

High Quality PFA lined Process Valves 高品質襯铁氟龙閥門



History 歷史

- 1975

Dr.Mauer Werkzeugfabrik GmbH founded in Kempen Germany. 在德國肯彭成立

- 2015

Renamed to 更名為

“GFT German Fluorolined Technik GmbH”

- 2021

Founded the joint venture between GFT with Chinese partners named “Jiangsu GFT Equipment Engineering Co., Ltd.” in Taixing Jiangsu China. GFT 與中國合作夥伴在江蘇泰興建立合資企業 “江蘇德氟設備有限公司”



Germany 德國工廠



China 中國工廠

Produce Equipments 生產設備

- CNC machine tool CNC 數控機床
- Professional plastic molding Equipment
專業塑膠模壓設備
- Fluorine-lined element sintering furnace
襯氟燒結爐
- Automatic valve test device.
自動化閥門測試裝置
- Product development test.
產品開發試驗台。
- Quality control test bench.
品質控制測試台。
- Clean workshop 潔淨車間



Certificates 證書

- TUV ISO 9001 : 2015 certification
- TUV Modul A2, CE 0035 certification
- Clean Air Act: German TA-Luft and DIN EN ISO 15848-1 certification
- The third part test report of協力廠商認證FDA 21 CFR 177.1550
- Chinese Pressure Piping manufactory License 中國壓力管道元件型式試驗報告
- ISO 9001 for Chinese factory 中國工廠
- PED Modul A2

Delivery Documents 交貨文件

- Material testing certificate 3.1 according EN 10204
- Certificate of Compliance EN 10204
- Inspection Certificate 3.1B EN 10204
- Inspection certificate of casting
(valves made by casting provide only)



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SP Series PFA Lined Heavy Duty Ball Valves SP系列鋼襯PFA重載球閥

Operating Pressure range 操作壓力範圍:

Full vacuum up to 16bar

Operating Temperature range 操作溫度範圍:

-60°C up to +200°C

Flange dimensions 法蘭尺寸:

DIN EN 1092-1, PN 16 / ASME/ANSI B 16.5 Cl. 150 / JIS 10K

Face to face dimensions 法蘭間距:

DIN EN 558-1 / ASME B 16.10-Class 150

Testing 測試:

Pressure and airtightness test according to EN 12266-1 (2012-06), leakage rate A, API598 valve inspection and test, 20KVspark test for all PFA lined parts.

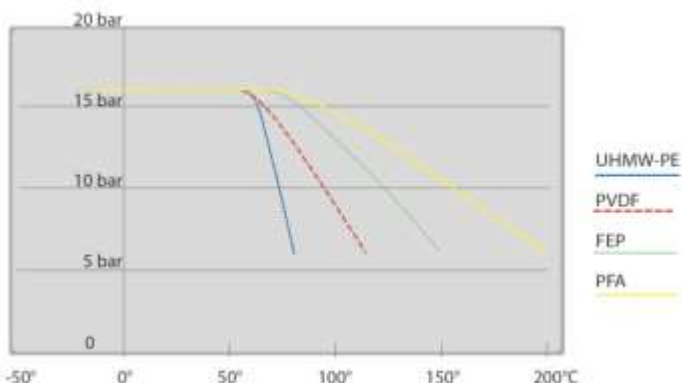
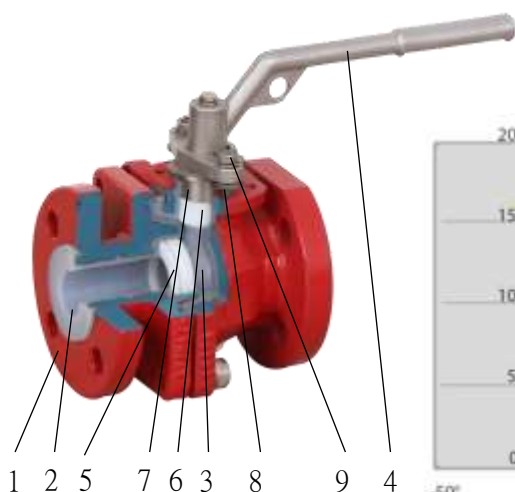
按照 EN 12266-1 (2012-06) 進行壓力和氣密性測試、洩漏率 A、API598 閥門檢查和測試，對所有 PFA 襯裡部件進行 20KV 火花測試。



Pressure-Temperature-Diagram

溫度壓力曲線圖:

Full Bore Shut-Off and V port Control Ball Valve
全通徑開關閥和V球調節閥



Parts List 部件材料表:

Pos.	Item 部件名	Material 材料
1	Body 閥體	A216 WCB, CF-8, CF8-M
2	Lining Body/Ball 襯裡 閥體/閥球	PFA, PFA/AS
3	Ball/Stem 閥球/閥桿 一體	CD4MCUN
4	Lever 手柄	SS304 / CF-8
5	Seat Ring 閥座環	PTFE/TFM, PTFE/AS
6	Bellow Packing 波紋管填料	PTFE/TFM, PTFE/AS
7	Packing Gland 填料壓蓋	SS304 / CF-8
8	Gland Compression spring 壓縮彈簧	SS304 / CF-8
9	Bolts & Nuts 螺栓螺母	Stainless Steel



SP Series PFA Lined Heavy Duty Ball Valves SP系列鋼襯PFA重載球閥

- Hysteresis free one piece ball-stem design, ideal for actuation. 无滞后一体式閥球閥杆设计，非常适合驱动。
- Blow out safe shaft design. 防止吹出安全軸設計

Kvs value (Full bore) & Stem torque:

Spec.		Kvs Full port	Torque Nm
DIN PN16	ANSI 150lb		
15	1/2"	17.5	8
20		30	8
25	1"	75	12
32		140	18
40	1.5"	200	20
50	2"	310	25
65		615	50
80	3"	800	60
100	4"	1250	80
125		on request	210
150	6"	2800	250
200	8"	5800	600

- When selecting an actuator, the torque data needs to be considered with an additional safety factor of 1.3-1.4 選擇執行器時，需要考慮扭矩資料以及1.3-1.4的額外安全係數



Full bore 全通徑

V bore V球調節

Available (V bore) kvs-values (m³/h)

DN		K (CV)													
DIN PN16	ANSI 150lb	0.1	0.2	0.5	0.8	1.6	4	8	14	20					
15,20,25	1/2",3/4",1"														
40	2"								16	25	40				
50	3"								16	25	40	60			
80	4"										40	80	120	160	
100	6"											60	100	160	250
150	8"													160	250 400

