

PFA Lined Diaphragm Valves





WYECO AUTO VALVE CO., LTD, established in 1975, is one of the leading valve manufacturers in Taiwan. With obtaining the certificate of ISO 9001:2008, Wyeco is also an OEM supplier for several companies.

Main Products

1. Diaphragm Actuated Control Valve
2. Cylinder Actuated Control Valve
3. Cylinder Actuated Y-type Control Valve
4. Heat Medium 3-Way Control Valve
5. Manual Valve for Hyper-Cryogenic
6. Hyper-Cryogenic Emergency Shut-off Valve
7. Cylinder Actuated Ball Valve
8. Cylinder Actuated Butterfly Valve
9. Diaphragm / Cylinder Actuated Diaphragm Valve

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Model Number

WY
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	0		DP					
Actuator	Bonnet type	Plug Form	Body Type	Body Material	Valve Action	Trim Material	Body Size	Connection Rating

Code	Actuator
C	Cylinder
D	Diaphragm
M	Manual

Code	Valve Action
O	Air to Open
C	Air to Close

Code	Bonnet
0	Standard

Code	Trim Material
SO	Forged SUS304
S1	Forged SUS316

Code	Plug Form
8	On-Off

Code	Body Size		
15	1/2"	04	4"
20	3/4"	06	6"
25	1"		
40	1 1/2"		
50	2"		
80	3"		

Code	Body Type
DP	Diaphragm

Code	Body Material
SC	Cast Carbon Steel WCB
S3	Stainless Steel, Cast CF8
S4	Stainless Steel, Cast CF8M

Code	Connection Rating
F1	JIS 10K
FA	ANSI 150LB

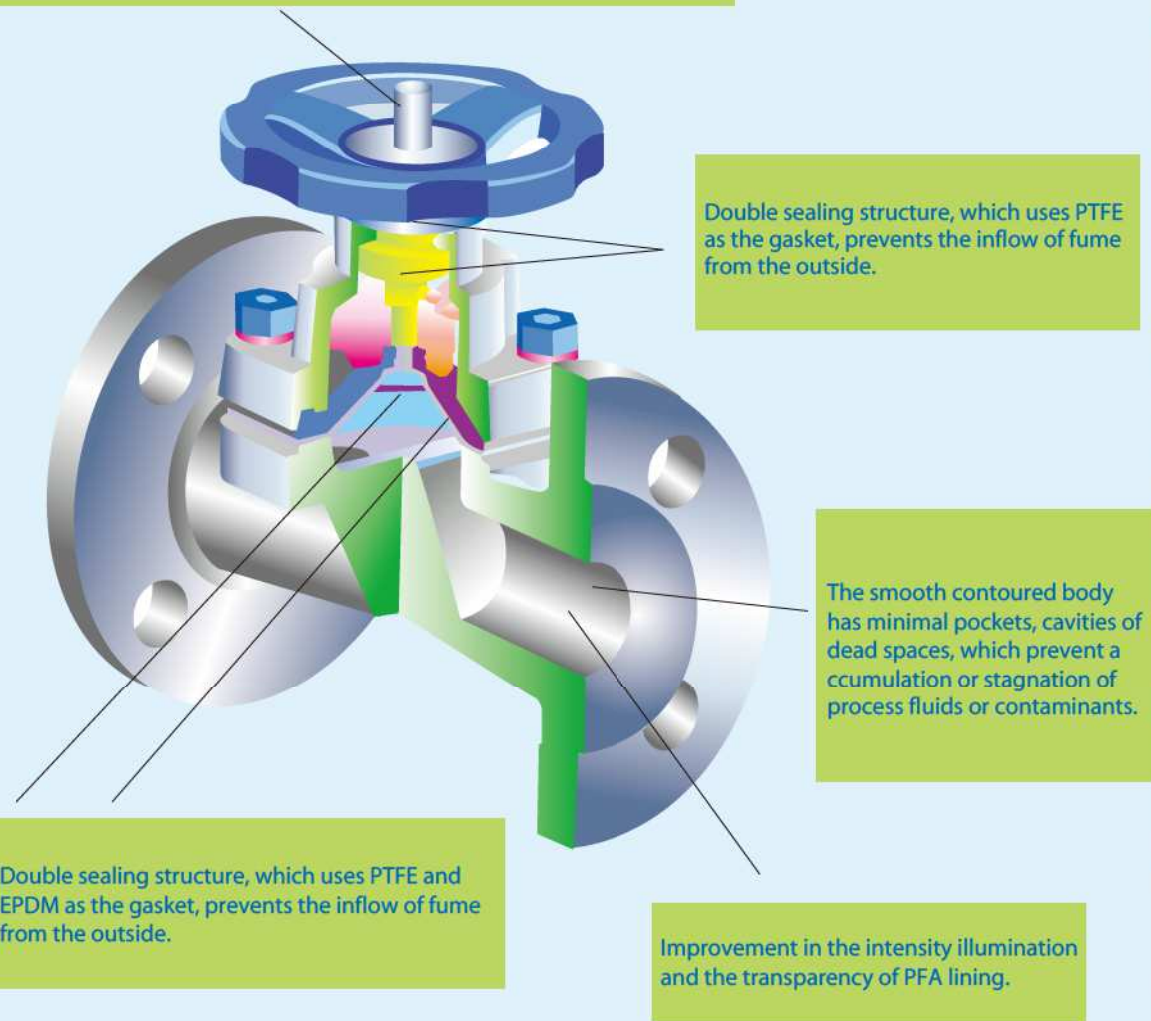
PFA Lined Diaphragm Valve

Internal Characteristic

PFA Lined Diaphragm Valve has excellent permeation & corrosion resistance against highly concentrated acids and strong base. The maximum heat resistance is up to 120°C~150°C, and has longer operating life and need less maintenance.

