SCORE PG100

平行闸阀 Parallel Slide Gate Valves

应用 Application

SCORE 的 PG100 系列双闸板平行闸阀采用金属接触式密封，动作可靠，全开时直通式的流道几乎没有压力损失，广泛应用于高温、高压乃至低温条件下的紧急切断阀、放空阀，特别适合于作为大口径的切断阀。

金属接触式的阀板、阀座密封副本身具有阀座防火功能，一般适合安装于水平管道。

SCORE PG100 parallel slide gate valves with double disc shown in figures 1 have the construction to achieve superior metal-to-metal sealing performance. The excellent shut-off performance brought about by the metal touch sealing and very less pressure drop at full opening makes it well-suited to a variety of severe service, including emergency shut-off and vent from extremely high temperature and high pressure to cryogenic applications. Especially suitable for big size shut-off.

Metal touch construction automatically assure fire-safe function as well, usually be installed in horizontal pipeline.

特点 Features

- ANSI 300#及以下如图 2~3 所示采用阀板和阀座之间的楔形块转换结构将来自执行机构的推力通过楔形块转换为阀板对阀座的压紧力从而达到严密切断。阀体内部有楔形块限位凸台从而限制阀板的关闭位置。
- ANSI 600#及以上如图 4~5 所示在双阀板之间布置碟形弹簧，通过碟形弹簧设定的预紧力使阀板施加压力于阀座上、同时通过流体本身的压力作用于下游阀板上，阀板和阀座之间有足够的面压从而实现严密切断。阀板的关闭位置通过阀杆上的限位结构实施。
- 阀板和阀座经过充分研磨，达到镜面，很容易达到严密切断。
- ANSI 600#及以下采用螺柱压紧式阀盖，设计规范符合 ASME Ⅷ，ANSI 900#及以上采用流体压力密封阀盖。
- 坚固的顶部导向使阀板获得稳定的支撑。
- 材质可符合 NACE0175-2003。
- 高性能的 GF TFE V 型填料、聚四氟乙烯纤维碳纤维编制型填料或柔性石墨填料（EVSP9000）加上动态补偿蝶簧（Live-loading），大大降低了阀门填料函逸散泄漏的可能，符合 API-622 低逸散规范。
- For ANSI 300# and under as shown in Figure 2~3 the use of the wedge structure between disc and seat will transform the thrust from actuator through the wedge to be the push of disc to the seat and then achieve tight shut-off.

图 1. SCORE PG100 平行闸阀
带 P300LA 弹簧复位执行机构
Figure 1. SCORE PG100 Gate Valve
with P300LA spring-return actuator

Inside the valve body there is a wedge stop boss to limit the closed position of disc.

- For ANSI 600# and over as shown in Figure 4~5 arrangement of belleville spring between the double disc, through the belleville spring set pre tightening force of disc to seat, at the same time by the pressure of the fluid itself on the downstream disc, Between the valve disc and seat have enough surface pressure in order to achieve tight shutoff. The closed position of the valve disc is carried out by the limit structure on the valve stem.
- The valve disc and seat after full grinding and lapping to a mirror, easy to be tight shut-off.
- High integrity body/bonnet bolting system for ANSI 600# and under design to ASME Ⅷ, and pressure- seal bonnet is for ANSI 900# and over.
- Clamped top guiding provides maximum support to ensure disc stability.
- Valve constructions allow material compatibility with NACE MR0175-2003.
- High performance GF TFE V-ring packing, Teflon & graphite fiber braided packing and graphite packing (EVSP9000) with live-loading to fit with low fugitive emissions API-622.

