

HB2410 气动低负载蝶阀

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本产品简介只包括一些比较常用的规格、材质、温度、选项、以及附件。

特殊的工况可根据要求定制提供。

需要这些产品的选型方面的协助，可联系本公司销售办事处、营销中心及全球各地代理商。

(China: +86 23 62824999/62824888)

(INT: +86 23 62815577/67300026)

注：① SIEMENS 系德国SIEMENS 集团的商标，本公司智能定位器战略合作商；

HB2410 pneumatic low-load butterfly control valve

■Applicable Condition

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RT actuator

AW actuator

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SIPART PS2 intelligent positioner SIEMENS①

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■Reference

Allowable DP

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Valve, hand wheel and pipe installation diagram

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Product weight

Model selection

This literature only includes some common specification, materials, temperature, option and accessories.

Special service condition could be customized.

Please contact with our sales offices, marketing center and worldwide agents for assistance in model selection.

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Note:① SIEMENS is the trademark of Germany SIEMENS group, the company's strategic partner.

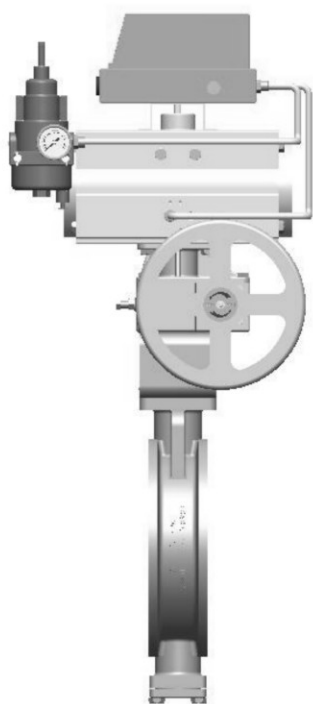
■适用场合 Applicable Condition

使用于冶金、轻工、化工、环保、电力等行业的气体、液体等介质的调节。

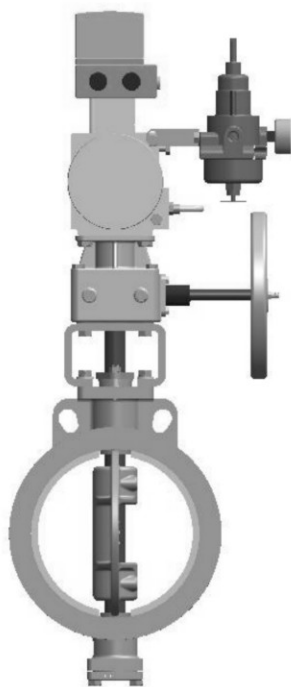
Applicable to metallurgy, light industry, chemical, environmental protection, electric power and other industries.

■产品特点 Product features

防尘、防焦油、防卡堵 dustproof, tar-prevent and block-prevent.	-采用In-BE 包容轴承 (本公司专利) adopt wrapping bearing(our company's patent)
大额定流量系数 large rated flow coefficient	-大口径、小流阻 Large caliber, small flow resistance
使用维修方便 easy to be operated and maintained	-结构简单 Simple structure
耐高温 high-temperature resistance,	-后座型结构 backseat structure.
体积小、重量轻 Small and light	-气动执行机构采用铝合金齿轮齿条 式, 整机结构紧凑 Actuator adopt aluminium alloy Gear rack type, compact structure.



HB2410



HB2410P

■应用标准 Application Standard

	中国标准 Chinese Standard	美国标准 British Standard
质量保证 Quality guarantee	ISO9001 TSG Z7002-2004	ISO9001
设计制造 Design and manufacture	GB/T12238	API 6D、API609
法兰标准 Flange Standard	GB9112 ~ 9124-2010、 HG20592-2009	ASME B16.5
结构长度 Face to Face	GB12221	IEC 60534-3-2:2001
检验和试验标准 Inspection & test	GB/T4213-2008	API 598

■选择阀体部件Body Selection

◎阀体规格 Specification

表1: 阀体规格配置表 table1. Specification table

型号Model		HB2410	HB2410P
阀体形式 Body type		开放型 Open type	后座型 Backseat type
阀体结构图 Structure fig.			
公称 压力	PN	PN6	
	ANSI	Class125	
公称通径DN		DN25 ~ DN2000	1" ~ 80"
连接 方式 Conne- ctype	对夹式 Wafer	≤ DN900	≤ 36"
	法兰式 Flange	≥ DN1000	≥ 40"
密封形式 Sealing type		RF	
阀体材质 Body material		WCB、CF8、CF8M、CF3M	

◎主要性能指标 Performance

固有流量特性Flow characteristics	近似等百分比 Almost Eq%			
额定行程Rated stroke	0 ~ 90°			
可调比Rangeability	20: 1			
允许最高流体温度 Allowable temperature	HB2410		HB2410P	
	400℃		800℃	
允许泄漏量=额定CV × Allowable leakage=rated CV ×	公称通径DN		HB2410	HB2410P
	mm	inch		
	50-80	2 ~ 3	5.0%	0.3%
	100-250	4 ~ 10	3.5%	0.2%
	300-450	12 ~ 18	3.0%	0.15%
	500-700	20 ~ 28	2.0%	0.15%
	800-1500	32 ~ 60	1.5%	0.1%
	1600-2000	64 ~ 80	1.5%	0.1%

