

SCORE GS

顶部导向型单座调节阀 Top Guided Single Seated Globe Valves

应用 Application

SCORE 的 GS100 系列通用型球形控制阀如图 1 所示采用不平衡型阀芯、顶部导向，既可用于各类液体和气体的节流调节也可用于开关控制。

GS200 是小流量单座调节阀，适用于微小流量的调节。

SCORE GS100 general-purpose globe valves shown in figures 1 are used for throttling or on-off control of a wide variety of liquids and gases, have unbalanced valve plugs and top guiding.

GS200 is small plug type globe valve, it's suitable for modulating for small flowrate.

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量流道，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。
- 坚固的顶部导向使阀芯获得稳定的支撑、经济可靠。
- 阀体结构允许材质符合 NACE0175-2003，详情请与 SCORE 联系。
- 高性能的 Pillar 聚四氟乙烯纤维、碳纤维编织型填料或柔性石墨复合填料加上动态补偿蝶簧（Live-loading），大大降低了阀门填料函逸散泄漏的可能，符合 ISO 15848-1 低逸散规范。
- S shape smooth profile cast globe body is third-generation design of equal average-flowrate with CFD (Computational Fluid Dynamics) after second generation of equal-section design. So GS100 provide more flow capacity and low initial investment.
- High integrity body/bonnet bolting system design to ASME VIII.
- Clamped top guiding provides maximum support to ensure plug stability but cost is low.
- Valve constructions allow material compatibility with NACE MR0175-2003, pls contact with SCORE for details.
- High performance Teflon & Carbon fiber braided packing and graphite packing from Pillar with live-loading to fit with low fugitive emissions ISO 15848-1.

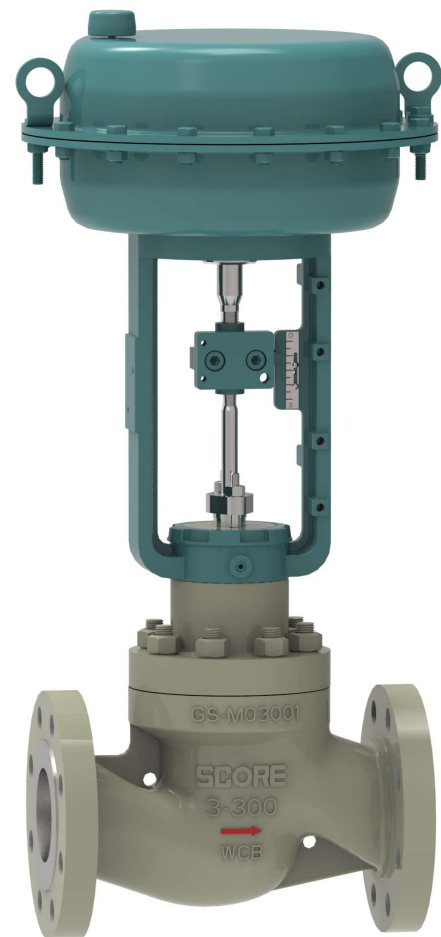


图 1. SCORE GS100 带 D100LA 执行机构
Figure 1. SCORE GS100 Valve with D100LA actuator



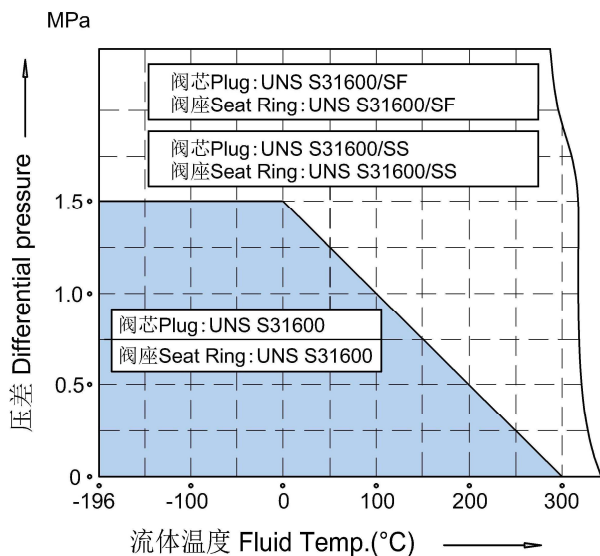
GS100 GS200 阀门工程参数 Engineering Date of SCORE GS100 GS200

公称口径	End Connection Sizes	1/2"~8" (DN15~DN200)	
公称压力	Valve Body Ratings	ANSI 150, 300, 600, 900, 1500, 2500; GB/T9113-2010 & HG20592-2009 PN16, 25, 40, 50, 63, 100, 110, 150, 160, 250, 420	
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) GB/T 4213-2008, GB/T9113-2010, HG20592-2009	
法兰距	Body Face to Face Dimensions	IEC60534/ISA-75.03-1992 (for ANSI Classes 150, 300, 600 & PN16, 25, 40, 50, 63,100, 110) ISA-75.08.06-2002 (for ANSI Classes 900, 1500 and 2500 & PN150, 160, 250, 420)	
流向	Flow Direction	流开	Flow to open
阀内件形式	Trim Form	流体压力不平衡型阀芯	Pressure unbalanced plug type
流量特性	Characteristics	IEC 标准线性、等百分比 大容量线性、等百分比 快开	IEC STD Linear, Equal percentage Large Cv Linear, Equal percentage Quick open
可调比 R	Rangeability	50:1	
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, 软阀芯为 Class VI。	ANSI/FCI 70.2. Class IV as standard, Class V is option, Class VI with soft seal ring insert
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	聚四氟乙烯纤维编织型填料 (EDP19=P4525+P4519、P4525+P4390W2)、 聚四氟乙烯纤维&碳纤维编织型填料 (P6528+P4519)、 柔性石墨填料 (EDP17=P6710+P6617、EVSP9000)。 Teflon Fiber Braided Packing (EDP19=P4525+P4519, P4525+P4390W2), Teflon & Carbon Fiber Braided Packing (P6528+P4519), Graphite Packing (EDP17=P6710+P6617, EVSP9000).	
垫圈	Gasket	For ANSI 150#~600# & PN16~110 锯齿形垫圈 (软性碳钢、UNS S31600 和其他合金钢)。 Grooved metal gasket (Soft steel, stainless steel or other alloy steels). For ANSI 900#~2500# & PN160~420 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).	
表面涂层色	Paint	艳蓝 RAL5018 (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.	

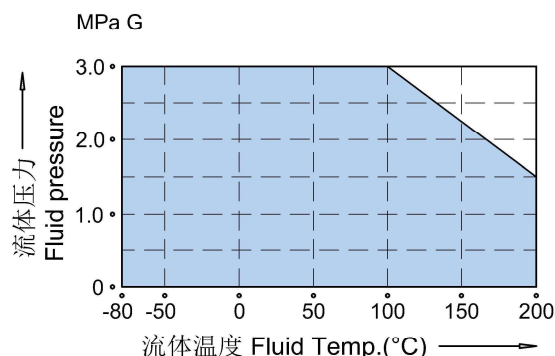
阀内件材质及处理选定基准

Trim Treatment/Material VS Operating Pressure-Temperature Ratings

金属密封
Metal Seal



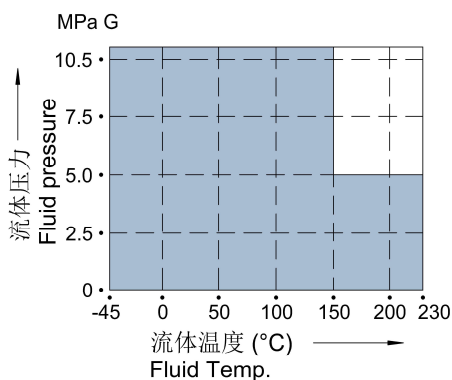
软密封 (强化聚四氟乙烯)
Soft Seal (Reinforced Teflon)



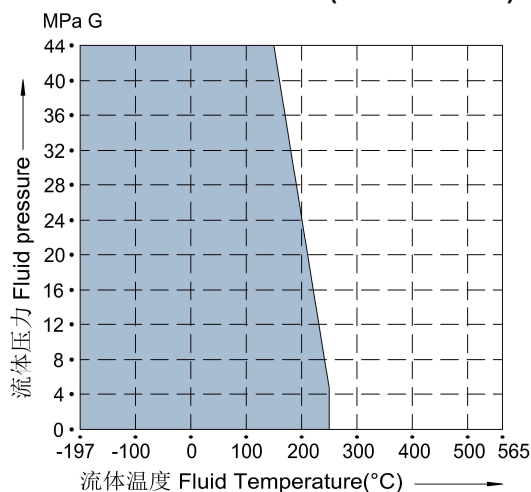
填料使用温度·压力范围

Gland Packing Pressure-Temperature Ratings

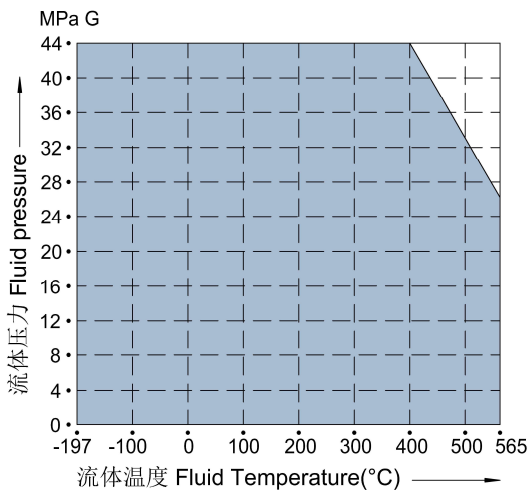
聚四氟乙烯碳纤维 (EDP19、P4525+P4390W2)
The Carbon/Teflon Fiber (EDP19, P4525+P4390W2)



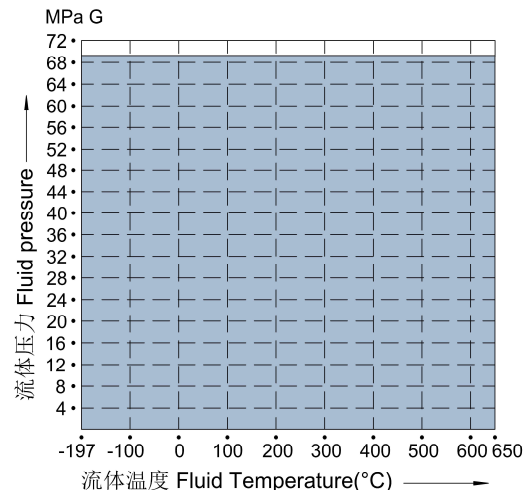
碳纤维/聚四氟乙烯纤维 (P6528+P4519)
Carbon Fiber & Teflon Fiber (P6528+P4519)



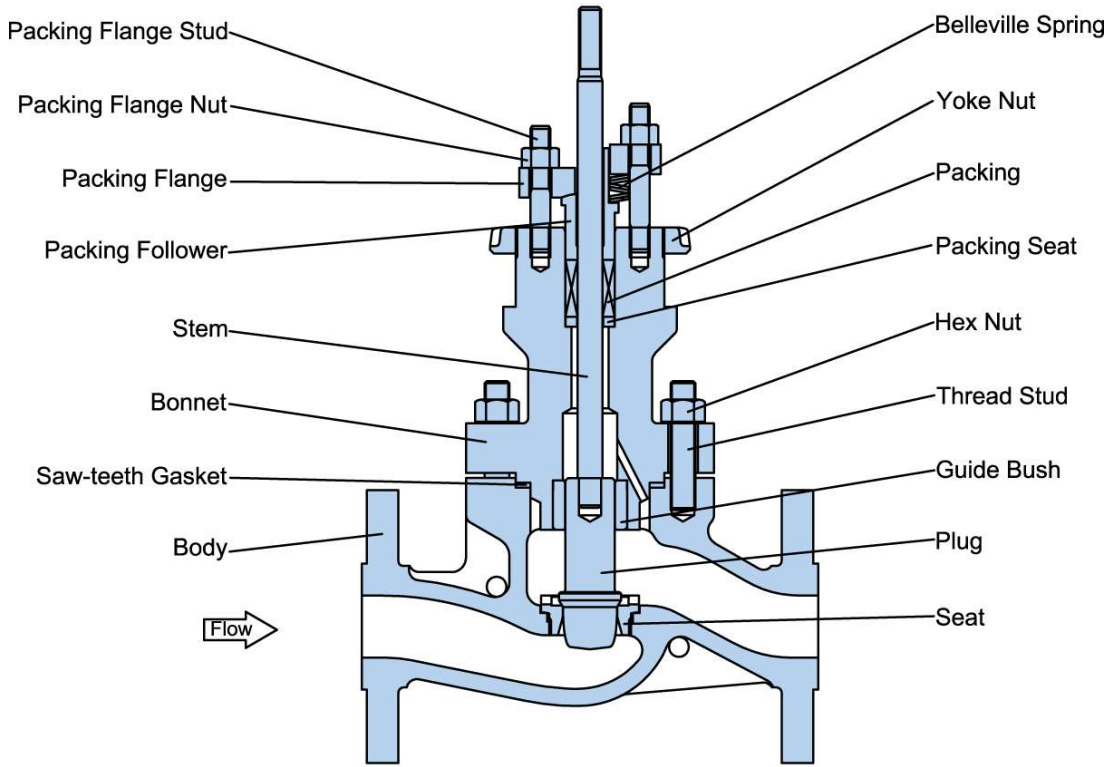
柔性石墨 Graphite (EDP17)