Valve Location Indicator :

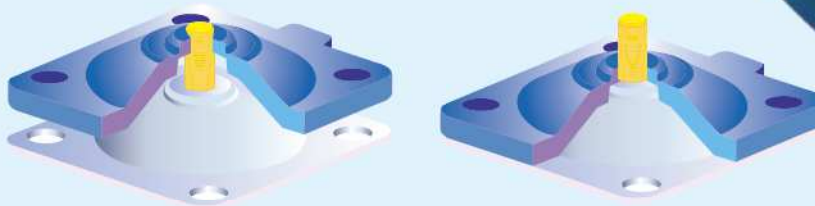
Protecting cover, which can separate the internal stem from the external environment, has the function of indicating valve location.



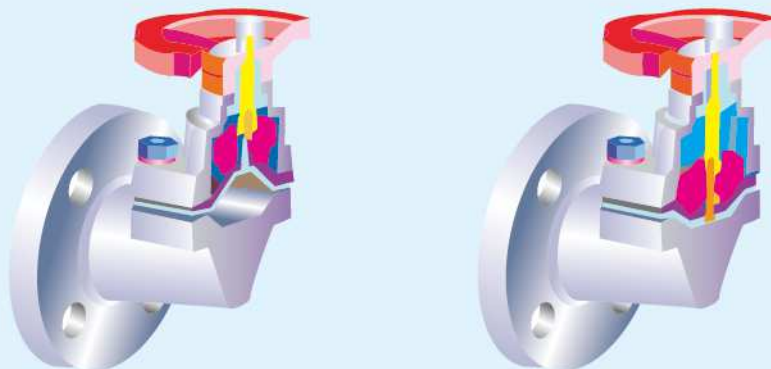
*PFA achieves the capability of permeation & corrosion resistance. Electro polishing prevents the contaminated particles.

* With different material, the difference of curve strength and coefficient of elasticity would diminish its sealing function.

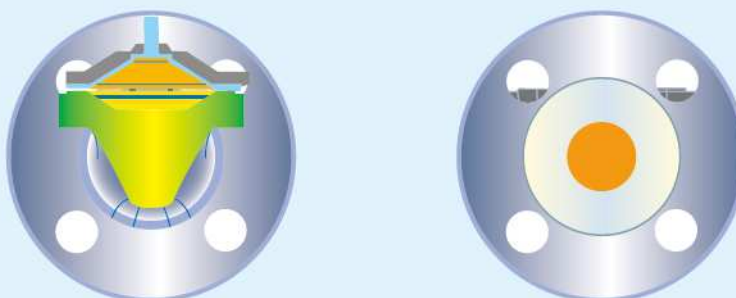
Different material has different curve strength and coefficient of elasticity and would diminish its sealing function. Diaphragm composed by rubber and PTFE can enhance the sealing function of a valve.



Air to close (normally-open) and Air to open (normally-closed) valves are designed individually. If ATC control valves are used in an ATO pipe line, leakage may occur due to the accumulation of fatigue loading.



The flow area of the gate is greater than the pipe head, and this can prevent pipeline pressure loss and pump overload.



Characteristics of PFA Lined Diaphragm Valves

1. The most appropriate design for liquid with low abrasion, less maintenance, and low pressure.
2. Longer operating life.
3. Safe and accurate valve plug stem and guiding, avoid abrasion to the gasket material.
4. Compact but with a complete structure, easy to be installed in small areas. Filling material is not required.
5. PFA lining separates from the fluid, so corrosion would not affect the internal parts.
6. During the maintenance, removing the whole set from the piping is not required.
7. Installation can be made in any position and direction without effecting its action.
8. Quick opening standardized valve.

Specification

- Type: PFA lined diaphragm valve
- Lining materials: carbon steel (A216-WCB+PFA)
PFA lined stainless steel (A351-CF8+PFA)
PFA lined stainless steel (A351-CF8M+PFA)
- Metal valve surface side to side as flanged
- Pressure rating: JANSI Class 150 / JIS 10K
- Bonnet: standard
- Actuator: manual, pneumatic
- Leakage: FCI 70-2-2006

Trim

- Plug characteristic: on/off
- Material: SUS304, SUS316



PFA Material

PFA exhibits thermal characteristics similar to PTFE, with outstanding temperature resistance that is able to withstand super low to high temperatures (maximum continuous service temp 260°C).

PFA is transparency and mechanically strong under high temperature, therefore it is not only easily workable but also applicable with extrusion molding to the same degree as general thermoset plastic. It is used where purity is important, such as semiconductor wafer basket, piping couplings and anticorrosive linings. PFA has much better mechanical properties compared with FEP, and excellent molding process method such as extrusion, compression, blow, transfer and injection.