表2：额定CV值

Table2: Rated CV

DN		HB2410(开放型)Open type		HB2410P(后座型)Backseat type	
		CV		CV	
mm	inch	60° 开度 opening	90° 开度 opening	60° 开度 opening	90° 开度 opening
50	2	83	165	65	130
80	3	158	320	128	260
100	4	278	560	220	510
125	5	425	900	295	585
150	6	610	1280	430	845
175	7	800	1720	620	1220
200	8	1040	2300	750	1500
250	10	1700	3500	1375	2550
300	12	2480	5200	1980	3900
350	14	3300	6800	2690	5500
400	16	4350	9000	3600	7400
450	18	5500	11000	4450	9100
500	20	6800	14000	5500	11500
600	24	9800	20500	8300	17000
700	28	14000	28000	11300	23900
800	32	17300	36400	14600	31900
900	36	23000	46000	19000	41000
1000	40	27000	57000	23400	49000
1100	44	34000	68000	28300	61000
1200	48	39000	81000	33600	73000
1400	56	50400	104660	43400	95000

续上表

DN		HB2410(开放型)Open type		HB2410P(后座型)Backseat type	
		CV		CV	
mm	inch	60° 开度 opening	90° 开度 opening	60° 开度 opening	90° 开度 opening
1600	64	65828	136700	56685	124081
1800	72	83310	173000	71742	157040
2000	80	102850	213600	88571	193877

◎ 阀体结构 (图2) Body structure (Fig.2)

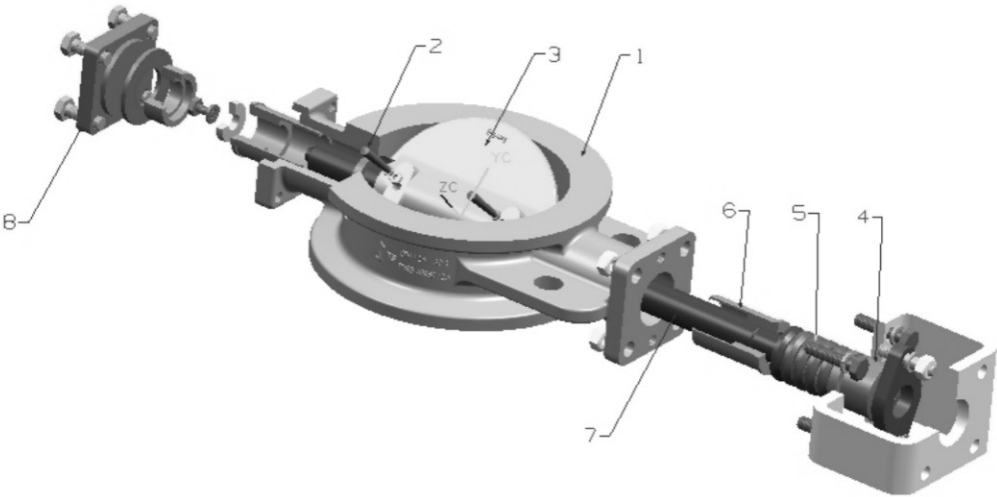


图2-1 HB2410阀体结构图 (DN80-DN1400) Fig. 2-1 Body structure fig.

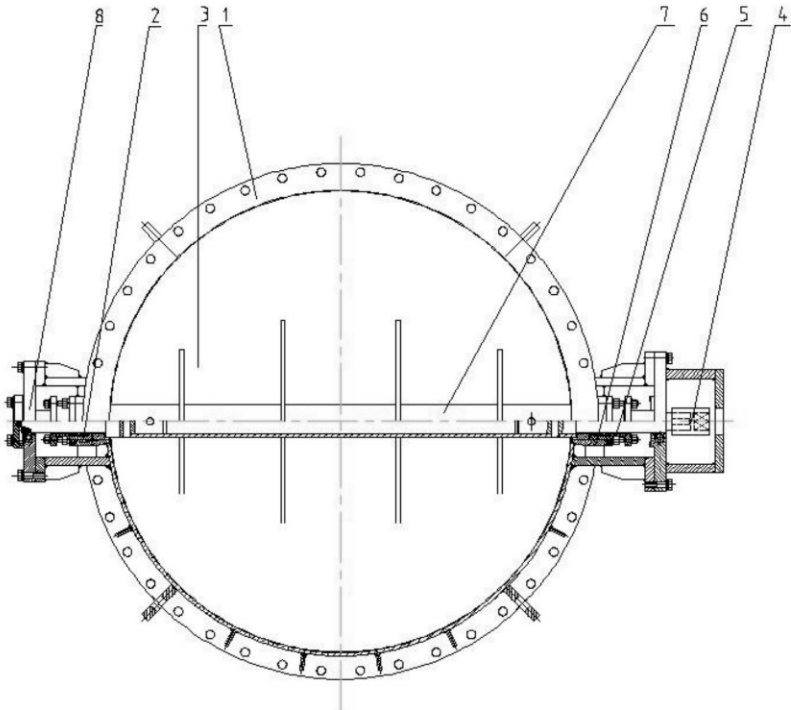


图2-2 HB2410阀体结构图 (DN1600-DN2000) Fig.2-2 body structure

◎ 阀体材质对照表 Material table

表3: 阀体常用材质中外牌号对照表 Table3: Material table

美国标准ASTM	A216-WCB	A351-CF8	A351-CF8M
中国标准GB	ZG230-450	ZG0Cr18Ni9	ZG00Cr18Ni12Mo2Ti
日本标准JIS	SCPH2	SCS13A	SCS14A
备 注NOTE	成分同ZG230-450 Same as ZG230-450	成分同304SSS ame as 304SS	成分同316SSS ame as 316SS