阀门工程参数 Engineering Date

公称通径	**End Connection Sizes**	1-1/2”~48” (DN40~DN1200)	
公称压力	**Valve Body Ratings**	ANSI 150, 300, 600, 900, 1500, 2500; GB/T9113-2010 & HG20592-2009 PN16, 25, 40, 63, 100, 160, 250, 400	
连接方式	**End Connection Styles**	法兰式（RF、RTJ、凹面）、焊接式（SW：2”及2”以下，BW） Flanged (RF, RTJ, FM), weld ends (SW: 2” and under, BW)	
设计标准	**Design Standards**	ASME B16.34-2009, ASME Section Ⅷ-1,2 (for body/bonnet bolting) API 6D, API 6FA for fire-safe	
法兰距	**Body Face to Face Dimensions**	ASME B16.10	
流向	**Flow Direction**	下游密封，双向流可选 Downstream Seal and Bi-directional flow is optional	
阀内件形式	**Trim Form**	平行双阀板 Parallel Slide Double Disc	
流量特性	**Characteristics**	开关 On-off	
阀座泄漏量	**Seat Leakage**	标准为 ANSI B16.104 Class Ⅴ，可选 Class Ⅵ。 ANSI B16.104 Class Ⅴ as standard, Class Ⅵ is Optional.	
上阀盖形式	**Bonnet Styles**	标准型 Standard Type：	-17~+230℃
		散热片型 FIN. Extension Type：	-45~-17℃ & ≥+230℃
		低温型Ⅰ Cryogenic Type Ⅰ：	-100~-45℃
		低温型Ⅱ Cryogenic type Ⅱ：	-196~-100℃
		波纹管密封型	Bellows Seal Type
		蒸汽夹套型	Steam Jacket Type
上阀盖填料	**Bonnet Packing**	强化聚四氟乙烯 V 型填料，聚四氟乙烯&柔性石墨编织型填料、柔性石墨填料。 Reinforced Teflon V-ring, Teflon & Graphite Fiber Braided Packing, Graphite Packing (EVSP9000)	
垫圈	**Gasket**	For ANSI 150#~600# & PN16~100 缠绕式垫圈（316L+聚四氟乙烯、316L+柔性石墨等） Spiral Wound Metal with Teflon or Grafoil Filler (316L+PTFE, 316L+Graphite). For ANSI 900#~2500# & PN160~400 ASMEB16.20 金属垫圈（极软钢、304、304L、316、316L、321 等） ASME B16.20, Solid Metal (Mild steel, 304, 340L, 316, 316L, 321, etc.)	
表面涂层色	**Paint**	艳蓝（聚氨酯）和其他环氧树脂处理均可，不锈钢阀体材质时不需油漆。 Gorgeous blue (polyurethanes group) and other expoxy finishes is available. NO painting is standard for stainless steel body.	

阀体材质的温度-压力使用范围

Working Pressure-Temperature Ratings for Body Material

温度	ANSI Class 150							ANSI Class 300							ANSI Class 600						
Temp.	LCB	WCB	C5	WC6	WC9	CF8	CF8M	LCB	WCB	C5	WC6	WC9	CF8	CF8M	LCB	WCB	C5	WC6	WC9	CF8	CF8M
℃		A105	F5a	F11	F22	F304	F316		A105	F5a	F11	F22	F304	F316		A105	F5a	F11	F22	F304	F316
-196~-45	—	—	—	—	—	1.90	1.90	—	—	—	—	—	4.96	4.96	—	—	—	—	—	9.93	9.93
-45~-29	1.84	—	—	—	—	1.90	1.90	4.80	—	—	—	—	4.96	4.96	9.60	—	—	—	—	9.93	9.93
-29~38	1.84	1.96	2.00	1.98	1.98	1.90	1.90	4.80	5.11	5.17	5.17	5.17	4.96	4.96	9.60	10.21	10.34	10.34	10.34	9.93	9.93
50	1.82	1.92	1.95	1.95	1.95	1.83	1.84	4.75	5.01	5.17	5.17	5.17	4.78	4.81	94.9	10.02	10.34	10.34	10.34	9.56	9.62
100	1.74	1.77	1.77	1.77	1.77	1.57	1.62	4.53	4.66	5.15	5.15	5.15	4.09	4.22	9.07	9.32	10.30	10.30	10.30	8.17	8.44
150	1.58	1.58	1.58	1.58	1.58	1.42	1.48	4.39	4.51	5.03	4.97	5.03	3.70	3.85	8.79	9.02	10.03	9.95	10.03	7.40	7.70
200	1.38	1.38	1.38	1.38	1.38	1.32	1.37	4.25	4.38	4.86	4.80	4.86	3.45	3.57	8.51	8.76	9.72	9.59	9.72	6.90	7.13
250	1.21	1.21	1.21	1.21	1.21	1.21	1.21	4.08	4.19	4.63	4.63	4.63	3.25	3.34	8.16	8.39	9.27	9.27	9.27	6.50	6.68
300	1.02	1.02	1.02	1.02	1.02	1.02	1.02	3.87	3.98	4.29	4.29	4.29	3.09	3.16	7.74	7.96	8.57	8.57	8.57	6.18	6.32
325	0.93	0.93	0.93	0.93	0.93	0.93	0.93	3.76	3.87	4.14	4.14	4.14	3.02	3.09	7.52	7.74	8.26	8.26	8.26	6.04	6.18
350	0.84	0.84	0.84	0.84	0.84	0.84	0.84	3.64	3.76	4.03	4.03	4.03	2.96	3.03	7.28	7.51	8.04	8.04	8.04	5.93	6.07
375		0.74	0.74	0.74	0.74	0.74	0.74		3.64	3.89	3.89	3.89	2.90	2.99		7.27	7.76	7.76	7.76	5.81	5.98
400		0.65	0.65	0.65	0.65	0.65	0.65		3.47	3.65	3.65	3.65	2.84	2.94		6.94	7.33	7.33	7.33	5.69	5.89
425		0.55	0.55	0.55	0.55	0.55	0.55		2.88	3.52	3.52	3.52	2.80	2.91		5.75	7.00	7.00	7.00	5.60	5.83
450			0.46	0.46	0.46	0.46	0.46			3.37	3.37	3.37	2.74	2.88			6.77	6.77	6.77	5.48	5.77
475			0.37	0.37	0.37	0.37	0.37			2.79	3.17	3.17	2.69	2.87			5.57	6.34	6.34	5.39	5.73
500			0.28	0.28	0.28	0.28	0.28			2.14	2.57	2.82	2.65	2.82			4.28	5.15	5.65	5.30	5.65
538			0.14	0.14	0.14	0.14	0.14			1.37	1.49	1.84	2.44	2.52			2.74	2.98	3.69	4.89	5.00
550			0.14	0.14	0.14					1.20	1.27	1.56					2.41	2.54	3.13		
575			0.14	0.14	0.14					0.89	0.88	1.05					1.78	1.76	2.11		
600			0.14							0.62							1.25				
625			0.14							0.40							0.80				
650			0.09							0.24							0.47				