PFA and PTFE demonstrates nearly the same outstanding capabilities in the temperature range between -200°C and 260°C, and the reason would be the high bonding strength of carbon, fluorine and oxygen atoms.

PTFE MATERIAL

The fluorine atoms completely cover the carbon chain backbone and protect the carbon-carbon bond from attack. The fluorine atoms are also responsible for the low surface energy and exceptional frictional characteristics of PTFE. PTFE does not flow above its melting point because of its high melt viscosity. It requires special polymer processing like paste extrusion, compression molding and sintering. Among all the fluorine plastics products, PTFE offers the highest heat resistance at 260°C (maximum temp. for continuous use). It would not be corroded by most chemicals and has good electrical insulation and dielectric characteristics. Moreover, it has a unique non-stick property and the lowest coefficient of friction amongst solids.

It is the most widely used fluoroplastics, now found in O-rings, gaskets, bearings, tube, wiring, hot plates and irons due to its non-stick property, as well as chemical tank linings.

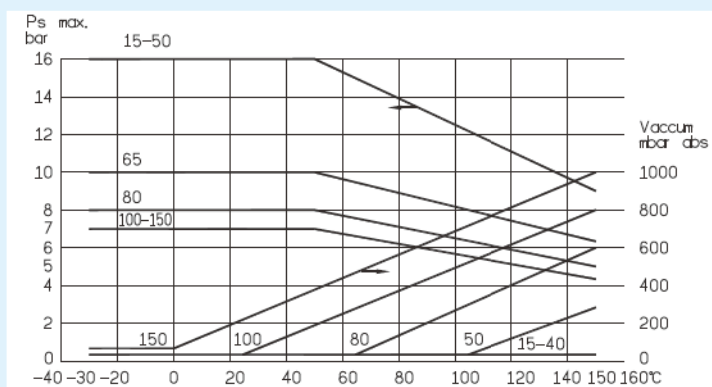
PFA

Property	Testing Method	Value	Unit
Specific Gravity	ASTM D-3307	2.12~2.16	-
Melting Point	ASTM D-3307	304	°C
Tensile Strength	ASTM D-3307	340~398	kg/cm ²
Elongation	ASTM D-3307	360~420	%
Melt Flow Rate	ASTM D-3307	7~8	g/10 min
Chemical Resistance	-	excellent	

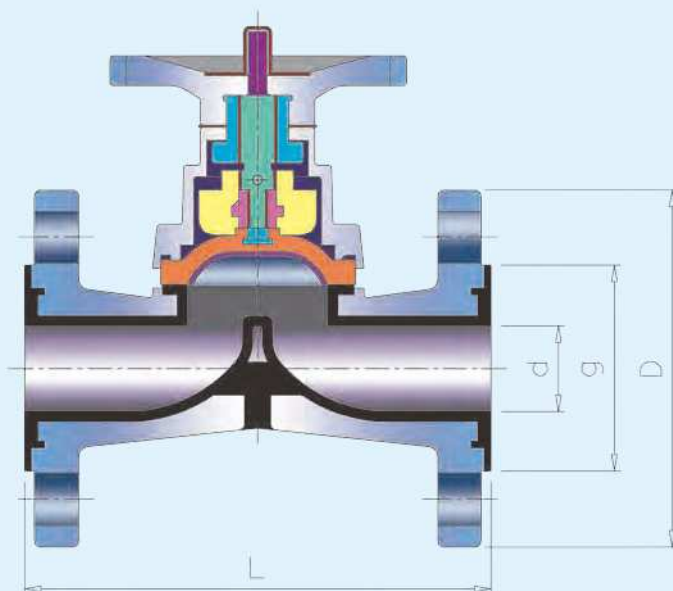
PTFE

Property	Testing Method	Value	Unit
Specific Gravity	ASTM D-792	2.14~2.20	-
Melting Point	-	327	°C
Tensile Strength	ASTM D-638	140~350	kg/cm ²
Elongation	ASTM D-638	100~300	%
Coefficient of Linear Thermal Expansion	ASTM D-696	10	10 ⁻⁵ /°C
Chemical Resistance	-	excellent	