◎ 阀体部件主要材质温度极限 Parts material and temperature limits

阀板形式 Disc type	输出轴形式Output shaft type 使用温度范围Temperature range	材质material			
		阀体body	阀板disc	阀杆stem	阀座seat
开放型 Open type	内部轴承Inside bearing -5~200℃	WCB	WCB	2Cr13	-
		CF8	CF8	304	-
		CF8M	CF8M	316	-
	外部轴承Outside bearing -5~400℃	WCB	WCB	2Cr13	-
		CF8	CF8	304	-
		CF8M	CF8M	316	-
后座型 Backseat type	内部轴承Inside bearing -5~200℃	WCB	WCB	2Cr13	-
		CF8	CF8	304	-
		CF8M	CF8M	316	-
	外部轴承Outside bearing -5~600℃	WCB	WCB	2Cr13	-
		CF8	CF8	304	-
		CF8M	CF8M	316	-

注：如果温度高于上述材料，则需选用特殊材料。
Note: Special material is required over mentioned temperature above.

◎ 工作原理 Working principle

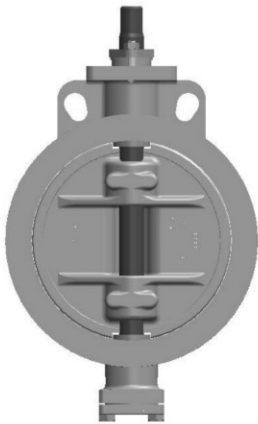


图3-1 全关状态
Fig.3-1 Fully close



图3-2 阀座与阀板逐渐脱离状态
Fig.3-2 The disc gradually breaks away from the seat



图3-3 全开状态
Fig.3-3 Fully open

■ 执行机构的选择 Actuator

型号Model		RT型气动活塞执行器 RT pneumatic piston actuator	AW型气动活塞执行器 AW pneumatic piston actuator
配阀口径DN		≤DN1200 mm (48inch)	≥DN 1400 mm (56inch)
作用形式 action type	双作用double action	不带弹簧without spring return	
	单作用single action	带弹簧复位with spring return	
用 途application		推动阀作0-90°的调节运动push the valve to move 0 ~ 90°	
作用方式 action mode	正作用direct action	气开式（通气实现阀门打开）Air to open	
	反作用reverse action	气关式（通气实现阀门关闭）Air to close	
额定行程rated stroke		0 ~ 90°	
供气压力air supply pressure		400-700Kpa	
气源接头air supply connection		Rc1/4或Rc1/2	
允许环境温度 allowable ambient temperature		标准Standard: -20 ~+80℃ 低温Low temp.: -35 ~+80℃ 高温High temp: -15 ~+150℃	-20~+90℃

注：详见“允许压差表”的执行机构标准配置

Note: Refer to “allowable Dp”

■ 附件选择 Accessories

型号Model		TZIDC型智能定位器(ABB) TZIDC intelligent positioner(ABB)	SIPART PS2型智能定位器(SIEMENS) SIPART Ps2 intelligent positioner (SIEMENS)
用 途 Application		1、实现系统信号分程控制，扩大调节范围 to realize Sub-process control system signal, expanding the adjustment range. 2、实现控制系统过程的电-气转换 to realize electrical – pneumatic conversion of control system process. 3、消除调节阀不平衡力对阀位的影响，实现精确控制 to eliminate the impact of the valve' s unbalanced force on the valve position to achieve precise control.	
输入信号Input signal		2线制4-20mA Two wire	2线制4-20mA Two wire
转动角度Turning angle		25-120°	30° -100°
供气压力Air supply pressure		280 KPa	280 KPa
气源接头Air supply connection		1/4 NPT或G1/4 1/4 NPT or G1/4	1/4 NPT或G1/4 1/4 NPT or G1/4
电气接头Electro-pneumatic thread:		1/2 NPT或M20 × 1.5 1/2 NPT or M20 × 1.5	1/2 NPT或M20 × 1.5 1/2 NPT or M20 × 1.5
防护等级Explosion-proof grade:		防护等级IP 66 (NEMA 4X)	IP68/NEMA 4x
使用环境温度Ambient temperature		-40~+85℃	-30~+80℃
性能指标 performance index	特性偏差 Characteristics deviation	≤0.5%	≤0.2%
	滞后性hysteretic nature	20ms	10ms
	耗气量air consumption	0.025 Nm³/h	0.036 Nm³/h
可选项optional		本体、本体带反馈、本体带HART、本体带HART带反馈 general, general with feedback, general with HART, general with HART and feedback	
其它定位器other positioner		SVP系列山武智能定位器 SVP AZBIL intelligent positioner YT-1000R型机械电气阀门定位器 YT-1000R electric-pneumatic positioner S-500 (Hopeway)	

