D8、R8	945	1165	1305	1345	1565	1705	303	φ320
	HV61SR5	1610	1830	1975	—	—	—	384	φ380
	HV41D00	1290	1510	1655	—	—	—	324	φ380
125	HA31D8、R8	840	1100	1300	1130	1390	1590	278.5	175
	HA41D8、R8	1010	1270	1485	1410	1670	1885	303	φ320
	HV61SR5	1675	1935	2150	—	—	—	384	φ380
	HV41D00	1300	1560	1775	—	—	—	324	φ380
150	HA31D8、R8	840	1100	1300	1130	1390	1590	278.5	175
	HA41D8、R8	1010	1270	1485	1410	1670	1885	303	φ320
	HV61SR5	1675	1935	2150	—	—	—	384	φ380
	HV41D00	1300	1560	1775	—	—	—	324	φ380
200	HA41D8、R8	1150	1410	1655	1550	1810	2055	303	φ320
	HV51D00	1530	1790	2160	—	—	—	324	φ380
250	HA51D8、R8	1805	2075	—	1730	1995	—	380	φ325
	HV51D00	1465	1730	—	—	—	—	324	φ380
	HV61D00	1595	1860	—	—	—	—	384	φ380
300	HA51D8、R8	1455	2070	—	—	—	—	380	φ325
	HV51D00	1465	1730	—	—	—	—	324	φ380
	HV61D00	1595	1860	—	—	—	—	384	φ380
350	HV61D00	1690	1975	—	—	—	—	384	φ380
	HV71D00	1690	1975	—	—	—	—	384	φ380
400	HV71D00	2130	2240	—	—	—	—	384	φ380
450	HV71D00	2225	2375	—	—	—	—	384	φ380
500	HV81D00	2852	—	—	—	—	—	440	φ380
600	HV81D00	3036	—	—	—	—	—	440	φ380

[illegible]

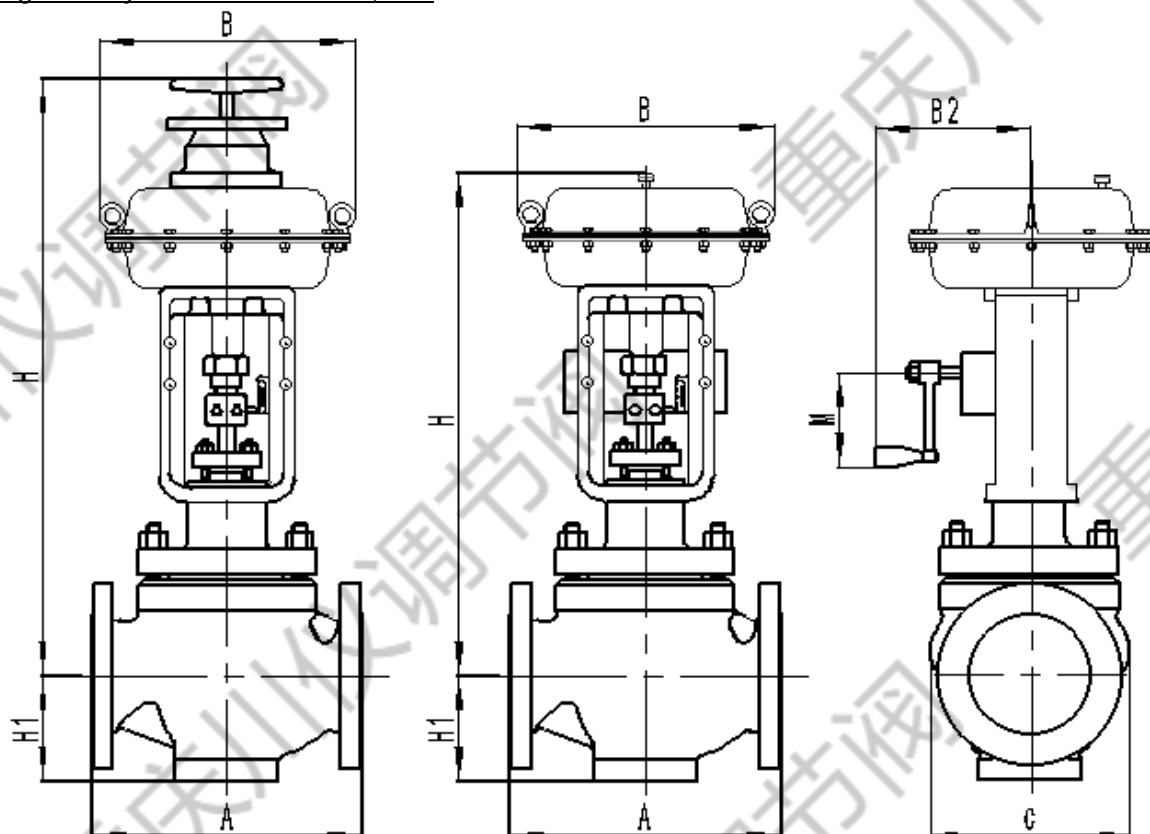
HCP-10100 mm

公称 通径 Nominal diameter	执行机构 Actuator	H						B2	M
		侧装手轮 Side mounted handwheel			顶装手轮 Top mounted handwheel				
		常温型(P) Normal temperature type (P)	伸长I型(EI) Extension type I (EI)	伸长II型(EII) Extension type II (EII)	常温型(P) Normal temperature type (P)	伸长I型(EI) Extension type I (EI)	伸长II型(EII) Extension type II (EII)		
32	HA21D8、R8	555	725	835	811	986	1096	273.5	φ175
	HA31D8、R8	680	850	1000	967	1137	1287	278.5	φ175
40	HA21D8、R8	555	725	835	811	986	1096	273.5	φ175
	HA31D8、R8	680	850	1000	967	1137	1287	278.5	φ175
50	HA21D8、R8	550	720	830	811	981	1091	273.5	φ175
	HA31D8、R8	675	845	955	962	1132	1242	278.5	φ175
65	HA21D8、R8	625	805	930	886	1066	1191	273.5	φ175
	HA31D8、R8	705	895	1005	992	1182	1292	278.5	φ175
	HA41D8、R8	890	1080	1185	1288	1478	1583	303	φ320
80	HA21D8、R8	660	845	980	921	1106	1241	273.5	φ175
	HA31D8、R8	715	910	1035	1002	1197	1322	278.5	φ175
	HA41D8、R8	900	1095	1215	1298	1493	1613	303	φ320
100	HA21D8、R8	700	970	1040	961	1231	1301	273.5	φ175
	HA31D8、R8	755	1005	1090	1042	1292	1377	278.5	φ175
	HA41D8、R8	930	1160	1290	1328	1558	1688	303	φ320
125	HA31D8、R8	825	1105	1285	1112	1392	1572	278.5	φ175
	HA41D8、R8	995	1290	1465	1393	1688	1863	303	φ320
	HV61SR5	1660	1920	2135	—	—	—	384	φ380
	HV51D00	1350	1610	1825	—	—	—	324	φ380
	HV61D00	1480	1740	1955	—	—	—	384	φ380
	HV71D00	1480	1740	1955	—	—	—	384	φ380
150	HA31D8、R8	825	1105	1285	1112	1392	1572	278.5	φ175
	HA41D8、R8	995	1290	1465	1393	1688	1863	303	φ320
	HV61SR5	1660	1920	2135	—	—	—	384	φ380
	HV51D00	1350	1610	1825	—	—	—	324	φ380
	HV61D00	1480	1740	1955	—	—	—	384	φ380
	HV71D00	1480	1740	1955	—	—	—	384	φ380
200	HA41D8、R8	1135	1395	1640	1533	1793	2038	303	φ320
	HV51D00	1515	1780	2145	—	—	—	324	φ380
	HV61D00	1640	1905	2275	—	—	—	384	φ380
	HV71D00	1640	1905	2275	—	—	—	384	φ380

