YD200E系列高性能偏心球阀

YD200E Series High Performance Eccentric Ball Valves

控制阀顶级专家

TOP CONTROL VALVES EXPERT

YADi FLUID CONTROL

无锡市亚迪流体控制技术有限公司

WUXI YADI FLUID CONTROL TECHNOLOGY CO. , LTD

YD200E SERIES

高性能偏心球阀
High Performance Eccentric Ball Valves

技术特点概述 Description

YD200E系列高性能偏心球阀具有以下特点:

- 独特的偏心部分球面结构,适于调节应用场合.与球形阀相比,具有阀体尺寸精小,重量轻,Cv值及可调比大.与球形阀相比Cv值大可调比(R=100).特别适用于纤维质、脏、粘性及腐蚀性流体的控制.
- 球体的偏心设计提高了控制性能,大大降低阀门启闭时球和阀座的摩擦,延长了阀门使用寿命,同时扭矩也比较小.
- 多种组合的金属密封,即使用于含金属的浆料也能有效降低磨损及擦伤,保证稳定工作.

YD200E series is eccentric type segmental ball valve for modulating application. Comparing to globe valve, body size is compact, Light weight, and yet it has large Cv value, Large rangeability(Comparing to globe valve, it has large Cv value, and large rangeability,R=100:1), and can be convertible to reduced bore type (60%, 40% reduce) by changing seal ring only. It is especially suit for control of fibrous, dirty, viscous and corrosive medium.

Comparing to globe valve, it has large Cv value, and large rangeability(100:1).

Ideal eccentric design improves the characteristic of fluid control and reduces the friction between ball and seat to prolongs the life of the valve, the valve requires lesser torque.

Wide selection of Hard Facing contributes to low abrasion and retain stability by reducing the wear and tear even during metallic slurry line.

技术参数 Technical Data

表 1 Table 1

阀体形式 Body type	偏心旋转球阀 Eccentric Segmental Control Ball Valve
公称通径 Body size	DN25~DN300 (1"~12")
公称压力 Body rating	PN1.6~PN6.3MPa; ANSI CLASS 150~600#; JIS10K~40K
连接方式 Connections	对夹式 Wafer (法兰式可选 Flange is optional)
阀体及阀盖材质 Body and bonnet materials	碳钢 SCPH2/ASTM 216-WCB/A105; 304不锈钢 ASTM 351- CF8/F304/SCS13A; 316不锈钢 ASTM 351-CF8M/F316/SCS14A ,etc.
球体材质 Ball materials	304-HCr;316-HCr; 304-Stellited;316-Stellited,etc
阀板形状 Disc type	部分球面 Segmental Ball
阀板材质 Disc material	316-HCr; 316-DS
阀杆材质 Stem materials	316-HCr; SUS630/630-PH(析出硬化处理)
阀座材质 Seat materials	强化聚四氟乙烯 R.TFE; SUS304/304; SUS316/316
上阀盖形式 Bonnet type	标准型 STD: -45~450°C
使用温度 Temperature	-45~450°C
填料 Packing	聚四氟乙烯 PTFE,使用温度≤200°C use temp≤200°C; 柔性石墨 Graphite,使用温度 > 200°C use temp > 200°C;
流量特性 Characteristic	近似线性 Approximate Linear ; 开关 ON-OFF
涂层 Painting color	灰色 Light grey 不锈钢阀体不涂色 Stainless steel body have no paint