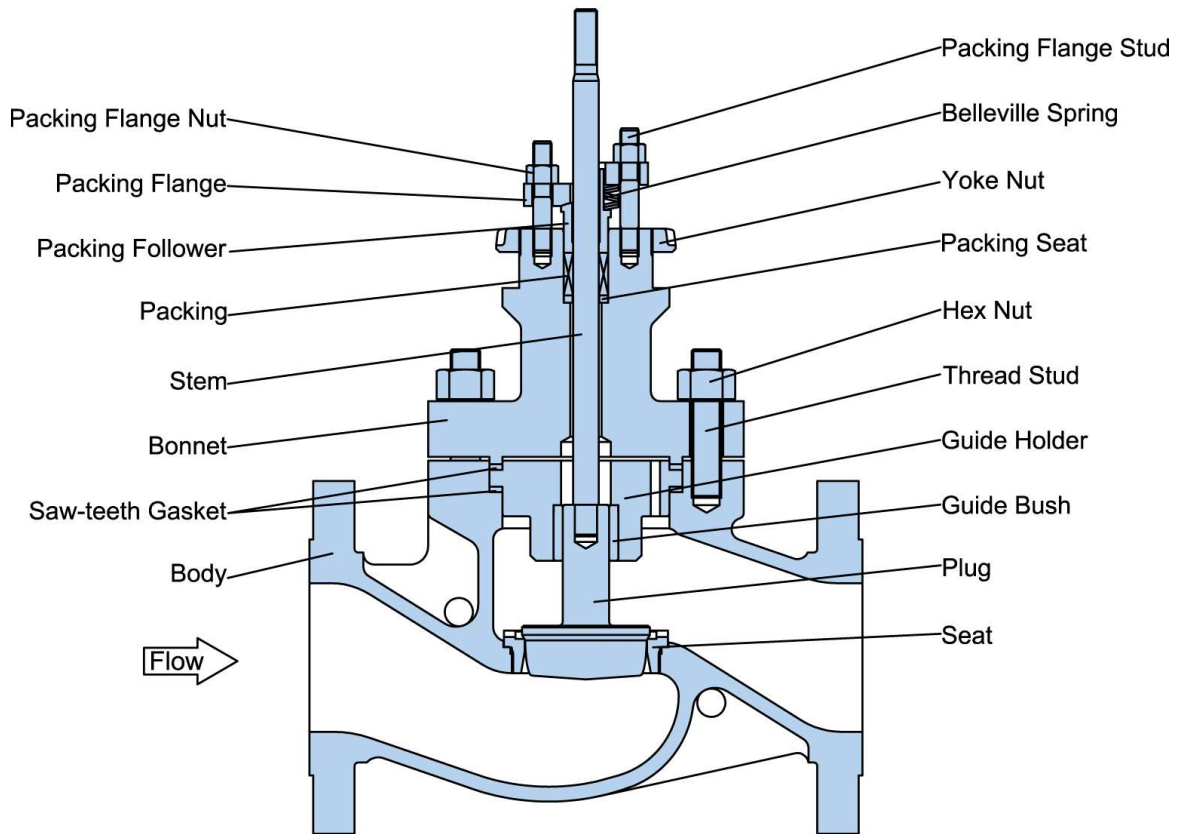
柔性石墨 Graphite (EVSP9000)



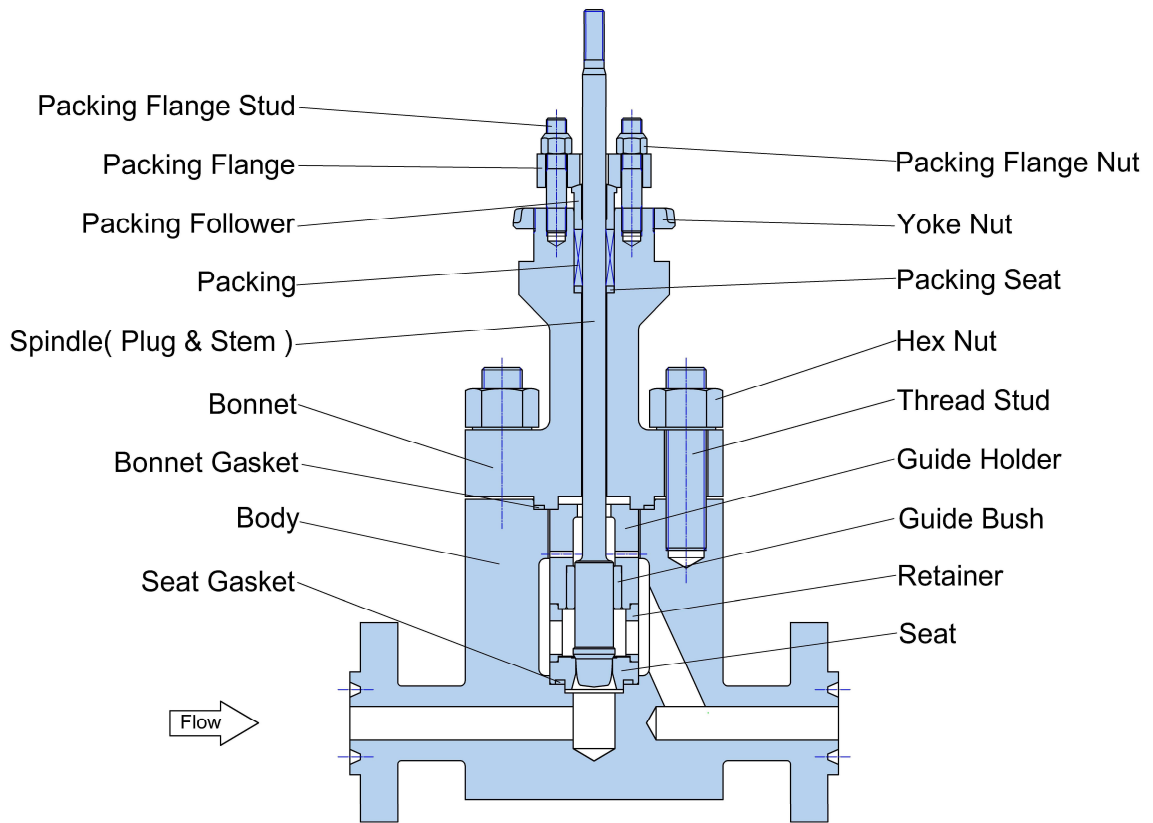
本体部结构 Body Assembly Construction



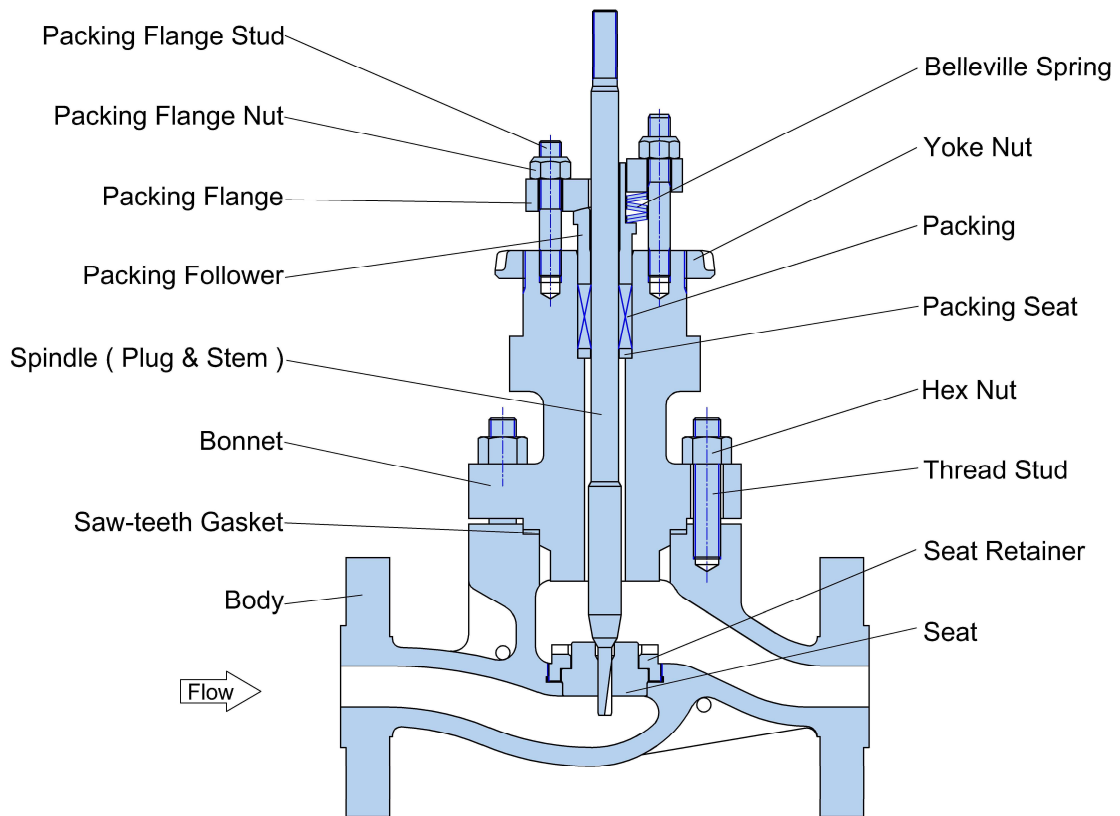
GS100 ANSI 150#~600#/PN16~PN110 1/2"~1" Body Assembly



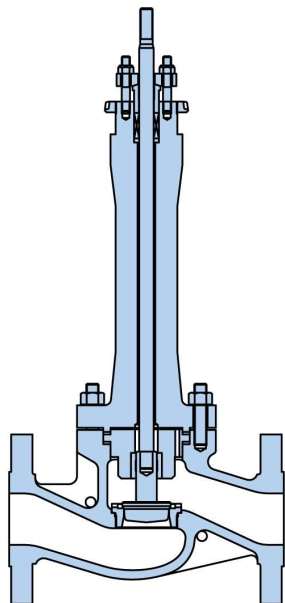
GS100 ANSI 150#~600#/PN16~PN110 1-1/2"~8" Body Assembly



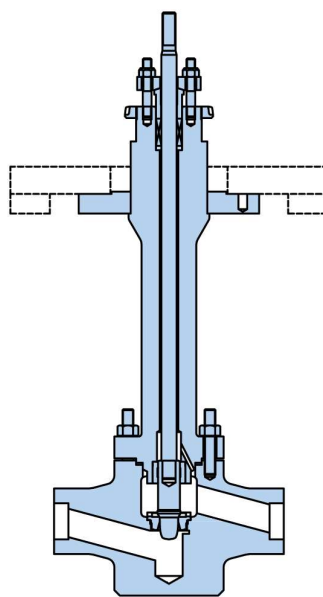
GS100 ANSI 900#~2500#/PN150~PN420 1/2"~2" Body Assembly