Pressure and Temperature Rating

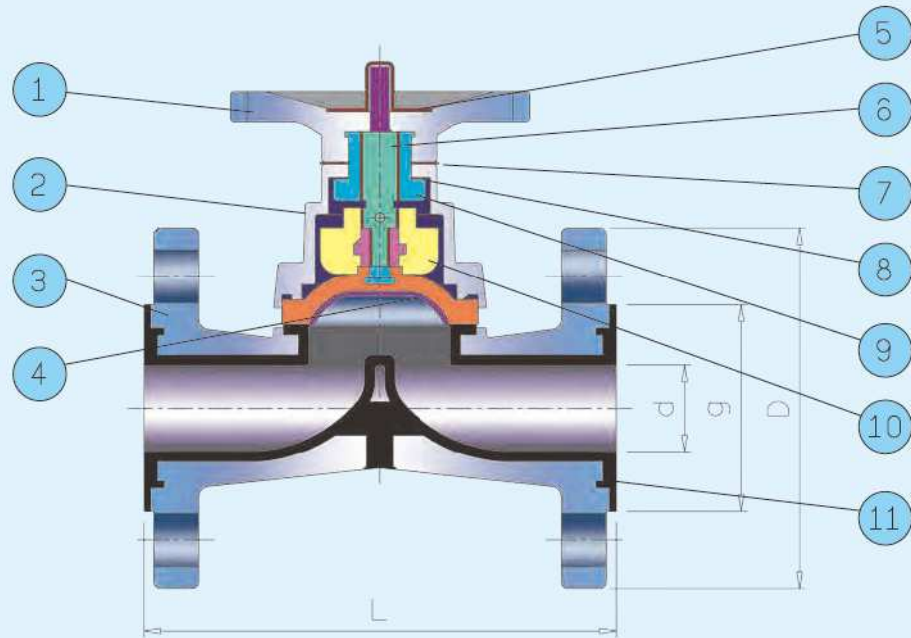


Structural dimension of Manual operated valve



Port Size	d	D		L	g		Max. Pressure Difference (kgf/cm ²)
		ANS I150	JIS 10K		ANS I150	JIS 10K	
1/2" (15A)	15	89	95	133	40	40	8
3/4" (20A)	20	98	100	133	55	55	8
1" (25A)	25	108	125	143	64	64	8
1-1/2" (40A)	38	127	140	180	73	80	7
2" (50A)	50	152	155	210	95	95	7
3" (80A)	76	190	185	310	125	125	6
4" (100A)	101	229	210	350	151	151	6
6" (150A)	152	279	280	480	210	210	4

Internal Parts and Material of Manual Valve



11	Lining	PFA
10	Valve plug	Stainless Steel
9	Spindle bushing	BRONZE
8	Bonnet gasket	PTFE
7	Hand wheel gasket	PTFE
6	Stem	Stainless Steel
5	Rotary indicator	Stainless Steel
4	Diaphragm	PTFE&EPDM
3	Valve body	Stainless Steel /Carbon Steel
2	Bonnet	Stainless Steel /Carbon Steel
1	Hand wheel	Stainless Steel /Carbon Steel
NO.	Parts Name	Material

PFA Lined Cylinder Valve

Characteristics of Cylinder Type Actuator

1. Cleverly designed with single spring composition
2. Piston packing material: NBR
3. Cylinder material: Aluminum alloy
4. Maximum pressure resistance: 6 bars
5. Allowable instant operating temperature: $-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$
6. Air comes in and out fast
7. Capable of installing and adjusting to the stroke limit switch.
8. Optional: emergency on-off switch.
9. Air supply pressure: $5\text{kg}/\text{cm}^2$
10. Pneumatic tubing connections: $1/4"$ NPT
11. Ambient temperature: $-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$, humidity below 90%RH

Actuator

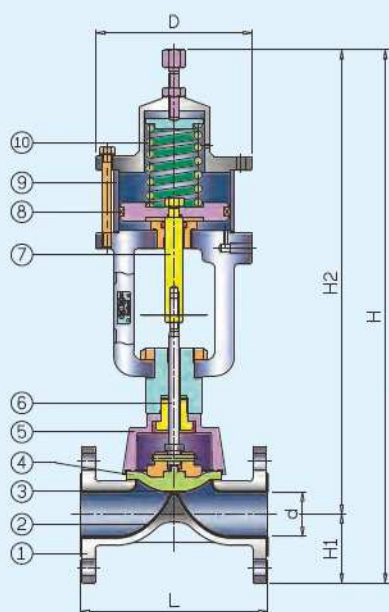
Air to open or air to close is decided by direct or reverse action of actuator. Dire action is air to stem down, reverse action is air to stem up.

Accessory

Hand wheel, positioner.



Dimension



10	Spring	SAE9254
9	Cylinder	Aluminum Alloy
8	Packing	NBR
7	Connecting rod	SS41
6	Valve plug stem	304
5	Bonnet	Stainless Steel /Carbon Steel
4	Diaphragm	EPDM
3	Diaphragm	PTFE
2	Lining	PFA
1	Body	Stainless Steel /Carbon Steel
No.	Parts name	Material

Unit : mm

Dimension	L	d	H1		H2	H		D
			150LB	10K		150LB	10K	
15A	133	15	45	48	449	494	497	150
20A	133	20	49	50	449	498	499	150
25A	143	25	54	63	451	505	514	150
40A	180	38	64	70	499	563	569	175
50A	210	50	76	78	526	602	604	175
80A	310	76	95	93	772	867	865	270
100A	350	101	115	105	794	909	899	270
150A	480	152	140	140	1148	1288	1288	380

Under development

Body size	Cylinder Size	Stroke (mm)	Kv	Cv	STROKE10	Max. Allowable Pressure Difference
15A	100	10	7.6	8.9	10	8
20A	100	10	10.7	12.5	10	8
25A	100	10	11.5	13.4	10	8
40A	125	14	20.5	24	14	5.5
50A	125	16	34.2	40	16	5
80A	200	25	94.2	110	25	5
100A	200	30	145.6	170	30	5
150A	300	40	350	409	40	4