结构部件及材质 Body Constructions and Materials

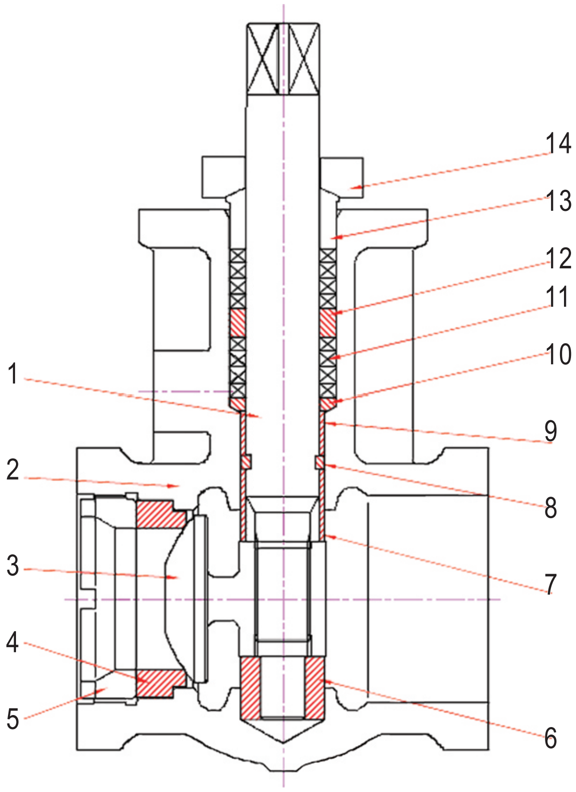


表2 Table2：质材零件阀体 Materials of Body

序号NO	名称Description		标准材料 Standard Materials
1	阀杆	Stem	630/SUS630(PH); 316/SUS316(HCr)
2	阀体	Body	WCB/SCPH2; CF8/SCS13A; CF8M/SCS14A,etc
3	球体	Sphere	304-HCr; 316-HCr; 304-Stellited; 316-Stellited
4	阀座	Seat	强化聚四氟乙烯 RTFE; SUS304/304; SUS316/316
5	压圈	Spacer	316/A351-CF8/CF8M;410;A182-F11
6	导向套A	Guide A	316/A351-CF8/CF8M;440C
7	导向套B	Guide B	316/A351-CF8CF8M;440C
8	隔圈	Spacer	304/A351-CF8
9	导向套C	Guide C	316/A351-CF8/CF8M;440C
10	填料垫	Packing Seat	304/A351-CF8
11	填料	Packing	聚四氟乙烯 PTFE; 柔性石墨 Graphite
12	填料隔套	Packing Spacer	304/A351-CF8
13	填料压套	Packing Follower	304/A351-CF8
14	填料压盖	Packing Flange	304/A351-CF8

注：以上涉及材料为阀门常用材料，本公司也可以根据客户要求进行特殊设计和制造.
The data above are universal, yet we can design and manufacture for clients'special requests.

阀体、阀内件材料组合及使用温度范围以及阀座允许泄漏量
Materail combinations,using temperature and allowable leakage of seat

表3 Table3 阀体材料:WCB/SCPH2 CF8/SCS13A
Materials of Body: WCB/SCPH2 CF8/SCS13A

阀体材料 Body Materials		WCB, CF8				
阀板 Disc	材料 Materials	CF8M	CF8M	CF8M	CF8M	CF8M
	处理 Treatment	镀硬铬 HCr	镀硬铬 HCr	镀硬铬 HCr	镀硬铬 HCr	镀硬铬 HCr
阀杆 Stem	材料 Materials	630SS	630SS	630SS	630SS	630SS
	处理 Treatment	析出硬化处理 PH	析出硬化处理 PH	析出硬化处理 PH	析出硬化处理 PH	析出硬化处理 PH
轴承 Bearing	材料 Materials	316SS	316SS	316SS	316SS	316SS
	处理 Treatment	镀硬铬 HCr	镀硬铬 HCr	镀硬铬 HCr	镀硬铬 HCr	镀硬铬 HCr
密封环 Balance Ring	形式 Form	FN 形式	FV 形式	CS 形式	H 形式	HS 形式
	材料 Materials	强化聚四氟乙烯 R.TFE	强化聚四氟乙烯 R.TFE	强化聚四氟乙烯 R.TFE	630SS	316SS
	处理 Treatment	加二硫化钼 MoS2	加二硫化钼 MoS2	碳纤维 Carbon Fibre	析出硬化处理 PH	部分堆焊 DS
	垫环 Gasket	丁青橡胶 NBR.O	氟化橡胶 VITON.O	316SS	NON	NON
允许泄露量 Allowable Leakage	ANSI	Class VI	Class VI		Class IV	Class IV
	R.Cv X	微气泡级 mimim bubble	微气泡级 mimim bubble	0.000001% 内	0.01% 内	0.01% 内
使用温度 Using Temp	WCB	-5~60°C	-5~180°C	-5~250°C	-5~450°C	-5~450°C
	CF8	-45~60°C	-10~180°C	-45~250°C	-45~450°C	-45~450°C

表4 Table4 阀体材料:CF8M/SCS14A
Materials of Body: CF8M/SCS14A

阀体材料 Body Materials		CF8			
阀板 Disc	材料 Materials	CF8M	CF8M	CF8M	CF8M
	处理 Treatment	镀硬铬 HCr	镀硬铬 HCr	镀硬铬 HCr	镀硬铬 HCr
阀杆 Stem	材料 Materials	316SS	316SS	316SS	316SS
	处理 Treatment	NON	NON	NON	NON
轴承 Bearing	材料 Materials	316SS	316SS	316SS	316SS
	处理 Treatment	镀硬铬 HCr	镀硬铬 HCr	镀硬铬 HCr	镀硬铬 HCr
密封环 Balance Ring	形式 Form	FN	FV	CS	HS
	材料 Materials	强化聚四氟乙烯 R.TFE	强化聚四氟乙烯 R.TFE	强化聚四氟乙烯 R.TFE	316SS
	处理 Treatment	加二硫化钼 MoS2	加二硫化钼 MoS2	碳纤维 Carbon Fibre	部分堆焊 DS
	垫环 Gasket	丁青橡胶 NBR.O	氟化橡胶 VITON.O	316SS	NON
允许泄露量 Allowable Leakage	ANSI	Class VI	Class VI		Class IV
	R.Cv X	微气泡级 Minim bubble	微气泡级 Minim bubble	0.000001%内	0.01%内
使用温度 Using Temp	CF8	-45~60°C	-10~180°C	-45~250°C	-45~450°C

YD200E额定Cv值(60°开度) Rated Cv(Open Degree:60°)