Formula for conversion:

$$Cv \text{ (USgpm)} = kvs \text{ (m}^3/\text{h)} \cdot 1.165$$

$$Cv \text{ (Impgpm)} = kvs \text{ (m}^3/\text{h)} \cdot 0.971$$

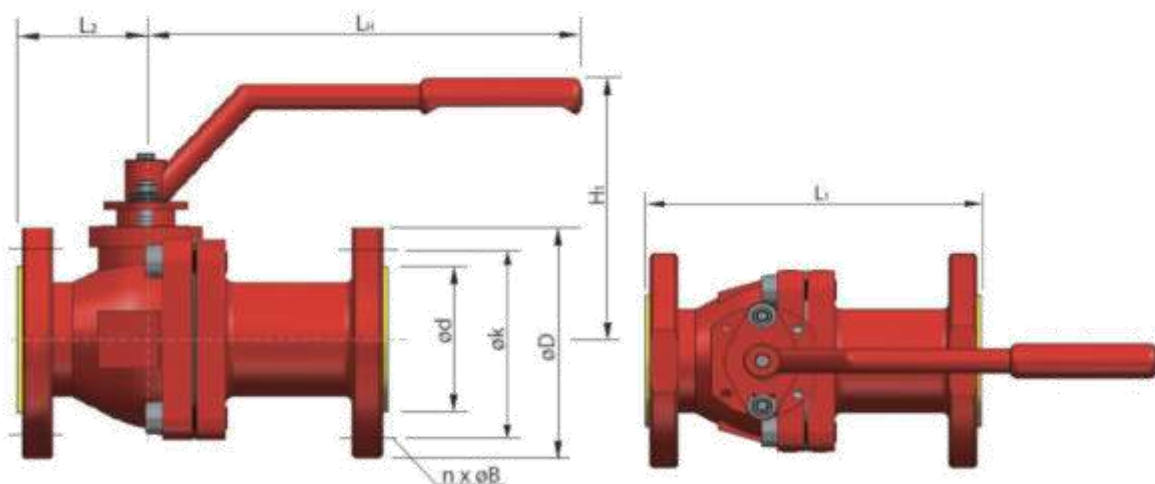
z-values for 75 % duty (kv/kvs = 0.75)

DN		z-value													
DIN PN16	ANSI 150lb	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.4					
15,20,25	1/2",3/4",1"														
40	2"								0.5	0.5	0.4				
50	3"								0.5	0.5	0.4	0.3			
80	4"										0.4	0.3	0.3	0.2	
100	6"											0.3	0.3	0.2	0.2
150	8"													0.2	0.1



SP Series PFA Lined Heavy Duty Ball Valves

SP系列鋼襯PFA重載球閥



DN	øD	øk	ød	n×øB	H ₁	L ₁	L ₂	L _H	Weight
mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
DIN PN16									
15	95	65	48	4×ø14	126	130	58.5	180	5
20	105	75	58	4×ø14	126	150	58.5	180	6
25	115	85	68	4×ø14	126	160	52	180	6.5
32	140	100	78	4×ø18	126	180	60	180	9
40	150	110	88	4×ø18	200	200	67.5	270	13
50	165	125	102	4×ø18	200	230	80	270	16
65	185	145	122	4×ø18	200	290	77.5	380	28
80	200	160	138	4×ø18	260	310	85.5	380	36
100	220	180	158	4×ø18	270	350	94	380	56
125	250	210	188	4×ø18	Worm gear	400	124	Worm gear	85
150	285	240	212	4×ø22		480	124		98
200	343	295	268	4×ø22		457	200		175
ANSI 150lb									
1/2"	95	60.5	45	4×ø15.8	126	108	55	190	5
1"	105	79.4	60	4×ø15.8	126	127	55	190	6
1-1/2"	115	98.4	88	4×ø15.8	200	165	65	275	11
2"	150	120.7	100	4×ø19	200	178	80	275	13
3"	165	152.4	130	4×ø19	260	203	85	300	32
4"	200	190.5	150	4×ø19	270	229	95	300	48
6"	220	241.3	210	4×ø22.5	Worm gear	267	125	Worm gear	86
8"	343	298.5	250	4×ø22.5		457	200		165

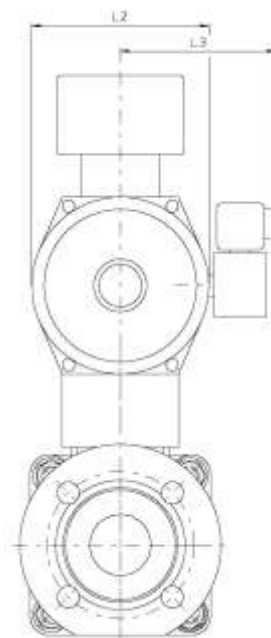
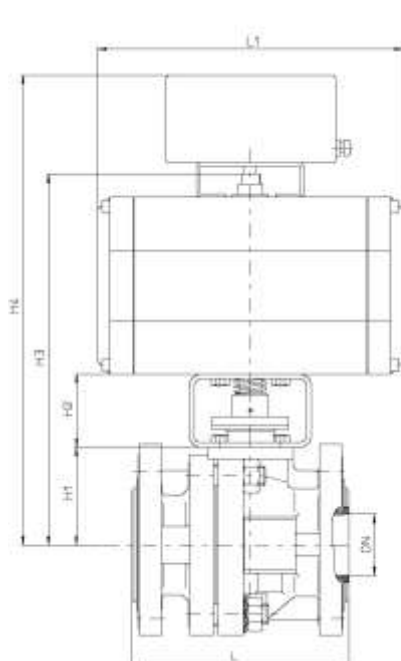


SP Series PFA Lined Heavy Duty Ball Valves SP系列鋼襯PFA重載球閥



Actuator connection:

DIN 3337-ISO 52



Spec.	H1	H2	H3	H4	L	L1	L2	L3
DIN PN16	mm	mm	mm	mm	mm	mm	mm	mm
Pneumatic actuated 氣動執行器								
25	52	60	241	388	160	204	103	101
40	70	60	266.5	413.5	200	262	108.5	103
50	79	60	292	439	230	268	121.5	108
80	121	80	393	540	310	394	152	121
Electrical actuated 電動執行器								
25	52	60	-	332	160	172	258	-
40	70	60	-	350	200	172	258	-
50	79	60	-	359	230	172	258	-
80	121	80	-	421	310	172	258	-



PA Series PFA Lined Butterfly Valves PA系列鋼襯PFA蝶閥



Size range 尺寸範圍:

1 ½" to 22" (DN 40 to DN 600)

Temperature range 溫度範圍:

-20° C up to +200° C

Max operating pressure 最高工作壓力:

10 bar (DN 1 ½" to DN 18" / 6 bar (DN 20" and DN 24")

Face to face dimensions 法蘭間距:

ISO 5752, Basic Range 20 DIN EN 558-1, Basis Range 20

Body lining materials 閥體襯裡材料:

PFA (DN 1 ½" to DN 8") / PTFE (DN 10" and DN 24")

Disc materials 閥板材料:

PFA lined



Headange 執行器鏈接:

EN ISO 5211

Connecting flange 連接法蘭:

DIN PN 10, DIN PN 16, ANSI Class 150, JIS 10K

Connecting stem 閥桿連接:

Double D, square diagonal, square parallel

Atex compliance 符合Atex規定:

For explosive surroundings Group II, Zones 0, 1, 2 (resp, 20, 21, 22)

TA Luft compliance 符合TA luft規定:

Compliant acc to Pos 5.2.6.4

Min. thickness lining 最小厚度衬里:

3.0 -3.5mm,

Vacuum proof Operating range 耐真空工作范围:

-20C to 200C 0,1mbar to 10bar

Actuation 執行器:

