

SCORE GC

套筒导向型调节阀 Cage Guided Globe Valves

应用 Application

SCORE 的 GC 系列套筒导向型球形控制阀如图 1 所示采用平衡型阀芯、套筒导向，可用于各类液体和气体的节流调节，适用于非常广泛的温度、压降范围和重载荷的工况。GC100 系列是普通套筒阀，GC200 是多孔式套筒，GC300 是迷宫式套筒，适用于不同调节压差的场合。GC100 系列也可以用于开关控制的场合。

SCORE GC serial single-port globe valves shown in figures 1 have balanced valve plugs and cage guiding for all general applications and heavy duty over a wide range of process pressure drops and temperatures. These valves are used for throttling control of a wide variety of liquids and gases, GC100 is a normal cage trim, GC200 is multi-hole cage and GC300 is labyrinth cage, GC100 could be used for on-off control.

特点 Features

- 第三代的 S 型流畅的铸造阀体型腔，从第二代的等截面设计经过 CFD（计算流体动力学）分析改良为更合理高效的等平均流速流道，从而获得更大的流通能力来节约期初投资。
- 阀体和上阀盖通过双头螺柱压紧成为整体，设计规范符合 ASME VIII。
- 坚固的套筒导向和独特的平衡密封环（常温为 GF TFE 结构，高温为柔性石墨 1398 & Graph-lock 结构）为阀芯上下运动提供高度的稳定性，降低了震动和机械噪音。
- 标准的快速更换阀内件更便于现场维护，即使阀体在管线上，也可以很容易地从阀体中取下所有的阀内件。GC100 阀内件也可以方便地更换为 GC200 多孔式阀内件、GC300 迷宫式阀内件和 GC400 多段式阀芯阀内件，从而适用不同的工况，以保证阀门出口流速在安全的范围内，防止空化、气蚀的发生和有效降低噪音。
- 阀体结构允许材质符合 NACE0175-2003, 详情请与 SCORE 联系。
- 高性能的 GF TFE 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。
- S shape smooth profile cast globe body is third- generation design of equal average-velocity with CFD (Computational fluid Dynamics) after second generation of equal-section design. So GC100 provide more flow capacity and low initial investment.

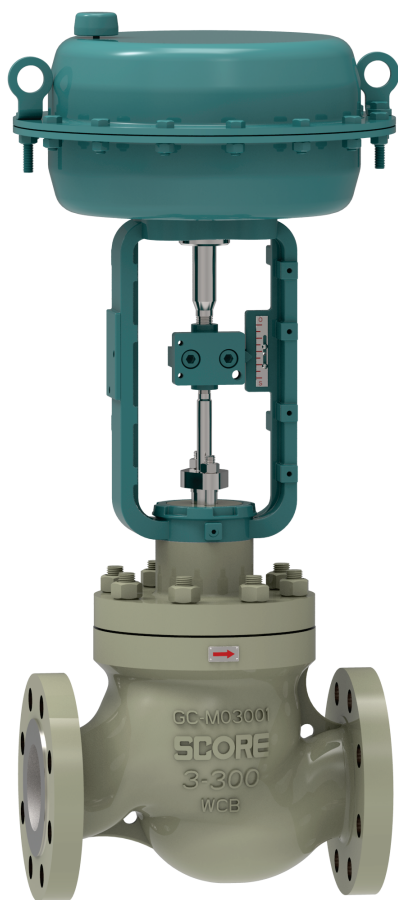


图 1. SCORE GC100 带 D100LA 执行机构
Figure 1. SCORE GC100 Valve with D100LA actuator



- High integrity body/bonnet bolting system design to ASME VIII.
- Clamped cage guiding and special balance seal ring supplied from “GF TFE” & “1398 & Graph-lock” provides high valve plug stability, which reduces vibration and mechanical noise.
- Maintenance is more easy because of standard quick-change trim, the valve body can stay in the pipeline during removal of trim parts and customers could change GC100 trim to be GC200 multi-hole cage trim, GC300 labyrinth cage trim and GC400 multi-step plugs trim easily to fit with different fluid by reducing the exit velocity of valve and then eliminate cavitation, low the noise level.
- Valve constructions allow material compatibility with NACE MR0175-2003, pls contact with SCORE for details.
- High performance TFE V ring packing and graphite packing (Garlock) with live-loading spring to fit with low fugitive emissions API-622.

GC 阀门工程参数 Engineering Data of SCORE GC

公称通径	End Connection Sizes	1”~24” (DN25~DN600)	
公称压力	Valve Body Ratings	ANSI 150#, 300#, 600#, 900#, 1500#, 2500# GB/T9113-2010 & HG20592-2009 PN1.6Mpa ; GB/T9113-2010 & HG20592-2009 PN4.0, 6.3, 10, 16, 25MPa	
连接方式	End Connection Styles	法兰式 (RF, RTJ, 凹凸式)、焊接式 (SW : 2”及 2”以下, BW) Flanged (RF, RTJ, MFM), 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) GB/T 4213-2008, GB/T9113-2010, HG20592-2009	
法兰距	Body Face to Face Dimensions	IEC60534-2006, ISA-75.03-1992	
阀内件形式	Trim Form	流体压力平衡型阀芯	Pressure balanced plug type
流量特性	Characteristics	线性、等百分比、快开	Linear, Equal percentage or Quick open
可调比 R	Rangeability	GC100 的可调比为 50:1, GC200、GC300 的可调比请参见 Cv 值表。 50:1 for GC100, GC200, GC300 pls refer to the Rated Cv sheet	
阀座泄漏量	Seat Leakage	金属阀座标准为 ANSI/FCI 70.2. Class IV , 可选用 Class V , 软阀座为 Class VI。	ANSI/FCI 70.2. Class IV as standard, Class V is option, Class VI with soft seat insert
上阀盖形式	Bonnet Styles	标准型 Standard Type:	-17~+230℃
		加长型 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	缠绕式垫圈 (聚四氟乙烯/A240-316L、柔性石墨/A240-316L) 。 Spiral wound metal with Teflon or Graphite.	
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 RAL5018 (polyurethanes group) and other epoxy 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				

阀体材质的温度-压力使用范围

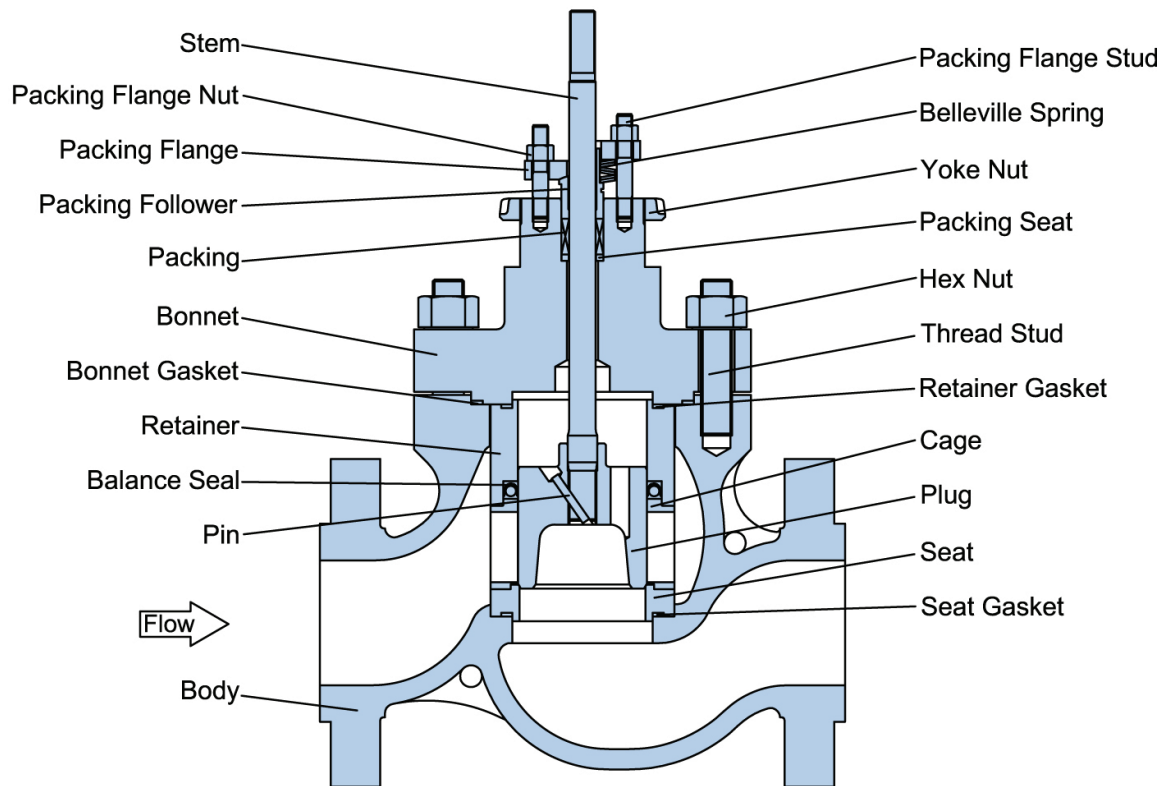
Working Pressure-Temperature Ratings for Body Material