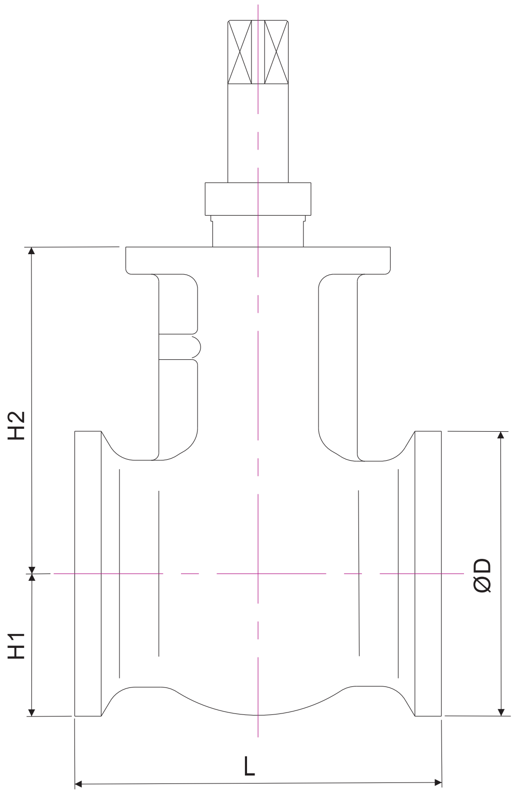
表5 Table5 Full:全腔型 Reduce:缩腔型

行程 Travel(%)			10	20	30	40	50	60	70	80	90	100
公称通径 Valve Size		型腔形式 Bore type	额定Cv值 Rated Cv									
inch	mm											
1	25	Full	0.845	1.915	3.212	4.87	6.9	8.94	10.62	11.95	13	14
		Reduce 40%	0.32	0.678	1.13	1.64	2.31	3.15	4.03	4.85	5.49	6
		Reduce 60%										
1-1/2	40	Full	1.82	4.08	6.89	10.44	14.95	19.2	22.76	25.62	27.9	30
		Reduce 40%	0.677	1.38	2.23	3.32	4.64	6.3	8.11	9.07	10.98	12
		Reduce 60%										
2	50	Full	3.025	6.82	11.47	17.4	24.78	31.95	37.94	42.68	46.44	50
		Reduce 40%	1.09	2.228	3.732	5.48	7.71	10.5	13.47	15.78	18.29	20
		Reduce 60%										
2-1/2	65	Full	6.05	13.64	22.95	34.8	49.55	63.95	75.88	85.36	92.88	100
		Reduce 40%	2.18	4.56	7.464	10.96	15.42	21	26.94	31.52	36.58	40
		Reduce 60%										
3	80	Full	8.47	19.1	32.13	48.72	69.37	89.46	106.2	119.5	130	140
		Reduce 40%	3.052	6.348	10.45	15.34	21.59	29.4	37.71	44.17	51.21	56
		Reduce 60%										
4	100	Full	14.52	32.74	55.08	83.52	118.9	153.4	182.1	204.9	222.9	240
		Reduce 40%	5.232	10.94	17.92	26.3	37	50.4	64.67	75.73	87.88	96
		Reduce 60%										
5	125	Full	20	45.01	75.74	114.8	163.5	210.9	250.4	281.7	306.5	330
		Reduce 40%	7.194	15.05	24.63	36.17	50.87	69.3	88.89	104.1	120.7	132
		Reduce 60%										
6	150	Full	33.28	75.02	126.3	191.4	272.5	351.5	417.3	469.5	510.8	550
		Reduce 40%	12	25.08	41.05	60.3	84.81	115.5	148.2	173.5	201.2	220
		Reduce 60%	18.98	37.62	61.58	90.42	127.2	173.3	222.2	260.3	301.8	330
8	200	Full	54.46	122.7	206.6	313.2	446	575.1	682.9	768.2	835.9	900
		Reduce 40%	19.62	41.04	67.18	98.64	138.8	189	242.4	284	329.2	360
		Reduce 60%	31.05	61.56	100.8	148	208.2	283.5	363.6	426	493.8	540
10	250	Full	81.68	184.1	309.8	469.8	668.9	862.7	1024	1152	1254	1350
		Reduce 40%	29.43	61.56	100.8	148	208.2	283.5	363.6	426	493.8	540
		Reduce 60%	46.58	92.34	151.2	221.9	312.6	425.3	545.5	638.9	740.7	810
12	300	Full	108.9	245.5	413.1	626.4	891.9	1150	1366	1536	1672	1800
		Reduce 40%	39.24	82.01	134.4	197.3	277.6	378	282.4	484.8	658.4	720
		Reduce 60%	62.1	123.1	201.5	295.9	416.4	567	727.3	851.9	987.6	1080

Cv值根据本公司标准设计，也可以按照客户要求特殊设计.
阀门口径大于300A的Cv值请咨询YADI技术部.

The rating Cv is designed by the standard of YADI. Yet we can design them for client's special request.
You can ask for the Cv to YADI technology department if the valve size goes beyond 300A.