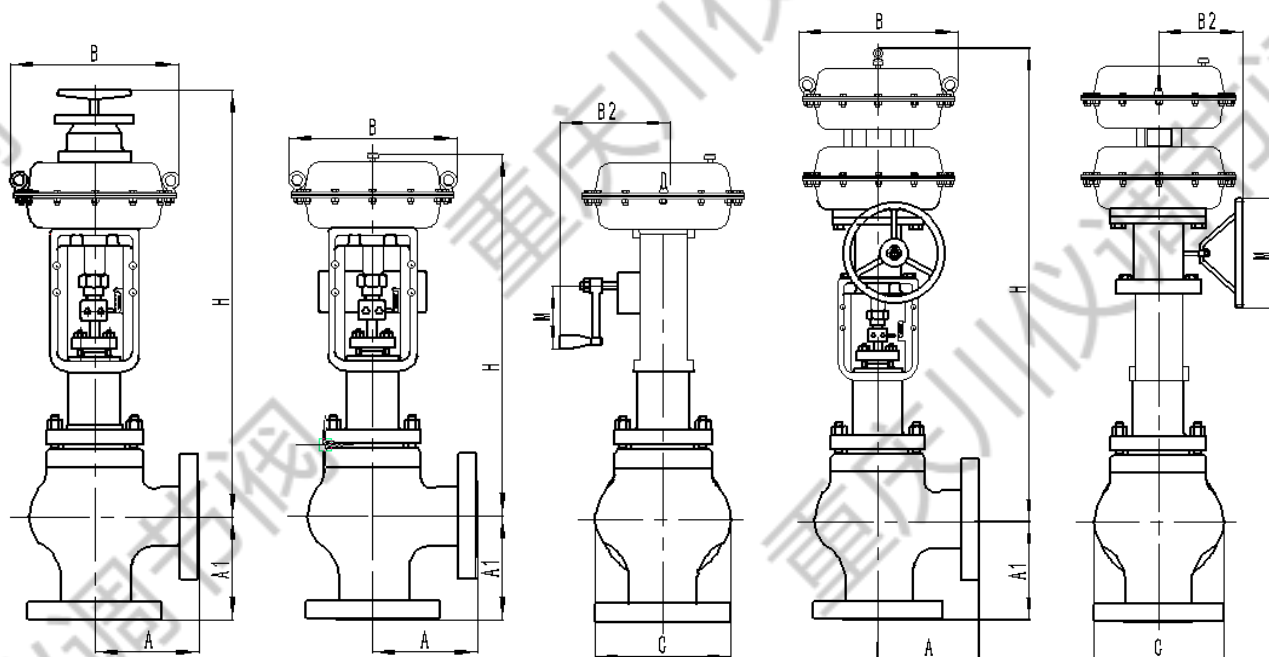
公称 通径 Nominal diameter	执行机构 Actuator	H								B2	M
		侧装手轮 Side mounted handwheel				顶装手轮 Top mounted handwheel					
		Class 900 JIS 63K Class 1500		Class 2500		Class 900 JIS63K Class 1500		Class 2500			
		常温型(P) Normal temperature type (P)	伸长I型(EI) Extension type I (EI)	常温型 (P) Normal tempera ture type (P)	伸长I型 (EI) Extensio n type I (EI)	常温型 (P) Normal tempera ture type (P)	伸长I型(EI) Extension type I (EI)	常温型 (P) Normal temperat ure type (P)	伸长I型(EI) Extension type I (EI)		
40	HA31D8、R8	860	1000	905	1050	1147	1287	1192	1337	278.5	φ175
	HA41D8、R8	995	1135	1040	1185	1393	1533	1438	1583	303	φ320
50	HA31D8、R8	890	1050	920	1080	1177	1337	1207	1367	278.5	φ175
	HA41D8、R8	1030	1190	1065	1220	1428	1588	1463	1618	303	φ320
80	HA31D8、R8	925	1105	960	1130	1212	1392	1247	1417	278.5	φ175
	HA41D8、R8	1070	1250	1105	1275	1468	1648	1503	1673	303	φ320
100	HA31D8、R8	955	1135	1005	1175	1242	1422	1292	1462	278.5	φ175
	HA41D8、R8	1100	1280	1145	1315	1498	1678	1543	1713	303	φ320
	HV61SR5	1715	1895	1760	1930	—	—	—	—	384	φ380
150	HA31D8、R8	1010	1190	1040	1220	1297	1477	1327	1507	278.5	φ175
	HA41D8、R8	1165	1345	1195	1375	1563	1743	1593	1773	303	φ320
	HV61SR5	1780	1960	1810	1990	—	—	—	—	384	φ380
	HV51D00	1470	1650	1500	1680	—	—	—	—	324	φ380
200	HA41D8、R8	1300	1480	1335	1515	1698	1878	1733	1913	303	φ320
	HA51D8、R8	—	—	—	—	1971	2151	2006	2186	380	φ325
	HV61D00	1730	1910	1765	1945	—	—	—	—	384	φ380
250	HA51D8、R8	—	—	—	—	1921	2171	—	—	380	φ325
	HV71D00	1715	1965	—	—	—	—	—	—	384	φ380
300	HA51D8、R8	—	—	—	—	1926	2176	—	—	380	φ325
	HV71D00	1705	1955	—	—	—	—	—	—	384	φ380
350	HV81D00	2185	2435	—	—	—	—	—	—	445	φ380
400	HV81D00	2065	2315	—	—	—	—	—	—	445	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。