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				

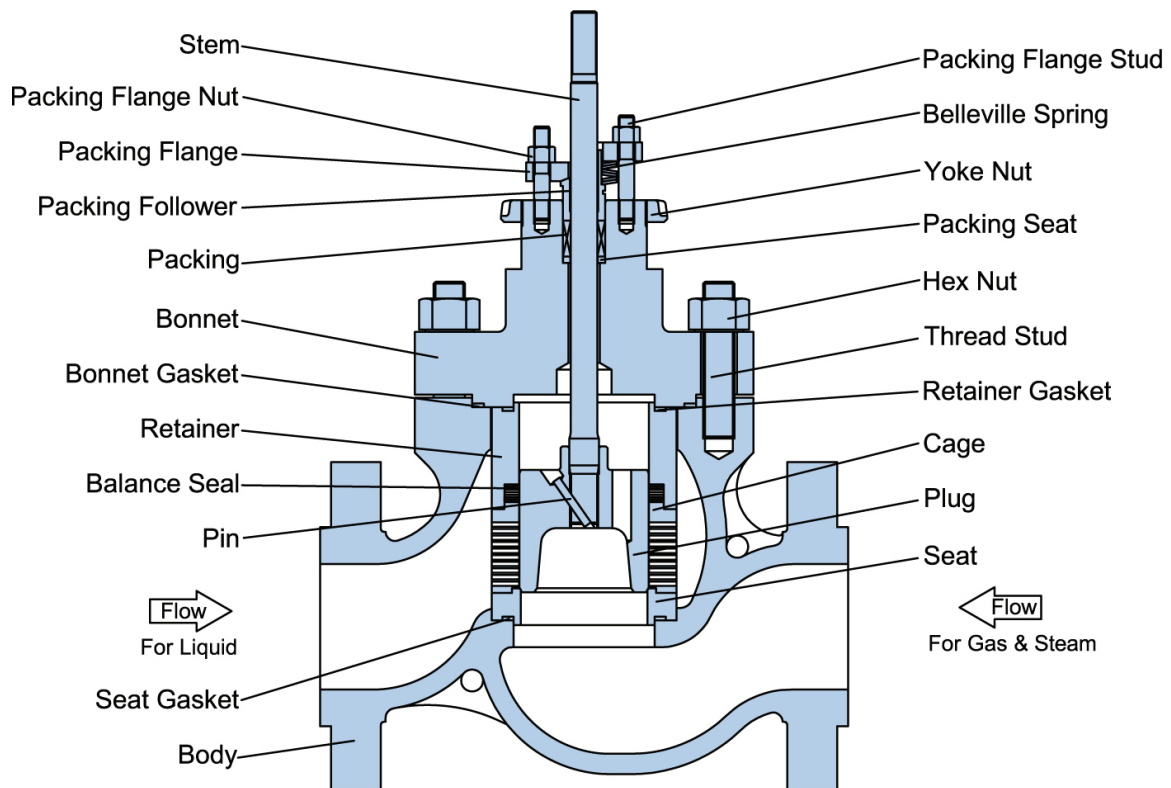
Note: 法兰连接端阀门使用温度极限 538℃ Flanged end valve ratings terminate at 538℃.

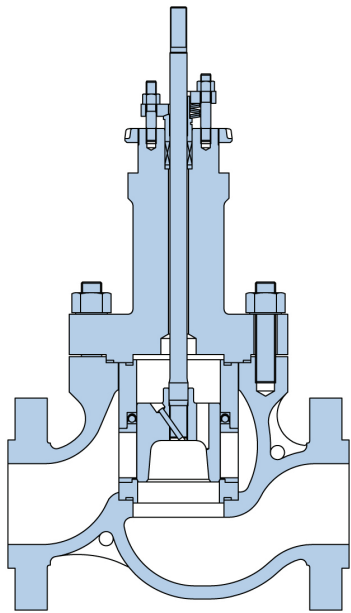
本体部结构 Body Assembly Construction

GC100

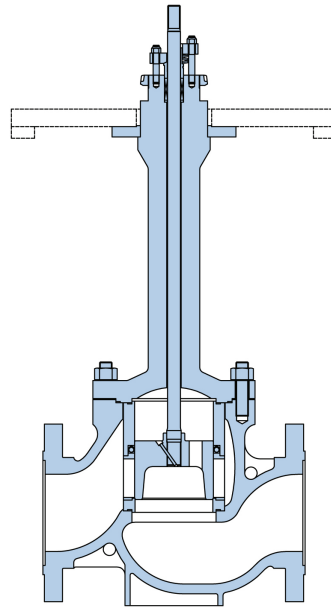


GC200 & GC300

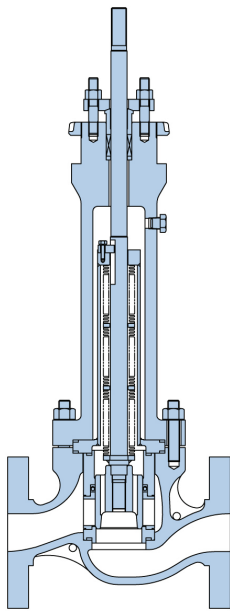




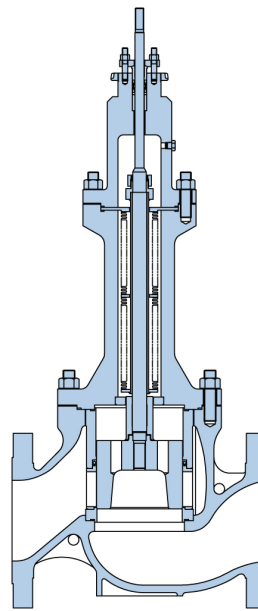
加长型阀盖 Extension Bonnet
-45~-17℃ & ≥+230℃



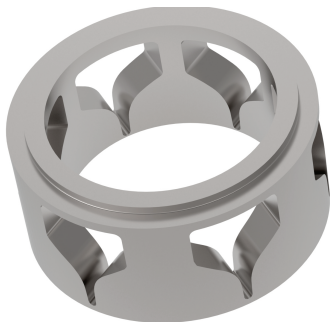
低温型阀盖（带或不带冷箱）
Cryogenic Bonnet with/without Cold Box
-196~-45℃



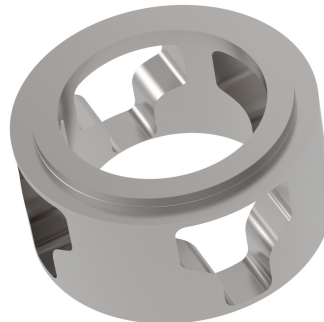
波纹管密封阀盖
Bellows Seal Bonnet
Up to 4" Body



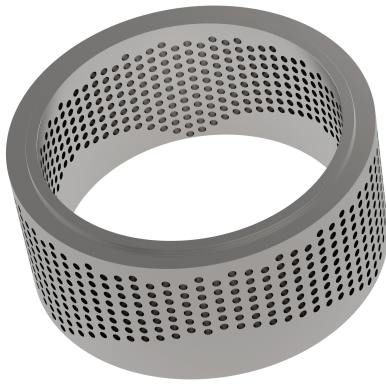
波纹管密封阀盖
Bellows Seal Bonnet
6" Body and Over



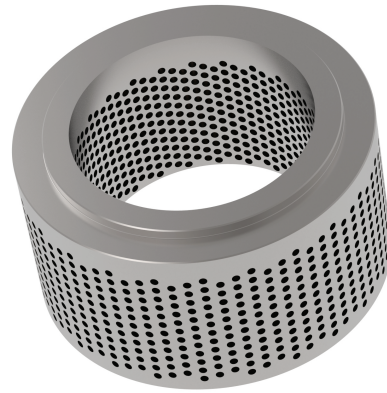
GC100 EQ%套筒
GC100 EQ% Cage



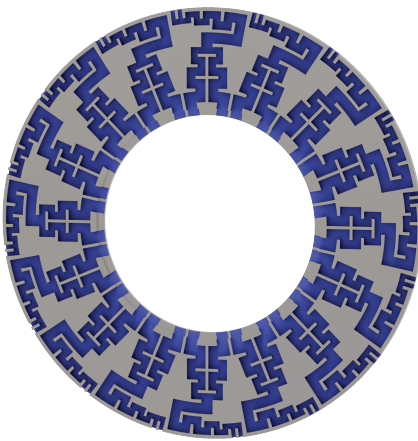
GC100 线性套筒
GC100 Linear Cage



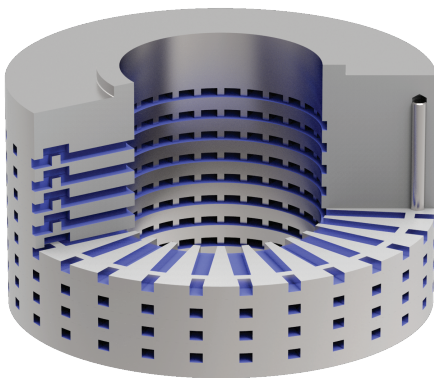
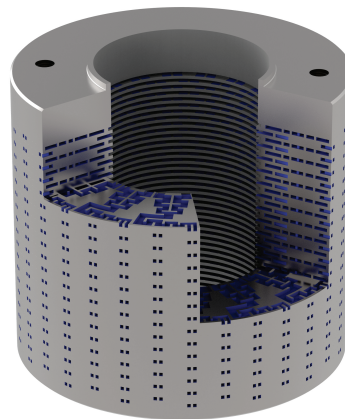
GC200 EQ%套筒 GC200 EQ% Cage



GC200 线性套筒 GC200 Linear Cage



GC300 迷宫式套筒 GC300 Labyrinth Cage



大流道迷宫式套筒用于非洁净流体
Big-Paths Labyrinth Cage Used for
Fluid Including Slurry, Powder and etc.