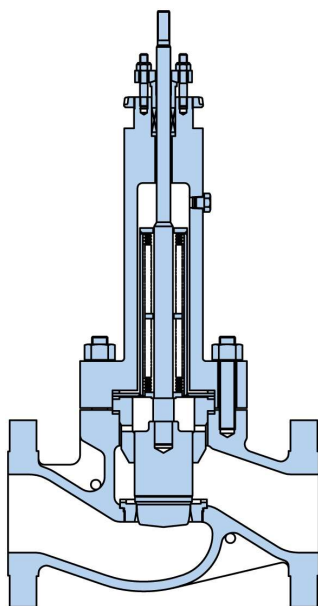
GS200 V 型切口阀芯 GS200 V-cut Plug (-196~+538°C)



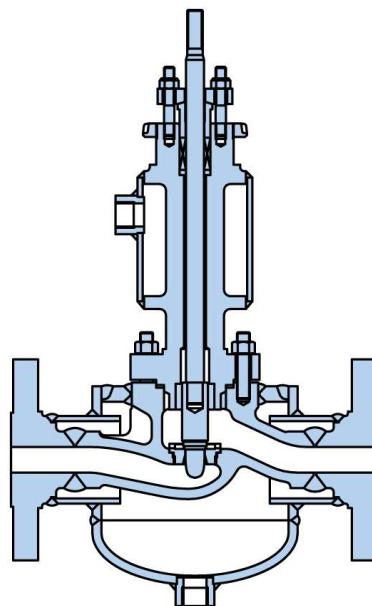
低温型阀盖（不带冷箱）
Cryogenic Bonnet Without Cold Box
-196~+538℃



低温型阀盖（带冷箱）
Cryogenic Bonnet With Cold Box
-196~+538℃



波纹管密封型阀盖
Bellows Seal Bonnet



全蒸汽夹套型阀体、阀盖
Full Steam Jacket Body & Bonnet

GS100 材料组合 GS100 Material Combinations for ANSI 150#~600#, PN16~PN110

阀体材质 Body Material	A216-WCB, A217-WC6, A217-WC9, A217-C5, A352-LCB			
阀盖材质 Bonnet Material	A105, A182-F11, A182-F22, A182-F5a, A350-LF2			
阀芯 Plug	S31600+RTFE	S31600	S31600/SS	S31600/SF
阀座 Seat Ring	S31600	S31600	S31600/SS	S31600/SF
导向套 Guide Bushing	S44004/HT (A276-440C/HT)			
垫圈 Gasket	1010			
阀座允许泄漏量 Seat Leakage	Class VI	Class IV, V	Class IV, V	Class IV, V
使用温度 Operating temperature ℃	WCB body	-29~+200	-29~+250	-29~+425
	WC6 body			
℃	C5 body	-45~+200	-45~+250	-45~+350
	LCB body			

阀体材质 Body Material	A351-CF8, A351-CF8M			
阀盖材质 Bonnet Material	A276-304/A182-F304, A276-316/A182-F316			
阀芯 Plug	S31600+RTFE	S31600	S31600/SS	S31600/SF
阀座 Seat Ring	S31600	S31600	S31600/SS	S31600/SF
导向套 Guide Bushing	S31600/PS			
垫圈 Gasket	S31600			
阀座允许泄漏量 Seat Leakage	Class VI	Class IV, V	Class IV, V	Class IV, V
使用温度 Operating temperature ℃	-80~+200	-196~+250	-196~+565	-196~+565

GS100 材料组合 GS100 Material Combinations for ANSI 900#~2500#, PN150~420

阀体材质 Body Material	A216-WCB, A217-WC6, A217-WC9, A217-C5, A352-LCB		
阀盖材质 Bonnet Material	A105, A182-F11, A182-F22, A182-F5a, A350-LF2		
阀芯 Plug	S44004/HT (A276-440C/HT)	S31600/SS	S31600/SF
阀座 Seat Ring	S44004/HT (A276-440C/HT)	S31600/SS	S31600/SF
导向套 Guide Bushing	S44004/HT (A276-440C/HT)		S11572/PS (A182-F11/PS)
垫圈 Gasket	缠绕式垫圈 (316L+柔性石墨) Spiral Wound Metal with Grafoil Filler (316L+Graphite)		
阀座允许泄漏量 Seat Leakage	Class IV, V	Class IV, V	Class IV, V
使用温度 Operating temperature ℃	WCB body	-5~+425	-5~+475
	WC6 body		-5~+565
℃	C5 body	-45~+350	-45~+350
	LCB body		

阀体材质 Body Material	A351-CF8, A351-CF8M		
阀盖材质 Bonnet Material	A276-304/A182-F304, A276-316/A182-F316		
阀芯 Plug	S31600/SS	S31600/SS	S31600/SF
阀座 Seat Ring	S31600/SS	S31600/SS	S31600/SF
导向套 Guide Bushing	S31600/PS		
垫圈 Gasket	缠绕式垫圈 (316L+柔性石墨) Spiral Wound Metal with Grafoil Filler (316L+Graphite)		
阀座允许泄漏量 Seat Leakage	Class IV, V	Class IV, V	Class IV, V
使用温度 Operating temperature ℃	-196~+230	-196~+565	-196~+565

GS200 材料组合 GS200 Material Combinations for ANSI 150#~2500#, PN16~PN420

阀体材质 Body Material	A216-WCB, A217-WC6, A217-WC9, A217-C5, A352-LCB		
阀盖材质 Bonnet Material	A105, A182-F11, A182-F22, A182-F5a, A350-LF2		
阀芯 Plug	S31600/Solid Stellite		
阀座 Seat Ring	S31600/Solid Stellite		
阀座允许泄漏量 Seat Leakage	Class IV, V		
使用温度 Operating temperature °C	WCB body	-29~+425	
	WC6 body	-5~+565	
	C5 body		
	LCB body	-45~+350	

阀体材质 Body Material	A351-CF8, A351-CF8M		
阀盖材质 Bonnet Material	A276-304/A182-F304, A276-316/A182-F316		
阀芯 Plug	S31600/Solid Stellite		
阀座 Seat Ring	S31600/Solid Stellite		
阀座允许泄漏量 Seat Leakage	Class IV, V		
使用温度 Operating temperature °C	-196~+565		

备注 Note:

- RTFE: 强化聚四氟乙烯 Reinforced Teflon ●SS: 密封面堆焊司太莱合金 Stellite seat
- HT: 热处理 Heat Treatment ●SF: 表面全部堆焊司太莱合金 Stellite full surface
- PS: 部分堆焊司太莱合金 Partial stellite
- 阀芯尺寸 1/4" 及以下, 只有全部堆焊司太莱合金, 没有部分堆焊司太莱合金。
In the case of stellite seat for plug size less than 1/4", we will make full stellite surface.
- 小尺寸零件采用棒料加工, 大尺寸零件采用锻件加工。
SCORE used bar for small parts and forging for big size parts.

GS100 全蒸汽夹套型公称通径

Valve Size for GS100 Full Jacket Type

公称压力 HG20615-2009 Class 150~300、HG20592-2009 PN16~40

Body Rating HG20615-2009 Class 150~300, HG20592-2009 PN16~40

公称通径 Valve Normal Size (NPS)		夹套法兰尺寸 Jacketed Flange Size	
Inch	mm	Inch	mm
1/2	15	1-1/2	40
3/4	20	1-1/2	40
1	25	2	50
1-1/2	40	3	80
2	50	3	80
2-1/2	65	4	100
3	80	5	125
3	80	6	150
4	100	6	150
5	125	8	200
6	150	8	200
8	200	10	250

GS100 额定 Cv 值及行程 GS100 Rated Cv Values & Stroke

公称压力 ANSI 150#~600#、PN16~110

Body Rating ANSI 150#~600#, PN16~110

公称通径 Valve Size		阀芯尺寸 Plug Size		额定 Cv 值 Rated Cv			行程 Stroke mm	
Inch	mm	Inch	mm	IEC 标准型 IEC STD	大容量型 Large Cv	快开 Quick Open	调节 Throttling	快开 Quick Open
1/2 3/4 1	15 20 25	1/16	3	0.10	—	—	12	—
		3/32	4	0.16	—	—	12	—
		1/8	5	0.25	—	—	12	—
		5/32	6	0.40	—	—	12	—
		3/16	7	0.63	—	—	12	—
		1/4	8	1.0	—	—	12	—
		5/16	9	1.6	—	—	20	—
		3/8	10	2.5	—	—	20	—
3/4	20	1/2	15	4.0	—	—	20	—
		5/8	18	6.3	—	—	20	—
1	25	3/4	20	8	—	10	20	16
		5/8	18	6.3	—	—	20	16
		1	25	13	—	15	20	16
1.5	40	1	25	13	—	—	20	—
		1.25	32	20	—	—	20	—
2	50	1.5	40	25	30	35	20	16
		1.25	32	20	—	—	20	—
		2	50	45	50	55	20	16
2-1/2	65	1.5	40	25	—	—	30	—
		2	50	45	—	—	30	—
		2.5	65	72	85	95	30	20
3	80	2	50	45	—	—	30	—
		2.5	65	72	—	—	30	—
		3	80	100	125	135	30	20
4	100	2.5	65	72	—	—	40	—
		3	80	100	—	—	40	—
		4	100	175	200	220	40	30
5	125	3	80	100	—	—	50	—
		4	100	175	—	—	50	—
		5	125	280	310	330	50	40
6	150	4	100	175	—	—	50	—
		5	125	280	—	—	50	—
		6	150	365	425	460	50	40
8	200	5	125	280	—	—	70	—
		6	150	365	—	—	70	—
		8	200	640	700	720	70	60

注：软密封阀芯的最小尺寸为 3/4”。

Note: In the case of soft seal plug, minimum available plug size is 3/4”.

公称压力 ANSI 900#~1500#、PN150~250

Body Rating ANSI 900#~1500#, PN150~250

公称通径 Valve Size		阀芯尺寸 Plug Size		额定 Cv 值 Rated Cv	行程 Stroke mm
Inch	mm	Inch	mm		
1/2 3/4 1	15 20 25	1/16	3	0.10	12
		3/32	4	0.16	12
		1/8	5	0.25	12
		5/32	6	0.40	12
		3/16	7	0.63	12
		1/4	8	1.0	12
		5/16	9	1.6	20
		3/8	10	2.5	20
		1/2	15	4.0	20
3/4	20	5/8	18	6.3	20
1	25	5/8	18	6.3	20
		3/4	20	8	20
		1	25	13	20
1-1/2	40	3/4	20	8	20
		1	25	13	20
		1-1/2	40	25	20
2	50	1	25	13	20
		1-1/2	40	25	20
		2	50	45	20

公称压力 ANSI 2500#、PN420

Body Rating ANSI 2500#, PN420

公称通径 Valve Size		阀芯尺寸 Plug Size		额定 Cv 值 Rated Cv	行程 Stroke mm
Inch	mm	Inch	mm		
1/2 3/4 1	15 20 25	1/16	3	0.10	12
		3/32	4	0.16	12
		1/8	5	0.25	12
		5/32	6	0.40	12
		3/16	7	0.63	12
		1/4	8	1.0	12
		5/16	9	1.6	20
		3/8	10	2.5	20
		1/2	15	4.0	20
3/4	20	3/4	20	6.3	20
1	25	3/4	20	6.3	20
		1	25	10	20
1-1/2	40	3/4	20	6.3	20
		1	25	10	20
		1-1/2	40	20	20
2	50	1	25	10	20
		1-1/2	40	20	20
		2	50	30	20

GS200 额定 Cv 值及行程 GS200 Rated Cv Values & Stroke

公称压力 ANSI 150#~2500#、PN16~420

Body Rating ANSI 150#~2500#, PN16~420

公称通径 Valve Size		阀芯尺寸 Plug Size		额定 Cv 值 Rated Cv	最小可控 Cv Min. Cv for Control	行程 Stroke
Inch	mm	Inch	mm			mm
1/2 3/4 1	15 20 25	1/16	3	0.100	0.0068	12
		1/16	3	0.063	0.0068	12
		1/16	3	0.040	0.0068	12
		1/16	3	0.025	0.0068	12
		1/32	1.6	0.016	0.0017	12
		1/32	1.6	0.010	0.0017	12
		1/32	1.6	0.008	0.0017	12
		1/32	1.6	0.006	0.0017	12
		1/32	1.6	0.005	0.0017	12
		1/32	1.6	0.004	0.0017	12
		1/64	1	0.003	0.0004	12

GS100/GS200 ANSI 150#~600#、PN16~PN110 最大允许压差 (单位: MPa)
GS100/GS200 ANSI 150#~600#、PN16~PN110 Allowable Pressure Drops
(Unit: MPa)

阀门口径与执行机构的标准组合请参见第 17~24 页。

See pages 17~24, for valve size & actuator size combinations.