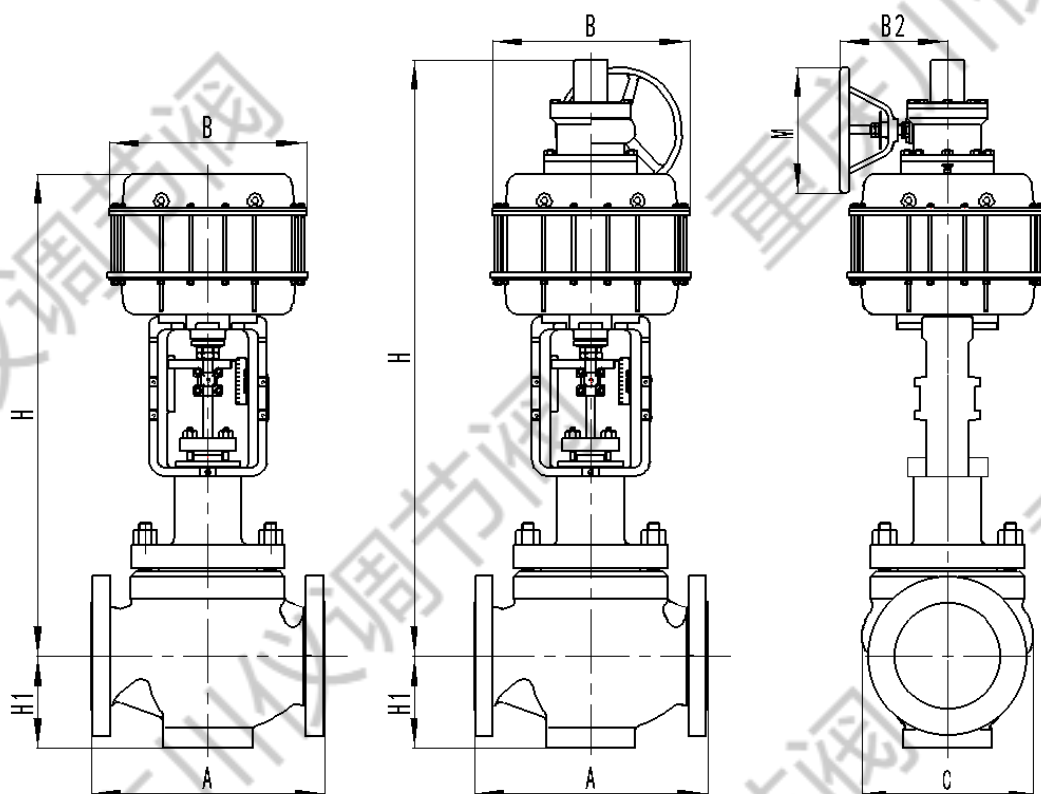
Note: The dimension of column H in Table 5-2-2 indicates the height of the control valve of pneumatic actuator (with handwheel).



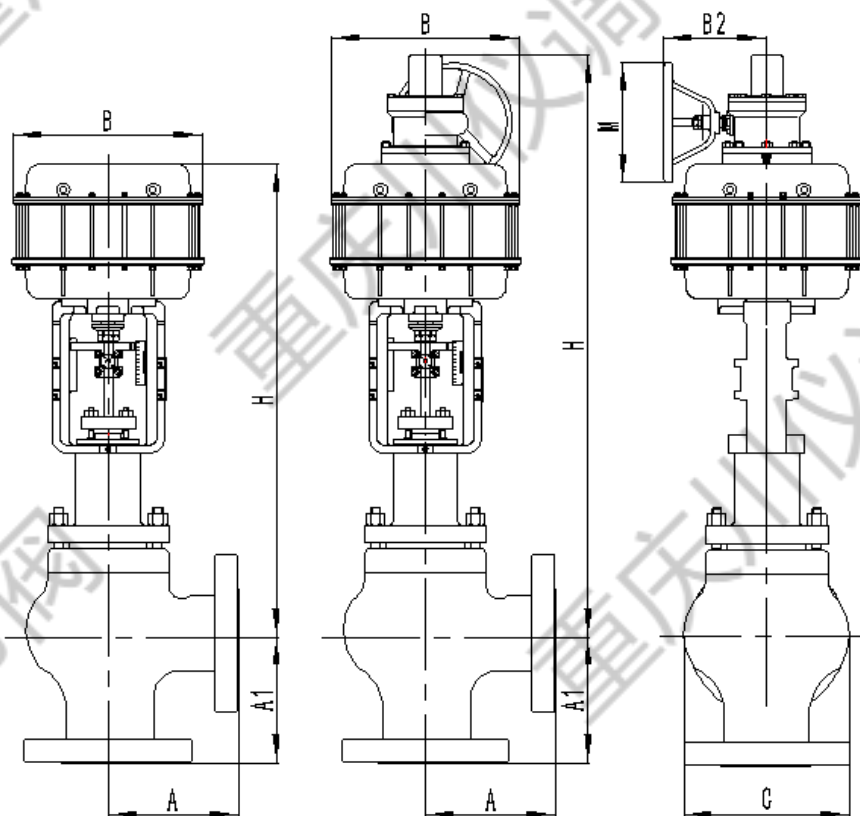
HCP-10000 配 HA11~HA41 执行机构
HCP-10000 with HA11~HA41 actuator



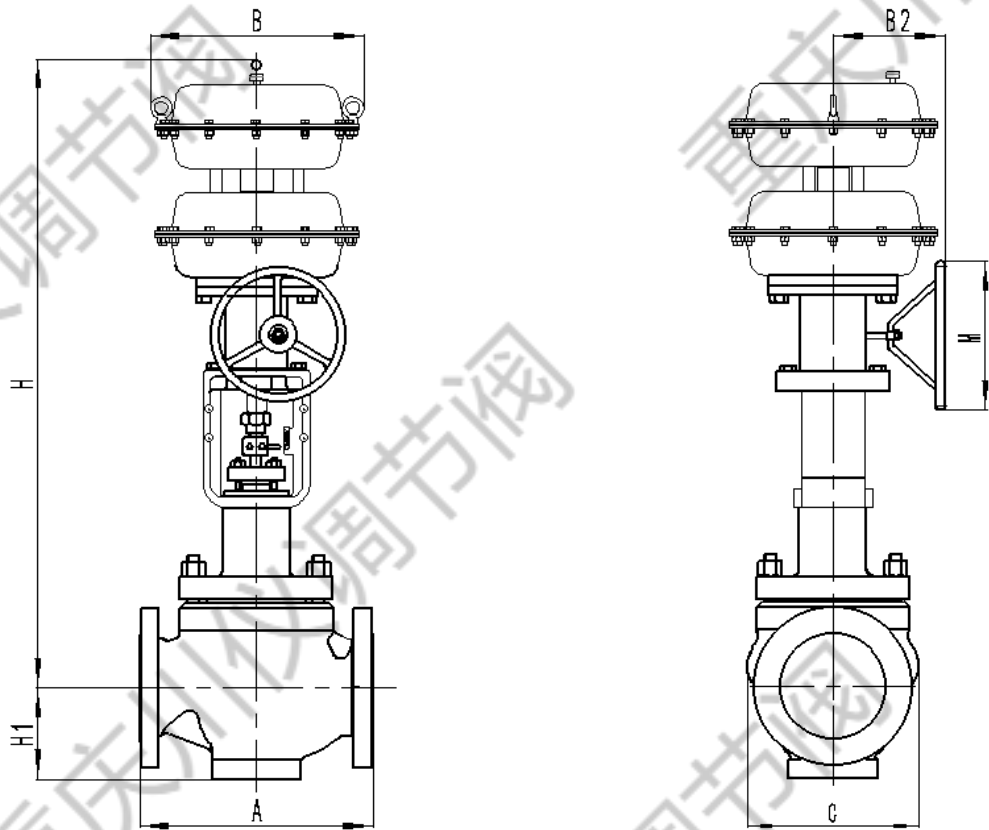
HCP-10100 配 HA11~HA41 执行机构
HCP-10100 with HA11~HA41 actuator