尺寸(mm)和重量(Kg) Dimensions[mm] and Weights[Kg]



阀本体部尺寸和重量 Dimensions[mm] and Weights[Kg] of Body

表6 尺寸 Table 6 Dimensions

阀门口径 Vale Size		L	D(ANSI)	ANSIClass 150,300# PN 1.6MPa,PN4.0MPa JIS10K,20K,30K		ANSIClass 600# PN 6.3MPa JIS40K	
mm	inch			H1	H2	H1	H2
25	1	102	51	35	100	35	100
40	1--1/2	114	73	45	110	45	110
50	2	124	92	50	125	50	125
65	2--1/2	143	105	60	135	60	135
80	3	165	127	70	145	70	145
100	4	194	157	80	180		
125	5	213	186	90	215		
150	6	229	216	110	230		
200	8	243	270	135	275		
250	10	297	324	165	310		
300	12	338	381	190	345		

以上尺寸和重量仅限于压力等级在ANSI600#以内,压力等级大于ANSI600#的阀体尺寸和重量以及阀体口径大于300A的尺寸和重量请咨询技术部或营业部。
The dimensions and weights above are within the pressure rating ANSI600#.You could ask for the rest data to the technology department and business department.

表7 重量 Table 7 Weights

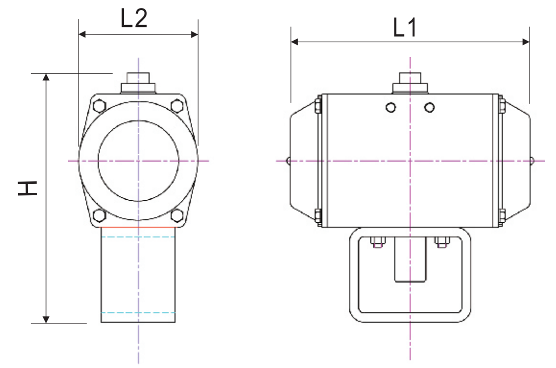
阀门口径 Valve Size	mm / inch	25 1"	40 1-1/2"	50 2"	65 1-1/2"	80 3"	100 4"	125 5"	150 6"	200 8"	250 10"	300 12"
ANSI Class150#,300#,600# JIS10K,20K,30K PN1.6MPa,4.0MPa		7	8	11	13	19	18.5	35.5	54	89	121.5	163.5
ANSI Class 600# JIS40K PN6.3MPa		7	8	11	13	19						

1.以上数据为理论值,仅提供参考.
2.部分尺寸请咨询YADI技术部.
The data above are academic.
You can ask for part of dimensins to YADI technology department about the bodys.

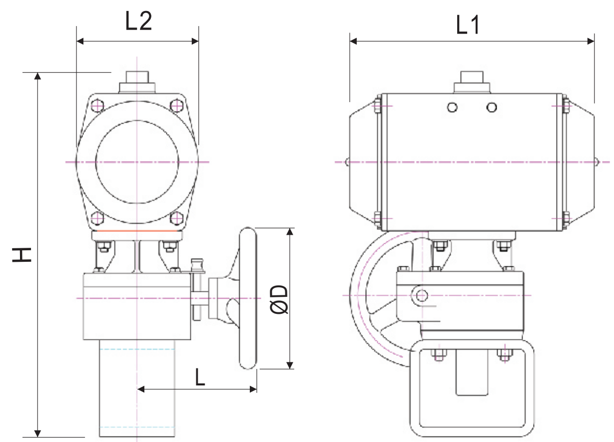
执行机构尺寸和重量 Dimensions[mm] and Weights[Kg] of Actuator

配PC00RA执行机构尺寸与重量 Dimensions[mm] and Weights[Kg] of PC00RA Actuator

执行机构外形图 Fig of Actuator



单(双)动作执行机构 不带手轮 Single(Double) Action Actuator Without Wheel



单(双)动作执行机构 带手轮 Single(Double) Action Actuator With Wheel

AT执行机构的尺寸与重量请咨询YADI技术部.
Ask for the dimensions and weights of AT actuator to YADI technology department.

PC00RA执行机构尺寸(mm) PC00RA Actuator Dimensions(mm)

PC00RA单双作用执行机构尺寸(不带手轮) PC00RA Actuator Dimensions(without wheel Table6)
PC00RA单双作用执行机构尺寸(带手轮) PC00RA Actuator Dimensions(with wheel Table7)

表8 Table8

执行机构型号 Actuator Size	L1	L2	H
PC05RA	150	60	105
PC10RA	170	75	120
PC20RA	185	85	130
PC25RA	205	90	140
PC30RA	260	105	150
PC35RA	270	115	165
PC40RA	300	140	185
PC45RA	390	155	205
PC50RA	460	180	230
PC55RA	525	210	260
PC60RA	535	230	285
PC65RA	605	260	320
PC70RA	725	295	350
PC75RA	745	325	380
PC80RA	860	380	435