续上表

型号Model		TZIDC型智能定位器(ABB) TZIDC intelligent positioner(ABB)	SIPART PS2型智能定位器(SIEMENS) SIPART Ps2 intelligent positioner (SIEMENS)
其它附件 other accessories	空气过滤减压阀 air filter regulator	T-50 (HOPEWAY)、AW (SMC)	
	电磁阀solenoid valve	气源接头1/4、3/8、1/2可选；隔爆，本安防爆，浇封防爆可选 Air supply connection 1/4、3/8、1/2; Flameproof. Intrinsically safe explosion-proof, Casting sealed explosion-proof	
	限位开关Limit switch	把阀的开关位置信号传送到控制室，以便了解现场阀的开关位置情况 Transmit the signal of valve' s open/close position to the control room	
	手轮机构hand wheel	当自动调节出现问题或需要现场手动操作阀门时用来转动阀 Driving the valve to rotate in case the automatic adjusting device goes wrong or handwheel operation is required on site.	

■ 参考信息 Reference

◎ 允许压差 Allowable DP

表6：聚四氟乙烯填料 双作用执行机构 Table 6 PTFE packing double action actuator

Kpa

公称通径 DN	允许阀闭压力Allowable pressure as valve close			执行机构actuator								
	流体温度fluid temperature			气源压力400Kpa, 阀板开度60° air supply 400Kpa .disc opening 60°								
	< 200	< 400	< 600	RT075DA	RT110 DA	RT160 DA	RT255 DA	RT435 DA	RT665DA	RT1200DA	RT1800DA	RT2700DA
80	490	159	119	260								
100	490	94.0	70.5	140								
125	392	60.7	45.0	70								
150	279	78.4	61.7		95							
200	190	46.0	34.3		55	97						
250	97.0	26.4	19.6		21	37						
300	55.8	16.6	12.7		9.4	19	20					
350	41.1	13.7	9.8		6.5	11	13	22				
400	28.4	10.7	7.8			7.2	8.2	18				
450	49.9	22.5	16.6			4.5	5.7	10	14.9			
500	37.2	17.6	14.7			3.3	4.5	7.1	10.5			
550	15.6	15.6	11.7				3.2	5.3	8.2			
600	13.7	13.7	9.8					3.5	6.3	14.3		
700	26.4	26.4	18.6						3.5	7.7		
800	20.5	20.5	14.7						2.6	5.5	8.1	
900	13.9	13.9	12.5						2.1	3.7	5.5	8.0
1000	11.2	11.2	10.0						1.5	2.7	4.5	6.5
1100	9.3	9.3	8.4						1.1		3.7	4.9
1200	9.3	9.3	8.4								2.7	3.8
1300	10.5	10.5	9.4									2.9
1500	7.5	7.5	6.7									1.9
1600	6.3	6.3	5.7									1.6
1800												
2000												

表7: 柔性石墨填料 双作用执行机构 table 7: Flexible graphite packing double action actuator

Kpa

公称通径DN	许阀闭压力Allowable pressure as valve close			执行机构actuator								
	流体温度fluid temperature			气源压力400Kpa, 阀板开度60° air supply 400Kpa .disc opening 60°								
	< 200	< 400	< 600	RT075DA	RT110 DA	RT160 DA	RT255 DA	RT435 DA	RT665DA	RT1200DA	RT1800DA	RT2700DA
80	490	159	119	111								
100	490	94.0	70.5	65								
125	392	60.7	45.0	51								
150	279	78.4	61.7		50.7							
200	190	46.0	34.3		21.4							
250	97.0	26.4	19.6		7.4							
300	55.8	16.6	12.7		4.3							
350	41.1	13.7	9.8			5.8	8.6					
400	28.4	10.7	7.8			3.8	5.5					
450	49.9	22.5	16.6			2.7	4.2					
500	37.2	17.6	14.7					6.2	10.2			
550	15.6	15.6	11.7					4.3	7.7			
600	13.7	13.7	9.8					3.1	5.9			
700	26.4	26.4	18.6						3.7			
800	20.5	20.5	14.7						2.5	5.3		
900	13.9	13.9	12.5							3.7		
1000	11.2	11.2	10.0							2.7	4.1	7.1
1100	9.3	9.3	8.4								3.0	5.2
1200	9.3	9.3	8.4								2.3	4.1
1300	10.5	10.5	9.4								1.8	3.3
1500	7.5	7.5	6.7								1.2	2.1
1600	6.3	6.3	5.7								1.1	1.6
1800												
2000												

表8: 聚四氟乙烯填料 单作用执行机构 table 8:PTFE packing single action actuator

Kpa

公称通径DN	允许阀闭压力Allowable pressure as valve close			执行机构actuator								
	流体温度fluid temperature			气源压力400Kpa, 阀板开度60° air supply 400Kpa .disc opening 60°								
	< 200	< 400	< 600	RT075 SR	RT110 SR	RT160 SR	RT255 SR	RT435 SR	RT665 SR	RT1200 SR	RT1800 SR	RT2700 SR
80	490	159	119	67	136							
100	490	94.0	70.5	35	68.3							
125	392	60.7	45.0	18	35.1							
150	279	78.4	61.7		20.0	53.3						
200	190	46.0	34.3		8.5	22.5	55					
250	97.0	26.4	19.6			9.7	25	27				