Worm gear with handwheel 帶手輪渦輪蝸桿執行器, pneumatic 氣動 / electric actuator 電動執行器

Control characteristic 控制特性

Almost equal percentage 幾乎等百分比

FDA compliant 符合FDA規定:

for food, pharma or similar industries 適用於食品、製藥或類似行業





PA Series PFA Lined Butterfly Valves PA系列鋼襯PFA蝶閥

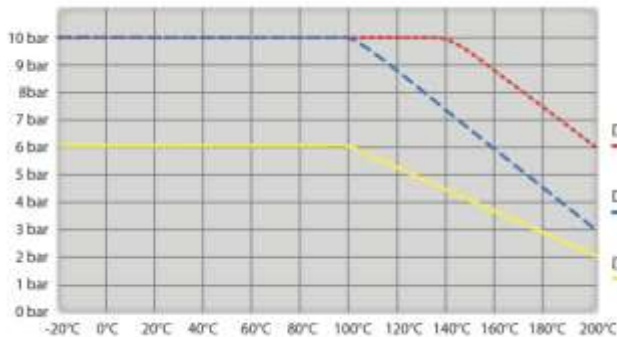
Part list 零部件表

Pos.	Item 零件	Materials 材料
1	Body 閥體	WCB, CF8/ PFA, PTFE(>DN250)
2	Disc 閥板	CD4MCuN/PFA
3	Back-up	Silicon Rubber
4	Packing 填料	Silicon Rubber

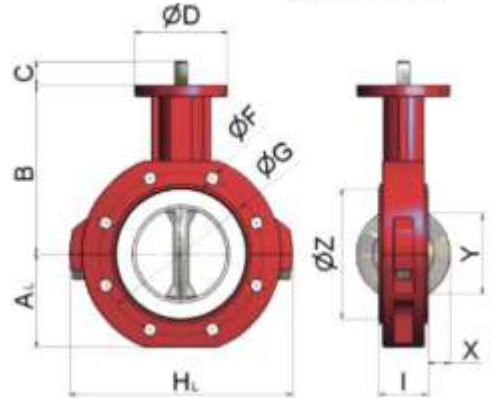
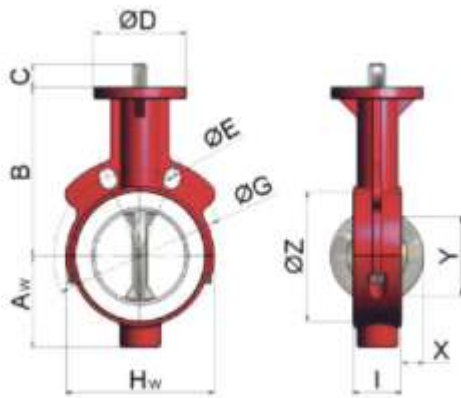
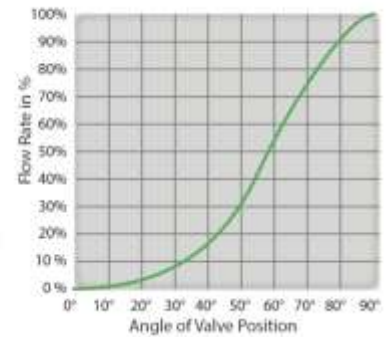


Pressure Temperature Diagram

溫度壓力曲線



Control Curve 控制曲線

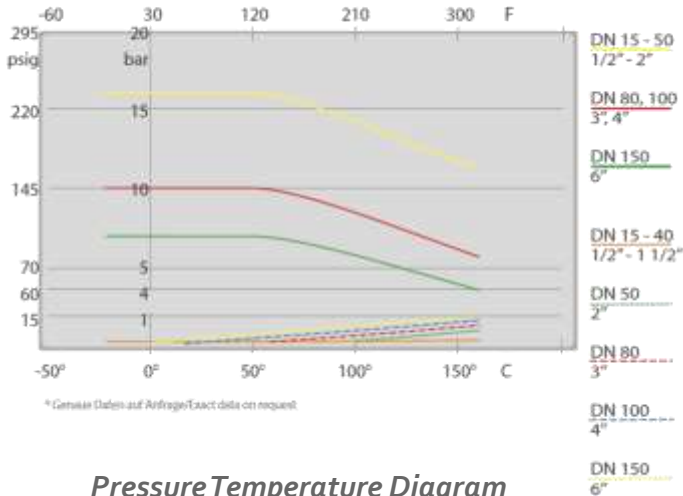


Inch mm	A _w	A _L	B	C	C ₁	øD DIN 9136	øE DIN 9136	øF DIN 9136	øG DIN 9136	øH DIN 9136	H _w	H _L	I	X	Y	Z	ISO	kg _w	kg _L	Kv	DN DIN 9136	
1.5"	53*	53	94	19	17	65	4x18	4xM16	110	2x16	4x1/2"	98.4	142*	142	33	7	34	F05	1.5	2.5	136	40
2"	56	58	130	19	17	90	2x18	4xM16	125	2x19	4x5/8"	120.6	104	153	43	6	31	F07	3.0	5.0	193	50
2.5"	67	65	146	19	17	90	2x18	4xM16 8xM16	145	2x19	4x5/8"	139.7	128	173	46	11	48	F07	4.0	7.0	266	65
3"	84	88	165	19	17	90	2x18	8xM16	160	2x19	4x5/8"	152.4	144	210	46	17	63	F07	5.0	8.1	392	80
4"	100	102	185	25	17	90	2x18	8xM16	180	2x19	8x5/8"	190.5	164	245	52	27	90	F07	6.3	10.8	585	100
5"	110	116	202	25	17	90	2x18	8xM16	210	2x22	8x3/4"	215.9	194	272	56	38	118	F07	7.7	14.5	1'015	125
6"	125	127	217	30	22	90	2x22	8xM20	240	2x22	8x3/4"	241.3	220	295	56	47	137	F07	10.0	15.8	1'495	150
8"	158	160	245	26	125	2x22	8xM20	295	2x22	8x3/4"	298.4	274	364	60	71	189	251	F10	16.5	24.6	3'050	200
10"	190	193	270	30	125	2x22	12xM20	250	2x26	12x7/8"	361.9	330	431	68	92	239	301	F10	24.5	33.3	4'510	250
12"	225	227	308	30	125	2x22	12xM20	400	2x26	12x7/8"	431.8	380	511	78	112	290	349	F10	37.0	57	6'500	300
14"	256*	256	330	37	150	16x22	16xM20	460	12x29	12x1"	476.2	571*	571	92	125	328	414	F12	87*	87	8'760	350
16"	292*	292	365	37	150	16x26	16xM24	515	16x29	16x1"	539.7	643*	643	102	146	377	460	F12	107*	107	11'350	400
18"	311*	311	400	50	175	20x26	20xM24	565	16x32	16x1-1/8"	577.8	684*	684	114	164	417	515	F14	152*	152	14'400	450
20"	340*	340	435	50	175	20x26	20xM24	620	20x32	20x1-1/8"	635.0	745*	745	127	184	477	570	F14	185*	185	18'000	500
24"	398*	398	510	64	210	20x30	20xM27	725	20x35	20x1-1/4"	749.3	863*	863	154	215	560	672	F16	254*	254	29'200	600