不带手轮

表9 Table9

执行机构型号 Actuator Size	L1	L2	H	ΦD	
				单动作 Single Action	双动作 Double Action
PC05RA	150	60	105	200	200
PC10RA	170	75	120	200	200
PC20RA	185	85	130	200	200
PC25RA	205	90	140	200	200
PC30RA	260	105	150	200	200
PC35RA	270	115	165	200	200
PC40RA	300	140	185	200	200
PC45RA	390	155	205	300	300
PC50RA	460	180	230	300	300
PC55RA	525	210	260	400	300
PC60RA	535	230	285	400	300
PC65RA	605	260	320	600	400
PC70RA	725	295	350	600	400
PC75RA	745	325	380	600	600
PC80RA	860	380	435	600	600

带手轮

PC00RA执行机构重量(Kg) PC00RA Actuator Weights(Kg)

表10 Table10

执行机构型号 Actuator Size		PC05RA	PC10RA	PC20RA	PC25RA	PC30RA	PC35RA	PC40RA	PC45RA
带手轮 With	单动作 Single	13.3	13.8	14.5	15.2	20.1	22	24.3	35.3
	双动作 Double	13.1	14	14.2	14.9	19.3	21.2	23.8	32.2
不带手轮 Non	单动作 Single	1.3	2	2.5	3.2	5.1	7	9.3	15.3
	双动作 Double	1.1	1.8	2.2	2.9	4.3	6.2	8.8	12.2
L		195	195	195	195	195	195	225	235

续表10 Continued Table 10

执行机构型号 Actuator Size		PC50RA	PC55RA	PC60RA	PC65RA	PC70RA	PC75RA	PC80RA
带手轮 With	单动作 Single	43.8	69.8	78.6	111.8	150	165	269.4
	双动作 Double	40.1	58.1	65.1	88	118.8	145	121.5
不带手轮 Non	单动作 Single	23.8	44.8	53.6	76.8	115	130	234.4
	双动作 Double	20.1	38.1	45.1	63	93.8	110	186.5
L		235	235	235	280	280	325	325

YD200B配用PA00RA执行机构的尺寸和重量请咨询YADI技术部.
You can ask for the data about PA00RA Actuator to YADI technology department.

最大允许压差(MPa G) Maximal Allowable Pressure Drop

Shut:阀关闭时的允许压差 Allowable Pressure Drop When Shut
△P:60°开度时允许压差 Allowable Pressure Drop When 60° Opening
双动作活塞式执行机构(ALPHA执行机构) Double Action Pneumatic Actuator (ALPHA Actuator)
气源压力: 400KPa G Air Supply:400KPa G

表11 Table11

执行机构 Actuator	阀杆材料 Materials	作用状态 State	填料: PTFE Packing: PTFE										
			1	1.5	2	2.5	3	4	5	6	8	10	12
PC10RA(DA63)	17-4PH	Shut	4.98	2.03									
		△P	3.92	2.02									
	316SS	Shut	4.98	2.03									
		△P	3.92	2.02									
PC20RA(DA75)	17-4PH	Shut		3.52	1.53								
		△P		3.1	1.55								
	316SS	Shut		3.52	1.53								
		△P		3.1	1.55								
PC25RA(DA83)	17-4PH	Shut		4.98	2.85	1.02							
		△P		3.92	2.53	1.08							
	316SS	Shut		4.98	2.85	1.02							
		△P		3.92	2.53	1.08							
PC30RA(DA92)	17-4PH	Shut			4.67	2.02	1.17						
		△P			3.87	1.82	1.15						
	316SS	Shut			3.59	2.02	1.17						
		△P			3.55	1.82	1.15						
PC35RA(DA105)	17-4PH	Shut				3.41	2.05	0.9					
		△P				2.85	1.79	0.89					
	316SS	Shut				3.41	2.05	0.9					
		△P				2.85	1.79	0.89					
PC40RA(DA125)	17-4PH	Shut				4.98	3.64	1.77	1.08				
		△P				3.92	2.97	1.55	1				
	316SS	Shut				4.98	3.64	1.77	1.08				
		△P				3.92	2.97	1.55	1				
PC45RA(DA140)	17-4PH	Shut					4.98	3.53	2.23	1.03			
		△P					3.92	2.85	1.85	0.92			
	316SS	Shut					3.82	3.53	2.23	1.03			
		△P					3.6	2.85	1.85	0.92			
PC50RA(DA160)	17-4PH	Shut						4.98	3.69	1.8	0.96		
		△P						3.92	2.92	1.48	0.84		
	316SS	Shut						4.95	3.18	1.8	0.96		
		△P						3.92	2.92	1.48	0.84		
PC55RA(DA190)	17-4PH	Shut							4.98	3.17	1.75	0.96	
		△P							3.92	2.48	1.41	0.82	
	316SS	Shut							3.18	3.17	1.75	0.96	
		△P							2.93	2.48	1.41	0.82	
PC60RA(DA210)	17-4PH	Shut								3.97	2.21	1.24	0.76
		△P								2.93	1.73	1.02	0.66
	316SS	Shut								3.22	1.78	1.24	0.76
		△P								2.91	1.65	1.02	0.66
PC65RA(DA240)	17-4PH	Shut								4.98	3.41	1.97	1.24
		△P								2.93	2.6	1.54	1
	316SS	Shut								3.22	1.78	1.53	1.24
		△P								2.91	1.65	1.41	1
PC70RA(DA270)	17-4PH	Shut									4.08	3.15	2.02
		△P									2.93	2.38	1.55
	316SS	Shut									1.78	1.53	1.53
		△P									1.65	1.41	1.39
PC75RA(DA300)	17-4PH	Shut									4.08	3.5	2.7
		△P									2.93	2.93	2.04
	316SS	Shut									1.78	1.53	1.53
		△P									1.65	1.41	1.39
PC80RA(DA350)	17-4PH	Shut										3.5	3.46
		△P										2.93	2.93
	316SS	Shut										1.53	1.53
		△P										1.41	1.39