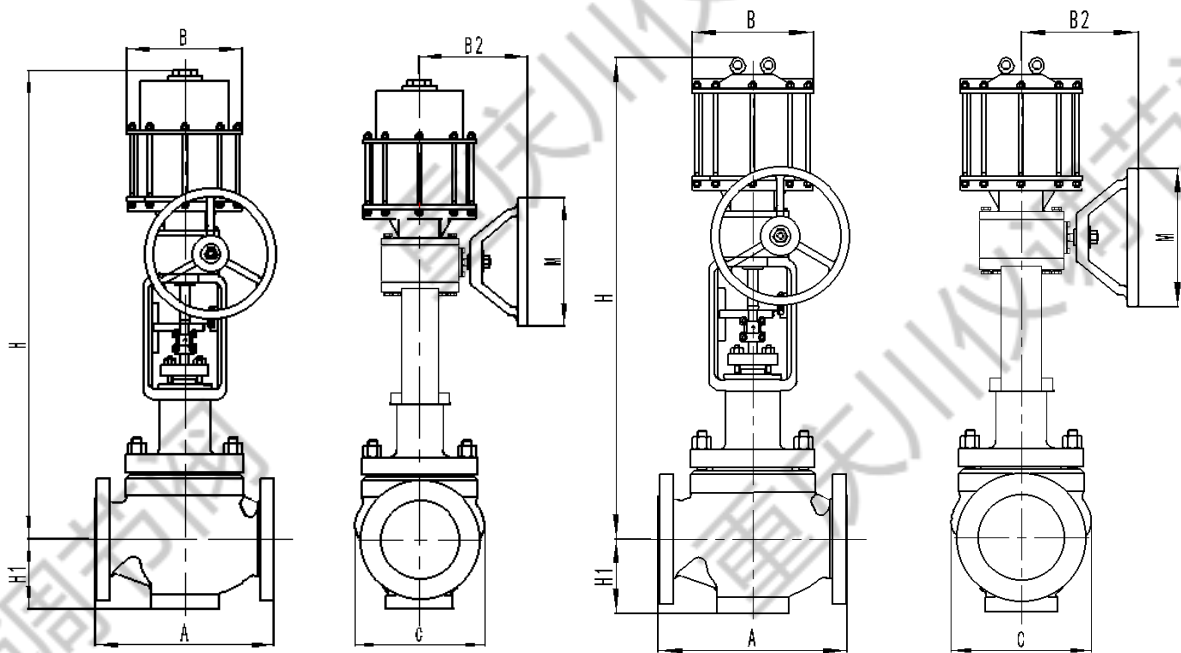
HCP-10000 配 HA51 执行机构
HCP-10000 with HA51 actuator



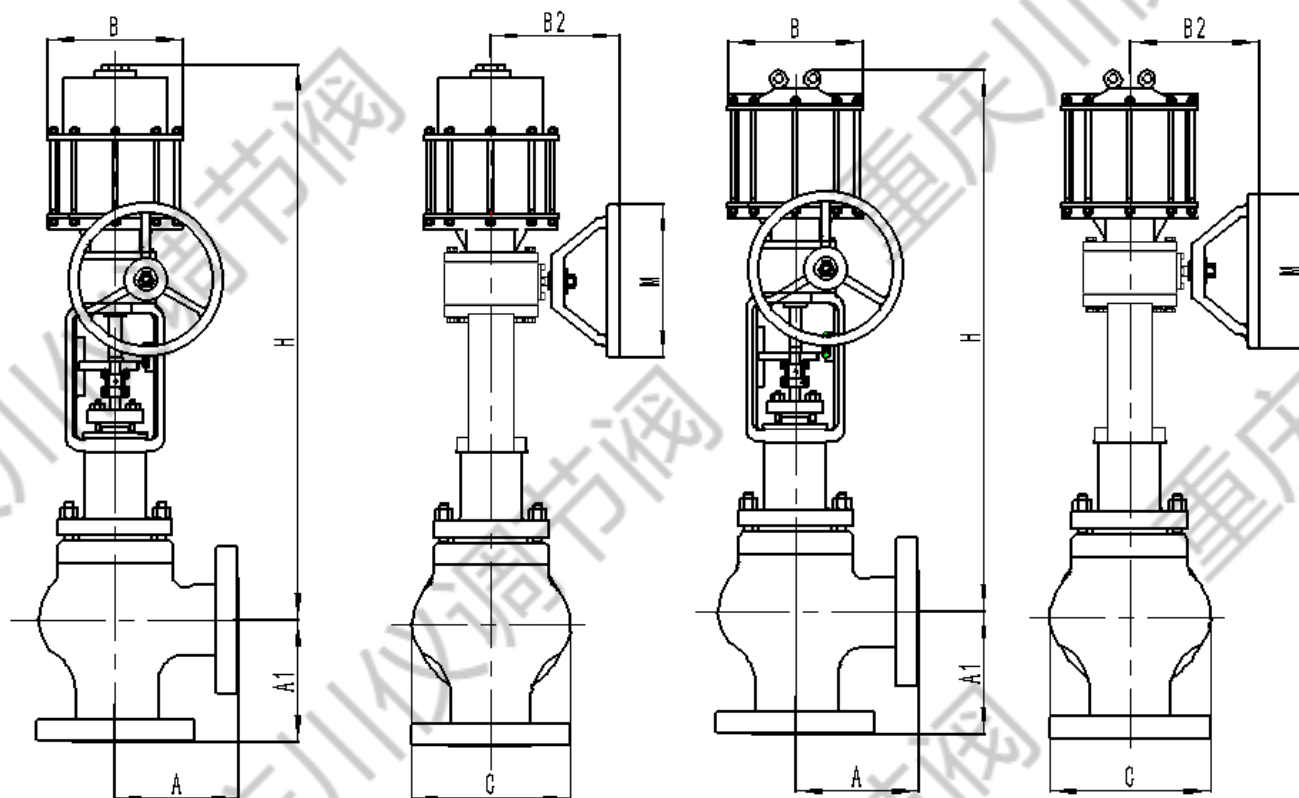
HCP-10100 配 HA51 执行机构
HCP-10100 with HA51 actuator