PFA Lined Diaphragm Valve

Characteristics of Diaphragm Type Actuator

- 1) Cleverly designed with multi-spring composition
- 2) Diaphragm materials: PA fiber covered with Neoprene
- 3) Diaphragm case is steel
- 4) Maximum pressure resistance: 6 bars
- 5) Allowable instant operating temperatures: $-30^{\circ}\text{C} \sim 90^{\circ}\text{C}$
- 6) Air comes in and out fast
- 7) Capable of installing and adjusting to the stroke limit switch.
- 8) Optional: emergency on-off switch.
- 9) Spring range: $0.2 \sim 1.0\text{kg/cm}^2$, $0.4 \sim 2.0\text{kg/cm}^2$, $0.6 \sim 2.2\text{kg/cm}^2$, $0.8 \sim 2.4\text{kg/cm}^2$
- 10) Pneumatic tubing connections: 1.4"NPT
- 11) Ambient temperature: $-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$, humidity below 90%RH

Actuator

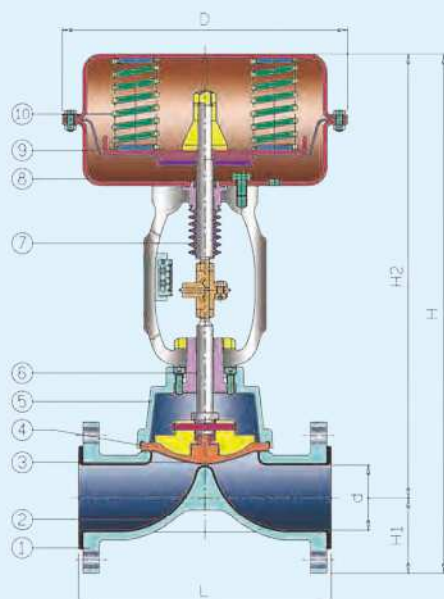
Air to open or air to close is decided by direct or reverse action of actuator. Direct action is air to stem down, reverse action is air to stem up.

Accessory

Handwheel, positioner, solenoid valve, limit switch, regulator.



Dimension



10	Spring	SAE9254
9	Diaphragm	Neoprene
8	Diaphragm case	A569
7	Diaphragm stem	304
6	Valve plug stem	304
5	Bonnet	Stainless Steel / Carbon Steel
4	Diaphragm	EPDM
3	Diaphragm	PTFE
2	Lining	PFA
1	Body	Stainless Steel / Carbon Steel
No.	Parts Name	Material

Unit : mm

Port Size	L	d	H1		H2	H		D
			150LB	10K		150LB	10K	
15A	133	15	45	48	398	443	446	250
20A	133	20	49	50	398	447	448	250
25A	143	25	54	63	400	454	463	250
40A	180	38	64	70	468	532	538	300
50A	210	50	76	78	487	563	565	300
80A	310	76	95	93	540	635	633	350
100A	350	101	115	105	561	676	666	350
150A	480	152	140	140	889	1029	1029	460

Maximum allowable pressure difference

Unit : kgf/cm²

Act. Size	Spring range	15	20	25	40	50	80	100	150
		1/2"	3/4"	1"	1- 1/2"	2"	3"	4"	6"
250	0.2	8	8	8					
300	0.2				7				
	0.4				8	6			
350	0.2					8	2		
	0.4						4	3	
	0.8						5	4	
	1.0						8	5	
460	0.4								2
	1.0								5