最大允许压差(MPa G)　Maximal Allowable Pressure Drop

Shut:阀关闭时的允许压差　Allowable Pressure Drop When Shut
△P:60°开度时允许压差　Allowable Pressure Drop When 60° Opening
双动作活塞式型执行机构(ALPHA执行机构)　Double Action Pneumatic Actuator (ALPHA Actuator)
气源压力:400KPa G　Air Supply:400KPa G

表12　Table12

执行机构	阀杆材料	作用状态	填料: 柔性石墨 Packing: Graphite										
Actuator	Materials	State	1	1.5	2	2.5	3	4	5	6	8	10	12
PC10RA(DA63)	17-4PH	Shut	2.63	0.8									
		△P	2.3	0.99									
	316SS	Shut	2.63	0.8									
		△P	2.3	0.99									
PC20RA(DA75)	17-4PH	Shut	4.98	2.29	0.92								
		△P	3.92	2.08	1.04								
	316SS	Shut	4.99	2.29	0.92								
		△P	3.92	2.08	1.04								
PC25RA(DA83)	17-4PH	Shut		4.96	2.24								
		△P		3.92	2.01								
	316SS	Shut		4.96	2.24								
		△P		3.92	2.01								
PC30RA(DA92)	17-4PH	Shut			4.07	1	0.52						
		△P			3.36	0.96	0.6						
	316SS	Shut			2.98	1	0.52						
		△P			3.03	0.96	0.6						
PC35RA(DA105)	17-4PH	Shut			4.98	2.39	1.4						
		△P			3.92	1.99	1.25						
	316SS	Shut			2.98	2.39	1.4						
		△P			3.03	1.99	1.25						
PC40RA(DA125)	17-4PH	Shut				4.9	2.99	1.2	0.7				
		△P				3.84	2.43	1.05	0.68				
	316SS	Shut				4.9	2.99	1.2	0.7				
		△P				3.84	2.43	1.05	0.68				
PC45RA(DA140)	17-4PH	Shut					4.98	2.94	1.85	0.7			
		△P					3.92	2.35	1.52	0.64			
	316SS	Shut					3.18	2.94	1.85	0.7			
		△P					3.05	2.35	1.52	0.64			
PC50RA(DA160)	17-4PH	Shut						4.98	3.3	1.47	0.77		
		△P						3.92	2.59	1.21	0.68		
	316SS	Shut						4.36	2.79	1.47	0.77		
		△P						3.92	2.59	1.21	0.68		
PC55RA(DA190)	17-4PH	Shut							4.98	2.83	1.56	0.79	0.45
		△P							3.92	2.21	1.25	0.68	0.42
	316SS	Shut							2.79	2.83	1.56	0.79	0.45
		△P							2.6	2.21	1.25	0.68	0.42
PC60RA(DA210)	17-4PH	Shut								3.64	2.02	1.08	0.63
		△P								2.79	1.58	0.88	0.55
	316SS	Shut								2.9	1.6	1.08	0.63
		△P								2.64	1.49	0.88	0.55
PC65RA(DA240)	17-4PH	Shut								4.98	3.22	1.8	1.11
		△P								2.93	2.44	1.4	0.89
	316SS	Shut								2.9	1.6	1.36	1.11
		△P								2.64	1.49	1.27	0.89
PC70RA(DA270)	17-4PH	Shut									3.89	2.98	1.89
		△P									2.93	2.24	1.45
	316SS	Shut									1.6	1.36	1.4
		△P									1.49	1.27	1.28
PC75RA(DA300)	17-4PH	Shut										3.33	2.57
		△P										2.89	1.93
	316SS	Shut										1.36	1.4
		△P										1.27	1.28
PC80RA(DA350)	17-4PH	Shut											3.33
		△P											2.85
	316SS	Shut											1.4
		△P											1.28

最大允许压差(MPa G) Maximal Allowable Pressure Drop

Shut:阀关闭时的允许压差 Allowable Pressure Drop When Shut

△P:60°开度时允许压差 Allowable Pressure Drop When 60° Opening

单动作弹簧复位型执行机构(ALPHA执行机构) Single Action Spring Return Actuator (ALPHA Actuator)