续上表

Kpa

公称通径DN	允许阀闭压力Allowable pressure as valve close			执行机构actuator								
	流体温度fluid temperature			气源压力400Kpa, 阀板开度60° air supply 400Kpa .disc opening 60°								
	< 200	< 400	< 600	RT075 SR	RT110 SR	RT160 SR	RT255 SR	RT435 SR	RT665 SR	RT1200 SR	RT1800 SR	RT2700 SR
300	55.8	16.6	12.7			5.8	10	15				
350	41.1	13.7	9.8				6.1	10	17.1			
400	28.4	10.7	7.8				5.2	6.7	11.5			
450	49.9	22.5	16.6					4.3	8.1			
500	37.2	17.6	14.7						5.4	14.9		
550	15.6	15.6	11.7						4.1	11.1		
600	13.7	13.7	9.8						3.1	8.5	12	
700	26.4	26.4	18.6						1.9	4.1	5.6	8.2
800	20.5	20.5	14.7							2.5	3.5	5.2
900	13.9	13.9	12.5							1.7	2.5	3.7
1000	11.2	11.2	10.0							1.3	1.8	2.6
1100	9.3	9.3	8.4							1.1	1.4	2.0
1200	9.3	9.3	8.4								1.2	1.4
1300	10.5	10.5	9.4									0.9
1500	7.5	7.5	6.7									
1600	6.3	6.3	5.7									
1800												
2000												

表9: 柔性石墨填料 单作用执行机构 Table 9:Flexible graphite packing single action actuator

Kpa

公称通径DN	允许阀闭压力Allowable pressure as valve close			执行机构actuator								
	流体温度fluid temperature			气源压力400Kpa, 阀板开度60° air supply 400Kpa .disc opening 60°								
	< 200	< 400	< 600	RT075 SR	RT110 SR	RT160 SR	RT255 SR	RT435 SR	RT665 SR	RT1200 SR	RT1800 SR	RT2700 SR
80	490	159	119		49.6							
100	490	94.0	70.5		25.3							
125	392	60.7	45.0		13.0							
150	279	78.4	61.7		7.5	28.2						
200	190	46.0	34.3		3.2	11.9						
250	97.0	26.4	19.6			3.9	8.1	15				
300	55.8	16.6	12.7			2.2	5.3	8.1				
350	41.1	13.7	9.8				3.4	5.3	10			
400	28.4	10.7	7.8				2.3	3.4	7.2			
450	49.9	22.5	16.6				1.2	2.3	5.1			
500	37.2	17.6	14.7						3.4	8.8		
550	15.6	15.6	11.7						2.5	6.6		

续上表

公称通径DN	允许阀闭压力Allowable pressure as valve close											
	流体温度fluid temperature			气源压力400Kpa, 阀板开度60° air supply 400Kpa .disc opening 60°								
	< 200	< 400	< 600	RT075 SR	RT110 SR	RT160 SR	RT255 SR	RT435 SR	RT665 SR	RT1200 SR	RT1800 SR	RT2700 SR
600	13.7	13.7	9.8						1.9	5.2	5.6	
700	26.4	26.4	18.6						1.0	3.2	2.8	3.8
800	20.5	20.5	14.7							2.0	1.5	2.4
900	13.9	13.9	12.5							1.3	1.0	1.7
1000	11.2	11.2	10.0									1.0
1100	9.3	9.3	8.4									
1200	9.3	9.3	8.4									
1300	10.5	10.5	9.4									
1500	7.5	7.5	6.7									
1600	6.3	6.3	5.7									
1800												
2000												

注：1、黑线框为标准配置执行器压差表；

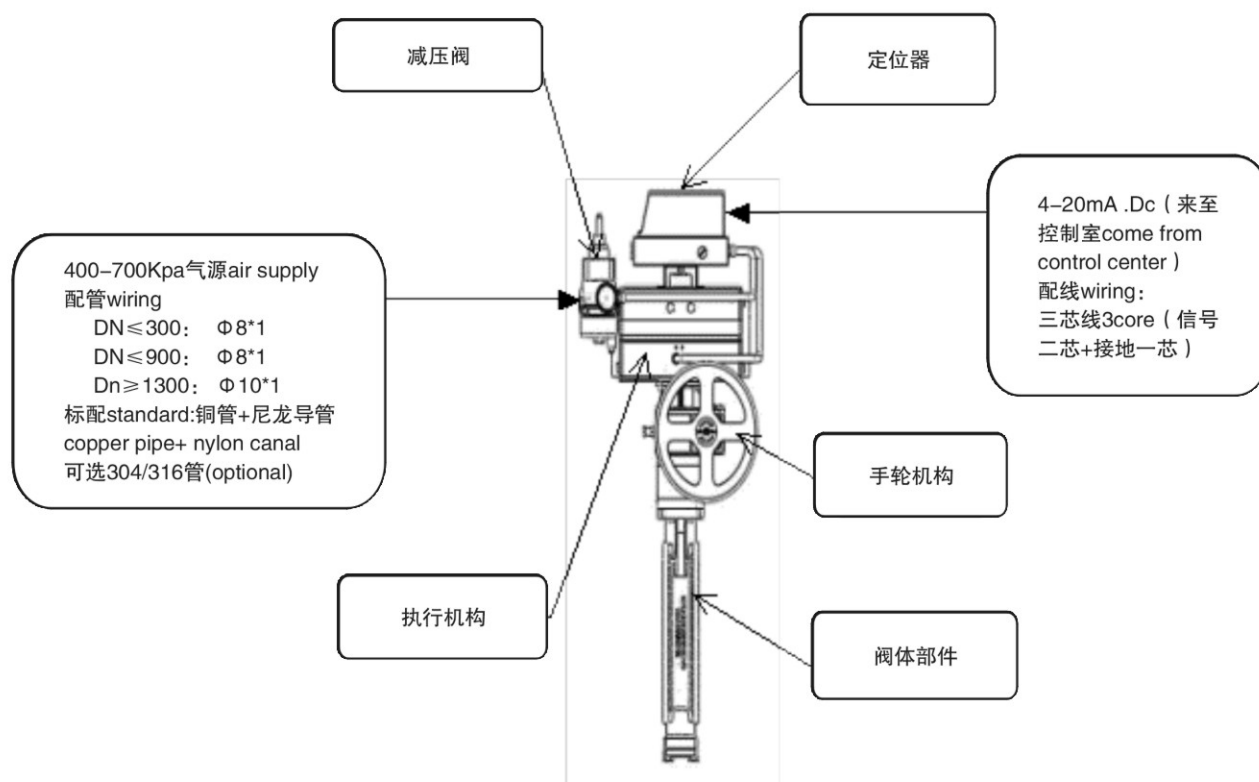
2、以上压差表为DN300（12"）以内的允许压差，DN300（12"）以上的如有需要，请与我司市场部联系。