GC100 材料组合 Material Combinations for GC100:

阀体/上阀盖材质 Body/Bonnet Material		A216-WCB, A217-WC6, A217-WC9, A217-C5, A352-LCB			
套筒 Cage		A182-F6a/HT			A182-F22/Nitrided
阀芯 Plug		A564-630/H1025			A182-F11/SF
套筒压圈 Cage Retainer		A182-F6a			A182-F11
阀座 Seat Ring		F316+RTFE	A182-F6a/HT		A182-F11/SF
密封环 Seal Ring		RTFE/17-7PH	RTFE/17-7PH	柔性石墨 Graphite	柔性石墨 Graphite
阀座允许泄漏量 Seat Leakage		Class VI	Class IV, V	Class IV, V	Class IV, V
使用温度 Fluid temperature °C	WCB Body	-29~+200	-29~+230	-29~+427	-29~+593
	WC6 Body C5 Body LCB Body	-45~+200	-45~+230	——	——

阀体/上阀盖材质 Body/Bonnet Material		A351-CF8, A351-CF8M			
套筒 Cage		A182-F316			
阀芯 Plug		A182-F316/HCR	A182-F316/HCR F316/SS, SF	A182-F316/HCR F316/SS, SF	A182-F316/HCR F316/SS, SF
套筒压圈 Cage Retainer		A182-F316	A182-F316	A182-F316	A182-F316
阀座 Seat Ring		F316+RTFE	A182-F316 F316/SS, SF	A182-F316 F316/SS, SF	A182-F316 F316/SS, SF
平衡密封环 Balance Seal		RTFE/17-7PH	RTFE/17-7PH	Fluoroloy G/Elgiloy	柔性石墨 Graphite
阀座允许泄漏量 Seat Leakage		Class VI	Class IV, V	Class IV, V	Class IV, V
使用温度 Fluid temperature °C		-75~+200	-75~+230	-196~+230	-196~538

GC200、GC300 材料组合 Material Combinations for GC200 & GC300:

阀体/上阀盖材质 Body/Bonnet Material		A216-WCB, A217-WC6, A217-WC9, A217-C5, A352-LCB			
套筒 Cage		A240/A276-410			INCONEL 718
阀芯 Plug		A564-630/H1025			A182-F11/SF
套筒压圈 Cage Retainer		A182-F6a			A182-F11
阀座 Seat Ring		F316+RTFE	A182-F6a/HT		A182-F11/SF
密封环 Seal Ring		RTFE/17-7PH	RTFE/17-7PH	柔性石墨 Graphite	柔性石墨 Graphite
阀座允许泄漏量 Seat Leakage		Class VI	Class IV, V	Class IV, V	Class IV, V
使用温度 Fluid temperature ℃	WCB Body	-29~+200	-29~+230	-29~+427	-29~+593
	WC6 Body C5 Body LCB Body	-45~+200	-45~+230	—	—

阀体/上阀盖材质 Body/Bonnet Material		A351-CF8, A351-CF8M			
套筒 Cage		A240-316			
阀芯 Plug		A182-F316/HCR	A182-F316/HCR F316/SS, SF	A182-F316/HCR F316/SS, SF	A182-F316/HCR F316/SS, SF
套筒压圈 Cage Retainer		A182-F316	A182-F316	A182-F316	A182-F316
阀座 Seat Ring		F316+RTFE	A182-F316 F316/SS, SF	A182-F316 F316/SS, SF	A182-F316 F316/SS, SF
平衡密封环 Balance Seal		RTFE/17-7PH	RTFE/17-7PH	Fluoroloy G/Elgiloy	柔性石墨 Graphite
阀座允许泄漏量 Seat Leakage		Class VI	Class IV, V	Class IV, V	Class IV, V
使用温度 Fluid temperature ℃		-75~+200	-75~+230	-196~+230	-196~538

备注 Note:

- PH: 析出硬化热处理
- HT: 热处理
- RTFE: 强化聚四氟乙烯

Precipitation Hardening
Heat Treatment
Reinforced Teflon

- HCR: 镀硬铬
- SS: 密封面堆焊司太莱合金
- SF: 表面全部堆焊司太莱合金

Hard Chrome plated
Stellite seat
Stellite full surface

GC100 ANSI 150#~600#额定 Cv 值及行程

Rated Cv Values & Stroke for GC100 (ANSI 150~600#)

公称通径 Valve Size		阀芯尺寸 Plug Size		行程 stroke	额定 Cv 值 Rated Cv	
Inch	mm	Inch	mm	mm	EQ%	Linear
1	25	1	25	20	11.5	13
1-1/2	40	1	25	20	11.5	13
		1-1/4	32	20	26	29
		1-1/2	40	25	34	38
2	50	1-1/4	32	20	26	29
		1-1/2	40	25	34	38
		2	50	30	52	58
3	80	2	50	30	52	58
		2-1/2	65	40	108	120
		3	80	40	125	140
4	100	2-1/2	65	40	108	120
		3	80	40	125	140
		4	100	50	190	210
6	150	4	100	50	190	210
		5	125	60	300	330
		6	150	70	425	470
8	200	6	150	70	425	470
		7	175	80	575	635
		8	200	90	740	820
10	250	8	200	90	740	820
		10	250	100	1,100	1,230
12	300	10	250	100	1,100	1,230
		12	300	110	1,530	1,700
14	350	12	300	110	1,530	1,700
		14	350	150	1,980	2,200
16	400	14	350	150	1,980	2,200
		16	400	160	2,250	2,500
18	450	16	400	160	2,250	2,500
		18	450	180	3,000	3,330
20	500	18	450	180	3,000	3,330
		20	500	230	4,230	4,600
24 (150/300#)	600	20	500	230	5,010	5,450
		24	600	280	6,780	7,370
24 (600#)	600	20	500	230	5,010	5,450
		24	600	280	6,430	6,990

GC100 ANSI 150#~600#相对行程下的 Cv 值

Cv Values Versus Stroke for GC100 ANSI 150~600#

1、流量特性：等百分比 Flow Characteristic: EQ%

开度 Percent Stroke (10%)			5	10	20	30	40	50	60	70	80	90	100
阀芯尺寸 Plug Size		行程 stroke mm	Cv 值 Cv Values										
Inch	mm												
1	25	20	0.12	0.24	0.70	1.20	1.84	2.8	4.4	6.4	8.6	10.4	11.5
1-1/4	32	20	0.27	0.55	1.58	2.71	4.15	6.4	9.9	14.4	19.3	23.6	26
1-1/2	40	25	0.35	0.72	2.06	3.55	5.43	8.4	12.9	18.8	25.3	30.9	34
2	50	30	0.54	1.11	3.15	5.42	8.31	12.8	19.7	28.8	38.6	47.2	52
2-1/2	65	40	1.12	2.30	6.55	11.26	17.25	26.7	41.0	59.7	80.3	98.1	108
3	80	40	1.30	2.66	7.58	13.03	19.97	30.9	47.4	69.1	92.9	113.5	125
4	100	50	2.0	4.1	11.5	19.8	30.4	46.9	72.1	105.1	141.2	172.5	190
5	125	60	3.1	6.4	18.2	31.3	47.9	74.1	113.8	165.9	223.0	272.4	300
6	150	70	4.4	9.1	25.8	44.3	67.9	105.0	161.2	235.0	315.9	385.9	425
7	150	70	6.0	12.2	34.9	60.0	91.9	142.0	218.1	318.0	427.3	522.1	575
8	200	90	7.7	15.8	44.9	77.2	118.2	182.8	280.7	409.3	550.0	672.0	740
10	250	100	11.5	23.4	66.7	114.7	175.7	271.7	417.3	608.4	817.5	998.9	1,100
12	300	110	15.9	32.6	92.8	159.5	244.4	377.9	580.4	846.2	1,137.1	1,389.3	1,530
14	350	150	20.6	42.2	120.1	206.5	316.3	489.0	751.2	1,095.0	1,471.5	1,798.0	1,980
16	400	160	23.4	47.9	136.5	234.6	359.5	555.7	853.6	1,244.4	1,672.1	2,043.1	2,250
18	450	180	31.2	63.9	182.0	312.8	479.3	740.9	1,138.1	1,659.1	2,229.5	2,724.2	3,000
20	500	230											
24	600	280											

2、流量特性：线性 Flow Characteristic: Linear

开度 Percent Stroke (10%)			5	10	20	30	40	50	60	70	80	90	100
阀芯尺寸 Plug Size		行程 stroke mm	Cv 值 Cv Values										
Inch	mm												
1	25	20	0.90	1.53	2.81	4.08	5.36	6.6	7.9	9.2	10.5	11.7	13
1-1/4	32	20	2.00	3.42	6.26	9.11	11.95	14.8	17.6	20.5	23.3	26.2	29
1-1/2	40	25	2.62	4.48	8.21	11.93	15.66	19.4	23.1	26.8	30.6	34.3	38
2	50	30	4.00	6.84	12.53	18.21	23.90	29.6	35.3	41.0	46.6	52.3	58
2-1/2	65	40	8.28	14.16	25.92	37.68	49.44	61.2	73.0	84.7	96.5	108.2	120
3	80	40	9.66	16.52	30.24	43.96	57.68	71.4	85.1	98.8	112.6	126.3	140
4	100	50	14.5	24.8	45.4	65.9	86.5	107.1	127.7	148.3	168.8	189.4	210
5	125	60	22.8	38.9	71.3	103.6	136.0	168.3	200.6	233.0	265.3	297.7	330
6	150	70	32.4	55.5	101.5	147.6	193.6	239.7	285.8	331.8	377.9	423.9	470
7	150	70	43.8	74.9	137.2	199.4	261.6	323.9	386.1	448.3	510.5	572.8	635
8	200	90	56.6	96.8	177.1	257.5	337.8	418.2	498.6	578.9	659.3	739.6	820
10	250	100	84.9	145.1	265.7	386.2	506.8	627.3	747.8	868.4	988.9	1,109.5	1,230
12	300	110	117.3	200.6	367.2	533.8	700.4	867.0	1,033.6	1,200.2	1,366.8	1,533.4	1,700
14	350	150	151.8	259.6	475.2	690.8	906.4	1,122.0	1,337.6	1,553.2	1,768.8	1,984.4	2,200
16	400	160	172.5	295.0	540.0	785.0	1,030.0	1,275.0	1,520.0	1,765.0	2,010.0	2,255.0	2,500
18	450	180	229.8	392.9	719.3	1,045.6	1,372.0	1,698.3	2,024.6	2,351.0	2,677.3	3,003.7	3,330
20	500	230											
24	600	280											

GC100 ANSI 900#/1500#额定 Cv 值及行程

Rated Cv Values & Stroke for GC100 (ANSI 900#/1500#)