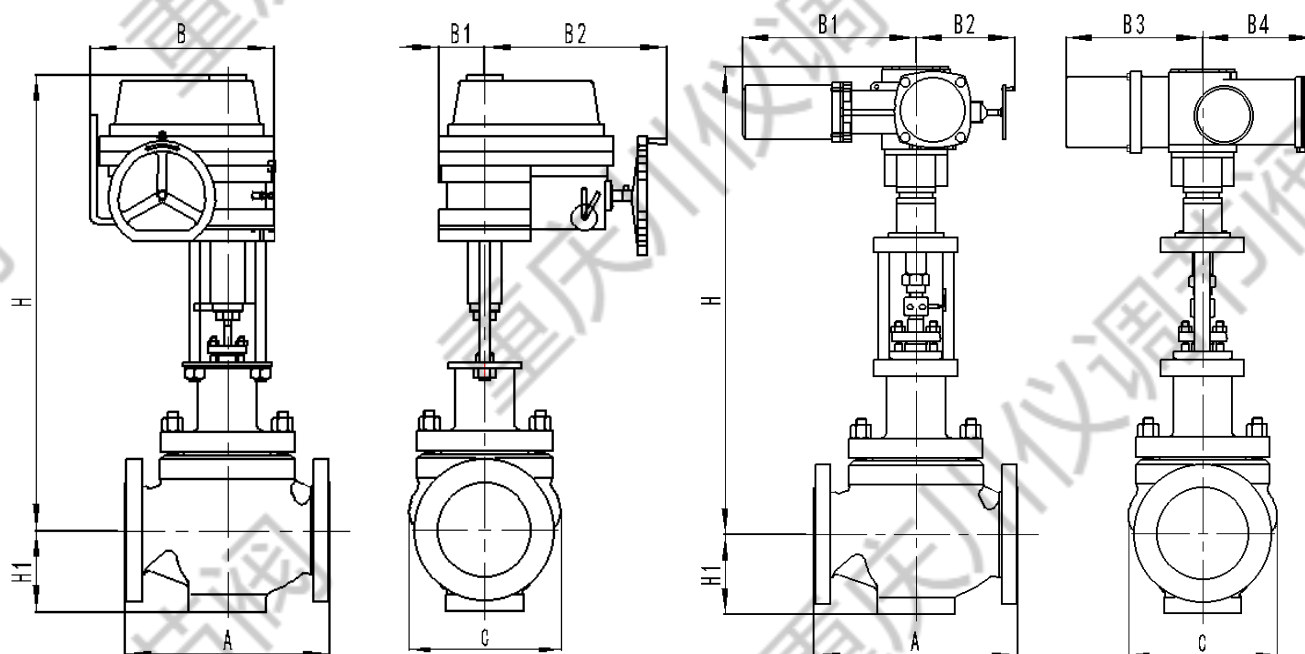
HCP-10000 配 HA42 执行机构
HCP-10000 with HA42 actuator



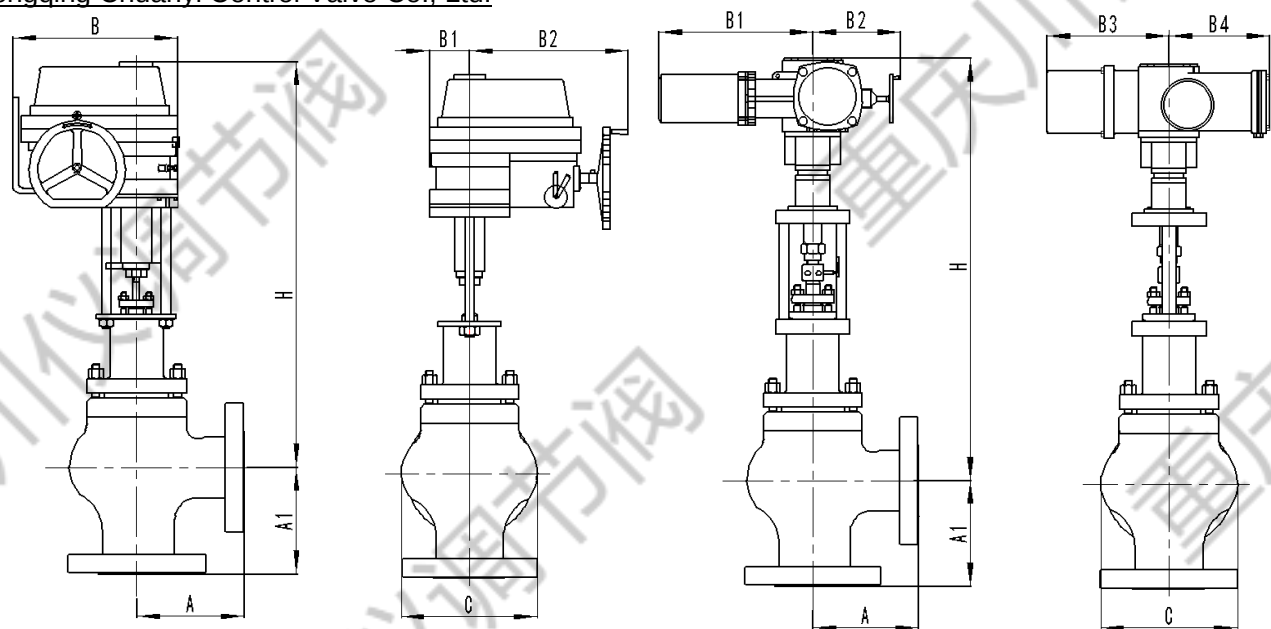
HCP-10000 配 HV 单/双作用执行机构
HCP-10000 with HV single/double acting actuator