气源压力:400KPa G Air Supply:400KPa G

表13 Table13

执行机构 Actuator	阀杆材料 Materials	作用状态 State	填料: PTFE Packing: PTFE										
			1	1.5	2	2.5	3	4	5	6	8	10	12
PC10RA(SR63)	17-4PH	Shut											
		△P											
	316SS	Shut											
		△P											
PC20RA(SR75)	17-4PH	Shut	1.29										
		△P	1.08										
	316SS	Shut	1.29										
		△P	1.08										
PC25RA(SR83)	17-4PH	Shut	3.02	0.97									
		△P	2.12	0.91									
	316SS	Shut	3.02	0.97									
		△P	2.12	0.91									
PC30RA(SR92)	17-4PH	Shut	4.98	2.09	0.82								
		△P	3.64	1.58	0.79								
	316SS	Shut	4.98	2.09	0.82								
		△P	3.64	1.58	0.79								
PC35RA(SR105)	17-4PH	Shut		3.81	1.68	0.36							
		△P		2.6	1.3	0.4							
	316SS	Shut		3.81	1.68	0.36							
		△P		2.6	1.3	0.4							
PC40RA(SR125)	17-4PH	Shut		4.98	3	1.1	0.59						
		△P		3.92	2.1	0.84	0.52						
	316SS	Shut		4.98	3	1.1	0.59						
		△P		3.92	2.1	0.84	0.52						
PC45RA(SR140)	17-4PH	Shut			4.98	2.91	1.73	0.73	0.38				
		△P			3.92	1.94	1.22	0.57	0.37				
	316SS	Shut			4.98	2.91	1.73	0.73	0.38				
		△P			3.92	1.94	1.22	0.57	0.37				
PC50RA(SR160)	17-4PH	Shut				4.42	2.69	1.25	0.73	0.24			
		△P				2.85	1.79	0.89	0.58	0.25			
	316SS	Shut				4.42	2.69	1.25	0.73	0.24			
		△P				2.85	1.79	0.89	0.58	0.25			
PC55RA(SR190)	17-4PH	Shut					4.98	2.88	1.81	0.8			
		△P					3.57	1.88	1.22	0.59			
	316SS	Shut					4.98	2.88	1.81	0.8			
		△P					3.57	1.88	1.22	0.59			
PC60RA(SR210)	17-4PH	Shut						3.65	2.31	1.07	0.54		
		△P						2.35	1.52	0.74	0.42		
	316SS	Shut						3.65	2.31	1.07	0.54		
		△P						2.35	1.52	0.74	0.42		
PC65RA(SR240)	17-4PH	Shut						4.98	3.7	1.8	0.96	0.49	0.26
		△P						3.62	2.35	1.19	0.67	0.38	0.24
	316SS	Shut						4.95	3.7	1.8	0.96	0.49	0.26
		△P						3.62	2.35	1.19	0.67	0.38	0.24
PC70RA(SR270)	17-4PH	Shut							4.98	3.31	1.84	1.02	0.66
		△P							3.92	2.09	1.19	0.69	0.44
	316SS	Shut							3.18	3.22	1.78	1.02	0.66
		△P							2.93	2.09	1.18	0.69	0.44
PC75RA(SR300)	17-4PH	Shut									2.14	1.2	0.73
		△P									1.36	0.79	0.51
	316SS	Shut									1.78	1.2	0.73
		△P									1.36	0.79	0.51
PC80RA(SR350)	17-4PH	Shut									2.94	1.69	1.06
		△P									1.83	1.07	0.7
	316SS	Shut									1.78	1.53	1.06
		△P									1.65	1.07	0.7

最大允许压差(MPa G) Maximal Allowable Pressure Drop

Shut:阀关闭时的允许压差 Allowable Pressure Drop When Shut
△P:60°开度时允许压差 Allowable Pressure Drop When 60° Opening
单动作弹簧复位型执行机构(ALPHA执行机构) Single Action Spring Return Actuator (ALPHA Actuator)
气源压力:400KPa G Air Supply:400KPa G