公称通径 Valve Size		阀芯尺寸 Plug Size		行程 stroke	额定 Cv 值 Rated Cv	
Inch	mm	Inch	mm	mm	EQ%	Linear
1-1/2	40	1	25	20	14.0	15.5
		1-1/4	32	20	28.0	32.0
2	50	1	25	20	14.0	15.5
		1-1/4	32	20	30.0	34.0
		1-1/2	40	30	54	60
3	80	1-1/2	40	30	54	60
		2	50	40	90	100
		2-1/2	65	40	115	130
4	100	2	50	40	90	100
		2-1/2	65	40	125	140
		3	80	50	155	170
6	150	3	80	50	155	170
		4	100	60	230	260
		5-1/2	140	70	415	460
8	200	5	125	70	355	395
		6	150	80	510	565
		7	175	90	685	760
10	250	6	150	80	510	565
		7	175	90	685	760
		8	200	100	885	985
12	300	7	175	90	685	760
		8	200	100	885	985
		10	250	110	1,310	1,455
14	350	8	200	100	885	985
		10	250	110	1,310	1,455
		12	300	130	1,780	1,980
16	400	12	300	130	1,875	2,085
		13	330	150	2,270	2,520
18	450	13	330	150	2,270	2,520
		14	350	180	2,760	3,065
20	500	14	350	180	2,760	3,065
		16	400	200	3,565	3,960
24	600	18	450	230	4,555	5,060
		20	500	250	5,470	6,080

GC100 ANSI 2500#额定 Cv 值及行程

Rated Cv Values & Stroke for GC100 (ANSI 2500#)

公称通径 Valve Size		阀芯尺寸 Plug Size		行程 stroke	额定 Cv 值 Rated Cv	
Inch	mm	Inch	mm	mm	EQ%	Linear
1-1/2	40	1	25	20	14.0	15.5
2	50	1	25	20	14.0	15.5
		1-1/4	32	25	32.5	36.0
3	80	1-1/4	32	25	32.5	36.0
		1-1/2	40	30	54	60
		2	50	40	75	85
4	100	1-1/2	40	30	54	60
		2	50	40	80	90
		2-1/2	65	40	120	135
6	150	3	80	50	155	170
		4	100	60	230	260
		5	125	70	300	335
8	200	4	100	60	230	260
		5	125	70	355	395
		6	150	80	490	545
10	250	5	125	70	355	395
		6	150	80	510	565
		7	175	90	685	760
12	300	6	150	80	510	565
		7	175	90	685	760
		8	200	110	920	1,020
14	350	7	175	90	685	760
		8	200	110	920	1,020
		10	250	130	1,335	1,480
16	400	10	250	130	1,410	1,565
		11	275	150	1,725	1,920
18	450	10	250	130	1,410	1,565
		12	300	150	2,000	2,225
20	500	12	300	150	2,000	2,225
		13	330	180	2,445	2,720
24	600	14	350	180	2,760	3,065
		16	400	200	3,565	3,960

GC200 ANSI 150#~600#额定 Cv 值及行程

Rated Cv Values & Stroke for GC200 (ANSI 150~600#)

公称通径 Valve Size		阀芯尺寸 Plug Size		行程 stroke	额定 Cv 值 Rated Cv	
Inch	mm	Inch	mm	mm	EQ%	Linear
1	25	5/8	16	20	5.4	6.1
		1	25	20	10	12
1-1/2	40	1	25	20	10	12
		1.25	32	20	21	25
		1.5	40	25	28	33
2	50	1.25	32	20	21	25
		1.5	40	25	28	33
		2	50	30	43	50
3	80	2	50	30	43	50
		2.5	65	40	72	84
		3	80	40	95	115
4	100	2.5	65	40	72	84
		3	80	40	95	115
		4	100	50	150	175
6	150	4	100	50	150	175
		5	125	60	235	270
		6	150	70	345	400
8	200	6	125	70	345	400
		7	150	80	460	540
		8	200	90	595	700
10	250	8	200	90	595	700
		10	250	100	850	1,015
12	300	10	250	100	850	1,015
		12	300	110	1,095	1,360
14	350	12	300	110	1,095	1,360
		14	350	150	1,505	1,795
16	400	14	350	150	1,505	1,795
		16	400	150	1,780	2,040
18	450	16	400	150	1,780	2,040
		18	450	180	2,320	2,720
20	500	18	450	180	2,320	2,720
		20	500	230		
24 (150/300#)	600	20	500	230		
		24	600	280		
24 (600#)	600	20	500	230		
		24	600	280		

GC200 ANSI150#~600#相对行程下的 Cv 值

Cv Values Versus Stroke for GC200 ANSI 150~600#

1、流量特性：改良等百分比 Flow Characteristic: Modified EQ%

开度 Percent Stroke (10%)			5	10	20	30	40	50	60	70	80	90	100
阀芯尺寸 Plug Size		行程 stroke mm	Cv 值 Cv Values										
Inch	mm												
5/8	16	20	0.04	0.08	0.28	0.67	1.24	1.97	2.77	3.55	4.25	4.87	5.4
1	25	20	0.07	0.15	0.52	1.24	2.31	3.65	5.12	6.57	7.86	9.01	10
1-1/4	32	20	0.14	0.31	1.09	2.60	4.84	7.67	10.8	13.8	16.5	18.9	21
1-1/2	40	25	0.19	0.42	1.45	3.47	6.45	10.2	14.4	18.4	22.0	25.2	28
2	50	30	0.29	0.64	2.23	5.33	9.91	15.7	22.0	28.2	33.8	38.7	43
2-1/2	65	40	0.48	1.05	3.69	8.79	16.4	25.9	36.4	46.6	55.8	64.0	72
3	80	40	0.60	1.40	4.90	11.8	21.9	34.7	48.7	62.4	74.7	85.6	95
4	100	50	1.00	2.20	7.80	18.6	34.6	54.8	76.9	98.5	117.9	135.1	150
5	125	60	1.60	3.50	12.2	29.1	54.2	85.9	120.4	154.3	184.8	211.7	235
6	150	70	2.30	5.10	17.9	42.7	79.5	126.0	176.8	226.6	271.3	310.8	345
8	200	90	4.10	8.80	30.9	73.7	137.2	217.4	304.9	390.8	467.9	536.1	594
10	250	100	5.80	12.5	43.9	104.7	194.8	308.7	433.0	555.0	664.4	761.3	845
12	300	110	7.50	16.2	56.9	135.6	252.4	400.0	561.1	719.2	861.0	986.5	1,093
14	350	150	10.2	22.3	78.2	186.4	346.9	549.8	771.2	988.5	1,183.4	1,355.9	1,502
16	400	160	12.1	26.4	92.4	220.5	410.3	650.3	912.1	1,169.1	1,399.6	1,603.7	1,777
18	450	180	15.8	34.4	120.5	287.3	534.8	847.6	1,188.9	1,523.8	1,824.2	2,090.2	2,316
20	500	230											
24	600	280											

2、流量特性：线性 Flow Characteristic: Linear

开度 Percent Stroke (10%)			5	10	20	30	40	50	60	70	80	90	100
阀芯尺寸 Plug Size		行程 stroke mm	Cv 值 Cv Values										
Inch	mm												
5/8	16	20	0.17	0.50	1.33	2.19	2.98	3.70	4.33	4.87	5.34	5.73	6.1
1	25	20	0.34	0.98	2.63	4.30	5.86	7.28	8.52	9.58	10.5	11.3	12
1-1/4	32	20	0.71	2.03	5.47	8.97	12.2	15.2	17.7	20.0	21.9	23.5	25
1-1/2	40	25	0.93	2.68	7.22	11.8	16.1	20.0	23.4	26.4	28.9	31.0	33
2	50	30	1.41	4.07	10.9	17.9	24.4	30.3	35.5	39.9	43.7	47.0	50
2-1/2	65	40	2.37	6.83	18.4	30.1	41.0	50.9	59.6	67.1	73.5	78.9	84
3	80	40	3.20	9.40	25.2	41.3	56.1	69.7	81.6	91.8	100.6	108.1	115
4	100	50	4.90	14.2	38.3	62.8	85.4	106.1	124.2	139.7	153.1	164.5	175
5	125	60	7.60	22.0	59.1	96.9	131.8	163.7	191.6	215.6	236.2	253.7	270
6	150	70	11.3	32.5	87.5	143.5	195.3	242.5	283.9	319.4	349.9	375.9	399
8	200	90	19.7	56.9	153.1	251.1	341.7	424.4	496.8	559.0	612.3	657.8	698
10	250	100	28.6	82.5	222.0	364.1	495.5	615.3	720.4	810.5	887.8	953.8	1,012
12	300	110	38.4	110.6	297.5	487.9	663.9	824.5	965.3	1,086.0	1,189.6	1,278.1	1,356
14	350	150	50.6	145.9	392.7	643.9	876.3	1,088.2	1,274.0	1,433.3	1,570.1	1,686.8	1,789
16	400	160	57.5	165.9	446.3	731.8	995.9	1,236.8	1,447.9	1,629.0	1,784.4	1,917.1	2,033
18	450	180	76.7	221.2	595.0	975.7	1,327.8	1,649.0	1,930.5	2,172.0	2,379.2	2,556.1	2,711
20	500	230											
24	600	280											

GC300 ANSI 150#~600#行程及 Cv 值（流量特性：线性）

Cv Values & Stroke for GC300 ANSI 150~600# (Flow Characteristic: Linear)