Note:

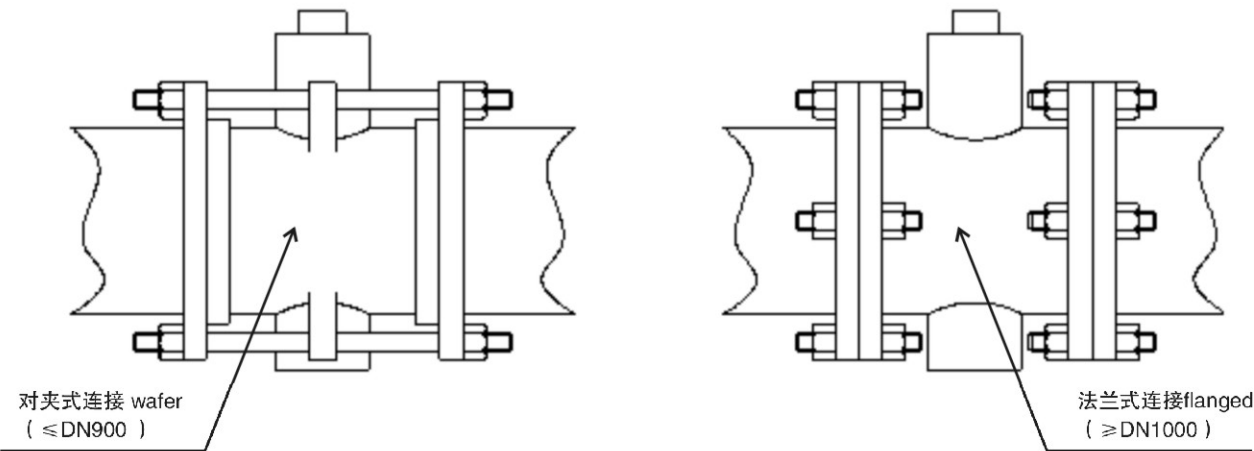
1. The number in black line indicates that the valve is equipped with standard actuator.