温度	ANSI Class 900							ANSI Class 1500							ANSI Class 2500						
Temp.	LCB	WCB	C5	WC6	WC9	CF8	CF8M	LCB	WCB	C5	WC6	WC9	CF8	CF8M	LCB	WCB	C5	WC6	WC9	CF8	CF8M
℃		A105	F5a	F11	F22	F304	F316		A105	F5a	F11	F22	F304	F316		A105	F5a	F11	F22	F304	F316
-196~-45	—	—	—	—	—	14.89	14.89	—	—	—	—	—	24.82	24.82	—	—	—	—	—	41.37	41.37
-45~-29	14.41	—	—	—	—	14.89	14.89	24.01	—	—	—	—	24.82	24.82	40.01	—	—	—	—	41.37	41.37
-29~38	14.41	15.32	15.51	15.51	15.51	14.89	14.89	24.01	25.53	25.86	25.86	25.86	24.82	24.82	39.56	42.55	43.09	43.09	43.09	41.37	41.37
50	14.24	15.04	15.51	15.51	15.51	14.35	14.43	23.73	25.06	25.86	25.86	25.86	23.91	24.06	37.78	41.77	43.09	43.09	43.09	39.85	40.09
100	13.60	13.98	15.46	15.44	15.46	12.26	12.66	22.67	23.30	25.76	25.74	25.76	20.43	21.10	36.61	38.83	42.94	42.90	42.94	34.04	35.16
150	13.18	13.52	15.06	14.92	15.06	11.10	11.55	21.97	22.54	25.08	24.87	25.08	18.50	19.25	35.44	37.56	41.82	41.45	41.82	30.84	32.08
200	12.76	13.14	14.58	14.39	14.58	10.34	10.70	21.27	21.90	24.34	23.98	24.34	17.24	17.83	33.98	36.50	40.54	39.96	40.54	28.73	29.72
250	12.23	12.58	13.90	13.90	13.90	9.75	10.01	20.39	20.97	23.18	23.18	23.18	16.24	16.69	32.24	34.95	38.62	38.62	38.62	27.07	27.81
300	11.61	11.95	12.86	12.86	12.86	9.27	9.49	19.34	19.91	21.44	21.44	21.44	15.46	15.81	31.31	33.18	35.71	35.71	35.71	25.76	26.35
325	11.27	11.61	12.40	12.40	12.40	9.07	9.27	18.79	19.36	20.66	20.66	20.66	15.11	15.44	30.33	32.26	34.43	34.43	34.43	25.19	25.74
350	10.92	11.27	12.07	12.07	12.07	8.89	9.10	18.20	18.78	20.11	20.11	20.11	14.81	15.16	29.14	31.30	33.53	33.53	33.53	24.69	25.27
375		10.91	11.65	11.65	11.65	8.71	8.96		18.18	19.41	19.41	19.41	14.52	14.94		30.31	32.32	32.32	32.32	24.19	24.90
400		10.42	10.98	10.98	10.98	8.53	8.83		17.36	18.31	18.31	18.31	14.22	14.72		28.93	30.49	30.49	30.49	23.70	24.53
425		8.63	10.51	10.51	10.51	8.40	8.74		14.38	17.51	17.51	17.51	14.00	14.57		23.97	29.16	29.16	29.16	23.33	24.29
450			10.14	10.14	10.14	8.22	8.65			16.90	16.90	16.90	13.70	14.42			28.18	28.18	28.18	22.84	24.04
475			8.36	9.51	9.51	8.08	8.60			13.93	15.82	15.82	13.47	14.34			23.21	26.39	26.39	22.45	23.89
500			6.41	7.72	8.47	7.95	8.47			10.69	12.86	14.09	13.24	14.09			17.82	21.44	23.50	22.07	23.50
538			4.11	4.47	5.53	7.33	7.52			6.86	7.45	9.22	12.21	12.55			11.43	12.41	15.37	20.36	20.89
550			3.61	3.81	4.69					6.02	6.35	7.82					10.04	10.59	13.03		
575			2.67	2.64	3.16					4.44	4.40	5.26					7.40	7.34	8.77		
600			1.87							3.12							5.19				
625			1.20							2.00							3.33				
650			0.71							1.18							1.97				