薄膜式执行机构 Diaphragm Actuator (D100LC)

填料: 聚四氟乙烯纤维编织填料 (EDP19、禁油填料 P4525+P4390W2)

Packing: Teflon Fiber Braided Packing (EDP19, P4525+P4390W2 for oil free)

执行机构尺寸 Actuator Size	气源压力/弹簧范围 Air Supply /spring range KPa G	阀座 泄漏量 Seat Leakage	阀芯尺寸 Plug Size (inch)															
			1/16 ~1/4	5/16 ~3/8	1/2	5/8	3/4	1	1.25	1.5	2	2.5	3	4	5	6	8	
220	400/120~280	Class IV	9.89	9.89	8.77	6.67	4.64	3.06	2.12	1.14	0.62	—	—	—	—	—	—	
		Class V	9.89	7.01	2.84	2.01	1.18	0.51	—	—	—	—	—	—	—	—	—	
		Class VI	—	—	—	—	3.00	3.00	2.12	1.14	0.62	—	—	—	—	—	—	
270	400/120~280	Class IV	9.89	9.89	9.89	9.89	8.88	6.00	4.29	2.45	1.46	0.82	0.50	—	—	—	—	
		Class V	9.89	9.89	7.03	5.45	3.83	2.47	1.63	0.69	0.19	—	—	—	—	—	—	
		Class VI	—	—	—	—	3.00	3.00	3.00	2.45	1.46	0.82	0.50	—	—	—	—	
350	400/120~280	Class IV	9.89	9.89	9.89	9.89	9.89	9.89	8.87	5.22	3.23	1.93	1.25	0.67	—	—	—	
		Class V	9.89	9.89	9.89	9.89	9.45	6.63	4.84	2.77	1.59	0.80	0.39	—	—	—	—	
		Class VI	—	—	—	—	3.00	3.00	3.00	3.00	3.00	1.93	1.25	0.67	—	—	—	
450	400/120~280	Class IV	—	—	—	—	—	9.89	9.89	9.74	6.13	3.73	2.49	1.40	0.86	0.57	0.27	
		Class V	—	—	—	—	—	9.89	9.89	6.16	3.87	2.29	1.44	0.69	0.33	0.15	—	
		Class VI	—	—	—	—	—	3.00	3.00	3.00	3.00	3.00	2.49	1.40	0.80	0.53	0.27	
550	400/120~280	Class IV	—	—	—	—	—	—	—	—	—	hold	hold	hold	hold	hold	hold	
		Class V	—	—	—	—	—	—	—	—	—	hold	hold	hold	hold	hold	hold	
		Class VI	—	—	—	—	—	—	—	—	—	hold	hold	hold	hold	hold	hold	
650	300/80~200	Class IV	—	—	—	—	—	—	—	—	—	5.58	3.75	2.14	1.34	0.90	0.49	
		Class V	—	—	—	—	—	—	—	—	—	3.81	2.51	1.35	0.77	0.45	0.17	
		Class VI	—	—	—	—	—	—	—	—	—	3.00	3.00	2.14	1.34	0.90	0.49	

填料: 柔性石墨填料 (EVSP9000)、柔性石墨纤维编织填料 (EDP17=P6710+P6617)

Packing: Graphite Packing (EVSP9000), Graphite Fiber Braided Packing (EDP17=P6710+P6617)

执行机构尺寸 Actuator Size	气源压力/弹簧范围 Air Supply /spring range KPa G	阀座 泄漏量 Seat Leakage	阀芯尺寸 Plug Size (inch)															
			1/16 ~1/4	5/16 ~3/8	1/2	5/8	3/4	1	1.25	1.5	2	2.5	3	4	5	6	8	
220	400/120~280	Class IV	8.33	8.33	6.80	5.13	3.53	2.29	1.56	0.80	0.40	—	—	—	—	—	—	
		Class V	8.33	5.00	1.74	1.11	0.49	—	—	—	—	—	—	—	—	—	—	
		Class VI	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
270	400/120~280	Class IV	8.33	8.33	8.33	8.33	7.33	4.92	3.50	1.97	1.15	0.63	0.37	—	—	—	—	
		Class V	8.33	8.33	5.49	4.19	2.86	1.75	1.07	0.33	—	—	—	—	—	—	—	
		Class VI	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
350	400/120~280	Class IV	8.33	8.33	8.33	8.33	8.33	8.33	8.08	4.74	2.93	1.74	1.12	0.60	—	—	—	
		Class V	8.33	8.33	8.33	8.33	8.33	5.92	4.28	2.41	1.35	0.64	0.28	—	—	—	—	
		Class VI	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
450	400/120~280	Class IV	—	—	—	—	—	8.33	8.33	8.33	5.76	3.50	2.33	1.30	0.80	0.53	0.22	
		Class V	—	—	—	—	—	8.33	8.33	5.73	3.58	2.09	1.30	0.61	0.28	—	—	
		Class VI	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
550	400/120~280	Class IV	—	—	—	—	—	—	—	—	—	hold	hold	hold	hold	hold	hold	
		Class V	—	—	—	—	—	—	—	—	—	hold	hold	hold	hold	hold	hold	
		Class VI	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
650	300/80~200	Class IV	—	—	—	—	—	—	—	—	—	5.12	3.43	1.95	1.22	0.82	0.44	
		Class V	—	—	—	—	—	—	—	—	—	3.43	2.24	1.19	0.66	0.38	0.12	
		Class VI	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

备注: 金属阀座泄漏量是 Class VI、V, 软阀座泄漏量是 Class VI。

Note: Seat leakage Class VI, V is for metal seat, Class VI is for soft seat.

活塞式执行机构 Piston Actuator (P100LA)

填料：聚四氟乙烯纤维编织填料（EDP19、禁油填料 P4525+P4390W2）

Packing: Teflon Fiber Braided Packing (EDP19, P4525+P4390W2 for oil free)

执行机构尺寸 Actuator Size	气源压力 Air Supply KPa G	阀座泄漏量 Seat Leakage	阀芯尺寸 Plug Size (inch)					
			2-1/2	3	4	5	6	8
300	400	Class IV	9.89	6.76	3.91	2.48	1.70	0.95
		Class V	7.46	5.08	2.91	1.80	1.19	0.60
		Class VI	3.00	3.00	3.00	2.48	1.70	0.95
450	400	Class IV	—	—	—	5.90	4.09	2.34
		Class V	—	—	—	4.88	3.38	1.90
		Class VI	—	—	—	3.00	3.00	2.34
600	400	Class IV	—	—	—	9.89	7.52	4.33
		Class V	—	—	—	9.32	6.53	3.76
		Class VI	—	—	—	3.00	3.00	3.00

填料：柔性石墨填料（EVSP9000）、柔性石墨纤维编织填料（EDP17=P6710+P6617）

Packing: Graphite Packing (EVSP9000), Graphite Fiber Braided Packing (EDP17=P6710+P6617)

执行机构尺寸 Actuator Size	气源压力 Air Supply KPa G	阀座泄漏量 Seat Leakage	阀芯尺寸 Plug Size (inch)					
			2-1/2	3	4	5	6	8
300	400	Class IV	9.54	6.45	3.73	2.36	1.62	0.91
		Class V	7.08	4.81	2.75	1.69	1.11	0.56
		Class VI	—	—	—	—	—	—
450	400	Class IV	—	—	—	5.67	3.93	2.24
		Class V	—	—	—	4.68	3.23	1.81
		Class VI	—	—	—	—	—	—
600	400	Class IV	—	—	—	8.33	7.36	4.23
		Class V	—	—	—	8.33	6.38	3.67
		Class VI	—	—	—	—	—	—

备注：金属阀座泄漏量是 Class VI、V，软阀座泄漏量是 Class VI。

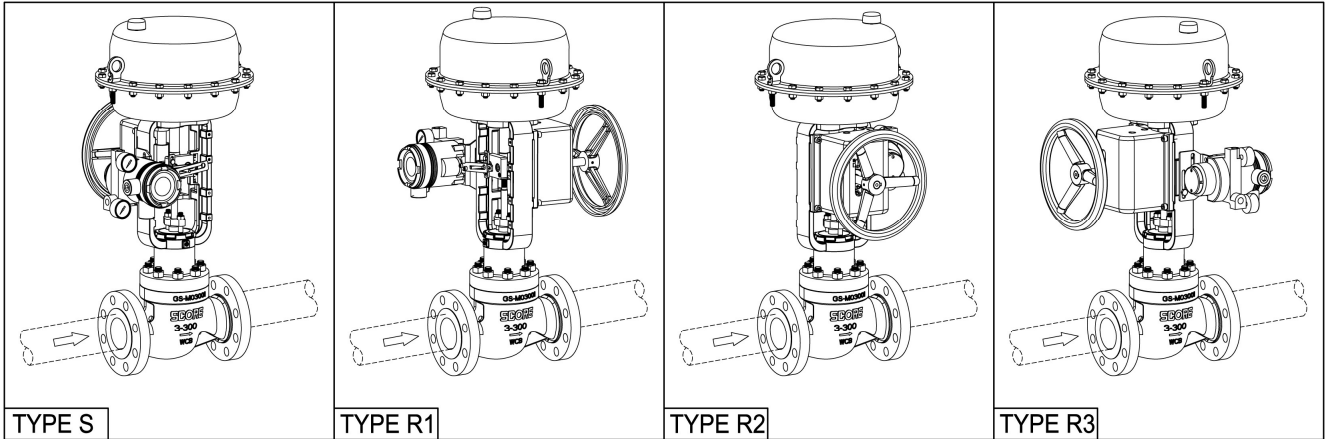
Note: Seat leakage Class VI, V is for metal seat, Class VI is for soft seat.