HCP-10100 配 HV 单/双作用执行机构
HCP-10100 with HV single/double acting actuator



HCP-10000 配 EIL\ M8 执行机构
HCP-10000 with EIL\ M8 actuator



HCP-10100 配 EIL\ M8 执行机构
HCP-10100 with EIL\ M8 actuator

图 5 法兰距及外形尺寸

Figure 5 Flange Distance and Overall Dimensions

表 6 重量
Table 6 Weight
HCP-10000

公称 通径 Nominal diamete r	执行机构 Actuator	法兰连接 Flange connection									焊接连接 Welded connection		
		Class 150 JIS 10K			Class 300 JIS 16、20、30K			Class 600 JIS 40K			Class 150、300、600 JIS 10、16、20、30K		
		P	EI	EII	P	EI	EII	P	EI	EII	P	EI	EII
32	HA21D8、R8	28	31	34	32	35	38	39	42	45	32	35	38
	HA31D8、R8	40	43	46	44	47	50	51	54	57	44	47	50
	EIL04	22	25	28	26	29	32	33	36	39	26	29	32
40	HA21D8、R8	31	34	37	36	39	42	44	47	50	36	39	42
	HA31D8、R8	43	46	49	48	51	54	56	59	62	48	51	54
	EIL04	25	28	31	30	33	36	38	41	44	30	33	36
50	HA21D8、R8	37	40	43	42	45	48	47	50	43	42	45	48
	HA31D8、R8	49	52	55	54	57	60	59	62	65	54	57	60
	EIL04	31	34	37	36	39	42	41	44	47	36	39	42
65	HA31D8、R8	55	59	63	60	64	68	77	81	85	60	64	68
	HA41D8、R8	86	90	94	91	95	99	108	112	116	91	95	99
	EIL08	41	45	49	46	50	54	63	67	71	46	50	54
	M8610+L8210	90	94	98	95	99	103	143	147	151	126	128	134
80	HA31D8、R8	65	71	77	75	81	87	97	103	109	75	81	87
	HA41D8、R8	96	102	108	106	112	118	128	134	140	106	112	118
	EIL08	51	56	63	61	67	73	83	89	95	61	67	73
	M8610+L8210	100	106	112	110	116	122	132	138	144	110	116	121
100	HA31D8、R8	75	85	90	90	100	105	125	135	140	87	97	102
	HA41D8、R8	106	116	121	121	131	136	156	166	171	118	128	133
	EIL08	61	71	76	76	86	91	111	121	126	73	84	88
	M8610+L8210	110	120	125	125	135	138	160	170	175	122	132	168
125	HA31D8、R8	143	158	165	168	183	190	218	233	240	155	170	182
	HA41D8、R8	174	189	196	199	214	221	249	264	271	186	201	213

kg

	HV41D00	184	199	206	209	224	231	259	274	281	196	211	218
	EIL12	126	141	148	151	166	173	201	216	223	138	153	160
150	HA31D8、R8	157	172	179	187	202	209	237	252	259	177	192	199
	HA41D8、R8	188	203	210	218	233	240	268	283	290	208	223	230
	HV41D00	198	213	220	228	243	250	278	293	300	218	233	240
	EIL12	140	155	162	170	185	192	220	235	242	160	175	182
200	HA41D8、R8	268	288	298	318	338	348	438	458	468	308	328	338
	HV51D00	300	320	330	350	370	380	470	490	500	340	360	370
	EIL20	228	248	258	278	298	308	398	418	428	268	288	298
	M8620+L8220	268	288	298	318	338	348	438	458	468	308	328	338
250	HA51D8、R8	720	780	—	890	950	—	1020	1135	—	—	—	—
	HV51D00	620	680	—	790	850	—	920	1035	—	—	—	—
	HV61D00	670	730	—	740	800	—	870	985	—	—	—	—
	EIL25	550	605	—	715	775	—	795	910	—	—	—	—
	M8620+L8230	600	660	—	770	830	—	900	1015	—	—	—	—
300	HA51D8、R8	850	920	—	980	1050	—	1050	1120	—	—	—	—
	HV51D00	750	820	—	880	950	—	950	1020	—	—	—	—
	HV61D00	800	870	—	930	1000	—	1000	1070	—	—	—	—
	EIL25	675	745	—	805	875	—	875	950	—	—	—	—
	M8620+L8230	730	800	—	860	1030	—	930	1000	—	—	—	—
350	HV61D00	980	1080	—	1250	1350	—	1450	1550	—	—	—	—
	HV71D00	1130	1230	—	1400	1500	—	1600	1700	—	—	—	—
	M8630+L8240	930	1030	—	1230	1300	—	1400	1500	—	—	—	—
400	HV71D00	1650	1750	—	1900	2030	—	2100	2300	—	—	—	—
	M8630+L8240	1450	1550	—	1700	1830	—	1900	2100	—	—	—	—
450	HV71D00	—	—	—	2800	—	—	—	—	—	—	—	—
500	HV81D00	2800	—	—	—	—	—	—	—	—	—	—	—

kg

公称 通径 Nominal diameter	执行机构 Actuator	法兰连接 Flange connection						焊接连接 Welded connection					
		Class 900		Class 1500		Class 2500		Class 900		Class 1500		Class 2500	
		常温型 (P) Normal temperature type (P)	伸长I型 (EI) Extension type I (EI)	常温型 (P) Normal temperature type (P)	伸长I型 (EI) Extension type I (EI)	常温型 (P) Normal temperature type (P)	伸长I型 (EI) Extension type I (EI)	常温型 (P) Normal temperature type (P)	伸长I型 (EI) Extension type I (EI)	常温型 (P) Normal temperature type (P)	伸长I型 (EI) Extension type I (EI)	常温型 (P) Normal temperature type (P)	伸长I型 (EI) Extension type I (EI)
40	HA31D8、R8	60	65	65	70	90	95	50	55	55	60	75	80
	HA41D8、R8	90	95	95	100	125	130	80	85	85	90	105	110
	EIL08	43	48	48	53	73	78	33	38	38	43	58	63
	M8610+L8210	90	95	95	100	120	125	80	85	85	90	105	110
50	HA31D8、R8	70	80	75	85	110	120	55	65	60	70	85	95
	HA41D8、R8	100	110	105	115	140	150	85	95	90	100	115	125
	EIL08	53	63	58	68	93	103	38	48	43	53	68	98
	M8610+L8210	100	110	105	115	140	150	85	95	90	100	115	125
80	HA31D8、R8	105	115	140	160	225	245	85	95	110	130	170	190
	HA41D8、R8	135	145	170	190	255	275	115	125	140	160	200	220
	EIL20	87	97	122	142	207	227	67	77	92	112	152	172
	M8620+L8220	135	145	170	190	255	275	115	125	140	160	200	220
100	HA31D8、R8	135	160	195	225	315	345	105	130	155	185	230	260
	HA41D8、R8	165	190	225	255	345	375	135	160	185	215	260	290
	HV61SR5	305	330	365	395	485	515	275	300	325	355	400	430
	EIL20	117	142	177	207	297	327	87	112	137	167	212	382

重庆川仪调节阀有限公司

Chongqing Chuanyi Control Valve Co., Ltd.