公称通径 Body Size		阀芯尺寸 Plug Size		行程 stroke	降压级数 No. of Stages								
Inch	mm	Inch	mm		0	流开 Flow to Open (FTO)				流关 Flow to Close (FTC)			
				mm	0	2	4	6	8	2	4	6	8
1	25	5/8	16	12	5.1	3.6	3.1	2.2	2.1	3.6	2.8	2.2	1.6
				20	6.0	4.9	4.5	3.5	3.2	4.9	4.1	3.5	2.6
		1	25	20	11.1	8.2	6.5	—	—	7.1	5.4	—	—
1-1/2	40	1	25	20	11.1	8.2	7.0	6.2	5.0	8.2	6.0	5.4	4.0
				25	11.8	9.4	8.2	7.4	6.0	9.4	7.1	6.4	4.9
		1-1/2	40	25	37.4	21.6	15.2	—	—	16.1	12.6	—	—
2	50	1-1/2	40	25	37.4	25.6	18.4	14.8	11.6	18.4	14.3	12.1	8.7
				30	41.5	29.6	21.7	17.6	13.8	21.6	17.0	14.4	10.4
		2	50	30	47.9	32.0	21.8	—	—	21.7	18.0	—	—
3	80	2	50	30	76.0	56.0	40.2	32.6	27.1	49.0	35.6	28.7	22.0
				40	85.0	69.0	53.0	44.4	37.6	63.0	48.0	39.6	30.9
		3	80	40	133.0	89.0	60.0	—	—	74.0	53.0	—	—
4	100	3	80	40	133.0	102.0	73.0	62.0	49.3	82.0	63.0	54.0	39.6
				50	142.0	114.0	85.0	74.0	60.0	95.0	75.0	64.0	48.1
		4	100	50	205.0	135.0	93.0	—	—	105.0	80.0	—	—
6	150	4	100	50	205.0	161.0	127.0	108.0	88.0	143.0	109.0	92.0	74.0
				70	224.0	190.0	158.0	138.0	115.0	174.0	139.0	120.0	98.0
		6	150	70	453.0	292.0	191.0	—	—	220.0	160.0	—	—
8	200	6	150	70	453.0	338.0	242.0	201.0	164.0	278.0	226.0	173.0	143.0
				90	494.0	398.0	300.0	254.0	209.0	339.0	282.0	220.0	184.0
		8	200	90	801.0	502.0	387.0	—	—	388.0	325.0	—	—
10	250	8	200	90	801.0	596.0	402.0	331.0	270.0	467.0	372.0	280.0	237.0
				100	830.0	635.0	437.0	362.0	295.0	503.0	405.0	306.0	259.0
		10	250	100	1,188.0	722.0	534.0	—	—	544.0	444.0	—	—
12	300	10	250	100	1,239.0	866.0	574.0	472.0	389.0	681.0	562.0	412.0	339.0
				110	1,294.0	939.0	635.0	525.0	435.0	749.0	622.0	460.0	379.0
		12	300	110	1,744.0	1,036.0	786.0	—	—	795.0	648.0	—	—
14	350	12	300	110	1,744.0	1,098.0	786.0	586.0	482.0	868.0	705.0	505.0	414.0
				150	1,948.0	1,373.0	1,026.0	782.0	648.0	1,121.0	928.0	678.0	559.0
		14	350	150	2,251.0	1,451.0	1,125.0	—	—	1,162.0	951.0	—	—
16	400	14	350	150	2,251.0	1,557.0	1,125.0	855.0	706.0	1,250.0	1,022.0	734.0	617.0
		16	400	150	2,562.0	1,631.0	1,257.0	—	—	1,287.0	1,042.0	—	—
18	450	16	400	150	2,562.0	1,779.0	1,257.0	973.0	803.0	1,424.0	1,152.0	836.0	713.0
		18	450	180	3,396.0	2,174.0	1,681.0	—	—	1,723.0	1,429.0	—	—

GC300 ANSI 150#~600#迷宫式套筒的最小可控 Cv（流量特性：线性）

Min. Controllable Cv Values for GC300 ANSI 150~600# Labyrinth Cage

(Flow Characteristic: Linear)

公称通径 Body Size		阀芯尺寸 Plug Size		降压级数 No. of Stages								
				0	流开 Flow to Open (FTO)				流关 Flow to Close (FTC)			
Inch	mm	Inch	mm		2	4	6	8	2	4	6	8
1	25	5/8	16	2.3	1.4	1.1	0.8	0.8	1.4	1.0	0.8	0.6
		1	25	3.3	1.9	1.5	—	—	1.6	1.2	—	—
1-1/2	40	1	25	3.3	1.9	1.6	1.4	1.1	1.9	1.3	1.2	0.9
		1-1/2	40	7.1	3.8	2.8	—	—	3.0	2.4	—	—
2	50	1-1/2	40	7.1	4.5	3.3	2.8	2.3	3.3	2.7	2.4	1.9
		2	50	9.1	5.2	3.6	—	—	3.6	3.1	—	—
3	80	2	50	14.6	8.7	6.0	4.9	4.2	7.4	5.3	4.4	3.6
		3	80	19.5	10.0	6.8	—	—	8.2	6.1	—	—
4	100	3	80	19.5	11.8	8.1	7.0	5.8	9.1	7.1	6.2	5.0
		4	100	24.0	12.2	8.5	—	—	9.5	7.5	—	—
6	150	4	100	24.0	15.4	11.4	9.7	8.1	13.1	9.8	8.4	7.1
		6	150	37.2	19.3	13.1	—	—	14.8	11.5	—	—
8	200	6	150	37.2	22.9	16.1	13.7	11.7	18.4	15.1	12.1	10.6
		8	200	50.0	25.7	20.3	—	—	20.3	17.6	—	—
10	250	8	200	50.0	31.1	20.9	17.9	15.5	23.9	19.6	15.8	14.2
		10	250	64.0	33.6	26.1	—	—	26.4	22.8	—	—
12	300	10	250	90.0	51.0	34.0	28.9	25.1	39.7	33.4	26.1	22.8
		12	300	109.0	53.0	41.0	—	—	41.4	35.0	—	—
14	350	12	300	109.0	56.0	41.0	32.5	28.3	44.7	37.4	29.2	25.6
		14	350	119.0	58.0	45.2	—	—	46.5	39.3	—	—
16	400	14	350	119.0	63.0	45.2	36.2	31.6	49.8	41.6	32.4	28.9
		16	400	128.0	64.0	49.7	—	—	51.0	42.5	—	—
18	450	16	400	128.0	71.0	49.7	40.4	35.2	56.0	46.1	36.1	32.5
		18	450	149.0	75.0	59.0	—	—	60.0	52.0	—	—

备注：如果计算最小 Cv 值小于标准芯片的最小可控 Cv 值，请与 SCORE 应用工程师确认，定制改良线性的套筒芯片使得最小计算 Cv 可控。

Note: If min. calculated Cv is less than min. controllable Cv of standard labyrinth cage (linear), please consult for SCORE AE, SCORE could customize labyrinth cage to be modified linear to reduce min. controllable Cv.

GC300 ANSI 900#~1500#行程及 Cv 值 (流量特性: 线性)

Cv Values & Stroke for GC300 ANSI 900~1500# (Flow Characteristic: Linear)