控制阀安装方位（带 D100LB/LC 气动薄膜式执行机构）

MOUNTING FORMS FOR D100LB/LC

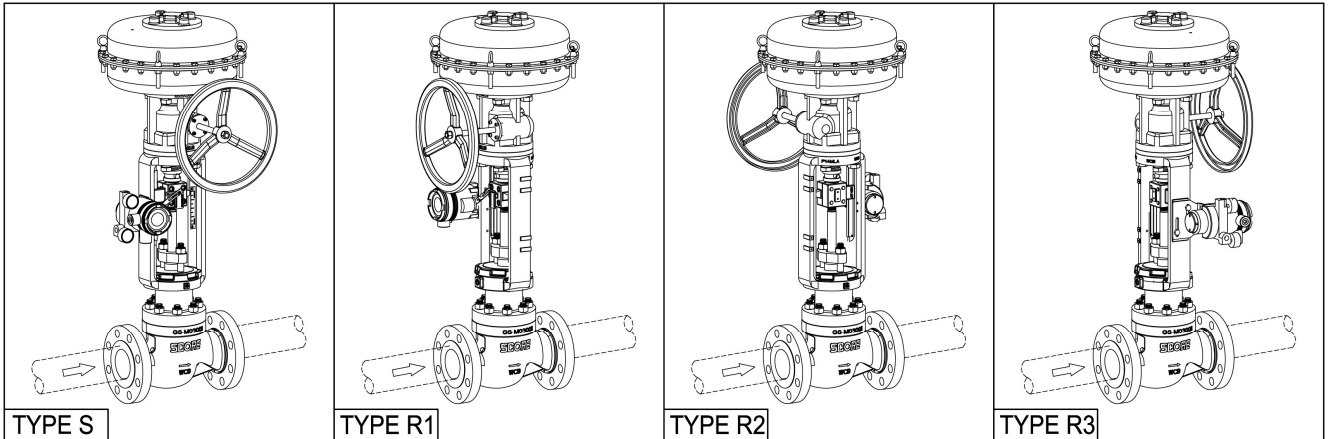
执行机构尺寸：Φ220~Φ450

ACTUATOR SIZE: Φ220~Φ450



执行机构尺寸：Φ650

ACTUATOR SIZE: Φ650

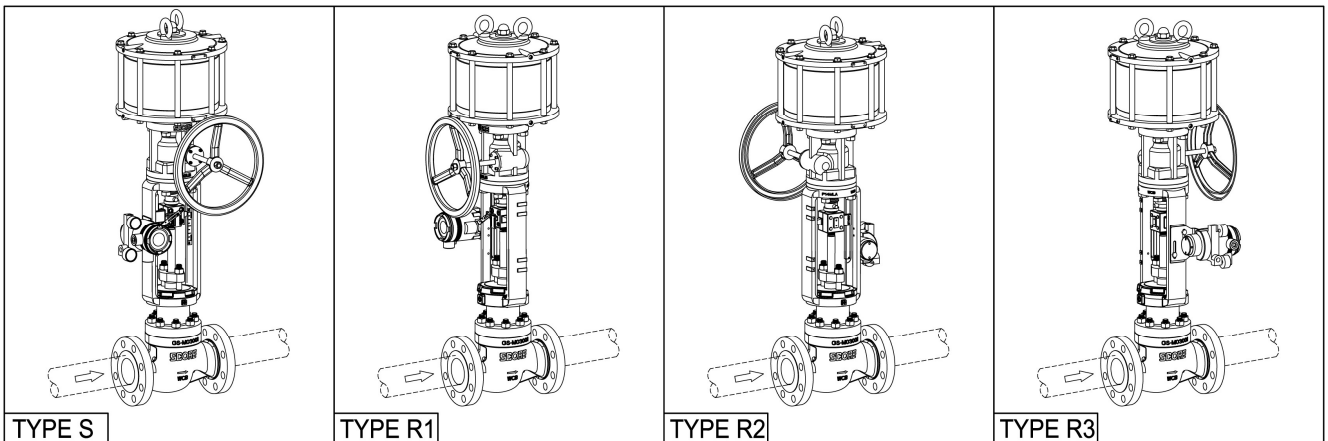


控制阀安装方位（带 P100LA 气动活塞式执行机构）

MOUNTING FORMS FOR P100LA

执行机构尺寸：Φ200~Φ600

ACTUATOR SIZE: Φ200~Φ600



注：如客户没有指定，则默认 TYPE S 出厂。

Note: Type S is automatically applied, unless otherwise specified.

与标准执行机构组合时的产品重量（单位：kg）

NET WEIGHT OF VALVE WITH STANDARD ACTUATOR (UNIT: kg)

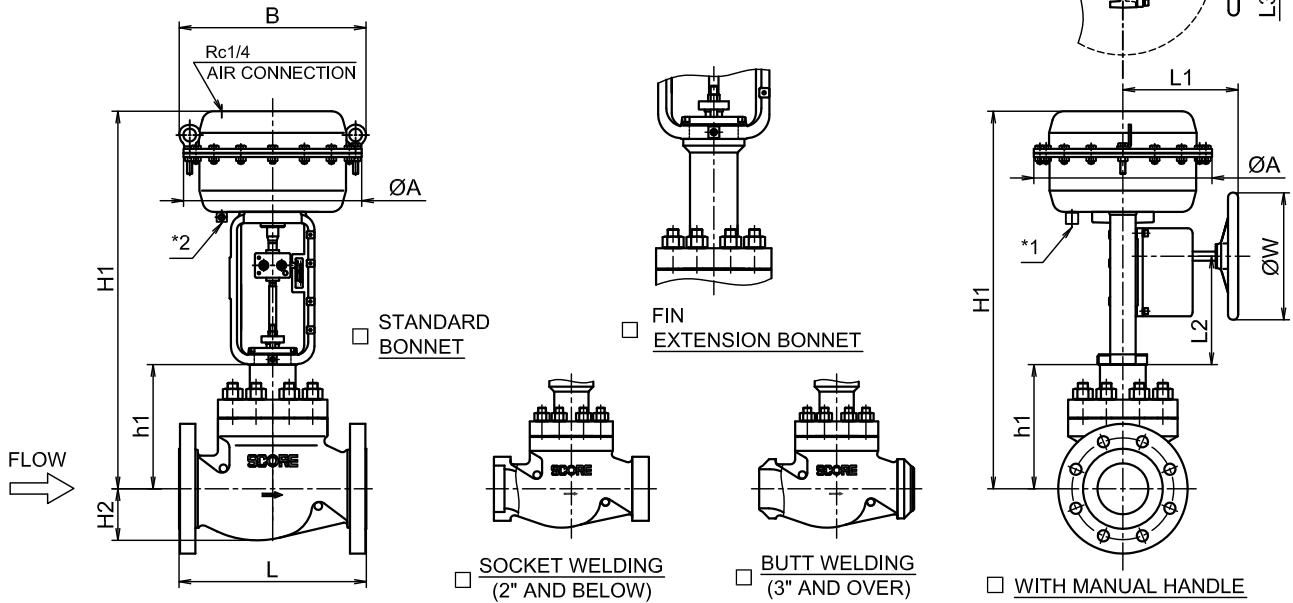
表中所示重量，均为本体部和执行机构的标准产品重量，不包括手轮机构、附件等。

Only standard types are represented, Weights of a handwheel, accessories and so on are not included.

公称通径 Valve Size Inch (mm)		公称压力 Valve Rating		D100L 系列薄膜式执行机构尺寸 Diaphragm Actuator Size							
				ANSI	PN	220	270	350	450S	450L	450E
1/2	15	150	16	18	25	41	—	—	—	—	—
		300	25、40、50	19	26	42	—	—	—	—	—
		600	63、100、110	21	28	44	—	—	—	—	—
3/4	20	150	16	18	25	41	—	—	—	—	—
		300	25、40、50	19	26	42	—	—	—	—	—
		600	63、100、110	21	28	44	—	—	—	—	—
1	25	150	16	18	25	41	—	—	—	—	—
		300	25、40、50	19	26	42	—	—	—	—	—
		600	63、100、110	21	28	44	—	—	—	—	—
1-1/2	40	150	16	25	32	48	83	—	—	—	—
		300	25、40、50	31	38	54	90	—	—	—	—
		600	63、100、110	39	46	62	97	—	—	—	—
2	50	150	16	32	39	55	90	—	—	—	—
		300	25、40、50	37	44	60	95	—	—	—	—
		600	63、100、110	42	49	65	100	—	—	—	—
2-1/2	65	150	16	—	46	62	97	—	—	—	—
		300	25、40、50	—	51	67	105	—	—	—	—
		600	63、100、110	—	66	82	120	—	—	—	—
3	80	150	16	—	56	72	110	—	—	—	—
		300	25、40、50	—	66	82	120	—	—	—	—
		600	63、100、110	—	86	100	140	—	—	—	—
4	100	150	16	—	—	82	120	—	—	240	—
		300	25、40、50	—	—	97	135	—	—	255	—
		600	63、100、110	—	—	132	170	—	—	290	—
5	125	150	16	—	—	—	—	155	—	250	—
		300	25、40、50	—	—	—	—	180	—	280	—
		600	63、100、110	—	—	—	—	230	—	330	—
6	150	150	16	—	—	—	—	200	—	300	—
		300	25、40、50	—	—	—	—	230	—	330	—
		600	63、100、110	—	—	—	—	280	—	380	—
8	200	150	16	—	—	—	—	—	270	—	440
		300	25、40、50	—	—	—	—	—	320	—	450
		600	63、100、110	—	—	—	—	—	440	—	570

GLOBE-VALVE DIRECT ACTION

*1 AIR EXHAUST POSITION FOR Ø220 & Ø270
 *2 AIR EXHAUST POSITION FOR Ø350 & Ø450



DIMENSIONS

UNIT: mm

VALVE SIZE	FACE TO FACE : L (ISA-75.03-1992)								H2	BONNET		ACTUATOR							
	ANSI 150# RF ANSI 16 RF	ANSI 300# RF PN25 PN40	ANSI 600# RF PN63 PN100	ANSI 300# SW ANSI 300# BW	ANSI 300# RJ	ANSI 600# SW ANSI 600# BW	ANSI 600# RJ	H1		H1	H1	H1	SIZE A B	WITH MANUAL HANDLE				CODE NO.	
														L1	L2	L3	ØW		
90 □ 1/2"	184	194	206	206	206	206	206	30	130	440	230	540	□220	231	170	143-123	18.5	200	D122LC
										555		655	□270	283	230	185-165	27.5	250	D127LC
										625		725	□350	367	230	193-173	27.5	250	D135LC
91 □ 3/4"	184	194	206	206	206	206	206	31	130	440	230	540	□220	231	170	143-123	18.5	200	D122LC
										555		655	□270	283	230	185-165	27.5	250	D127LC
										625		725	□350	367	230	193-173	27.5	250	D135LC
01 □ 1"	184	197	210	210	210	210	210	33	130	440	230	540	□220	231	170	143-123	18.5	200	D122LC
										555		655	□270	283	230	185-165	27.5	250	D127LC
										625		725	□350	367	230	193-173	27.5	250	D135LC
93 □ 1 1/2"	222	235	251	251	248	251	251	56	175	485	275	585	□220	231	170	143-123	18.5	200	D122LC
										600		700	□270	283	230	185-165	27.5	250	D127LC
										670		770	□350	367	230	193-173	27.5	250	D135LC
										690		790	□450	472	300	200-180	32.0	320	D14SLC
02 □ 2"	254	267	286	286	283	286	289	60	175	485	275	585	□220	231	170	143-123	18.5	200	D122LC
										600		700	□270	283	230	185-165	27.5	250	D127LC
										670		770	□350	367	230	193-173	27.5	250	D135LC
										690		790	□450	472	300	200-180	32.0	320	D14SLC
94 □ 2 1/2"	276	292	311	311	308	311	314	69	200	625	300	725	□270	283	230	195-165	27.5	250	D127LC
										695		795	□350	367	230	203-173	27.5	250	D135LC
										715		815	□450	472	300	210-180	32.0	320	D14SLC
										625		725	□270	283	230	195-165	27.5	250	D127LC
03 □ 3"	298	317	337	317	333	337	340	80	200	695	300	795	□350	367	230	203-173	27.5	250	D135LC
										715		815	□450	472	300	210-180	32.0	320	D14SLC
										740		840	□350	367	230	213-173	27.5	250	D135LC
04 □ 4"	352	368	394	368	384	394	397	102	245	760	345	860	□450	472	300	220-180	32.0	320	D14SLC