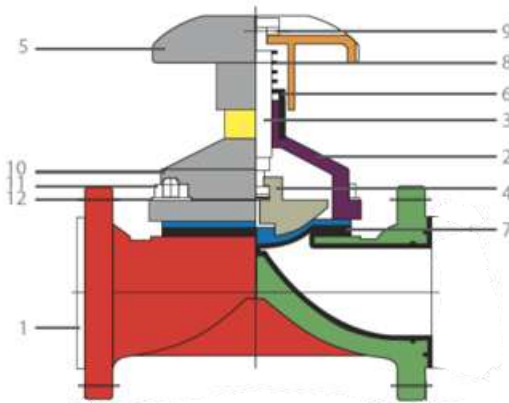


MV Series PFA Lined Diaphragm Valves

MV系列鋼襯PFA隔膜閥



Pressure Temperature Diagram
溫度壓力曲線

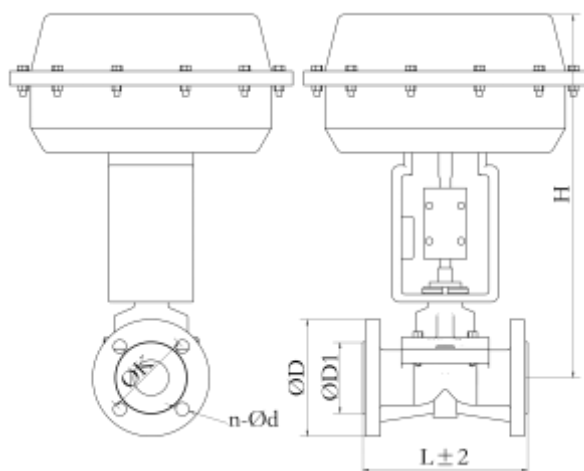


Pos.	Item 零件	Material 材料
1	Lined Body 襯裡閥體	CF8, WCB / PFA Lined
2	Bonnet 上蓋	CF8 stainless steel
3	Spindle 閥芯	SS304 / PFA lined
4	Compressor 膜片壓蓋	CF8 stainless steel
5	Handwheel 手輪	ABS, Metallic
6	Opening Indicator Sleeve 開啟指示套	HDPE
7	Diaphragm 膜片	PTFE backed with EPDM
8	Travel stop nut 行程止動螺母	Stainless steel
9	Locking stop nut 鎖緊止動螺母	Stainless steel
10	Stud 螺柱	Stainless steel
11	Nut 螺母	Stainless steel
12	Plain Washer 平墊片	Stainless steel



MV Series PFA Lined Diaphragm Valves MV系列鋼襯PFA隔膜閥

- Weir type, hermetically tight, optional straight through type, FDA compliant
堰式，密封性好，可選直通型，符合FDA 標準。
- 3 to 5mm thick lining for high pearmation resistance
3 至 5 毫米厚的襯裡，具有高抗磨損性能
- Top entry valve with very low maintenance without dismantling Complete
頂部入口閥門維護成本極低，無需拆卸
- 100% leak tight Class VI Leakage Rate 100% 密封，VI 級洩漏率
- with hand wheel as a standards it can also be equipped with pneumatic or electric actuator, positioner, limit switch a.s.o.
以手輪為標準，還可配備氣動或電動執行器、定位器、限位元開關等。



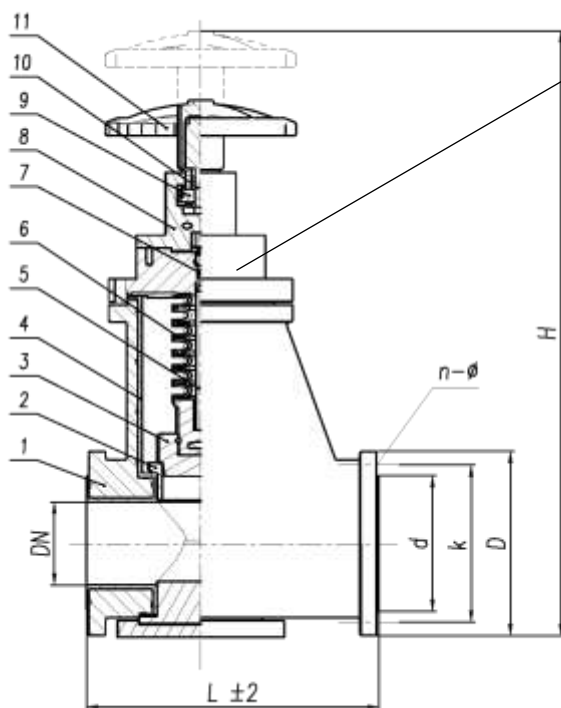
Spec. 規格	ØD mm	ØD1 mm	ØK mm		n-Ød mm		L mm	H mm
			DIN	ANSI	DIN	ANSI		
DN15-1/2"	95	48	65	60.4	4-Ø14	4-Ø15.8	130	on request
DN25-1"	115	68	85	79.4	4-Ø14	4-Ø15.8	160	402
DN40-1-1/2"	150	88	110	98.4	4-Ø18	4-Ø19	200	435
DN50-2"	165	102	125	120.7	4-Ø18	4-Ø19	230	440
DN80-3"	200	138	160	152.4	8-Ø18	8-Ø19	310	667
DN100-4"	220	158	180	190.5	8-Ø18	8-Ø19	350	690
DN125-5"	250	188	210	216	8-Ø18	8-Ø19	400	on request
DN150-6"	285	212	240	241.3	8-Ø22	8-Ø22.5	480	on request

*Other specification or standard please contact us on request. 其他規格或標準請諮詢我們



HV Series PFA Lined Shutoff Globe Valves

HV系列鋼襯PFA截止閥



The valves are equipped with an independently acting and adjustable safety stuffing box. It can be adjusted in the case of damage to the bellows and provides an effective countermeasure to leakage for a certain period .

A connection for a leak detector can be additionally provided.

Delivery of version without safety stuffing box on request.

閥門配備獨立作用且可調節的安全填料函。當波紋管損壞時，可進行調節，並在一定時間內有效防止洩漏。可額外提供洩漏檢測器介面。可根據要求提供不帶安全填料函的版本。

Pos.	Item 零件	Material材料
1	Valve Body 閥體	ASTM A216 WCB(1.0619)
2	Seat 閥座	Modified PTFE
3	Plug 柱塞	Modified PTFE
4	Lining 襯裡	PFA
5	Stem Guide 閥杆導向裝置	1.4401 (stainless steel)
6	Bellows 波紋管	PFA (heavey duty Max. 16bar)
7	Cylinder roller圓柱滾子	Roller bearing steel 軸承鋼
8	Bonnet 上蓋	ASTM A216 WCB(1.0619)
9	Gland with thrust washer packing 帶推力墊圈填料的壓蓋	SS304 / PTFE
10	Stem 閥桿	1.4401 (stainless steel)
11	Hand wheel 手輪	Carbon steel / Stainless Steel