	M8620+L8220	165	190	225	255	345	375	135	160	185	215	260	290
150	HA31D8、R8	345	380	525	570	875	915	285	320	435	480	660	700
	HA41D8、R8	395	410	555	600	905	945	315	350	465	510	690	730
	HV61SR5	515	550	695	740	1045	1085	455	490	605	650	830	870
	HV51D00	390	425	570	615	920	960	330	365	480	525	705	745
	EIL20	347	362	507	552	857	897	267	302	417	462	642	682
	M8620+L8220	395	410	555	600	905	945	315	350	465	510	690	730
200	HA41D8、R8	633	678	1065	1115	1500	1545	535	580	910	958	1193	1240
	HA51D8、R8	1080	1180	1215	1265	1650	1695	685	730	1060	1100	1345	1390
	HV61D00	970	1070	1155	1025	1590	1635	625	670	1000	1050	1285	1330
	EIL25	585	630	1017	1067	1452	1497	487	532	862	910	1145	1192
	M8620+L8230	653	698	1265	1315	1520	1565	555	600	930	978	1213	1260
250	HA51D8、R8	1565	1665	—	—	—	—	—	—	—	—	—	—
	HV71D00	1680	1780	—	—	—	—	—	—	—	—	—	—
	EIL25	—	—	—	—	—	—	—	—	—	—	—	—
	M8620+L8230	—	—	—	—	—	—	—	—	—	—	—	—
300	HA51D8、R8	—	—	—	—	—	—	—	—	—	—	—	—
	HV71D00	2200	—	3200	—	—	—	—	—	—	—	—	—
	EIL25	—	—	—	—	—	—	—	—	—	—	—	—
	M8620+L8230	—	—	—	—	—	—	—	—	—	—	—	—
350	HV81D00	3500	—	4200	—	—	—	—	—	—	—	—	—
	M8630+L8240	—	—	—	—	—	—	—	—	—	—	—	—
400	HV81D00	3850	—	5000	—	—	—	—	—	—	—	—	—
	M8630+L8240	—	—	—	—	—	—	—	—	—	—	—	—
450	HV81D00	—	—	8000	—	—	—	—	—	—	—	—	—

HCP-10100

kg

公称 通径 Nomi nal diami ter	执行机构 Actuator	法兰连接 Flange connection									焊接连接 Welded connection		
		Class 150 JIS 10K			Class 300 JIS 16、20、30K			Class 600 JIS 40K			Class 150、300、600 JIS 10、16、20、30K		
		P	EI	EII	P	EI	EII	P	EI	EII	P	EI	EII
32	HA21D8、R8	28	31	34	32	35	38	39	42	45	32	35	38
	HA31D8、R8	40	43	46	44	47	50	51	54	57	44	47	50
	EIL04	20	23	26	23	27	30	31	34	37	23	27	30
40	HA21D8、R8	31	34	37	36	39	42	44	47	50	36	39	42
	HA31D8、R8	43	46	49	48	51	54	56	59	62	48	51	54
	EIL04	23	26	29	27	31	34	36	39	42	28	31	33
50	HA21D8、R8	37	40	43	42	45	48	47	50	53	42	45	48
	HA31D8、R8	49	52	55	54	57	60	59	62	65	54	57	60
	EIL04	29	32	35	33	37	40	42	45	48	34	51	54
65	HA21D8、R8	43	47	51	48	52	56	65	69	73	48	52	56
	HA31D8、R8	55	59	63	60	64	68	77	81	85	60	64	68
	HA41D8、R8	86	90	94	91	95	99	108	112	116	91	95	99
	EIL08	39	43	47	44	48	52	61	65	69	44	48	52
	M8610+L8210	61	65	69	66	70	74	83	87	91	66	70	73
80	HA21D8、R8	53	59	65	63	69	75	85	91	97	63	69	75
	HA31D8、R8	65	71	77	75	81	87	97	103	109	75	81	87
	HA41D8、R8	96	102	108	106	112	118	128	134	140	106	112	118
	EIL08	49	55	51	59	65	61	81	87	93	59	65	61
	M8610+L8210	71	77	83	81	75	81	103	109	115	81	87	93
100	HA21D8、R8	63	73	78	78	88	93	113	123	128	75	85	90

	HA31D8、R8	75	85	90	90	100	105	125	135	140	87	97	102
	HA41D8、R8	106	116	121	121	131	136	156	166	171	118	128	133
	HV61SR5	248	258	263	263	273	278	298	308	313	260	270	275
	HV51D00	123	133	138	138	148	153	173	183	188	135	145	150
	EIL08	59	69	74	74	84	89	109	119	124	71	81	86
	M8610+L8210	81	91	96	96	106	111	131	141	146	93	103	108
125	HA31D8、R8	143	158	165	168	183	190	218	233	240	155	170	182
	HA41D8、R8	174	189	196	199	214	221	249	264	271	186	201	213
	HV61SR5	316	331	338	341	356	363	391	406	413	328	343	355
	HV51D00	206	221	228	231	246	253	281	296	304	219	233	245
	HV61D00	266	281	288	291	306	313	341	356	363	278	293	305
	HV71D00	376	391	398	401	416	423	451	466	473	388	403	415
	EIL08	127	142	149	152	167	174	202	217	224	139	154	166
	M8620+L8220	149	164	171	174	189	196	224	239	246	161	176	188
150	HA31D8、R8	157	172	179	187	202	209	237	252	259	177	192	199
	HA41D8、R8	188	203	210	218	233	240	268	283	290	208	223	230
	HV61SR5	330	345	352	360	375	382	410	425	432	350	365	372
	HV51D00	205	220	227	235	250	257	285	300	307	225	240	247
	HV61D00	280	295	302	310	325	332	360	375	382	300	315	322
	HV71D00	390	405	412	420	435	442	470	485	492	410	425	432
	EIL08	141	156	163	171	186	193	221	236	243	161	176	183
	M8620+L8220	163	178	185	193	208	215	243	258	265	183	198	205
200	HA41D8、R8	268	288	298	318	338	348	438	458	468	308	328	338
	HV51D00	285	305	315	335	355	365	455	475	485	325	345	355
	HV61D00	360	380	390	410	430	440	530	550	560	400	420	430
	HV71D00	470	490	500	520	540	550	640	660	670	510	530	540
	M8620+L8220	248	268	279	298	318	328	418	438	448	288	308	318