Note: 法兰连接端阀门使用温度极限 538℃ Flanged end valve ratings terminate at 538℃.

本体部结构 Body Assembly Construction

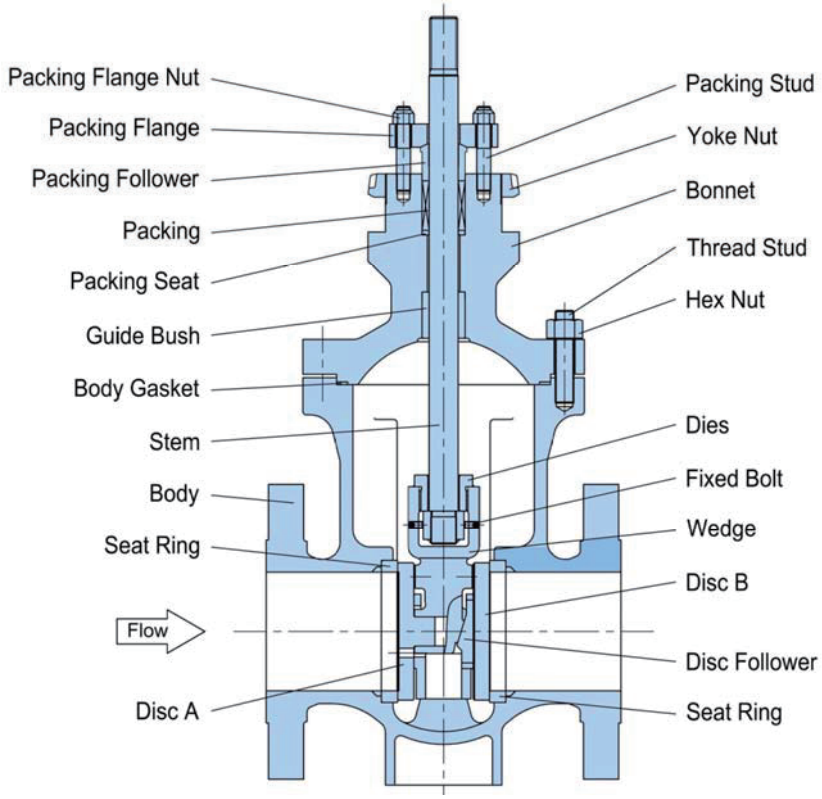

图 2. ANSI150#~300#/PN16~PN50 本体部
Figure 2. Body Assembly for ANSI 150#~300#/PN16~PN50

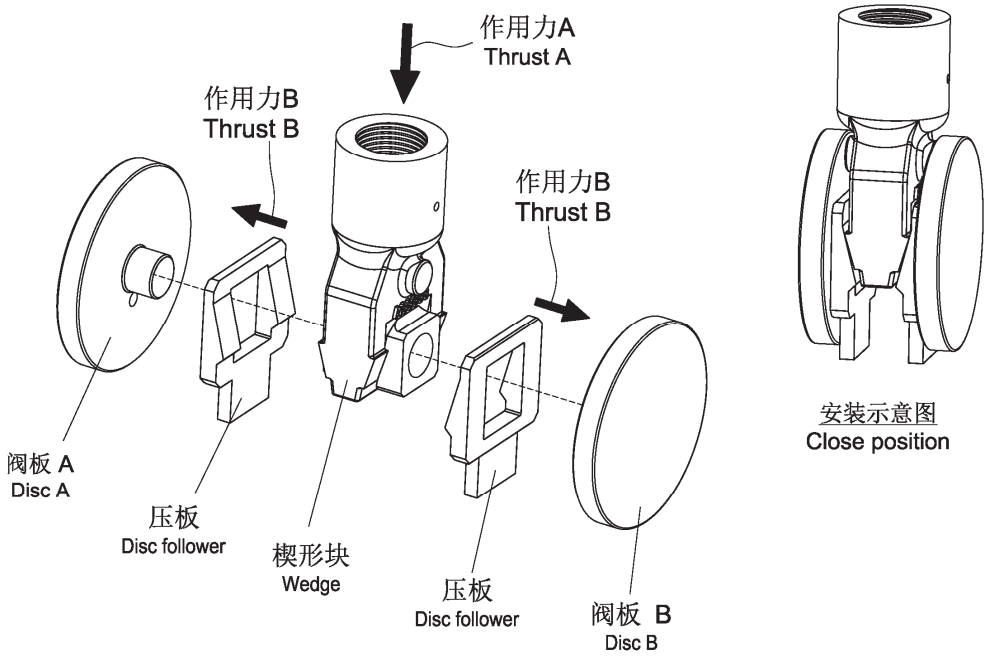

图 3. ANSI 150#~300#/PN16~PN50 楔形块、压板、阀板结构
Figure 3. Wedge-Disc Assembly for ANSI 150#~300#/PN16~PN50