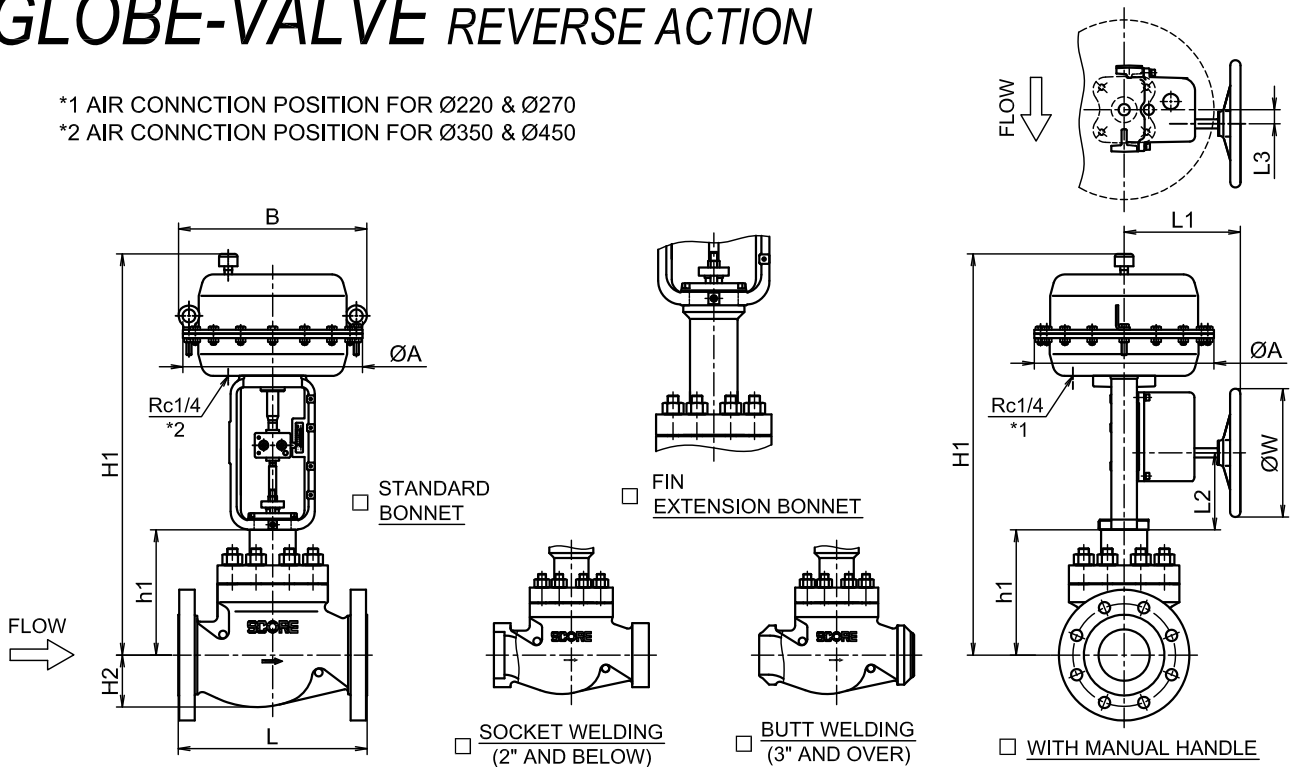
* FLANGE IS ACCORDING TO THE STANDARD WHICH IS DESCRIBED ON SPECIFICATION SHEET .

△						DR	Feng 2016.02.15	DWG NO. E-GS100-D100LC-D-N S-GS200
△						CH		
No.	DESCRIPTION	REV. BY	CH	APP	DATE	APP		REV.
REVISIONS						DATE		A



GLOBE-VALVE REVERSE ACTION

*1 AIR CONNCTION POSITION FOR Ø220 & Ø270
 *2 AIR CONNCTION POSITION FOR Ø350 & Ø450



DIMENSIONS

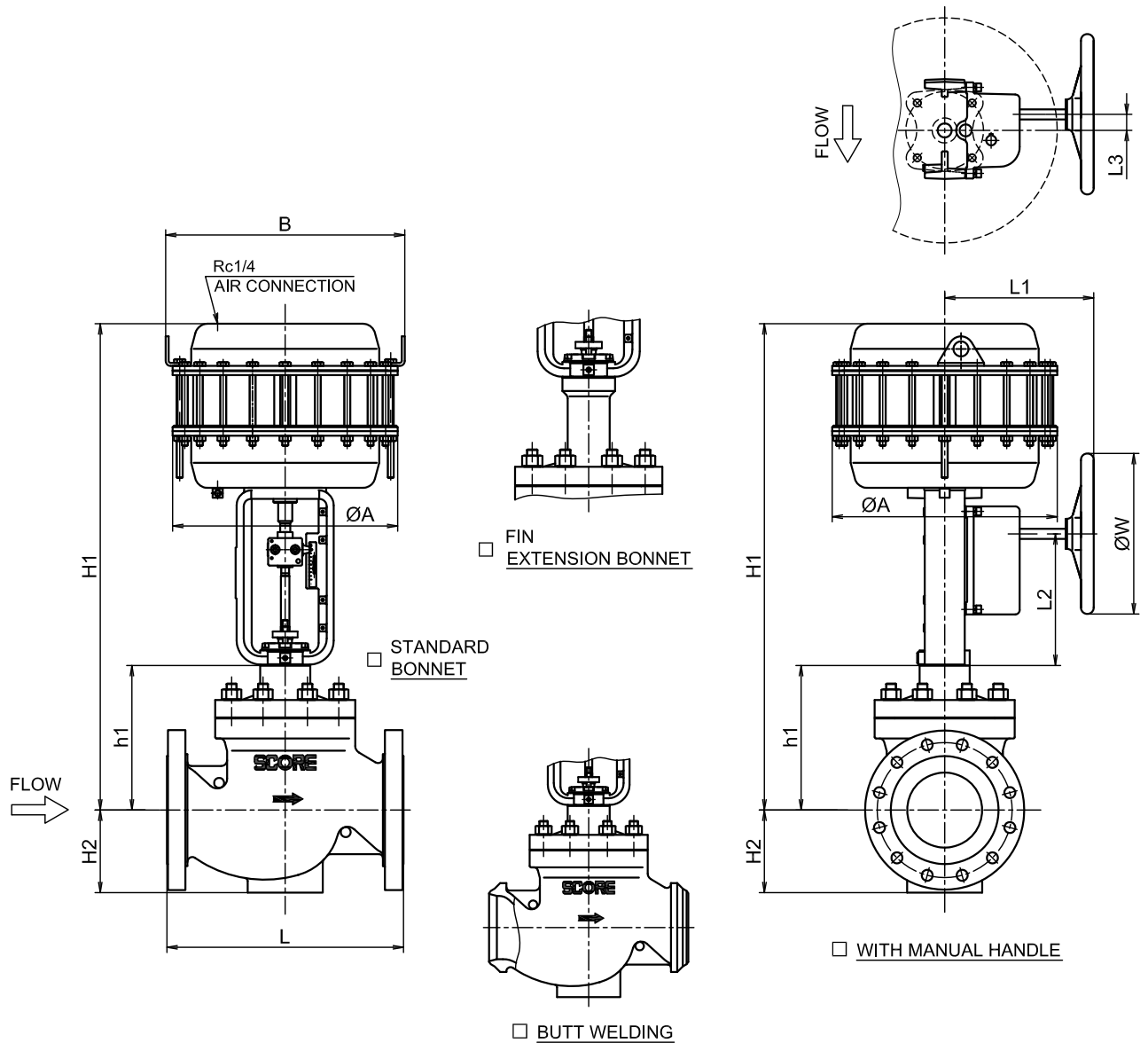
UNIT: mm

VALVE SIZE	FACE TO FACE : L (ISA-75.03-1992)								H2	STANDARD BONNET		FIN EXTENSION BONNET		ACTUATOR						CODE NO.
	ANSI 150# RF PN16 RF	ANSI 300# RF PN25 RF PN40 FM	ANSI 600# RF PN63 RF PN100 FM	ANSI 300# SW ANSI 300# BW	ANSI 300# RJ	ANSI 600# SW ANSI 600# BW	ANSI 600# RJ	h1		H1	h1	H1	SIZE	WITH MANUAL HANDLE						
CODE NO.													A	B	L1	L2	L3	ØW		
90	□ 1/2"	184	194	206	206	206	206	206	30	130	480	230	580	□220	231	170	123-143	18.5	200	D122LC
											595		695	□270	283	230	148-168	27.5	250	D127LC
											665		765	□350	367	230	150-170	27.5	250	D135LC
91	□ 3/4"	184	194	206	206	206	206	206	31	130	480	230	580	□220	231	170	123-143	18.5	200	D122LC
											595		695	□270	283	230	148-168	27.5	250	D127LC
											665		765	□350	367	230	150-170	27.5	250	D135LC
01	□ 1"	184	197	210	210	210	210	210	33	130	480	230	580	□220	231	170	123-143	18.5	200	D122LC
											595		695	□270	283	230	148-168	27.5	250	D127LC
											665		765	□350	367	230	150-170	27.5	250	D135LC
93	□ 1 1/2"	222	235	251	251	248	251	251	56	175	525	275	625	□220	231	170	123-143	18.5	200	D122LC
											640		740	□270	283	230	148-168	27.5	250	D127LC
											710		810	□350	367	230	150-170	27.5	250	D135LC
											730		830	□450	472	300	160-180	32.0	320	D14SLC
02	□ 2"	254	267	286	286	283	286	289	60	175	525	275	625	□220	231	170	123-143	18.5	200	D122LC
											640		740	□270	283	230	148-168	27.5	250	D127LC
											710		810	□350	367	230	150-170	27.5	250	D135LC
											730		830	□450	472	300	160-180	32.0	320	D14SLC
94	□ 2 1/2"	276	292	311	311	308	311	314	69	200	665	300	765	□270	283	230	148-178	27.5	250	D127LC
											735		835	□350	367	230	150-180	27.5	250	D135LC
											755		855	□450	472	300	160-190	32.0	320	D14SLC
											665		765	□270	283	230	148-178	27.5	250	D127LC
03	□ 3"	298	317	337	317	333	337	340	80	200	735	300	835	□350	367	230	150-180	27.5	250	D135LC
											755		855	□450	472	300	160-190	32.0	320	D14SLC
											780		880	□350	367	230	150-190	27.5	250	D135LC
04	□ 4"	352	368	394	368	384	394	397	102	245	800	345	900	□450	472	300	160-200	32.0	320	D14SLC

* FLANGE IS ACCORDING TO THE STANDARD WHICH IS DESCRIBED ON SPECIFICATION SHEET .

△						DR	Feng 2016.02.15	DWG NO.	
△						CH		E-GS100-D100LC-R-N GS200-S	
No.	DESCRIPTION	REV. BY	CH	APP	DATE	APP		REV.	SCORE
REVISIONS						DATE		A	

GLOBE-VALVE DIRECT ACTION



DIMENSIONS

UNIT: mm

VALVE SIZE	ANSI 150# RF ANSI 300# PN25 PN40 RF RJ FM BW		ANSI 600# PN63 PN100 RF RJ FM BW			STANDARD BONNET		FIN EXTENSION BONNET		ACTUATOR									
	L	H2	L	L	H2	L	L	H2	h1	H1	h1	H1	SIZE		WITH MANUAL HANDLE				CODE NO.
													A	B	L1	L2	L3	ØW	
05 5"	403	142	425	441	142	460	463	170	285	970	385	1070	450	480	300	230-180	32	320	D14LLC
06 6"	451	145	473	489	165	508	511	180	290	975	390	1075							
08 8"	543	195	568	584	195	610	613	215	355	1060	455	1160							