公称通径 Body Size		阀芯尺寸 Plug Size		行程 stroke	流开 Flow to Open (FTO)												
Inch	mm	Inch	mm		降压级数 No. of Stages												
				mm	0	2	4	6	8	10	12	14	16	18	20	22	24
1-1/2	40	5/8	16	20	6.0	4.9	4.5	3.9	3.6	3.4	3.1	2.9	1.4	—	—	—	—
				30	7.1	6.2	5.8	5.2	4.9	4.7	4.3	4.0	2.1	—	—	—	—
				40	8.2	7.4	7.0	6.4	6.1	5.9	5.5	5.2	2.9	—	—	—	—
		1	25	20	11.1	8.2	7.0	6.2	5.2	4.5	1.9	1.8	—	—	—	—	—
				30	12.3	10.3	9.1	8.3	7.2	6.3	2.8	2.7	—	—	—	—	—
				40	13.0	11.6	10.7	10.0	8.9	8.0	3.8	3.7	—	—	—	—	—
		1-1/4	32	20	21.1	13.8	9.8	7.4	2.8	—	—	—	—	—	—	—	—
				30	25.2	18.5	13.9	10.7	4.2	—	—	—	—	—	—	—	—
				40	27.5	22.3	17.7	14.1	5.8	—	—	—	—	—	—	—	—
2	50	5/8	16	20	6.0	4.9	4.5	3.9	3.6	3.4	3.3	3.3	3.2	2.8	1.4	1.2	1.2
				30	7.1	6.2	5.8	5.2	4.9	4.7	4.6	4.5	4.5	4.0	2.1	1.8	1.8
				40	8.2	7.4	7.0	6.4	6.1	5.9	5.8	5.7	5.7	5.1	2.8	2.5	2.5
		1	25	20	11.1	8.2	7.0	6.2	5.6	5.1	5.0	4.1	3.7	2.0	—	—	—
				30	12.3	10.3	9.1	8.3	7.6	7.1	6.9	5.8	5.3	2.9	—	—	—
				40	13.0	11.6	10.7	10.0	9.3	8.8	8.6	7.5	6.9	4.0	—	—	—
		1-1/4	32	20	21.9	14.8	11.8	9.5	7.7	6.5	3.2	2.6	—	—	—	—	—
				30	26.6	19.9	16.4	13.6	11.2	9.6	4.8	3.9	—	—	—	—	—
				40	29.4	24.0	20.6	17.6	14.9	12.8	6.6	5.3	—	—	—	—	—
		1-1/2	40	20	31.8	18.5	12.9	10.3	3.7	—	—	—	—	—	—	—	—
				30	40.6	26.1	18.8	15.2	5.6	—	—	—	—	—	—	—	—
				40	46.6	33.3	24.9	20.5	7.7	—	—	—	—	—	—	—	—
3	80	1-1/4	32	30	26.6	19.9	17.1	14.9	13.5	12.1	11.8	10.6	9.2	7.7	7.1	4.5	3.7
				40	29.4	24.0	21.4	19.0	17.5	15.9	15.5	14.1	12.4	10.4	9.6	6.2	5.1
				50	30.7	26.4	24.0	21.8	20.3	18.6	18.2	16.7	14.8	12.6	11.7	7.6	6.3
		1-1/2	40	30	41.5	29.6	24.3	21.3	17.4	15.4	12.8	11.5	8.9	7.8	5.3	3.7	3.4
				40	48.0	37.2	31.5	28.0	23.3	20.7	17.4	15.7	12.3	10.8	7.4	5.2	4.8
				50	51.5	42.0	36.5	32.9	27.8	24.9	21.1	19.1	15.1	13.3	9.1	6.4	5.9
		2	50	30	57.8	38.2	27.6	22.9	17.9	15.7	13.5	9.7	6.8	4.6	—	—	—
				40	69.4	49.6	36.9	31.0	24.5	21.5	18.6	13.4	9.5	6.4	—	—	—
				50	76.1	57.5	44.0	37.5	29.8	26.3	22.9	16.5	11.7	7.9	—	—	—
		2-1/2	65	30	71.8	39.5	28.0	23.2	18.0	15.8	—	—	—	—	—	—	—
				40	87.2	52.5	38.1	31.7	24.8	21.7	—	—	—	—	—	—	—
				50	96.3	62.2	46.1	38.7	30.4	26.7	—	—	—	—	—	—	—
4	100	1-1/2	40	40	48.0	40.3	37.9	37.4	36.7	37.3	34.9	32.6	27.7	23.0	21.5	15.8	12.2
				50	51.5	44.9	42.7	42.2	41.5	42.1	39.8	37.5	32.6	27.5	25.8	19.2	15.0
				60	54.0	48.7	46.8	46.4	45.8	46.3	44.2	42.1	37.3	32.1	30.3	23.0	18.1
				70	55.4	51.0	49.4	49.0	48.5	48.9	47.1	45.2	40.6	35.5	33.6	25.9	20.7
		2	50	40	69.4	55.9	51.5	48.9	45.2	44.8	39.1	35.9	27.7	24.1	18.2	12.5	11.0
				50	76.1	63.8	59.4	56.8	53.0	52.6	46.4	42.9	33.6	29.4	22.4	15.5	13.5
				60	81.3	70.7	66.7	64.2	60.5	60.1	53.8	50.1	40.0	35.2	27.1	18.8	16.5
				70	84.4	75.3	71.6	69.3	65.8	65.3	59.2	55.5	45.0	39.9	30.9	21.7	19.0
		2-1/2	65	40	91.9	66.9	55.9	52.7	48.1	47.6	40.9	30.2	21.8	16.5	—	—	—
				50	102.7	78.3	66.5	62.9	57.9	57.3	49.6	37.0	26.8	20.4	—	—	—
				60	111.7	89.2	77.3	73.5	68.1	67.5	58.9	44.6	32.6	24.8	—	—	—
				70	117.2	96.8	85.2	81.4	75.8	75.2	66.3	50.7	37.4	28.6	—	—	—
		3	80	40	104.3	69.3	57.3	53.8	49.0	48.5	25.8	23.7	17.4	—	—	—	—
				50	117.6	82.2	68.9	64.9	59.4	58.8	31.8	29.3	21.5	—	—	—	—
				60	129.0	95.2	81.1	76.8	70.6	69.9	38.6	35.6	26.3	—	—	—	—
				70	136.3	104.6	90.3	85.9	79.4	78.7	44.3	40.9	30.3	—	—	—	—
6	150	2-1/2	65	60	127.8	112.5	102.2	94.0	85.2	79.0	67.3	61.7	56.3	44.8	41.5	34.9	27.7
				70	130.6	117.9	108.9	101.4	93.0	86.9	75.1	69.2	63.4	51.0	47.4	39.9	31.8
				80	133.0	123.1	115.6	109.0	101.4	95.6	84.1	78.1	72.1	58.7	54.8	46.5	37.2
				90	134.3	125.9	119.3	113.5	106.5	101.1	89.9	83.9	77.9	64.1	60.0	51.1	41.2
		3	80	60	149.8	129.9	114.0	108.1	92.7	83.1	72.2	63.6	57.7	45.5	42.1	35.2	26.4
				70	153.7	137.0	122.7	117.1	102.2	92.4	81.0	71.9	65.5	52.0	48.2	40.4	30.5
				80	157.2	143.9	131.6	126.6	112.7	103.1	91.6	82.0	75.2	60.3	56.1	47.2	35.8
				90	159.1	147.7	136.8	132.3	119.3	110.0	98.6	88.9	81.8	66.2	61.7	52.2	39.7
		4	100	60	215.6	177.3	143.6	123.5	101.9	89.5	76.3	66.3	55.5	46.5	38.5	25.4	25.1
				70	223.5	190.0	157.8	137.5	114.9	101.5	87.0	75.9	63.7	53.5	44.4	29.3	29.1
				80	230.7	202.9	173.5	153.7	130.5	116.3	100.4	88.1	74.4	62.6	52.2	34.5	34.3
				90	234.5	210.3	183.3	164.2	141.1	126.5	109.9	96.9	82.1	69.4	57.9	38.4	38.1
		5-1/2	140	60	367.3	220.5	163.8	135.6	108.5	93.8	—	—	—	—	—	—	—
				70	387.7	246.5	186.0	154.9	124.5	107.9	—	—	—	—	—	—	—
				80	407.6	276.9	213.4	179.4	145.2	126.3	—	—	—	—	—	—	—
				90	418.7	296.9	232.4	196.7	160.1	139.6	—	—	—	—	—	—	—

GC300 ANSI 900#~1500#行程及 Cv 值（流量特性：线性）

Cv Values & Stroke for GC300 ANSI 900~1500# (Flow Characteristic: Linear)

公称通径 Body Size		阀芯尺寸 Plug Size		行程 Stroke	流开 Flow to Open (FTO)												
Inch	mm	Inch	mm		降压级数 No. of Stages												
				mm	0	2	4	6	8	10	12	14	16	18	20	22	24
8	200	4	100	60	215.6	177.3	156.5	141.5	127.2	112.3	97.4	85.3	81.5	60.7	55.6	47.1	38.2
				80	230.7	202.9	185.4	171.6	157.5	142.0	125.4	111.3	106.8	81.0	74.5	63.5	51.8
				100	237.5	216.4	201.9	189.8	177.0	162.0	145.4	130.6	125.7	97.2	89.7	77.0	63.0
				120	242.1	226.4	215.0	204.9	193.8	180.3	164.5	149.8	144.8	114.4	106.1	91.8	75.7
		5	125	60	316.9	248.3	199.6	168.1	138.1	119.6	102.1	88.3	84.1	61.7	56.4	47.6	38.5
				80	348.0	293.6	247.3	214.0	179.8	157.6	135.8	118.4	112.9	83.6	76.5	64.8	52.4
				100	362.9	319.4	278.0	245.7	210.5	186.6	162.4	142.5	136.2	101.8	93.3	79.2	64.2
				120	373.3	339.8	304.7	275.1	240.7	216.2	190.4	168.5	161.5	122.1	112.2	95.6	77.8
		6	150	60	427.8	284.4	214.3	176.7	142.7	122.6	103.9	89.5	85.1	62.1	56.7	41.9	38.6
				80	482.2	353.9	277.3	232.5	190.3	164.6	140.2	121.2	115.4	84.6	77.3	57.2	52.7
				100	509.8	399.0	322.8	275.1	228.0	198.5	170.0	147.6	140.6	103.6	94.7	70.2	64.7
				120	530.0	438.6	366.9	318.3	268.1	235.3	203.0	177.1	169.0	125.3	114.6	85.2	78.6
		7	175	60	538.7	301.6	221.4	180.6	144.8	123.9	107.8	80.8	65.9	48.7	—	—	—
				80	622.4	388.9	293.2	241.7	195.3	167.7	146.3	110.1	89.9	66.5	—	—	—
				100	667.4	451.5	348.8	290.6	236.7	204.1	178.5	134.8	110.2	81.7	—	—	—
				120	701.6	511.5	406.4	343.1	282.4	244.9	215.0	163.2	133.7	99.3	—	—	—
10	250	5	125	80	348.0	293.6	259.1	229.3	194.7	171.3	150.1	133.0	125.7	93.3	84.2	72.6	58.4
				100	362.9	319.4	288.9	260.8	226.2	201.4	178.3	159.2	150.9	113.2	102.5	88.6	71.4
				120	373.3	339.8	314.3	289.2	256.3	231.5	207.4	186.9	177.8	135.3	122.9	106.7	86.4
				140	379.1	351.9	330.1	307.9	277.3	253.3	229.3	208.2	198.7	153.3	139.7	121.7	98.9
		6	150	80	482.2	375.9	299.5	252.5	208.4	180.3	156.0	137.1	129.2	94.7	85.2	73.3	58.7
				100	509.8	419.6	345.7	296.7	248.4	216.6	188.6	166.4	157.0	115.7	104.3	89.8	72.1
				120	530.0	456.8	389.2	340.7	290.1	255.5	224.2	198.8	188.0	139.7	126.2	108.8	87.5
				140	541.4	480.1	419.0	372.4	321.7	285.8	252.5	225.1	213.3	159.7	144.4	124.8	100.6
		7	175	80	622.4	418.9	319.9	264.4	214.9	184.5	158.7	138.9	130.7	95.3	85.7	65.4	54.8
				100	667.4	482.0	378.2	316.5	259.6	224.0	193.4	169.6	159.7	116.8	105.1	80.4	67.3
				120	701.6	541.0	437.4	371.6	308.5	267.8	232.3	204.5	192.8	141.6	127.6	97.7	81.9
				140	721.4	581.0	481.1	414.0	347.4	303.3	264.4	233.4	220.3	162.5	146.6	112.5	94.4
		8	200	80	771.8	445.6	331.4	270.8	223.4	186.6	160.1	123.1	102.5	74.9	—	—	—
				100	838.1	524.1	397.6	327.6	271.7	227.8	195.8	151.0	125.9	92.1	—	—	—
				120	890.3	602.5	468.1	389.9	325.8	274.4	236.6	183.0	152.9	112.0	—	—	—
				140	921.1	659.4	522.8	439.7	369.9	313.0	270.7	210.1	175.8	129.0	—	—	—
12	300	6	150	120	482.2	—	—	—	—	—	—	—	—	—	—	—	—
				150	509.8	—	—	—	—	—	—	—	—	—	—	—	—
				180	530.0	—	—	—	—	—	—	—	—	—	—	—	—
				210	541.4	—	—	—	—	—	—	—	—	—	—	—	—
		7	175	120	701.6	—	—	—	—	—	—	—	—	—	—	—	—
				150	731.3	—	—	—	—	—	—	—	—	—	—	—	—
				180	747.4	—	—	—	—	—	—	—	—	—	—	—	—
				210	759.0	—	—	—	—	—	—	—	—	—	—	—	—
		8	200	120	890.3	—	—	—	—	—	—	—	—	—	—	—	—
				150	936.8	—	—	—	—	—	—	—	—	—	—	—	—
				180	962.7	—	—	—	—	—	—	—	—	—	—	—	—
				210	981.6	—	—	—	—	—	—	—	—	—	—	—	—
		10	250	120	1,301	—	—	—	—	—	—	—	—	—	—	—	—
				150	1,396	—	—	—	—	—	—	—	—	—	—	—	—
				180	1,452	—	—	—	—	—	—	—	—	—	—	—	—
				210	1,494	—	—	—	—	—	—	—	—	—	—	—	—