HV Series PFA Lined Shutoff Globe Valves

HV系列鋼襯PFA截止閥

DN		H	L	D	K	d	n-ø
		mm	mm	ø mm	ø mm	ø mm	mm
DIN / ISO mm	15	273	130	95	65	48	4-ø14
	20	273	130	105	75	58	4-ø14
	25	360	160	115	85	68	4-ø14
	40	408	200	150	110	88	4-ø18
	50	416	230	165	125	102	4-ø18
	65	416	290	185	145	122	8-ø18
	80	635	310	200	160	138	8-ø18
	100	645	350	220	180	158	8-ø18
ANSI inch	1/2"	273	130	89	60	45	4-ø15
	3/4"	273	130	100	70	53	4-ø15
	1	360	160	108	79.5	63	4-ø15
	1-1/2"	408	200	127	98.5	80	4-ø15
	2	416	230	152	121	102	4-ø19
	2-1/2"	416	290	178	140	118	4-ø19
	3	635	310	191	152	130	4-ø19
	4	645	350	229	191	158	4-ø19

- **Pressure range 壓力範圍:**
Valve body and bonnet PN16, operating pressure with heavy duty bellows up to 16 bar.
閥體和上蓋PN16，帶重載波紋管的操作壓力最高16bar。
- **Temperature range 溫度範圍:** -60°C up to +180°C



- **Standard PFA-bellows** up to 16 bar operating pressure Protects the valve stem from corrosion and hermetically seals the product chamber from the atmosphere
標準 PFA 波紋管工作壓力高達 16 bar，保護閥杆免受腐蝕，並將產品室與大氣密封
- For highly diffusing media, high temperatures and pressures up to 16 bar the large spacing of the crinkles of the bellows facilitates purge and sterilizing. Therefore, this execution is suitable for pure media (Biotechnology) also available in Hastelloy.對於高擴散介質，高溫高壓可達16巴，波紋管的較大間距有利於吹掃和滅菌。因此，該型號適用於純介質（生物技術），也提供哈氏合金材質。



GSO Series PFA Lined Basket Strainer

GSO 系列鋼襯PFA籃式過濾器

Temperature range 溫度範圍:

-10° C up to 150°C

lower temperatures on request

低溫請諮詢

Testing測試:

Housing pressure 過濾器身 15 bar

Spark test 電火花 20 KV

Flange dimensions 法蘭尺寸:

ASME/ANSI B 16.5 Cl. 150

Length dimensions 法蘭間距:

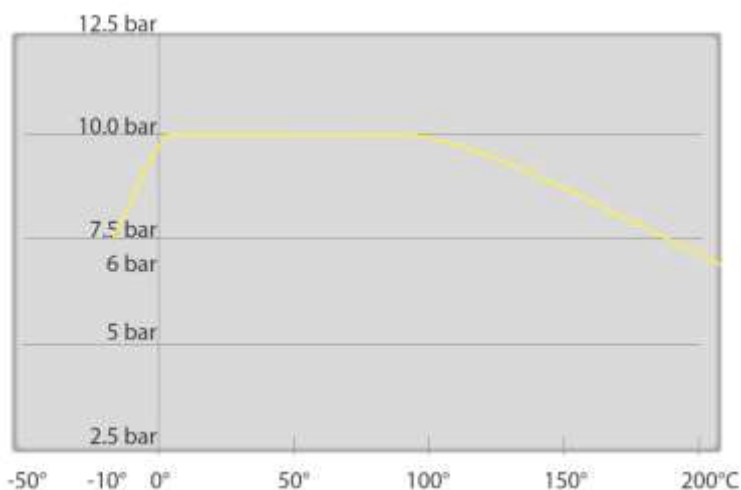
DIN EN 558 -1

Flange Drilling 法蘭鑽孔:

DIN 2632/33, ANSI #150,

BS 10 Table D, E, F JIS 10K

- 3 to 5mm thick PFA lining for high permeation resistance 3 至 5 毫米厚的 PFA 衬里，具有高抗渗透性
- PTFE Filter basket with Filter web Suitable for different gas or liquid filtration requirements. PTFE 滤篮带滤网适用于不同的气体或液体过滤要求
- Vacuum proof mechanically clamped 真空防护机械夹紧
- Anti-adhesive surface 防粘连表面
- FDA approval materials contact with media FDA批准材料与媒体接触
- Easy to clean up strainer basket & replace the filter web 易于清理過濾籃和更換濾網



Pressure Temperature Diagram
溫度壓力曲線

Filter web 濾佈



ETFE
Mesh < 150
Germany



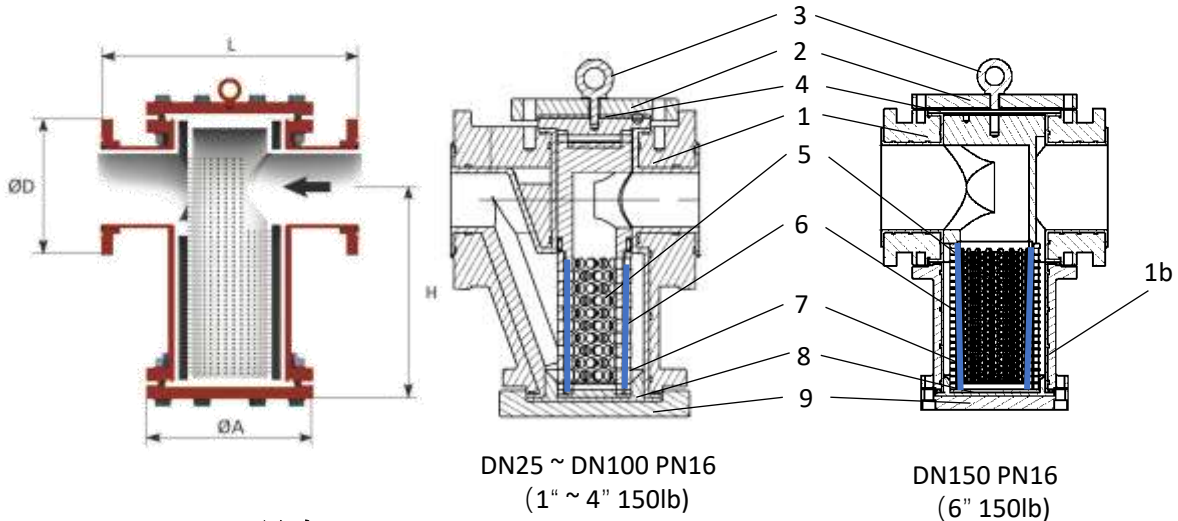
PVDF
Mesh < 100
China



PTFE
Mesh > 100
China



GSO Series PFA Lined Basket Strainer GSO 系列鋼襯PFA籃式過濾器



Dimension 尺寸:

Size	øD		H	L	øA	Weight重量
	DIN	ANSI				(kg)
DN 25 - 1"	115	107,9	130	160	61	7,0
DN 40 - 1 1/2"	150	127,0	225	200	73	15,0
DN 50 - 2"	165	152,4	237	230	90	18,0
DN 65 - 2 1/2"	185	177,8	252	290	115	26,0
DN 80 - 3"	200	190,5	255	310	115	28,0
DN 100 - 4"	220	228,6	340	350	136	80,0
DN 150 - 6"	285	279,4	395	480	254	140,0