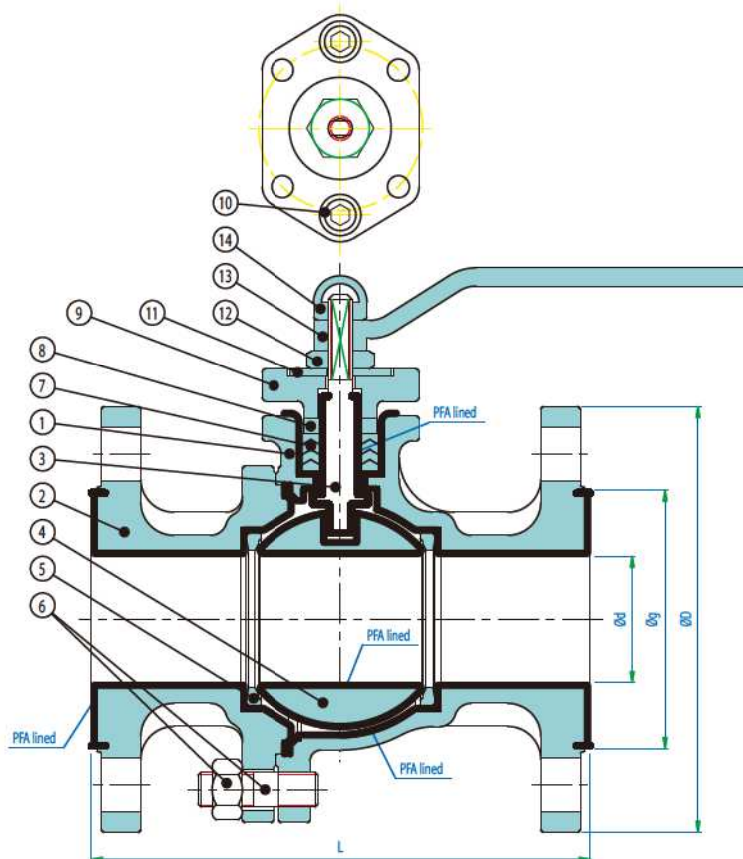
PFA Lined Ball Valve

Characteristics of PFA Lined Ball Type Actuator

1. Valve surface is processed with Electronic polishing (Coated with epoxy if required)
2. PFA lined molding is at least 3mm thick.
3. Ball stem enables V-packing and seat ring to be adjusted.
4. Ball and seat ring have limited contact, and with low operating torque.
5. The ball is smooth with no cavities and fewer dead spaces, which reduces the flow remain.
6. On/off indicator can avoid over manual operating.



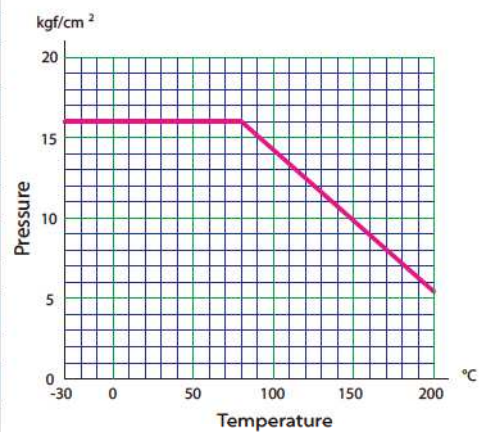
PFA Lined Ball Valve



Remarks : Surface finish - Electropolished / Epoxy coated / Electropolished+Buffed

Item No.	Parts name	Material	
		Stainless Steel	Carbon Steel
1	Body/Lined	ASTM A351 Gr. CF8/CF8M/PFA	ASTM A216 Gr. WCB
2	Cap	ASTM A351 Gr. CF8/CF8M	ASTM A216 Gr. WCB
3	Stem	ASTM A351 Gr. CF8/CF8M	ASTM A351 Gr. CF8
4	Ball	ASTM A351 Gr. CF8/CF8M	ASTM A351 Gr. CF8
5	Seat	PTFE	PTFE
6	Stud Bolt/Nut	SUS304	SUS304
7	Packing	PTFE	PTFE
8	Bushing	SUS304	SUS304
9	Grand	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8
10	Grand Bolt	SUS304	SUS304
11	Indicator	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8
12	Stem Nut	SUS304	SUS304
13	Handle	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8
14	Handle Nut	SUS304	SUS304

Pressure/Temperature Ratings

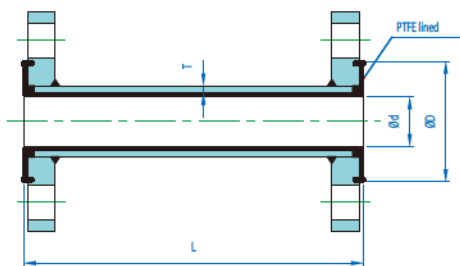


Nominal size		L		Ød	Øg		ØD		Cv
					ANSI 150	JIS 10K	ANSI 150	JIS 10K	
1/2"	(15A)	127	140	15	40	40	89	95	
3/4"	(20A)	127	150	20	55	55	98.5	100	
1"	(25A)	127	150	25	64	64	108	125	
1 1/2"	(40A)	165	165	38	73	80	127	140	
2"	(50A)	178	210	50	95	95	152	155	
3"	(80A)	203	250	76	125	125	190.5	185	
4"	(100A)	229	229	100	151	151	229	210	

unit : mm

Pipes

Pipe

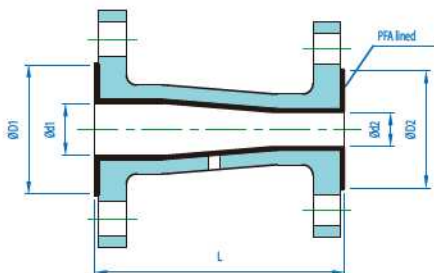


Remarks : Surface finish - Acid cleaning / Epoxy coated

unit : mm

Nominal size	L(Max.)	Ød	ØD	T	
				Standard	Heavy
1/2" (15A)	6000	11	34	2.5	3.0
3/4" (20A)	6000	16	43	2.5	3.0
1" (25A)	6000	22	51	2.5	3.0
1 1/2" (40A)	6000	36	73	2.5	3.0
2" (50A)	6000	47	92	2.5	3.0
2 1/2" (65A)	6000	60	105	2.5	3.0
3" (80A)	6000	73	127	2.5	3.0
4" (100A)	3000	94	155	4.0	6.0
5" (125A)	3000	118	185	4.0	6.0
6" (150A)	3000	143	216	4.0	6.0
8" (200A)	3000	192	266	4.0	6.0
10" (250A)	3000	240	324	4.0	6.0
12" (300A)	3000	287	374	4.0	6.0