2. The above DP table is the Allowable DP within DN300（12"）, if over DN300（12"）, please contact our marketing dept.

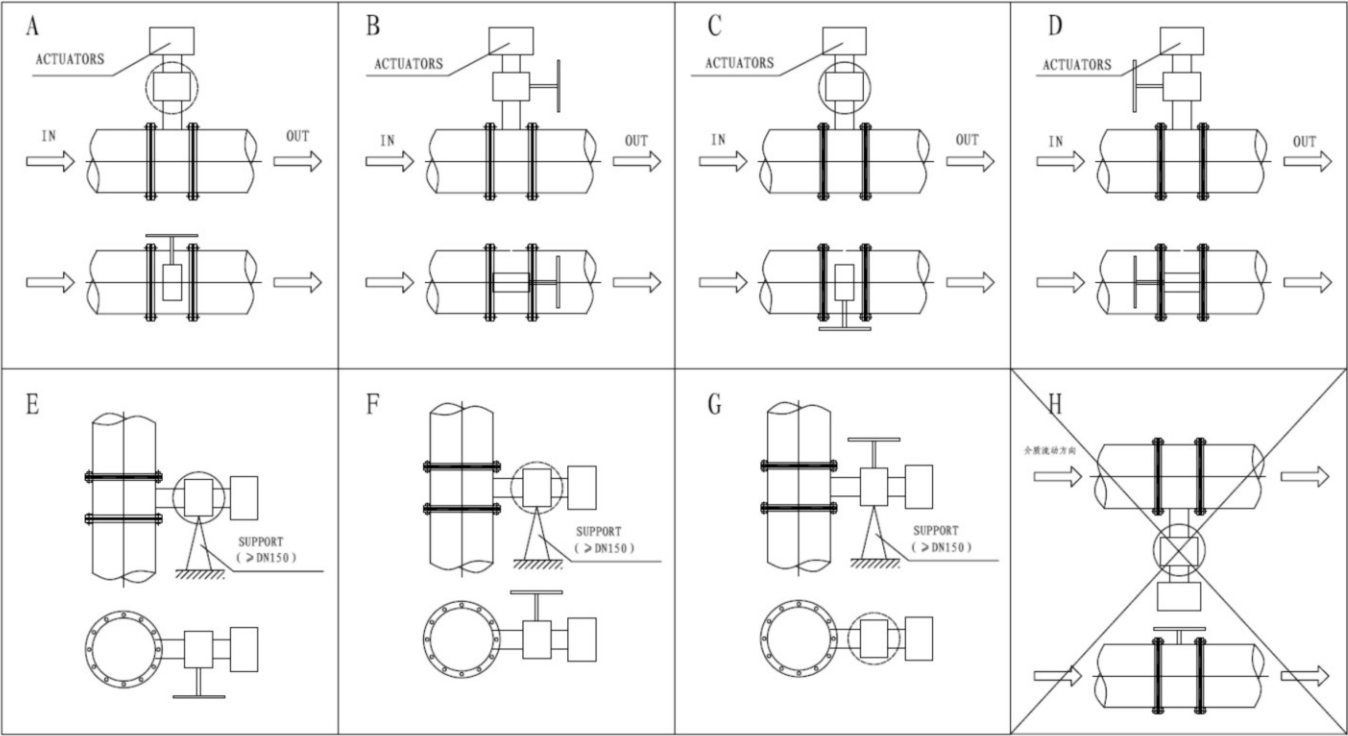
◎电/气安装配管线(图4) Tube & Wire for Power/Air Supply Connection(Fig.4)



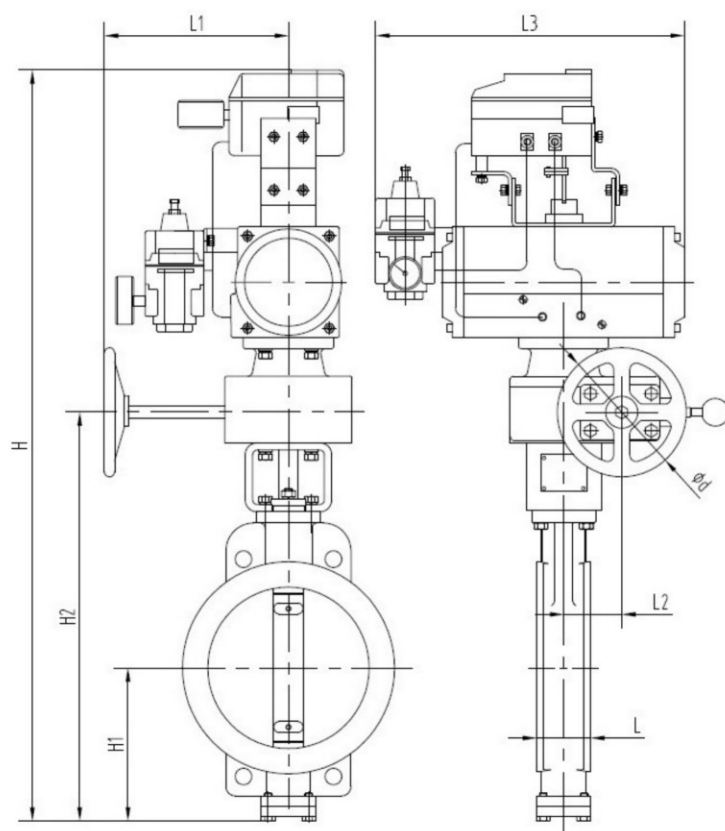
○ 阀安装示意图(图5) Valve Installation Diagram(Fig.5)



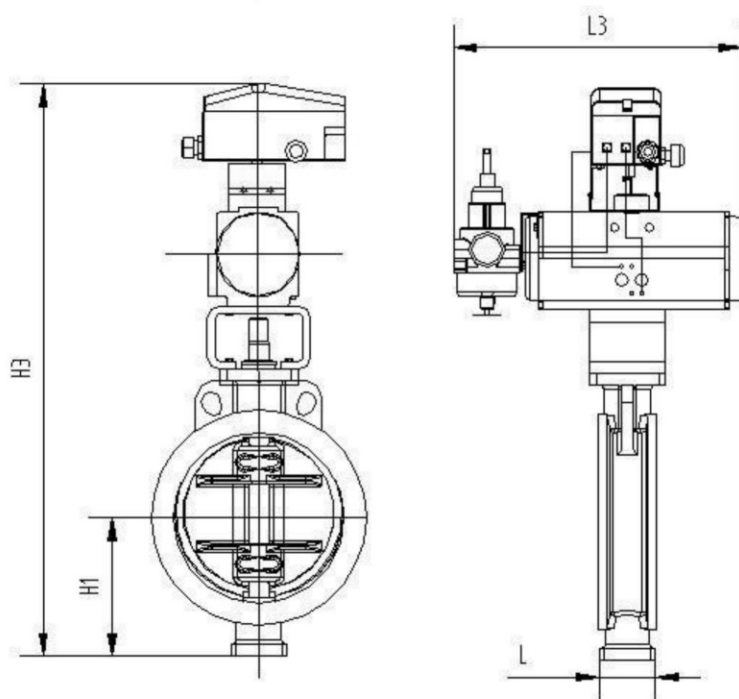
○ 阀、手轮及管道相对安装示意图(图4) Valve, hand wheel and pipe installation diagram (Fig.4)