表14 Table14

执行机构 Actuator	阀杆材料 Materials	作用状态 State	填料: 柔性石墨 Packing: Graphite										
			1	1.5	2	2.5	3	4	5	6	8	10	12
PC10RA(SR63)	17-4PH	Shut											
		△P											
	316SS	Shut											
		△P											
PC20RA(SR75)	17-4PH	Shut											
		△P											
	316SS	Shut											
		△P											
PC25RA(SR83)	17-4PH	Shut											
		△P											
	316SS	Shut											
		△P											
PC30RA(SR92)	17-4PH	Shut	2.76	0.86									
		△P	1.29	0.55									
	316SS	Shut	2.76	0.86									
		△P	1.29	0.55									
PC35RA(SR105)	17-4PH	Shut	4.98	2.58	1.07								
		△P	3.64	1.58	0.79								
	316SS	Shut	4.98	2.58	1.07								
		△P	3.64	1.58	0.79								
PC40RA(SR125)	17-4PH	Shut		4.98	2.38								
		△P		3.16	1.58								
	316SS	Shut		4.98	2.38								
		△P		3.16	1.58								
PC45RA(SR140)	17-4PH	Shut			4.98	1.89	1.09						
		△P			3.57	1.08	0.68						
	316SS	Shut			2.98	1.89	1.09						
		△P			3.03	1.08	0.68						
PC50RA(SR160)	17-4PH	Shut				3.4	2.04	0.67	0.34				
		△P				1.98	1.25	0.4	0.25				
	316SS	Shut				3.4	2.04	0.67	0.34				
		△P				1.98	1.25	0.4	0.25				
PC55RA(SR190)	17-4PH	Shut				4.98	4.98	2.3	1.42	0.47			
		△P				3.92	3.03	1.39	0.9	0.31			
	316SS	Shut				4.98	3.18	2.3	1.42	0.47			
		△P				3.92	3.03	1.39	0.9	0.31			
PC60RA(SR210)	17-4PH	Shut					4.98	3.07	1.93	0.74	0.35		
		△P					3.86	1.85	1.2	0.47	0.26		
	316SS	Shut					3.18	3.07	1.93	0.74	0.35		
		△P					3.05	1.85	1.2	0.47	0.26		
PC65RA(SR240)	17-4PH	Shut						4.98	3.31	1.48	0.77	0.32	
		△P						3.13	2.03	0.91	0.51	0.24	
	316SS	Shut						4.36	2.79	1.48	0.77	0.32	
		△P						3.13	2.03	0.91	0.51	0.24	
PC70RA(SR270)	17-4PH	Shut							4.98	2.99	1.65	0.85	0.48
		△P							3.73	1.81	1.02	0.54	0.33
	316SS	Shut							2.79	2.9	1.6	0.85	0.48
		△P							2.6	1.81	1.02	0.54	0.33
PC75RA(SR300)	17-4PH	Shut							4.98	3.51	1.95	1.03	0.6
		△P							3.92	2.12	1.2	0.65	0.4
	316SS	Shut							2.79	2.9	1.6	1.03	0.6
		△P							2.6	2.12	1.2	0.65	0.4
PC80RA(SR350)	17-4PH	Shut								4.89	2.74	1.51	0.92
		△P								2.93	1.67	0.94	0.59
	316SS	Shut								2.9	1.6	1.36	0.92
		△P								2.64	1.49	0.94	0.59

常用密封件　Parts of Sealings

填料　Packing

垫圈　Gasket

密封件的温度-压力使用范围详见我公司技术资料:YDVTEC
See the technology data :YDVTEC

YD200E型号编制说明　Valve Code

以YD200E-PC20RARN PN1.6MPa WCB 25A 为例：

型号 Type		执行机构标识 Identifier of Actuator		特征尺寸 characteristic dimension	动作方式 Action Mode	设计编号 Design Number	作用方向 Action Direction	手动机构 Hand Wheel	公称压力 Nominal Pressure	阀体材料 Body Material	公称通径 Valve Size
YD200E	--	P	C	20	R	A	R	N	PN1.6MPa	WCB	25A

控制阀型号: Type
高性能偏心球阀
High Performance Eccentric Ball Valves

执行机构类型: Type
D:弹簧薄膜型 Diaphragm
P:气缸型 Piston Spring Return
E:电动式 Electronic
Y:液压式 Hydraulic pressure
S:特殊 Especial

执行机构标识:
Identifier of Actuator
C系列 公司研发
Made by ourselves

执行机构特征尺寸
Characteristic Dimension
05,10,20,25...80

动作方向: Action Direction
R: 角行程 Radian

设计编号: design Number
A: 第一次设计 The first Design
B: 第二次设计 The second Design
C: 第三次设计 The Third Design
...

作用方向 Action Direction
D: 单动作正作用
Direct and Single Action
R: 单动作反作用
Reverse and Single Action
W: 双动作 Double Action

手动机构 Hand Wheel
T:顶装手轮 Wheel on the top
S:带手轮 Ordinarily
H:侧装手轮 Wheel at the flangk
N:无手轮 Non

公称压力 Nominal Pressure
PN:1.6~6.3MPa
ANSI:150~600#
JIS:10~40K

阀体材料 Body Materials
碳钢/ASTM216-WCB
304/A351-CF8/F304
316/A351-CF8M/F316L
钛/Ti,Monel,Hast.c合金等

阀体口径尺寸 Valve Size
mm:DN25~DN300
inch:1"~12"

备注:

无锡市亚迪流体控制技术有限公司

地址:无锡市滨湖区胡埭工业园陆藕路29-1号
电话:+86-510-85215868
传真:+86-510-85226539
邮编:214161

WUXI CITY YADI FLUID CONTROL TECHNOLOGY CO. , LTD

ADD: 29-1,Luou Road,Hudai Industrial Park,Binhu District, Wuxi City
Jiangsu Prov,China
Tel: +86-510-85215868
Fax:+86-510-85226539
Email: yadi@yadifluid.com
Website:www.yadifluid.com
Post Code: 214161