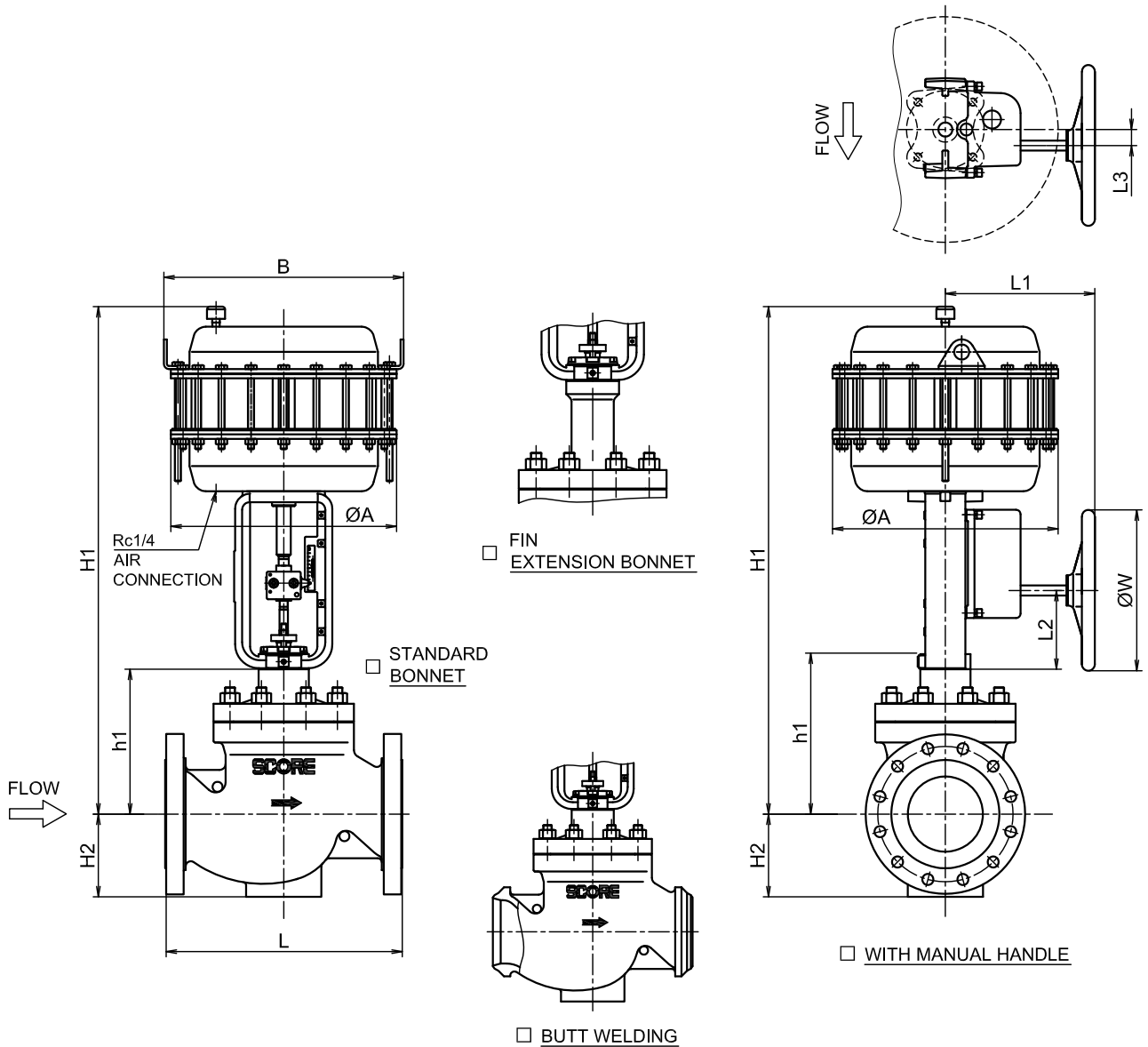
* FACE TO FACE : L (ISA-75.03-1992)

* FLANGE IS ACCORDING TO THE STANDARD WHICH IS DESCRIBED ON SPECIFICATION SHEET .

DR	Feng 2016.02.15	DWG NO.	
CH		E-GS100-D14LLC-D _S ^N	
No.	DESCRIPTION	REV. BY	CH
		APP	DATE
REVISIONS			DATE
		APP	DATE
		REV.	A



GLOBE-VALVE REVERSE ACTION



DIMENSIONS

UNIT: mm

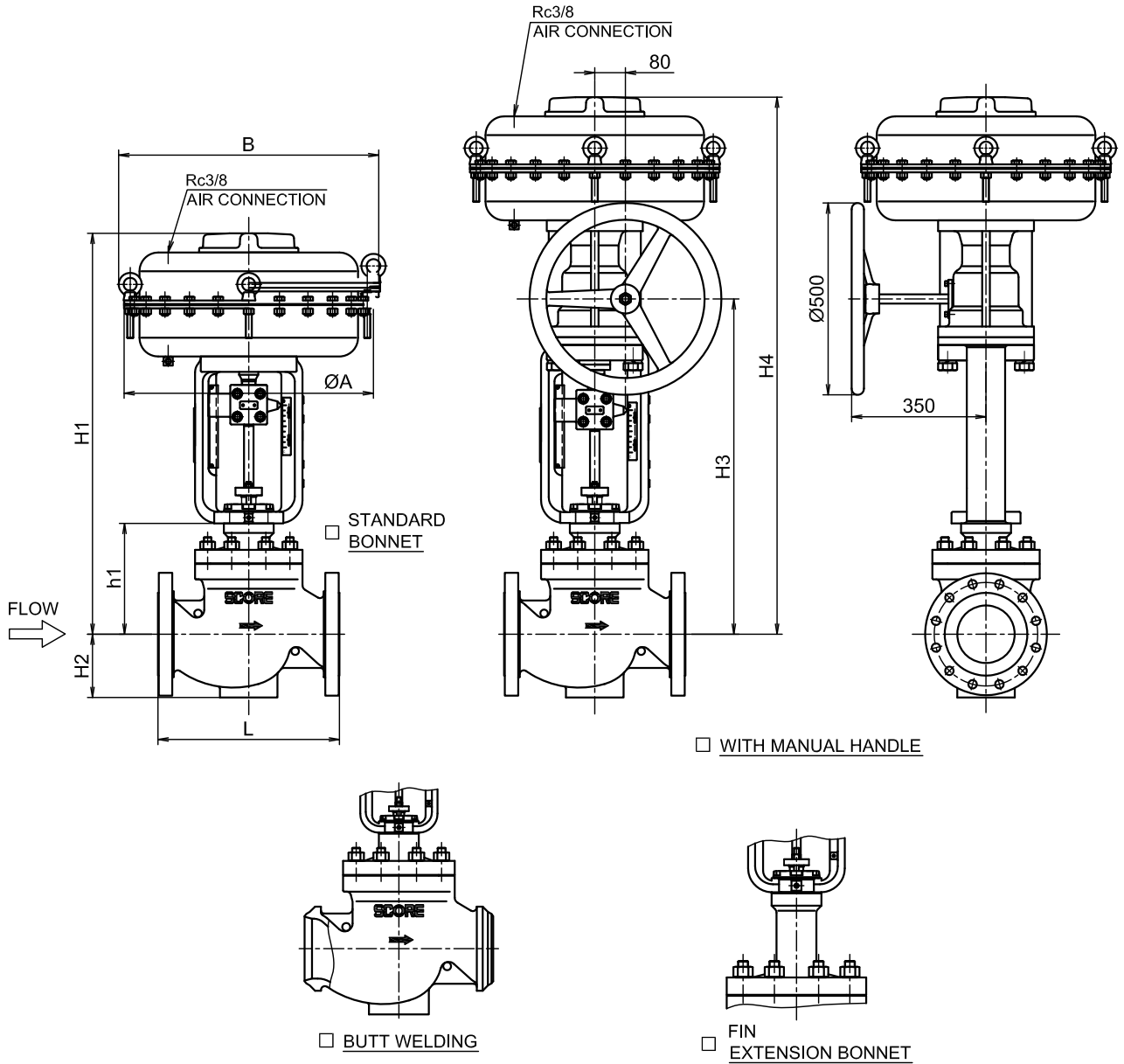
VALVE SIZE	<input type="checkbox"/> ANSI 150# RF <input type="checkbox"/> PN16 RF		<input type="checkbox"/> ANSI 300# <input type="checkbox"/> PN25 <input type="checkbox"/> PN40			<input type="checkbox"/> ANSI 600# <input type="checkbox"/> PN63 <input type="checkbox"/> PN100			<input type="checkbox"/> STANDARD BONNET		<input type="checkbox"/> FIN EXTENSION BONNET		ACTUATOR						
	L	H2	L	L	H2	L	L	H2	h1	H1	h1	H1	SIZE		WITH MANUAL HANDLE				CODE NO.
													A	B	L1	L2	L3	ØW	
05 <input type="checkbox"/> 5"	403	142	425	441	142	460	463	170	285	1010	385	1110	450	480	300	160-210	32	320	D14LLC
06 <input type="checkbox"/> 6"	451	145	473	489	165	508	511	180	290	1015	390	1115							
08 <input type="checkbox"/> 8"	543	195	568	584	195	610	613	215	355	1100	455	1200							

* FACE TO FACE : L (ISA-75.03-1992)

* FLANGE IS ACCORDING TO THE STANDARD WHICH IS DESCRIBED ON SPECIFICATION SHEET .

						DR	Feng 2016.02.15	DWG NO.	
						CH		E-GS100-D14LLC-R-S ^N	
No.	DESCRIPTION	REV. BY	CH	APP	DATE	APP		REV.	
REVISIONS							DATE	A	

GLOBE-VALVE DIRECT ACTION



DIMENSIONS

UNIT: mm

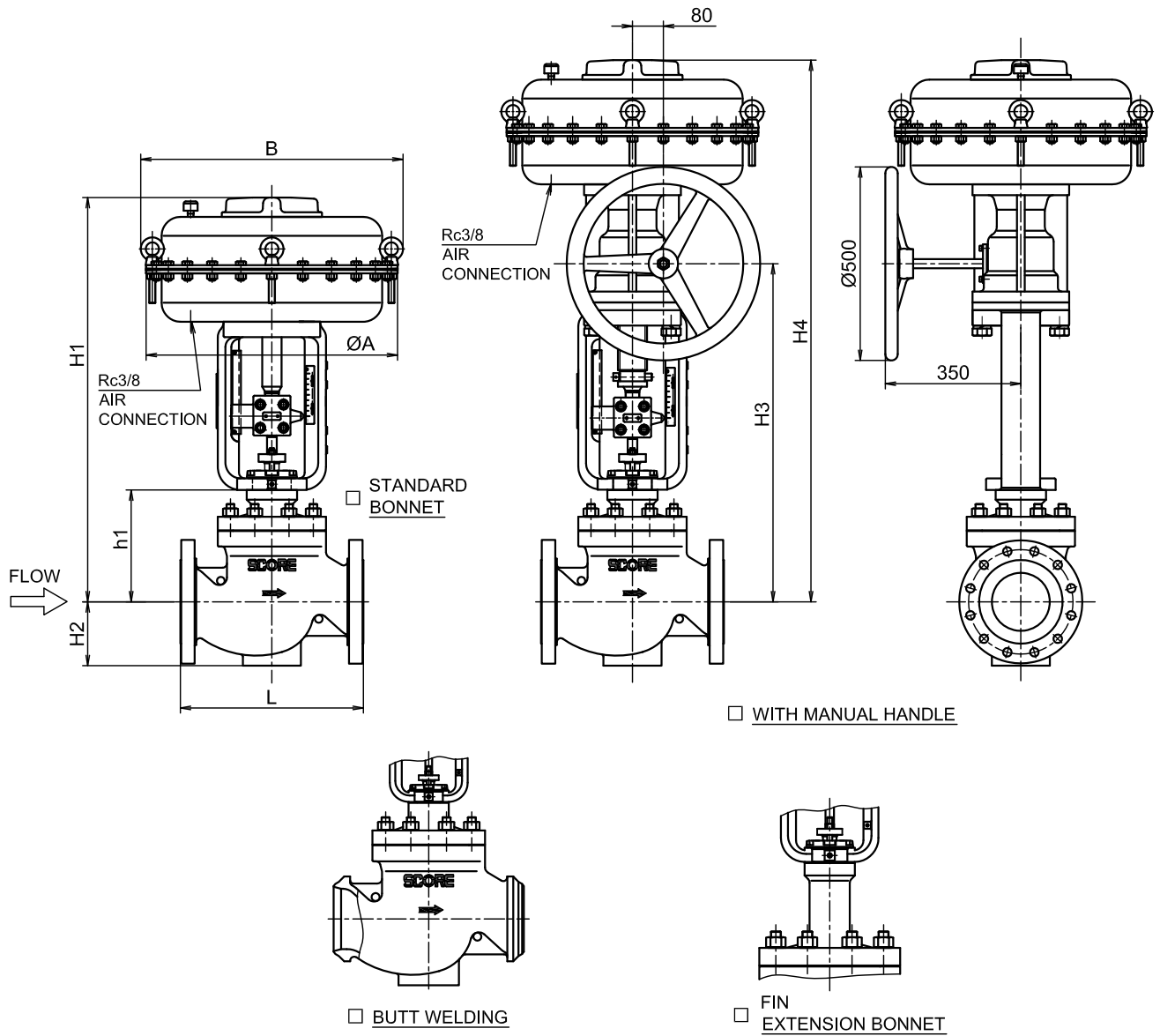
VALVE SIZE	ANSI 150# RF <input type="checkbox"/> PN16 RF		ANSI 300# <input type="checkbox"/> PN25 <input type="checkbox"/> PN40			ANSI 600# <input type="checkbox"/> PN63 <input type="checkbox"/> PN100			STANDARD BONNET		FIN EXTENSION BONNET		ACTUATOR				CODE NO.			
	L	H2	L	L	H2	L	L	H2	h1	H1	h1	H1	WITH MANUAL HANDLE							
													STD BONNET		FIN/EXT BONNET					
CODE NO.													H3	H4	H3	H4				
05	<input type="checkbox"/> 5"	403	142	425	441	142	460	463	170	285	1045	385	1145	650	680	840	1345	940	1445	D16SLB
06	<input type="checkbox"/> 6"	451	145	473	489	165	508	511	180	290	1050	390	1150			845	1350	945	1450	

* FACE TO FACE : L (ISA-75.03-1992)

* FLANGE IS ACCORDING TO THE STANDARD WHICH IS DESCRIBED ON SPECIFICATION SHEET .