*Manufacturer standard, other lengths on request. All dimensions mm
製造商標準，其他法蘭間距尺寸請諮詢，所有尺寸均為mm

Part list 零件表:

Pos.	Item 零件	Materials 材料
1	GSO body 過濾器身	WCB, CF8 /PFA Lined
1b	Bottom body (DN150 / 6" only) 下部器身	CS, SS304 /PFA Lined
2	Top cover 上蓋	CS, Stainless Steel
3	Lift lug 吊環	A2-70,CF8
4	Top gasket 上墊片	PTFE
5	Strainer basket 過濾籃	PTFE
6	Filter web 濾佈	PVDF / ETFE / PTFE
7	Filter web envelop 濾佈封套	PTFE
8	Bottom gasket 下墊片	PTFE
9	Bottom cover (drain hole optional) 底蓋	CS, Stainless Steel / PFA lined

*Filter web will be assembly between strainer basket and filter web envelop
濾佈安裝在過濾籃及濾佈封套之間。

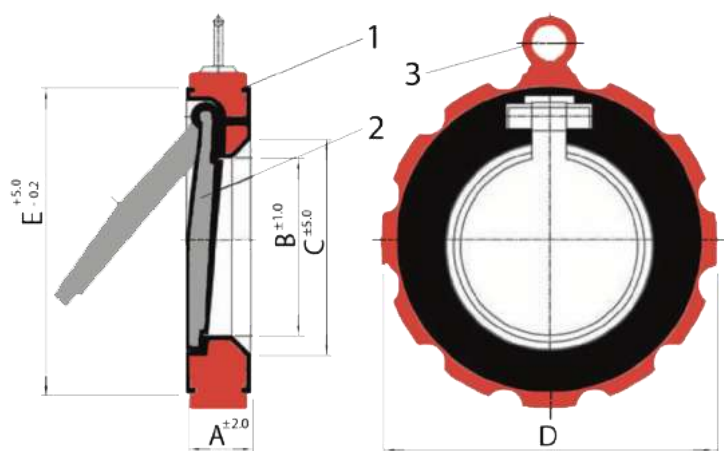


CVS Series PFA Lined Swing Check Valves CVS 系列鋼襯PFA旋啟式止回閥



Leakage Rate 洩漏率:

ΔP (psi)	ΔP (bar)	Leakage Rate (cm ³ /min)
0~40	0~2.76	5~10
41~74	2.77~5.1	3~5
above 74	above 5.1	0



Flange dimensions 法蘭尺寸:

ANSI B 16.5 Cl. 150

Face to face Length 法蘭間距:

DIN EN 558-1 Row 20,

Design standard 設計標準:

DIN EN 593

Temperature range 溫度範圍:

-40°C up to +150°C

Testing Standard 測試標準:

DIN EN 12266-1& 2

Hydraulic Test 液壓測試:

Body 15bar

Back Seat 2bar Leakage Rate D

Spark Test 電火花測試

15kV DC

Sandwich type 對夾式 between
ANSI 150 lb flanged

Part list 零件表:

Pos.	Item 零件	Materials 材料
1	Lined Body 襯裡閥體	CS, SS304 - PFA Lined
2	Disc 閥板	CS, SS304 - PFA Lined
3	Eye Bolt 吊耳螺栓	Stainless Steel



Spec. 規格	A	B	C	D	E	Inner Pipe Dia.		Max.
	mm	mm	mm	mm	mm	Min.	Max.	Opening
DN40-1-1/2"	33	20	35	95	70	35	46	52°
DN50-2"	43	30	52	111	90	46	56	52°
DN80-3"	46	42	64	142	124	73	82	52°
DN100-4"	52	65	80	180	152	95	100	60°
DN150-6"	56	111	128	233	207	145	150	60°
DN200-8"	60	133	175	295	260	192	195	60°
DN250-10"	68	184	224	348	317	242	260	52°
DN300-12"	78	232	272	398	367	292	310	52°
DN350-14"	92	252	297	426	397	315	330	48°
DN400-16"	102	327	370	510	470	380	390	45°



CVB Series PFA Lined Ball Check Valves CVB 系列鋼襯PFA球形止回閥

CVB without Sight Glass 不帶視鏡

Flange dimensions 法蘭尺寸:

DIN EN 1092-1, PN 16

ASME/ANSI B 16.5 Cl. 150

Face to face dimensions 法蘭間距:

DIN EN 558-1

ASME B 16.10-Class 150

Drilling 鑽孔:

DIN, ANSI, JIS

Temperature range 溫度範圍:

-10°C up to 200°C

Test Standard 測試標準:

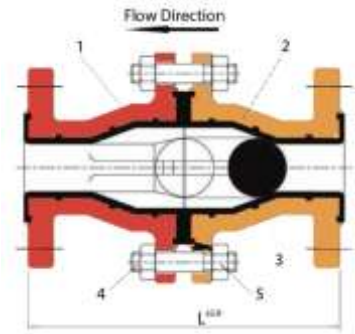
DIN EN 12266-1

Hydraulic Test 液壓試驗:

Body 16bar

Back Seat 2 bar leakage rate D,
other leakage rates on request

Spark Test 電火花測試: 20kV



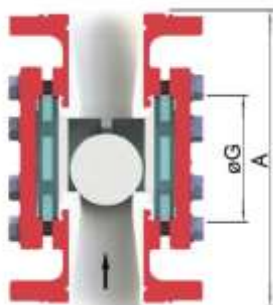
Spec. 規格	L (mm)		Weight (kg)	
	DIN	ANSI	DIN	ANSI
DN25-1"	160	127	5.6	4.9
DN40-1-1/2"	200	165	9.7	8.9
DN50-2"	230	178	13	11
DN80-3"	310	203	25	22
DN100-4"	350	229	40	35
DN150-6"	480	267	47	40
DN200-8"	On request 請諮詢			

Part List 零件表



Pos.	Item 零件	Material 材料
1/2	Body 閥體	ASTM A216 WCB(1.0619), CF8-M(1.4408)
	Lining 襯裡	PFA
3	Ball 球	PTFE massive or hollow 實心或空心
4	Screws 螺栓	A2/A4-70
5	Nuts 螺母	A2/A4-70

SGCVB With Sight Glass 帶視鏡



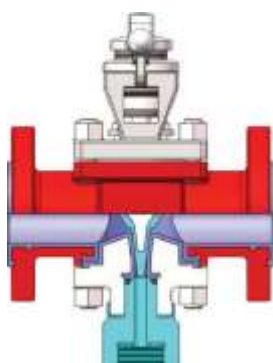
Spec. 規格	A (mm)	øG	Screws	Weight (kg)
DN25-1"	160	48	4xM12	6
DN40-1-1/2"	200	65	4xM16	10.5
DN50-2"	230	80	4xM16	14
DN80-3"	310	100	8xM16	27
DN100-4"	350	125	8xM16	48
DN150-6"	480	142	8xM20	75



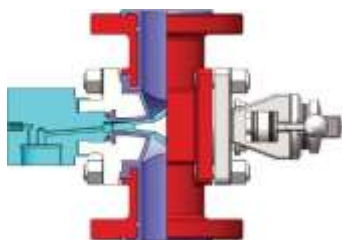
PRV Series PFA Lined Inline Sampling Valves PRV系列鋼襯PFA在線取樣閥