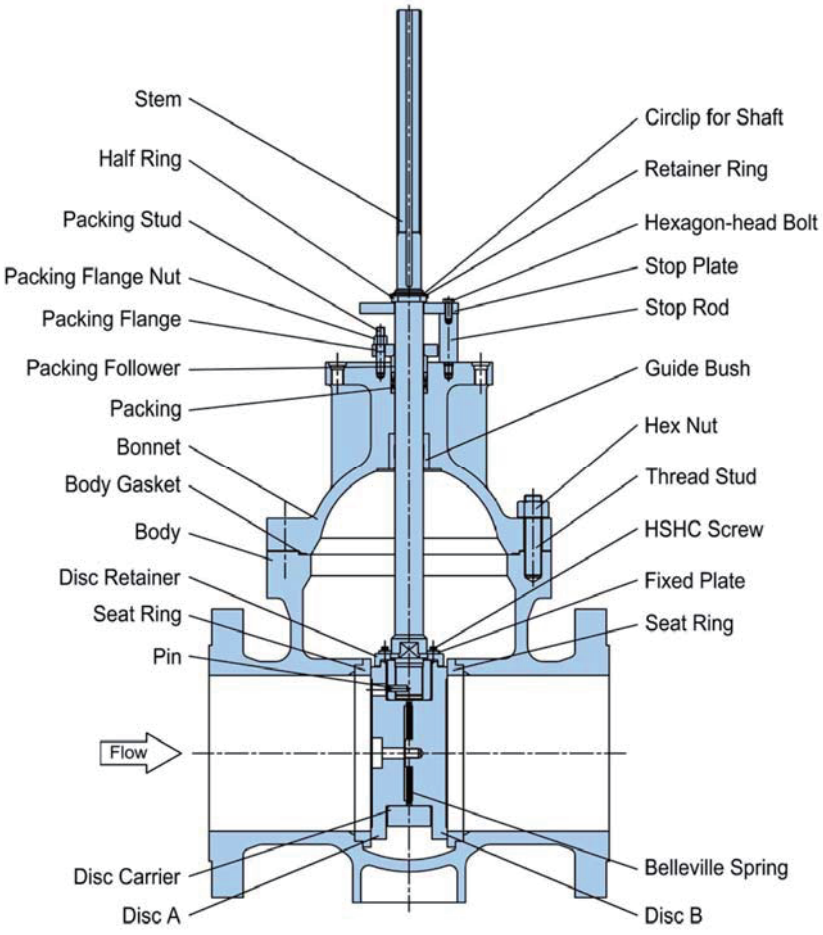

图 4. ANSI 600#~2500#/PN63~PN400 本体部
Figure 4. Body Assembly for ANSI 600#~2500#/PN63~PN400