GC300 ANSI 900#~1500#行程及 Cv 值 (流量特性: 线性)

Cv Values & Stroke for GC300 ANSI 900~1500# (Flow Characteristic: Linear)

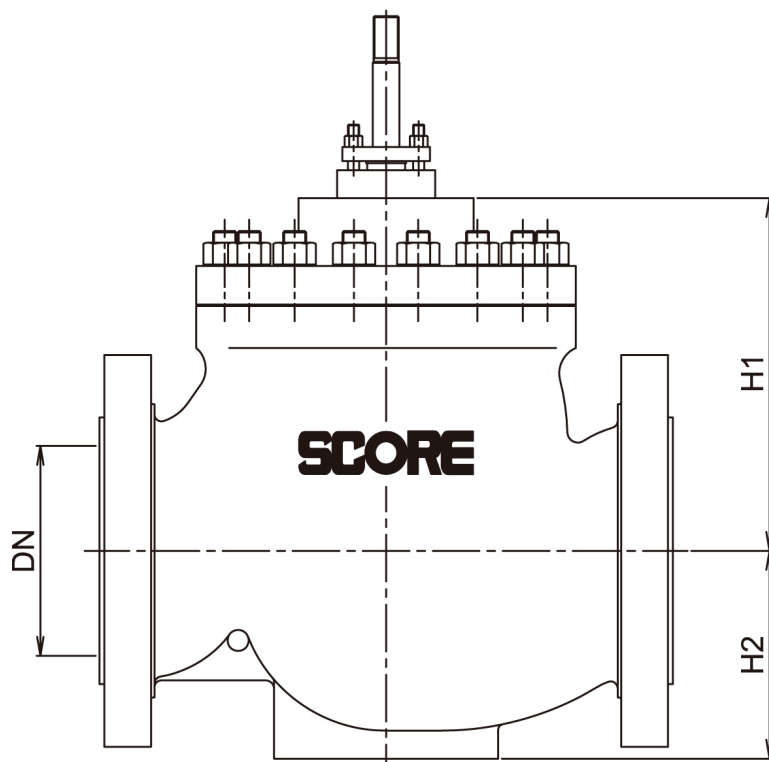
公称通径 Body Size		阀芯尺寸 Plug Size		行程 Stroke	流关 Flow to Close (FTC)												
Inch	mm	Inch	mm		降压级数 No. of Stages												
				mm	0	2	4	6	8	10	12	14	16	18	20	22	24
1-1/2	40	5/8	16	20	6.0	4.9	4.1	3.5	3.0	2.6	2.2	1.5	1.3	—	—	—	—
				30	7.1	6.2	5.4	4.8	4.1	3.6	3.1	2.1	1.9	—	—	—	—
				40	8.2	7.4	6.7	6.0	5.3	4.8	4.2	2.9	2.5	—	—	—	—
		1	25	20	11.1	8.2	6.5	5.4	4.4	3.4	2.6	1.8	—	—	—	—	—
				30	12.3	10.3	8.6	7.4	6.2	4.9	3.8	2.7	—	—	—	—	—
				40	13.0	11.6	10.3	9.1	7.9	6.5	5.2	3.7	—	—	—	—	—
		1-1/4	32	20	21.1	11.5	7.9	6.8	2.8	—	—	—	—	—	—	—	—
				30	25.2	15.9	11.3	9.9	4.2	—	—	—	—	—	—	—	—
				40	27.5	19.8	14.8	13.2	5.8	—	—	—	—	—	—	—	—
2	50	5/8	16	20	6.0	4.9	4.1	3.5	3.0	2.6	2.2	1.8	1.3	1.3	1.2	1.1	0.9
				30	7.1	6.2	5.4	4.8	4.1	3.6	3.1	2.6	1.9	1.9	1.8	1.6	1.3
				40	8.2	7.4	6.7	6.0	5.3	4.8	4.2	3.5	2.5	2.5	2.5	2.2	1.8
		1	25	20	11.1	8.2	6.5	5.4	5.2	3.8	3.3	2.6	2.0	1.8	—	—	—
				30	12.3	10.3	8.6	7.4	7.2	5.4	4.8	3.7	2.9	2.7	—	—	—
				40	13.0	11.6	10.3	9.1	8.9	7.0	6.3	5.0	4.0	3.6	—	—	—
		1-1/4	32	20	21.9	13.2	9.9	8.5	6.4	5.0	4.0	2.8	—	—	—	—	—
				30	26.6	18.2	14.1	12.2	9.4	7.5	5.9	4.1	—	—	—	—	—
				40	29.4	22.4	18.1	16.0	12.6	10.1	8.1	5.7	—	—	—	—	—
		1-1/2	40	20	31.8	14.0	10.2	8.7	4.7	—	—	—	—	—	—	—	—
				30	40.6	20.2	15.0	12.8	7.0	—	—	—	—	—	—	—	—
				40	46.6	26.6	20.2	17.4	9.6	—	—	—	—	—	—	—	—
3	80	1-1/4	32	30	26.6	19.1	14.9	12.2	10.0	8.5	7.8	7.1	4.6	4.3	4.0	3.7	3.4
				40	29.4	23.3	19.0	16.0	13.4	11.5	10.5	9.6	6.4	5.9	5.5	5.1	4.7
				50	30.7	25.7	21.8	18.8	16.0	13.9	12.7	11.7	7.8	7.3	6.8	6.3	5.8
		1-1/2	40	30	41.5	27.5	20.8	16.8	13.7	11.5	9.0	7.7	6.0	5.4	4.3	3.7	3.4
				40	48.0	35.0	27.4	22.5	18.5	15.8	12.4	10.7	8.3	7.5	5.9	5.2	4.8
				50	51.5	39.9	32.2	27.0	22.4	19.2	15.2	13.1	10.2	9.3	7.3	6.4	5.9
		2	50	30	57.8	29.4	23.6	19.7	15.2	12.3	9.6	7.2	6.0	5.4	—	—	—
				40	69.4	39.1	31.9	26.8	20.9	16.9	13.3	10.0	8.3	7.5	—	—	—
				50	76.1	46.5	38.4	32.6	25.6	20.8	16.4	12.4	10.3	9.3	—	—	—
		2-1/2	65	30	71.8	30.0	23.9	19.9	15.3	12.3	—	—	—	—	—	—	—
				40	87.2	40.5	32.6	27.3	21.1	17.0	—	—	—	—	—	—	—
				50	96.3	48.9	39.7	33.4	26.0	21.0	—	—	—	—	—	—	—
4	100	1-1/2	40	40	48.0	38.1	33.7	31.3	29.7	28.7	25.8	24.1	16.8	16.0	14.4	12.4	11.6
				50	51.5	42.9	38.7	36.3	34.7	33.6	30.5	28.7	20.4	19.5	17.6	15.2	14.2
				60	54.0	47.0	43.2	40.9	39.4	38.4	35.2	33.3	24.3	23.3	21.1	18.3	17.2
				70	55.4	49.5	46.1	44.1	42.6	41.6	38.6	36.7	27.4	26.3	24.0	20.9	19.6
		2	50	40	69.4	50.2	43.5	42.7	40.3	37.6	28.7	25.3	20.1	17.8	14.7	12.5	11.7
				50	76.1	58.2	51.2	50.3	47.8	44.8	34.8	30.9	24.6	21.9	18.1	15.5	14.4
				60	81.3	65.5	58.7	57.8	55.2	52.2	41.3	36.9	29.7	26.5	22.0	18.8	17.6
				70	84.4	70.5	64.0	63.2	60.6	57.6	46.4	41.7	33.9	30.2	25.2	21.7	20.3
		2-1/2	65	40	91.9	54.3	49.4	45.1	42.3	39.2	30.9	22.9	20.3	18.0	—	—	—
				50	102.7	64.8	59.4	54.4	51.3	47.6	37.8	28.2	25.1	22.2	—	—	—
				60	111.7	75.5	69.7	64.3	60.8	56.8	45.5	34.2	30.5	27.0	—	—	—
				70	117.2	83.4	77.5	71.9	68.3	64.0	51.8	39.2	35.0	31.1	—	—	—
		3	80	40	104.3	55.6	50.4	45.8	42.9	39.7	29.6	23.0	19.6	—	—	—	—
				50	117.6	67.0	61.0	55.7	52.3	48.5	36.4	28.4	24.3	—	—	—	—
				60	129.0	79.0	72.4	66.5	62.6	58.2	44.1	34.5	29.6	—	—	—	—
				70	136.3	88.2	81.3	75.0	70.8	66.1	50.5	39.7	34.1	—	—	—	—
6	150	2-1/2	65	60	127.8	108.5	93.1	80.1	69.2	59.7	53.3	44.4	34.3	32.6	27.9	23.6	22.0
				70	130.6	114.5	100.5	87.9	77.0	67.1	60.2	50.6	39.3	37.4	32.1	27.2	25.4
				80	133.0	120.3	108.2	96.6	86.0	75.9	68.7	58.3	45.7	43.6	37.6	32.0	29.8
				90	134.3	123.5	112.8	102.0	91.8	81.8	74.4	63.7	50.3	48.1	41.5	35.4	33.1
		3	80	60	149.8	122.6	103.1	87.4	74.8	64.0	57.1	45.1	38.9	34.3	28.1	23.7	22.1
				70	153.7	130.6	112.3	96.8	83.8	72.4	64.9	51.6	44.6	39.5	32.4	27.4	25.5
				80	157.2	138.5	122.3	107.5	94.4	82.5	74.5	59.9	52.0	46.1	38.0	32.2	30.0
				90	159.1	143.0	128.3	114.3	101.4	89.4	81.2	65.8	57.3	51.0	42.1	35.8	33.4
		4	100	60	215.6	159.6	128.7	113.4	92.6	72.7	59.1	46.1	39.5	34.7	28.3	23.9	22.2
				70	223.5	173.4	142.9	127.0	104.8	83.0	67.8	53.0	45.5	40.1	32.7	27.6	25.7
				80	230.7	188.1	159.0	143.1	119.8	96.1	79.0	62.2	53.4	47.1	38.5	32.5	30.3
				90	234.5	196.9	169.4	153.7	130.1	105.3	87.1	68.8	59.3	52.3	42.8	36.2	33.7
		5-1/2	140	60	367.3	189.0	153.4	122.6	97.4	75.0	—	—	—	—	—	—	—
				70	387.7	213.2	174.6	140.4	112.0	86.4	—	—	—	—	—	—	—
				80	407.6	242.5	201.0	163.1	130.9	101.5	—	—	—	—	—	—	—
				90	418.7	262.3	219.4	179.4	144.7	112.6	—	—	—	—	—	—	—