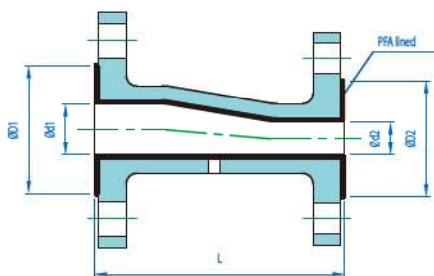
Concentric reducer



unit : mm

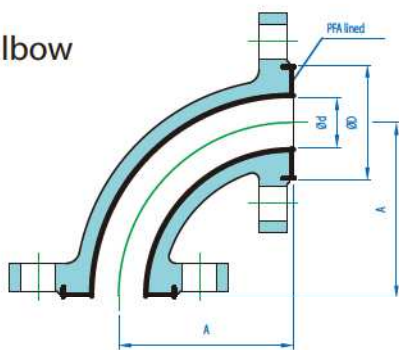
Nominal size	L	Ød1	ØD1	Ød2	ØD2
3/4"x1/2" (20Ax15A)	80	16	50	11	40
1"x1/2" (25Ax15A)	89	22	57	11	40
1"x3/4" (25Ax20A)	89	22	57	16	50
1 1/2"x3/4" (40Ax20A)	102	36	76	16	50
1 1/2"x1" (40Ax25A)	102	36	76	22	57
2"x1" (50Ax25A)	114	47	95	22	57
2"x1 1/2" (50Ax40A)	114	47	95	36	76
2 1/2"x1 1/2" (65Ax40A)	130	60	105	36	76
2 1/2"x2" (65Ax50A)	130	60	105	47	95
3"x1 1/2" (80Ax40A)	140	73	125	36	76
3"x2" (80Ax50A)	140	73	125	47	95
4"x2" (100Ax50A)	165	94	151	47	95
4"x2 1/2" (100Ax65A)	165	94	151	60	105
5"x3" (125Ax80A)	194	118	180	73	125
5"x4" (125Ax80A)	194	118	180	94	151
6"x3" (150Ax80A)	200	143	216	73	125
6"x4" (150Ax100A)	200	143	216	94	151
8"x4" (200Ax100A)	200	192	266	94	151
8"x6" (200Ax150A)	200	192	266	143	216

Eccentric reducer



Remarks : Surface finish - Acid cleaning / Epoxy coated

90° Elbow

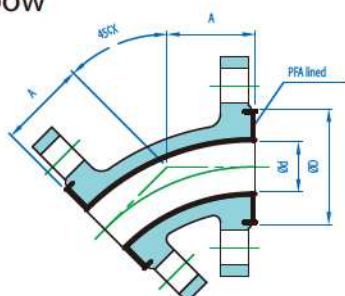


Remarks : Surface finish - Electropolished / Epoxy coated / Electropolished+Buffed

unit : mm

Nominal size	A	Ød	ØD
1/2" (15A)	70	15	40
3/4" (20A)	80	20	50
1" (25A)	89	25	57
1 1/2" (40A)	102	38	76
2" (50A)	114	50	95
2 1/2" (65A)	130	65	105
3" (80A)	140	76	125
4" (100A)	165	100	151

45° Elbow

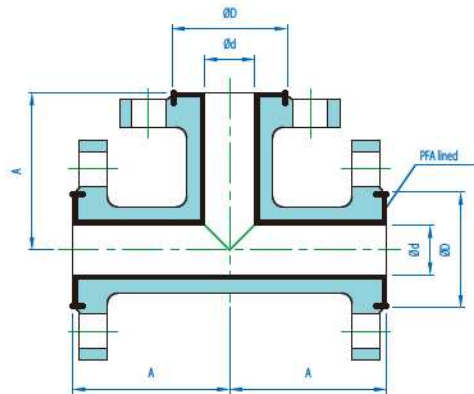


Remarks : Surface finish - Acid cleaning / Epoxy coated

unit : mm

Nominal size	A	Ød	ØD
1/2" (15A)	45	11	40
3/4" (20A)	45	16	50
1" (25A)	60	22	57
1 1/2" (40A)	60	36	76
2" (50A)	64	47	95
2 1/2" (65A)	76	60	105
3" (80A)	76	73	125
4" (100A)	102	94	151

Equal tee

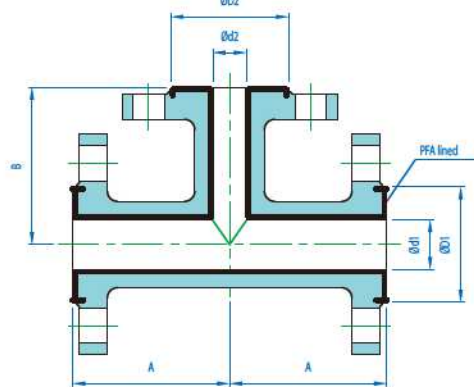


unit : mm

Normal size	A	Ød	ØD
1/2" (15A)	70	15	40
3/4" (20A)	80	20	50
1" (25A)	89	25	57
1 1/2" (40A)	102	38	76
2" (50A)	114	50	95
2 1/2" (65A)	130	65	105
3" (80A)	140	76	125
4" (100A)	165	100	151

Remarks : Surface finish - Electropolished / Epoxy coated / Electropolished+Buffed