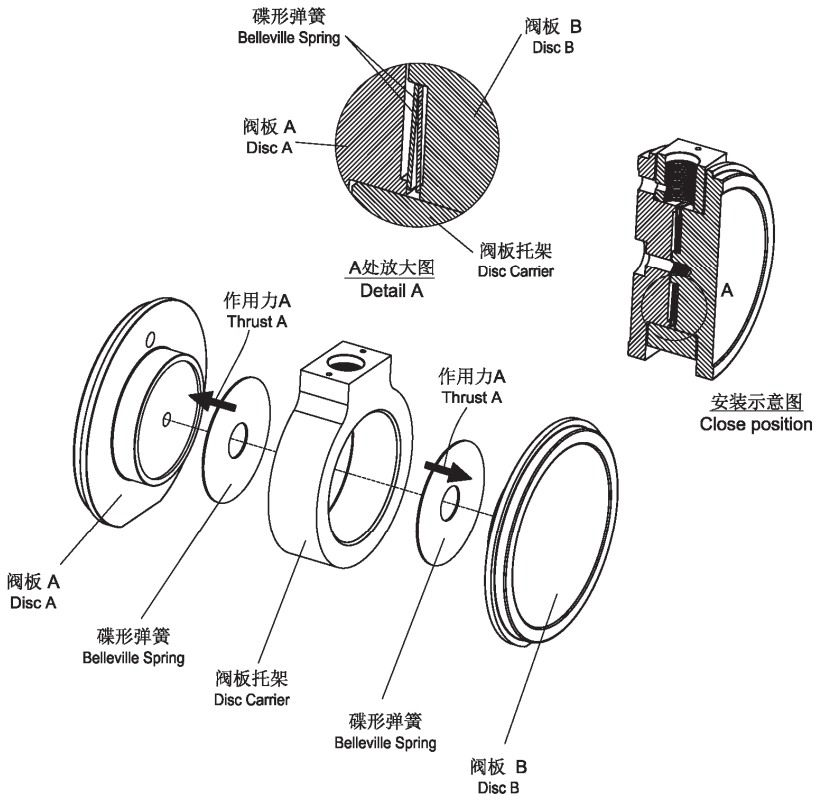

图 5. ANSI 600#~2500#/PN63~PN400 碟形弹簧、阀板结构
Figure 5. Belleville Spring-Disc Assembly for ANSI 600#~2500#/PN63~PN400

材料组合 Material Combinations

for ANSI 150#~300#, PN16~PN50

阀体材质 Body Material		A216-WCB	A217-WC6, A217-WC9, A217-C5
阀板 Disc		A182-F304/PS, A182-F316/PS	
阀座 Seat Ring		A182-F304/PS, A182-F316/PS	
压板 Disc Follower		A351-CF8/Nitrided, A351-CF8M/Nitrided, A182-304/Nitrided, A182-F316/Nitrided	
楔形块 Wegde		A351-CF8/PS, A351-CF8M/PS	
阀杆 Stem		A276-304, A276-316, A564-630/PH (-29~+427℃), A182-F XM-19	
不同材质导向套的使用温度 OperatingTemperature for Guide Material ℃	A276-440C/HT	-29~+350	
	A276-316/PS	-29~+475	-29~+565

阀体材质 Body Material		A352-LCB	A351-CF8	A351-CF8M
阀板 Disc		A182-F304/PS, A182-F316/PS		A182-F316/PS
阀座 Seat Ring		A182-F304/PS, A182-F316/PS		A182-F316/PS
压板 Disc Follower		A351-CF8/Nitrided, A182-304/Nitrided, A351-CF8M/Nitrided, A182-F316/Nitrided		A351-CF8M/Nitrided, A182-F316/Nitrided
楔形块 Wegde		A351-CF8/PS, A351-CF8M/PS		A351-CF8M/PS
阀杆 Stem		A276-304, A276-316, A564-630/PH (-29~+427℃)		A276-316, A182-F XM-19
不同材质导向套的使用温度 Operating Temperature for Guide Material ℃	A276-440C/HT	-45~+350	—	—
	A276-316/PS	-45~+350	-196~+565	-196~+565

for ANSI 600#, PN63~PN100

阀体材质 Body Material		A216-WCB	A217-WC6, A217-WC9, A217-C5	
阀板 Disc		A182-F304/PS, A182-F316/PS		
阀座 Seat Ring		A182-F304/PS, A182-F316/PS		
阀板托架 Disc Carrier		A182-F6a	A182-F6a	A638-660/HT
碟形弹簧 Belleville Spring		17-7PH (-29~+427℃), INCONEL 718		
阀杆 Stem		A276-304, A276-316, A564-630/PH (-29~+427℃), A182-F XM-19		
不同材质导向套的使用温度 OperatingTemperature for Guide Material ℃	A276-440C/HT	-29~+350		
	A276-316/PS	-29~+475	-29~+475	-29~+565

阀体材质 Body Material		A352-LCB	A351-CF8	A351-CF8M
阀板 Disc		A182-F304/PS, A182-F316/PS		A182-F316/PS
阀座 Seat Ring		A182-F304/PS, A182-F316/PS		A182-F316/PS
阀板托架 Disc Carrier		A182-F6a	A638-660/HT	
碟形弹簧 Belleville Spring		INCONEL 718		
阀杆 Stem		A276-304, A276-316, A564-630/PH (-29~+427℃)		A276-316, A182-F XM-19
不同材质导向套的使用温度 OperatingTemperature for Guide Material ℃	A276-440C/HT	-45~+350	—	—
	A276-316/PS	-45~+350	-196~+565	-196~+565