GC300 ANSI 900#~1500#行程及 Cv 值（流量特性：线性）

Cv Values & Stroke for GC300 ANSI 900~1500# (Flow Characteristic: Linear)

公称通径 Body Size		阀芯尺寸 Plug Size		行程 stroke	流关 Flow to Close (FTC)												
Inch	mm	Inch	mm		降压级数 No. of Stages												
				mm	0	2	4	6	8	10	12	14	16	18	20	22	24
8	200	4	100	60	215.6	167.3	136.4	113.4	95.8	81.2	73.5	63.5	45.4	43.5	37.1	37.1	33.9
				80	230.7	194.6	166.7	143.1	123.5	106.5	97.0	84.6	61.2	58.8	50.3	50.3	46.0
				100	237.5	209.7	185.4	163.1	143.4	125.4	115.1	101.2	74.2	71.4	61.2	61.2	56.1
				120	242.1	221.2	201.2	181.3	162.6	144.5	133.7	118.8	88.6	85.4	73.6	73.6	67.6
		5	125	60	316.9	226.1	178.3	149.3	124.7	105.1	84.4	67.7	54.8	49.9	41.7	37.3	34.1
				80	348.0	273.3	225.1	192.8	163.8	139.6	113.3	91.5	74.4	67.8	56.9	50.9	46.5
				100	362.9	301.8	256.8	224.2	193.4	166.6	136.7	111.1	90.7	82.9	69.6	62.3	57.0
				120	373.3	325.2	285.4	254.3	223.2	194.9	162.0	133.0	109.2	99.9	84.2	75.5	69.1
		6	150	60	427.8	248.3	199.1	163.9	131.8	107.0	85.5	68.3	55.1	50.1	41.9	37.4	34.1
				80	482.2	315.5	259.4	216.8	176.4	144.4	115.8	92.8	75.1	68.3	57.2	51.1	46.6
				100	509.8	361.8	304.0	257.8	212.1	174.9	141.1	113.5	92.0	83.8	70.2	62.7	57.3
				120	530.0	404.5	348.1	300.1	250.5	208.6	169.6	137.1	111.5	101.6	85.2	76.2	69.7
		7	175	60	538.7	259.5	204.7	167.0	133.4	107.9	85.9	65.4	55.2	50.2	—	—	—
				80	622.4	339.6	272.3	224.2	180.3	146.5	116.9	89.2	75.4	68.6	—	—	—
				100	667.4	399.6	325.4	270.4	219.0	178.7	143.1	109.4	92.6	84.2	—	—	—
				120	701.6	459.5	381.3	320.6	262.1	215.2	173.1	132.8	112.4	102.4	—	—	—
10	250	5	125	80	348.0	273.3	229.8	192.8	163.8	139.6	124.7	107.1	80.3	75.8	64.8	56.9	54.4
				100	362.9	301.8	261.3	224.2	193.4	166.6	149.8	129.4	97.9	92.4	79.2	69.6	66.6
				120	373.3	325.2	289.7	254.3	223.2	194.9	176.6	153.8	117.6	111.2	95.6	84.2	80.7
				140	379.1	339.6	308.3	275.4	245.1	216.5	197.4	173.2	133.7	126.6	109.3	96.4	92.4
		6	150	80	482.2	341.8	283.0	237.6	194.9	160.6	132.2	109.2	85.3	78.5	65.2	57.2	54.7
				100	509.8	387.5	328.8	280.6	233.2	193.9	160.5	133.2	104.4	96.2	80.0	70.2	67.1
				120	530.0	428.3	372.7	324.1	273.7	230.1	192.1	160.3	126.2	116.5	97.1	85.2	81.6
				140	541.4	454.8	403.4	356.1	304.8	258.9	217.8	182.6	144.5	133.5	111.5	98.0	93.8
		7	175	80	622.4	373.1	300.0	247.4	200.2	163.5	133.8	110.1	85.7	78.9	65.4	57.3	54.8
				100	667.4	435.1	356.3	297.2	242.5	199.1	163.5	134.8	105.2	96.8	80.4	70.4	67.3
				120	701.6	495.3	414.4	350.4	289.0	239.0	197.2	163.2	127.6	117.6	97.7	85.7	81.9
				140	721.4	537.8	457.9	391.9	326.4	271.7	225.2	187.0	146.7	135.2	112.5	98.6	94.4
		8	200	80	771.8	391.6	324.1	252.6	202.9	165.0	134.6	102.1	85.9	79.0	—	—	—
				100	838.1	465.2	389.2	306.3	247.4	201.7	164.9	125.4	105.6	97.1	—	—	—
				120	890.3	541.2	459.0	365.6	297.4	243.7	199.8	152.2	128.3	118.1	—	—	—
				140	921.1	598.1	513.2	413.5	338.6	278.6	229.1	175.0	147.7	136.0	—	—	—
12	300	6	150	120	482.2	—	—	—	—	—	—	—	—	—	—	—	—
				150	509.8	—	—	—	—	—	—	—	—	—	—	—	—
				180	530.0	—	—	—	—	—	—	—	—	—	—	—	—
				210	541.4	—	—	—	—	—	—	—	—	—	—	—	—
		7	175	120	701.6	—	—	—	—	—	—	—	—	—	—	—	—
				150	731.3	—	—	—	—	—	—	—	—	—	—	—	—
				180	747.4	—	—	—	—	—	—	—	—	—	—	—	—
				210	759.0	—	—	—	—	—	—	—	—	—	—	—	—
		8	200	120	890.3	—	—	—	—	—	—	—	—	—	—	—	—
				150	936.8	—	—	—	—	—	—	—	—	—	—	—	—
				180	962.7	—	—	—	—	—	—	—	—	—	—	—	—
				210	981.6	—	—	—	—	—	—	—	—	—	—	—	—
		10	250	120	1,301	—	—	—	—	—	—	—	—	—	—	—	—
				150	1,396	—	—	—	—	—	—	—	—	—	—	—	—
				180	1,452	—	—	—	—	—	—	—	—	—	—	—	—
				210	1,494	—	—	—	—	—	—	—	—	—	—	—	—

GC 系列阀门尺寸 Valve Dimensions of SCORE Series GC



DN 公称通径 Valve Size		H1. 中心线至安装支架 Centreline to yoke mounting				H2. 中心线至底部 Centreline to Base	
		Standard Bonnet		Extension Bonnet			
		ANSI 150~300# PN1.6, PN2.5 PN4.0	ANSI 600# PN6.3, PN10	ANSI 150~300# PN1.6, PN4.0	ANSI 600# PN6.3, PN10	ANSI 150~300# PN1.6, PN4.0	ANSI 600# PN6.3, PN10
1	25	146	146	222	222	67	67
1-1/2	40	206	206	308	308	82	82
2	50	187	187	314	314	89	89
3	80	251	251	384	384	111	111
4	100	279	279	422	422	143	143
6	150	333	333	479	479	203	203
8	200	400	400	522	552	222	222
10	250	454	454	683	683	254	254
12	300	521	521	775	775	318	318
14	350	622	622	908	908	330	330
16	400	721	721	1013	1013	400	400
18	450	714	714	1020	1020	362	362
20	500	902	902	1082	1082	489	489
24	600	864	864	1180	1180	464	464

L. 法兰距尺寸 Face to Face Dimensions

DN 公称通径 Valve Size		ANSI 150# RF PN1.6 RF	ANSI 300# RF PN4.0 RF FM	ANSI 600# RF PN6.3 PN10 FM	ANSI 300# SW ANSI 300# BW	ANSI 300# RTJ	ANSI 600# SW ANSI 600# BW	ANSI 600# RTJ
Inch	mm							
1	25	184	197	210	210	210	210	210
1-1/2	40	222	235	251	251	248	251	251
2	50	254	267	286	286	283	286	289
3	80	298	317	337	317	333	337	340
4	100	352	368	394	368	384	394	397
6	150	451	473	508	473	489	508	511
8	200	543	568	610	568	584	610	613
10	250	673	708	752	708	724	752	756
12	300	737	775	819	775	791	819	822
14	350	889	927	972	927	943	972	975
16	400	1,016	1,057	1,108	1,057	1,073	1,108	1,111
18	450	1,140	1,181	1,239	1,181	1,197	1,239	1,242
20	500	1,334	1,372	1,524	1,372			
24	600	1,480	1,524	1,600	1,524			

无锡斯考尔自动控制设备有限公司

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