kg

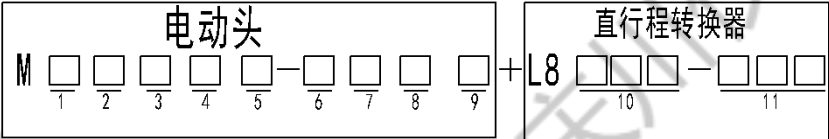
公称 通径 Nominal diameter	执行机构 Actuator	法兰连接 Flange connection						焊接连接 Welded connection					
		Class 900 JIS63K		Class 1500		Class 2500		Class 900 JIS63K		Class 1500		Class 2500	
		常温型 (P) Normal temperature type (P)	伸长I型 (EI) Extension type I (EI)	常温型 (P) Normal temperature type (P)	伸长I型 (EI) Extension type I (EI)	常温型 (P) Normal temperature type (P)	伸长I型 (EI) Extension type I (EI)	常温型 (P) Normal temperature type (P)	伸长I型 (EI) Extension type I (EI)	常温型 (P) Normal temperature type (P)	伸长I型 (EI) Extension type I (EI)	常温型 (P) Normal temperature type (P)	伸长I型 (EI) Extension type I (EI)
		Normal temperature type (P)	Extension type I (EI)	Normal temperature type (P)	Extension type I (EI)	Normal temperature type (P)	Extension type I (EI)	Normal temperature type (P)	Extension type I (EI)	Normal temperature type (P)	Extension type I (EI)	Normal temperature type (P)	Extension type I (EI)
40	HA31D8、R8	60(55)	65(60)	65	70	90	95	50	55	55	60	75	80
	HA41D8、R8	90(85)	95(90)	95	100	125	130	80	85	85	90	105	110
	EIL08	43	48	48	53	73	78	33	38	38	43	58	63
	M8610+L8210	90	95	95	100	120	125	80	85	85	90	105	110
50	HA31D8、R8	70(65)	80(75)	75	85	110	120	55	65	60	70	85	95
	HA41D8、R8	100(95)	110(105)	105	115	140	150	85	95	90	100	115	125
	EIL08	53	63	58	68	93	103	38	48	43	53	68	98
	M8610+L8210	100	110	105	115	140	150	85	95	90	100	115	125
80	HA31D8、R8	105(100)	115(110)	140	160	225	245	85	95	110	130	170	190
	HA41D8、R8	135(130)	145(140)	170	190	255	275	115	125	140	160	200	220
	EIL20	87	97	122	142	207	227	67	77	92	112	152	172
	M8620+L8220	135(130)	145(140)	170	190	255	275	115	125	140	160	200	220
100	HA31D8、R8	135(125)	160(150)	195	225	315	345	105	130	155	185	230	260
	HA41D8、R8	165(155)	190(180)	225	255	345	375	135	160	185	215	260	290

重庆川仪调节阀有限公司
Chongqing Chuanyi Control Valve Co., Ltd.

	HV61SR5	305(295)	330(320)	365	395	485	515	275	300	325	355	400	430
	EIL20	117	142	177	207	297	327	87	112	137	167	212	382
	M8620+L8220	165(155)	190(180)	225	255	345	375	135	160	185	215	260	290
150	HA31D8、R8	345(330)	380(365)	525	570	875	915	285	320	435	480	660	700
	HA41D8、R8	395(360)	410(395)	555	600	905	945	315	350	465	510	690	730
	HV61SR5	515(500)	550(535)	695	740	1045	1085	455	490	605	650	830	870
	HV51D00	390(375)	425(410)	570	615	920	960	330	365	480	525	705	745
	EIL20	347	362	507	552	857	897	267	302	417	462	642	682
	M8620+L8220	395(360)	410(395)	555	600	905	945	315	350	465	510	690	730
200	HA41D8、R8	633(598)	678(643)	1065	1115	1500	1545	535	580	910	958	1193	1240
	HA51D8、R8	1080	1180	1215	1265	1650	1695	685	730	1060	1100	1345	1390
	HV61D00	970	1070	1155	1025	1590	1635	625	670	1000	1050	1285	1330
	EIL25	585	630	1017	1067	1452	1497	487	532	862	910	1145	1192
	M8620+L8230	653	698	1265	1315	1520	1565	555	600	930	978	1213	1260
250	HA51D8、R8	1565	1665	—	—	—	—	—	—	—	—	—	—
	HV71D00	1680	1780	—	—	—	—	—	—	—	—	—	—
	EIL25	—	—	—	—	—	—	—	—	—	—	—	—
	M8620+L8230	—	—	—	—	—	—	—	—	—	—	—	—
300	HA51D8、R8	—	—	—	—	—	—	—	—	—	—	—	—
	HV71D00	2200	—	3200	—	—	—	—	—	—	—	—	—
	EIL25	—	—	—	—	—	—	—	—	—	—	—	—
	M8620+L8230	—	—	—	—	—	—	—	—	—	—	—	—
350	HV81D00	—	—	4200	—	—	—	—	—	—	—	—	—
	M8630+L8240	—	—	—	—	—	—	—	—	—	—	—	—
400	HV81D00	3850	—	—	—	—	—	—	—	—	—	—	—
	M8630+L8240	—	—	—	—	—	—	—	—	—	—	—	—

M 系列型号编码规则

Coding Rules for M series Models



电动头	Electronic Actuator
直行程转换器	Linear-to-Linear Motion Converter

型号规则：（1）输出形式

Coding Rules for Model: (1) Output form

8—8000 多转型

8—8000 multi-turn type

0—小转矩 90° 型

0—Low torque 90° type

1—小推力直行程

1—Small thrust linear type

（2）控制模块：

(2) Control module:

1—简单开关型（MCC）

1—Simple switching type (Motor

Control Center- MCC)

2—开关量控制

2—On-off control

3—智能开关型

3—Intelligent switch type

4—智能调节型

4—Intelligent regulating type

5—变频开关型

5—Variable frequency switch type

6—变频调节型

6—Variable frequency regulating type

（3）输出力矩：

(3) Output torque:

1—50N.m 或 100N.m/90°

1—50N.m or 100N.m/90°

2—100N.m 或 200N.m/90°

2—100N.m or 200N.m/90°

3—200N.m 或 300N.m/90°

3—200N.m or 300N.m/90°

4—400N.m

5—600N.m

6—1000N.m 或 600N.m/90°

6—1000N.m. or 600N.m/90°

7—1600N.m~2500N.m

8—3000N.m

注：小推力为输出推力

Note: Small thrust is output thrust

（4）输出速度：

(4) Output speed:

0—36r/min 或 34s/90°

0—36r/min or 34s/90°

1—24r/min 或 28s/90°

1—24r/min or 28s/90°

2—12r/min;

（5）防爆等级要求：

(5) Explosion-proof grade requirements:

无—没有要求

No—No requirements

d—Ex dIIBT4

D—Ex dIIBT4

（6）环境温度

(6) Ambient temperature

0—常温

0— Normal temperature

E—低温

E—Low temperature

G—高温

G—High temperature

（7）电源：

(7) Power supply:

0—380V/3PH

S—220V/1PH

B—24 V d.c.

U—12 V d.c.

X—440V~460V/3PH

（8）通信协议：

(8) Communication protocol:

0—无

0—No

r—红外

r—Infrared ray

w—无线

w—Wireless

p—Profibus 现场总线（2p 为双通道）

p—Profibus field bus (2p means dual-channel)

m—Modbus 现场总线

m—Modbus field bus

f—FF 现场总线

f—FF field bus

h—HART 现场总线

h—HART field bus

（9）反馈：

(9) Feedback:

0—无

0—No

c—开关型带 4mA-20mA

c—Switch model 4mA-20mA

（10）规格代码

(10) Specification code

（11）行程：一般型号中未体现

(11) Stroke: Not reflected in the general model