◎ 阀安装尺寸(图6) Installation dimension (Fig. 6)



带手轮机构 (with handwheel)



不带手轮机构 (without handwheel)

表5：外形安装尺寸（依据于标准配置表，PN0.6MPa）

Table 5 installation dimension(according to the standard table, PN0.6MPa)

mm

公称通径DN	L	L1	L2	L3	d	H	H1	H2*	H3
50	60	245	42	334	140	646	77	285	555
80	60	245	42	334	140	716	93	315	605
100	60	245	42	334	140	764	103	335	655
125	60	250	53	360	160	805	141	395	697
150	60	250	53	360	160	850	154	420	742
175	60	250	53	360	160	900	166	445	792
200	70	260	74	420	295	923	188	470	795
250	70	260	74	420	295	973	205	525	845
300	80	270	74	480	295	1075	230	575	947
350	80	270	74	480	295	1167	230	630	1039
400	100	280	74	480	295	1285	290	740	1157
450	100	280	74	480	295	1335	320	790	1207
500	100	300	74	550	295	1390	350	840	1262
550	100	300	97	550	500	1440	380	900	1281
600	150	300	97	550	500	1550	404	970	1391
650	150	300	97	550	500	1600	429	1020	1441
700	150	310	97	560	500	1700	455	1090	1541
800	200	330	126	650	600	1820	510	1190	1631
900	200	330	126	650	600	2020	555	1290	1831
1000	200	345	126	760	600	2380	870	1740	2191
1200	200	330	160	1158	600	3000	1043	2100	2810
1400									
1600									
1800									
2000									

注：1、“*”表示表中尺寸H和H2为基本型的尺寸；

2、当阀门类型不一样，需按照表6中配的支架分别增加相应的高度尺寸

Note:

1. “*” indicates that H and H2 is the dimension of basic type.

2. When the valve type is not the same, please in accordance with the bracket in fig. 6 respectively add the height dimensions

表6：连接支架高度尺寸表 Table 6: height dimension of connect bracket

阀门类型 valve type	基本型basic type	高温Ⅰ型High temp.Ⅰ	高温Ⅱ型High temp.Ⅱ	高温Ⅲ型High temp.Ⅲ	高温Ⅳ型High temp.Ⅳ
适应介质温度℃ Recommended fluid temp.	≤200℃	200~450℃	450~580℃	580~690℃	690~800℃
连接支架高度 Height of connect bracket	75	150	250	450	650

◎产品重量表 Product Weight

表7: HB2410/HB2410P产品重量表 Product weight

Kg

公称通径 DN	带手轮 with handwheel		不带手轮without handwheel	
	基本型 (≤ 200℃) basic type	高温型 (200~580℃) high temperature	基本型 (≤ 200℃) basic type	高温型 (200~580℃) high temperature
50	18	20.6	13.8	16.4
80	23.4	26	19.2	21.8
100	29.4	32	23.9	27.5
125	35.7	39	29.4	32.7
150	36.7	40	30.4	33.7
175	41.7	44	38.4	37.7
200	56.2	60	45.2	49
250	65.2	69	54.2	58
300	76.2	81	75.2	70
350	89.2	94	78.2	83
400	106	107	95	96
450	123	124	112	113
500	146.5	148	135.5	137
550	183.5	185	158.5	160
600	218	221	193	206
650	264	268	239	243
700	295	297	270	272
800	413	415	388	390
900	450	452	407	409
1000	575	585	530	550
1200	825	840	800	835

注: 不含定位器等附件重量(the weight of positioned and the accessories are not included.)

◎选型规则表 Model Selection

选型举例 example	基本型号 type	口径 DN	公称压力 PN	阀体材质 body material	阀内件材质 trim material	泄漏等级 leakage	阀作用方式 action type
例1 ex.1	HB2410	100	6	WCB	WCB	2	K
例2 ex. 2	HB2410P	800	6	CF8	CF8	2	B
公称通径DN		50					
		80					
		100					
		125					
		150					
		175					

续上表

选型举例 example	基本型号 type	口径 DN	公称压力 PN	阀体材质 body material	阀内件材质 trim material	泄漏等级 leakage	阀作用方式 action type
公称通径DN		200					
		250					
		300					
		350					
		400					
		450					
		500					
		550					
		600					
		650					
		700					
		800					
		900					
		1000					
		1100					
		1200					
		1300					
		1400					
		其它 other					
公称压力 PN		PN6					
		ANSI 125					
		其它					
阀体材质 body material			WCB				
			CF8				
			CF8M				
			CF3M				
			其他（注明）				
阀板材质 Disc material				WCB			
				CF8			
				CF8M			
				CF3M			
				其他（注明）			
泄漏等级 Leakage						Ⅱ（2）	气开K 气闭B
作用方式 Action type							

代理商:

Agent:

制造商: 重庆海王仪器仪表有限公司

Manufacturer: Chongqing Hopeway Instrument Co., Ltd.

网址website: www.cqhw.com