Sampling Safety Box
取樣安全箱



horizontal installation
on the piping
水平安裝在管道上



Vertical installation
on the piping
垂直安裝在管道上

- Sample fluid flows through the annular cavity gap between the stem and body to the sampling bottle 採樣流體流經閥杆與閥體之間的環形腔隙進入採樣瓶。
- Stem with heavy duty bellows seal 閥杆採用重型波紋管密封
- The air in the test bottle is exhausted through the vent hole on the adapter 測試瓶內的空氣通過適配器上的排氣孔排出
- Adapter seals are FEP covered O-rings 適配器密封件採用FEP塗層的O形圈
- When the sample bottle has finished sampling, release the handle and the valve will return to 100% non-dead district status 採樣瓶採樣完成後，鬆開手柄，閥門將恢復到100%無死區狀態
- Spring self-returning sealing feature, the valve stem lifts up after operation, which is more secure 彈簧自復位密封功能，操作後閥杆可向上抬起，更加安全
- Horizontal or vertical installation via different sampling bottle adapters 通過不同的採樣瓶適配器，可實現水準或垂直安裝
- Stainless Steel safety box optional to protect leakage from sampling bottle. 可選配不銹鋼安全箱，防止採樣瓶洩漏。
- A padlock on the safety box can be added to minimize the possibility of accidental operation 安全箱上可加裝掛鎖，最大程度降低意外操作的可能性
- Different adapter For horizontal or vertical installation on the piping. 不同的轉接頭用於水平或垂直安裝在管道上。

DN mm	NPS inch	L mm	H mm	H1 mm	Weight kg
25	1 "	160	160	74	10
40	1-1/2"	200	200	100	15
50	2	230	200	100	18
80	3	310	285	129	20

Other size on request 其他尺寸請諮詢

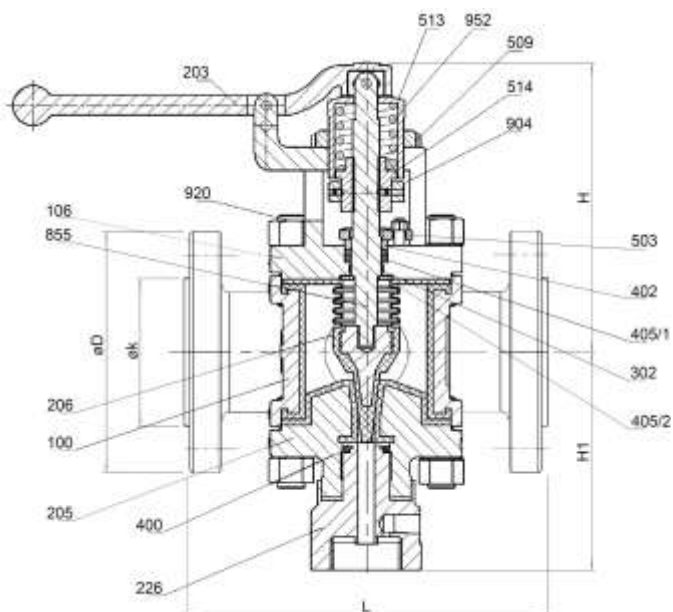


PRV Series PFA Lined Inline Sampling Valves

PRV系列鋼襯PFA在線取樣閥



Spring Handwheel
Opening
彈簧手輪開啟



Flange Connection 法蘭連接

DIN EN 1092-1, PN 16

ASME/ANSI B 16.5 Cl. 150

Length of valve 法蘭間距

DIN EN 558-1 2.1 ,

ISO 5752 1.1

Pressure Range 壓力範圍

1mbar vacuum to 16bar

Leakage class 洩漏等級

DIN EN 12266-1, A class

Temperature Range 溫度範圍

-40°C (-40°F) ~ 200°C

(+392°F),

Material of body 閥體材料

316L, WCB/PFA, CF8

Testing 測試

Pressure test 壓力測試 24bar

Spark test 電火花測試 20kV

Pos.	Name名稱	Materials材料
100	Body 閥體	316L, WCB/PFA, CF8/PFA
106	Cover 閥蓋	Stainless Steel
203	Handle 手柄	Stainless Steel
205	Seat 閥座	WCB/PFA, CF8/PFA
206	Bellow 波紋管	Modify PTFE
226	Adapte 轉接頭	Modify PTFE
302	Guide ring 導環	PTFE
400	O ring O圈	FKM
402	Packing ring 填料環	Stainless Steel
405	½ push ring 推環	Stainless Steel
503	Packing 填料	HDPE
509	Nut of cover 上蓋螺母	Stainless Steel
513	Spring cover 彈簧蓋	Stainless Steel
514	Spring seat 彈簧座	Stainless Steel
904	Position bolt 限位螺絲	Stainless Steel
920	Nut 螺母	Stainless Steel
952	Pressure Spring 壓簧	Stainless Steel



GCV Series PFA Lined Inline Global Control Valves

GCV系列鋼襯PFA單座調節閥

General Data 基本數據

Nominal bore DN/ NPS 公稱內徑	15 to 100 / ½ “ to 4 “
Nominal pressure PN/ANSI 公稱壓力	16 / class 150 to 300 RF
Characteristics 特徵	equal percentage, linear, On / Off 等百分比、線性、開/關
Rangeability可調範圍	1: 25, V-plug 1:100 (kvs-value 0.01 m³/h to 1.2 m³/h)
Plug guide 柱塞導向	stem guided 閥桿導向, optional: seat guided 選項：閥座導向(V-plug, U-plug)
Leakage rate 洩漏率	leakage rate class VI VI級洩漏
Flanges 法蘭尺寸	according to DIN EN 1092-2, ANSI B16.5
Bellows 波紋管	our valves all are in heavy duty PFA bellows 我們的閥門都配重載波紋管
Heating jacket 加熱夾套	available on request 請諮詢加裝
Range of application 應用範圍	- 60° C to +180° C operating temperature 操作溫度 0.1 mbar vacuum to 16 bar operating pressure (requires special bellows) 操作壓力
Minimal kvs-values 最小kvs值	0.01 m³/h to 1.2 m³/h with V-plug
U-plug U型柱塞	from DN 80 to DN 100

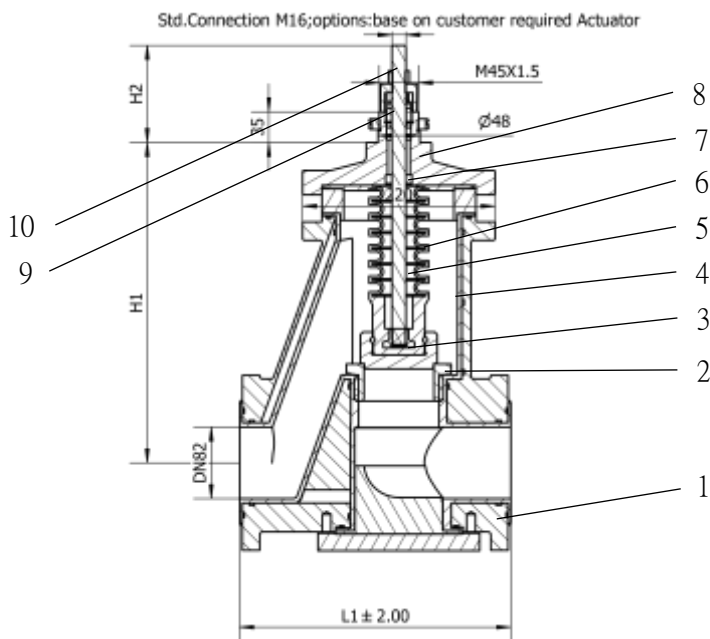
Flow rates k_{v100} (m³/h), Cv (US gpm) 流體數據