备注 Note：

●HT: 热处理 Heat Treatment

●PH: 析出硬化热处理 Preciptation Hardening

●PS: 部分堆焊司太莱合金 Partial stellite

额定 Cv 值及行程 Rated Cv Values & Stroke

公称压力 ANSI 150#~600#、PN16~100

Body Rating ANSI 150~600#, PN16~100

公称通径 Valve Size		L 级阀体 L Class Body ANSI 150# PN16	M 级阀体 M Class Body ANSI 300# PN25, PN40	H 级阀体 H Class Body ANSI 600# PN63, PN100	行程 Stroke mm
Inch	mm				
1-1/2	40	50	50	50	50
2	50	120	120	120	60
2-1/2	65	190	190	190	75
3	80	320	320	310	90
4	100	790	790	730	110
5	125	1,040	1,040	970	135
6	150	1,380	1,150	1,150	160
8	200	3,550	3,130	3,130	220
10	250	4,990	3,970	3,840	270
12	300	8,170	6,970	6,790	320
14	350	10,600	9,400	8,210	370
16	400	14,200	13,300	12,180	420
18	450	18,700	17,100	15,870	470
20	500	23,600	22,500	20,880	520
22	550	28,350	27,030	25,080	570
24	600	34,000	32,410	31,370	620

ANSI 150#, PN16 最大允许压差（单位：MPa）
ANSI 150#, PN16 Allowable Pressure Drops (Unit: MPa)
阀门口径与执行机构的标准组合请参见第 10~15 页。
See pages 10~15, for valve size & actuator size combinations.

活塞式执行机构 Piston Actuator (P300LA)

公称通径 Valve Size		气源压力 Air Supply KPa G	填料：聚四氟乙烯系列 Packing: Teflon Series					填料：柔性石墨系列 Packing: Graphite Series				
			执行机构尺寸 Actuator Size									
inch	mm		200	300	370	450	600	200	300	370	450	600
1-1/2	40	300	1.99	—	—	—	—	1.99	—	—	—	—
		400	1.99	—	—	—	—	1.99	—	—	—	—
		500	1.99	—	—	—	—	1.99	—	—	—	—
2	50	300	1.99	—	—	—	—	1.99	—	—	—	—
		400	1.99	—	—	—	—	1.99	—	—	—	—
		500	1.99	—	—	—	—	1.99	—	—	—	—
3	80	300	1.99	—	—	—	—	1.92	—	—	—	—
		400	1.99	—	—	—	—	1.99	—	—	—	—
		500	1.99	—	—	—	—	1.99	—	—	—	—
4	100	300	1.70	1.99	—	—	—	1.32	1.99	—	—	—
		400	1.99	1.99	—	—	—	1.99	1.99	—	—	—
		500	1.99	1.99	—	—	—	1.99	1.99	—	—	—
6	150	300	0.86	1.99	—	—	—	0.66	1.76	—	—	—
		400	1.28	1.99	—	—	—	1.08	1.99	—	—	—
		500	1.70	1.99	—	—	—	1.50	1.99	—	—	—
8	200	300	0.52	1.26	1.82	—	—	0.40	1.08	1.51	—	—
		400	0.77	1.84	1.99	—	—	0.66	1.66	1.99	—	—
		500	1.03	1.99	1.99	—	—	0.91	1.99	1.99	—	—
10	250	300	—	0.84	1.23	1.85	—	—	0.72	1.02	1.62	—
		400	—	1.22	1.79	1.99	—	—	1.10	1.59	1.99	—
		500	—	1.60	1.99	1.99	—	—	1.48	1.99	1.99	—
12	300	300	—	0.60	0.89	1.35	—	—	0.52	0.74	1.18	—
		400	—	0.88	1.30	1.95	—	—	0.79	1.15	1.78	—
		500	—	1.15	1.71	1.99	—	—	1.07	1.56	1.99	—
14	350	300	—	—	0.69	1.04	1.80	—	—	0.57	0.91	1.62
		400	—	—	1.00	1.51	1.99	—	—	0.89	1.38	1.99
		500	—	—	1.32	1.99	1.99	—	—	1.21	1.85	1.99
16	400	300	—	—	0.53	0.81	1.41	—	—	0.44	0.71	1.26
		400	—	—	0.78	1.17	1.99	—	—	0.69	1.07	1.88
		500	—	—	1.02	1.53	1.99	—	—	0.93	1.43	1.99
18	450	300	—	—	—	0.66	1.14	—	—	—	0.57	1.03
		400	—	—	—	0.95	1.64	—	—	—	0.87	1.53
		500	—	—	—	1.24	1.99	—	—	—	1.16	1.99
20	500	300	—	—	—	0.53	0.93	—	—	—	0.46	0.84
		400	—	—	—	0.77	1.34	—	—	—	0.70	1.24
		500	—	—	—	1.01	1.74	—	—	—	0.94	1.65
24	600	300	—	—	—	—	0.66	—	—	—	—	0.59
		400	—	—	—	—	0.95	—	—	—	—	0.88
		500	—	—	—	—	1.24	—	—	—	—	1.17

ANSI 300#, PN25、PN40、PN50 最大允许压差（单位：MPa）
ANSI 150#, PN16, PN40, PN50 Allowable Pressure Drops (Unit: MPa)

阀门口径与执行机构的标准组合请参见第 10~15 页。
See pages 10~15, for valve size & actuator size combinations.