						DR	Feng 2016.02.17	DWG NO.	
						CH		E-GS100-D16SLB-D-S	
No.	DESCRIPTION	REV. BY	CH	APP	DATE	APP		REV.	
REVISIONS							DATE	A	

GLOBE-VALVE REVERSE ACTION



DIMENSIONS

UNIT: mm

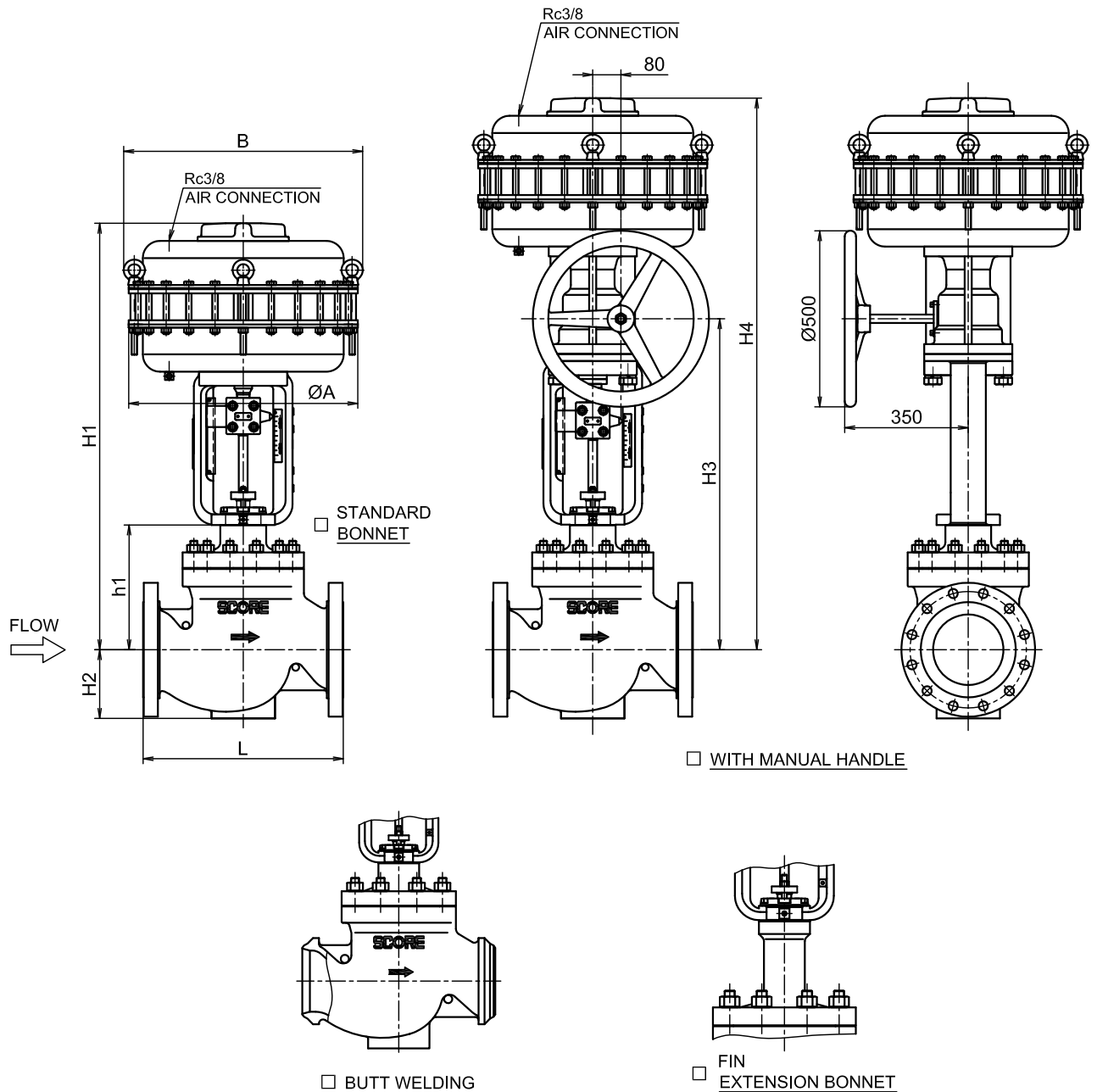
VALVE SIZE	ANSI 150# RF		ANSI 300#			ANSI 600#			STANDARD BONNET		FIN EXTENSION BONNET		ACTUATOR				CODE NO.			
	PN16 RF		RF	RJ		RF	RJ						WITH MANUAL HANDLE							
	L	H2			H2	L	L	H2	h1	H1	h1	H1	SIZE	STD BONNET		FIN/EXT BONNET				
05	5"	403	142	425	441	142	460	463	170	285	1045	385	1145	650	680	870	1400	970	1500	D16SLB
06	6"	451	145	473	489	165	508	511	180	290	1050	390	1150			875	1405	975	1505	

* FACE TO FACE : L (ISA-75.03-1992)

* FLANGE IS ACCORDING TO THE STANDARD WHICH IS DESCRIBED ON SPECIFICATION SHEET .

						DR	Feng 2016.02.17	DWG NO.	
						CH		E-GS100-D16SLB-R-S	
No.	DESCRIPTION	REV. BY	CH	APP	DATE	APP		REV.	
REVISIONS							DATE	A	

GLOBE-VALVE DIRECT ACTION



DIMENSIONS

UNIT: mm

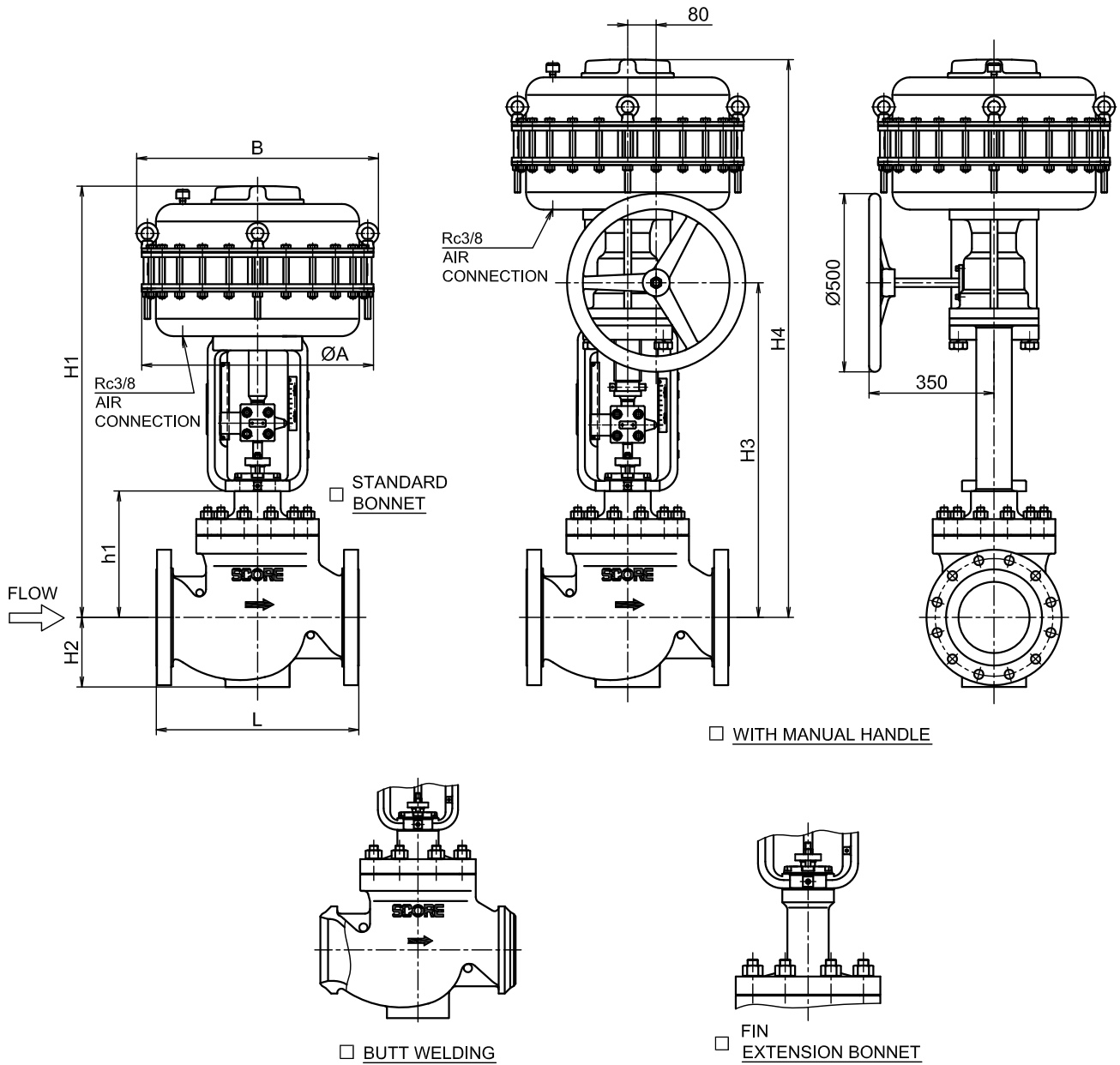
VALVE SIZE	ANSI 150# RF		ANSI 300#			ANSI 600#			STANDARD BONNET		FIN EXTENSION BONNET		ACTUATOR						CODE NO.		
	PN16 RF		RF	RJ		RF	RJ		h1	H1	h1	H1	SIZE	WITH MANUAL HANDLE							
CODE NO.	L	H2	L	L	H2	L	L	H2	h1	H1	h1	H1		A	B	STD BONNET	FIN/EXT BONNET		H3	H4	H3
08 □ 8"	543	195	568	584	195	610	613	215	355	1215	455	1315	650	680	□	910	1515	1010	1615	D16LLB	

* FACE TO FACE : L (ISA-75.03-1992)

* FLANGE IS ACCORDING TO THE STANDARD WHICH IS DESCRIBED ON SPECIFICATION SHEET .

△						DR	Feng 2016.02.17	DWG NO.	
△						CH		E-GS100-D16LLB-D ^N _S	
No.	DESCRIPTION	REV. BY	CH	APP	DATE	APP		REV.	
REVISIONS							DATE	A	

GLOBE-VALVE REVERSE ACTION



DIMENSIONS

UNIT: mm

VALVE SIZE	ANSI 150# RF		ANSI 300#			ANSI 600#			STANDARD BONNET		FIN EXTENSION BONNET		ACTUATOR									
	PN16 RF		PN25	PN40		PN63		PN100						WITH MANUAL HANDLE				CODE NO.				
	L	H2	RF	RJ	H2	RF	RJ	H2	h1	H1	h1	H1	A	B	STD BONNET	FIN/EXT BONNET	H3		H4	H3	H4	
08	<input type="checkbox"/> 8"	543	195	568	584	195	610	613	215	355	1215	455	1315	650	680	<input type="checkbox"/>	<input type="checkbox"/>	940	1570	1040	1670	D16LLB

* FACE TO FACE : L (ISA-75.03-1992)

* FLANGE IS ACCORDING TO THE STANDARD WHICH IS DESCRIBED ON SPECIFICATION SHEET .

						DR	Feng 2016.02.17	DWG NO.	
						CH		E-GS100-D16LLB-R-S	
No.	DESCRIPTION	REV. BY	CH	APP	DATE	APP		REV.	
REVISIONS							DATE	A	

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