DN		Seat-Ø mm (inch)																DN 15+20 (1½" + ¾"): Seat ø 8 mm (0.31")							
DIN/ISO (mm)	ANSI (inch)	k_{v100} Cv	145 (5.7)	120 (4.7)	120 (4.7)	96 (3.8)	80 (3.1)	65 (2.6)	50 (2)	40 (1.6)	30 (1.2)	25 (1)	20 (0.8)	15 (0.6)	8 (0.3)	DN 25 (1"): Seat ø 14 mm (0.55")									
15+20	1½ + ¾	k_{v100} Cv												4 4.7	2 2.33		0.80 0.93	0.50 0.58	0.20 0.23	0.10 0.12	0.05 0.06	0.02 0.023	0.01 0.012		
25	1	k_{v100} Cv										11 12.8	7 8.2	4 4.7	2 2.33	1.20 1.40	0.80 0.93	0.50 0.58	0.20 0.23	0.10 0.12	0.05 0.06	0.02 0.023	0.01 0.012		
40	1½	k_{v100} Cv								28 32.6	15 17.5	11 12.8	7 8.2	4 4.7											
50+65	2	k_{v100} Cv							42 48.9	28 32.6	15 17.5	11 12.8	7 8.2												
80	3	k_{v100} Cv					100* 117*	65 75.7	42 48.9	28 32.6	15 17.5														
100	4	k_{v100} Cv				155* 180*	100* 117*	65 75.7	42 48.9																



GCV Series PFA Lined Inline Global Control Valves

GCV系列鋼襯PFA單座調節閥



DIN/ISO (mm)	ANSI (inch)	L (mm)	H1 (mm)	H1 (mm)	Weight重量 approx.kg
15	1/2	130	130	120	6
20	3/4	130	130	120	6
25	1	160	185	120	11
40	1-1/2	200	225	120	16
50	2	230	230	120	19
80	3	310	340	120	39
100	4	350	350	120	44

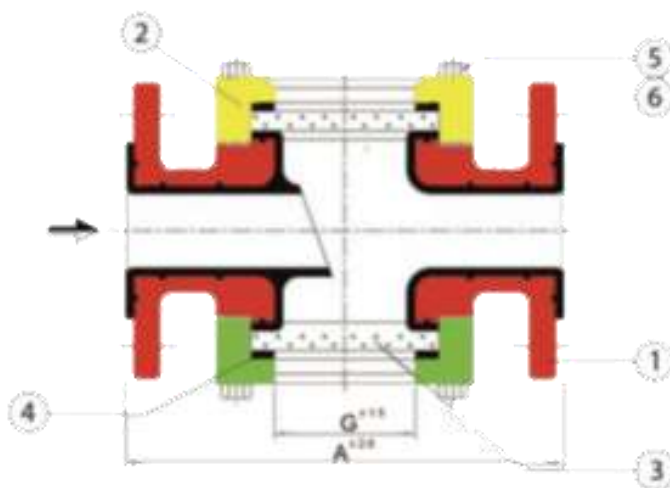
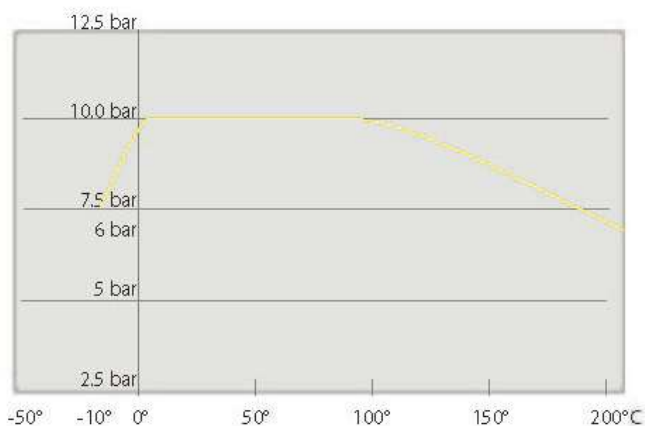
Pos.	Item 零件	Material材料
1	Valve Body 閥體	ASTM A216 WCB(1.0619)
2	Seat 閥座	Modified PTFE
3	Plug 柱塞	Modified PTFE
4	Lining 襯裡	PFA
5	Stem Guide 閥杆導向裝置	1.4401 (stainless steel)
6	Bellows 波紋管	PFA (heavy duty Max. 16bar)
7	Cylinder roller圓柱滾子	Roller bearing steel 軸承鋼
8	Bonnet 上蓋	ASTM A216 WCB(1.0619)
9	Gland with thrust washer packing 帶推力墊圈填料的壓蓋	SS304 / PTFE
10	Stem 閥桿	1.4401 (stainless steel)



PSG Series 2-way PFA Lined Sight Glass PSG系列 鋼襯PFA直通視鏡

- Operating Pressure range 操作壓力範圍: Full vacuum up to 10bar
- Operating Temperature range 操作溫度範圍: -60°C up to +200°C
- Flange dimensions 法蘭尺寸: ASME/ANSI B 16.5 Cl. 150
- Face to face dimensions 法蘭面到法蘭面尺寸: DIN 3202
- Min. 3,0mm thick lining. Option: 5mm thickness for highly permeating fluids. 最小 3,0 毫米厚的襯裡。選項: 5mm 厚度用於高滲透性流體。
- Vacuum proof lining thanks to anchoring 錨固設計的抗真空襯裡。
- Highly corrosion and permeation resistant virgin PFA. 高度耐腐蝕和抗滲透的原生 PFA。
- Integrated drip tube indication 適用伸入插管。
- Large free field of vision 視野寬闊。
- Horizontal or vertical installation 水準或垂直安裝。

Pressure Temperature Diagram
溫度壓力曲線



Pos.	Item 零件	Material 材料
1	Body	ASTM A216 WCB(1.0619)
	Lining	PFA
2	Cover plate 蓋板	ASTM A216 WCB(1.0619)
3	Glass 玻璃	Borosilicate Glass 硼矽玻璃
4	Cushion 軟墊	PTFE
5	Bolts 螺栓	Stainless Steel 不銹鋼
6	Nuts 螺母	Stainless Steel 不銹鋼

Size 尺寸	A mm	øG mm
DN25-1"	160	48
DN40-1-1/2"	200	65
DN50-2"	230	80
DN80-3"	310	100
DN100-4"	350	125
DN150-6"	480	142
DN200-8"	600	216



GFT Sales & Service Center of Asia-Pacific
GFT 亞太銷售服務中心

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