活塞式执行机构 Piston Actuator (P300LA)

公称通径 Valve Size		气源压力 Air Supply KPa G	填料：聚四氟乙烯系 Packing: Teflon Series					填料：柔性石墨系 Packing: Graphite Series				
			执行机构尺寸 Actuator Size									
inch	mm		200	300	370	450	600	200	300	370	450	600
1-1/2	40	300	5.00	—	—	—	—	4.17	—	—	—	—
		400	5.00	—	—	—	—	5.00	—	—	—	—
		500	5.00	—	—	—	—	5.00	—	—	—	—
2	50	300	4.42	—	—	—	—	3.44	—	—	—	—
		400	5.00	—	—	—	—	5.00	—	—	—	—
		500	5.00	—	—	—	—	5.00	—	—	—	—
3	80	300	2.47	5.00	—	—	—	1.92	5.00	—	—	—
		400	3.68	5.00	—	—	—	3.13	5.00	—	—	—
		500	4.89	5.00	—	—	—	4.34	5.00	—	—	—
4	100	300	1.70	3.92	—	—	—	1.32	3.36	—	—	—
		400	2.54	5.00	—	—	—	2.16	5.00	—	—	—
		500	3.37	5.00	—	—	—	2.99	5.00	—	—	—
6	150	300	0.86	2.05	2.88	—	—	0.66	1.76	2.40	—	—
		400	1.28	2.98	4.21	—	—	1.08	2.69	3.73	—	—
		500	1.70	3.91	5.00	—	—	1.50	3.62	5.00	—	—
8	200	300	0.52	1.26	1.82	2.72	4.52	0.40	1.08	1.51	2.37	4.06
		400	0.77	1.84	2.66	3.93	5.00	066	1.66	2.36	3.58	5.00
		500	1.03	2.41	3.50	5.00	5.00	0.91	2.23	3.20	4.80	5.00
10	250	300	—	0.84	1.23	1.85	3.13	—	0.72	1.02	1.62	2.82
		400	—	1.22	1.79	2.67	4.50	—	1.10	1.59	2.44	4.18
		500	—	1.60	2.36	3.50	5.00	—	1.48	2.15	3.26	5.00
12	300	300	—	0.60	0.89	1.35	2.31	—	0.52	0.74	1.18	2.07
		400	—	0.88	1.30	1.95	3.31	—	0.79	1.15	1.78	3.08
		500	—	1.15	1.71	2.55	4.32	—	1.07	1.56	2.38	4.08
14	350	300	—	—	0.69	1.04	1.80	—	—	0.57	0.91	1.62
		400	—	—	1.00	1.51	2.59	—	—	0.89	1.38	2.41
		500	—	—	1.32	1.98	3.38	—	—	1.21	1.85	3.19
16	400	300	—	—	0.53	0.81	1.41	—	—	0.44	0.71	1.26
		400	—	—	0.78	1.17	2.02	—	—	0.69	1.07	1.88
		500	—	—	1.02	1.53	2.63	—	—	0.93	1.43	2.49
18	450	300	—	—	—	0.66	1.14	—	—	—	0.57	1.03
		400	—	—	—	0.95	1.64	—	—	—	0.87	1.53
		500	—	—	—	1.24	2.14	—	—	—	1.16	2.03
20	500	300	—	—	—	0.53	0.93	—	—	—	0.46	0.84
		400	—	—	—	0.77	1.34	—	—	—	0.70	1.24
		500	—	—	—	1.01	1.74	—	—	—	0.94	1.65
24	600	300	—	—	—	—	0.66	—	—	—	—	0.59
		400	—	—	—	—	0.95	—	—	—	—	0.88
		500	—	—	—	—	1.24	—	—	—	—	1.17

注：

聚四氟乙烯系填料：强化聚四氟乙烯 V 型填料，聚四氟乙烯纤维&柔性石墨编织填料（P4519+P6610CL）、聚四氟乙烯纤维编织填料（禁油填料 P4525+P4390W2）、聚四氟乙烯&碳纤维编织填料（P6528+P4519）；

柔性石墨系填料：柔性石墨填料（EVSP9000）、柔性石墨纤维编织填料（P6710CL+P6610CL、P6710CH+P6610CH）。

Note:

Teflon Series Packing: Reinforced Teflon V-Ring Packing, Teflon Fiber & Graphite Braided Packing (P4519+P6610CL), Teflon Fiber Braided Packing (P4525+P4390W2 for oil free).

Graphite Series Packing: Graphite Packing (EVSP9000), Graphite Fiber Braided Packing (P6710CL+P6610CL, P6710CH+P6610CH).

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