Reducing tee

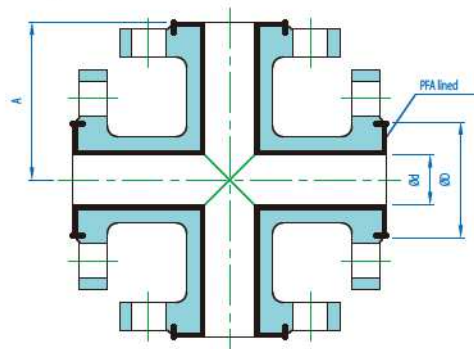


unit : mm

Normal size	A	B	Ød1	ØD1	Ød2	ØD2
3/4"x1/2" (20Ax15A)	80	70	20	50	15	40
1"x1/2" (25Ax15A)	89	70	25	57	15	40
1"x3/4" (25Ax20A)	89	80	25	57	20	50
1 1/2"x3/4" (40Ax20A)	102	80	38	76	20	50
1 1/2"x1" (40Ax25A)	102	89	38	76	25	57
2"x1" (50Ax25A)	114	89	50	95	25	57
2"x1 1/2" (50Ax40A)	114	102	50	95	38	76
2 1/2"x1 1/2" (65Ax40A)	130	102	65	105	38	76
2 1/2"x2" (65Ax50A)	130	114	65	105	50	95
3"x1 1/2" (80Ax40A)	140	102	76	125	38	76
3"x2" (80Ax50A)	140	114	76	125	50	95
4"x2" (100Ax50A)	165	114	100	151	50	95
4"x2 1/2" (100Ax65A)	165	130	100	151	65	105

Remarks : Surface finish - Electropolished / Epoxy coated / Electropolished+Buffed

Equal cross

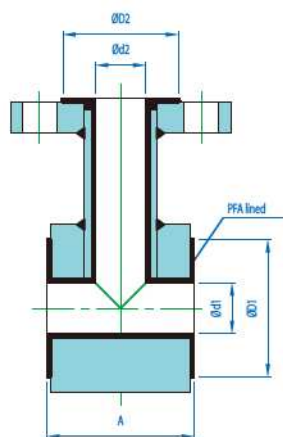


unit : mm

Normal size	A	Ød	ØD
1/2" (15A)	70	11	34
3/4" (20A)	80	16	43
1" (25A)	89	22	57
1 1/2" (40A)	102	36	76
2" (50A)	114	47	95
2 1/2" (65A)	130	60	105
3" (80A)	140	73	125
4" (100A)	165	94	151

Remarks : Surface finish - Acid cleaning / Epoxy coated

Instrument tee



unit : mm

Normal size	A	Ød1	ØD1	Ød2	ØD2
1/2"x1/2" (15Ax15A)	50	11	40	11	40
3/4"x3/4" (20Ax20A)	50	16	50	16	50
1"x3/4" (25Ax20A)	50	22	57	16	50
1 1/2"x3/4" (40Ax20A)	50	36	76	16	50
2"x3/4" (50Ax20A)	50	47	95	16	50
2 1/2"x3/4" (65Ax20A)	50	60	105	16	50
3"x3/4" (80Ax20A)	50	73	125	16	50
4"x3/4" (100Ax20A)	50	94	151	16	50
5"x3/4" (125Ax20A)	50	118	180	16	50
6"x3/4" (150Ax20A)	50	143	216	16	50
8"x3/4" (200Ax20A)	50	192	261	16	50

Remarks : Surface finish - Acid cleaning / Epoxy coated

PTFE & PFA Lined Comparison Chart

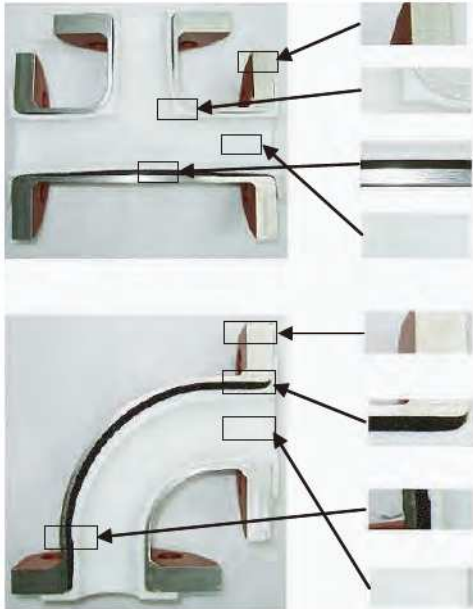
PTFE Lined Fittings



PTFE (Polytetrafluoroethylene)

Max. continuous service temp.	260°C
Melting point	327°C
Specific gravity	2.14~2.2
Tensile strength	140~350kg/cm ²
Elongation	100~300%

MOLDING
ISOSTATIC MOLDING → SINTERING
LOW PRICE



1. PTFE has difficulty forming into shape, and its thickness is hard to control during the process of lining.
2. PTFE cannot be locked into molding metal.
3. PFA cannot be precisely molded to metal and locked into place. Transporting fluid would shuck, deform or even cause crack.
4. PTFE surface is rougher. Particles in the fluid sticking on the wall not only cause fluid drag, but also lack cleanness.
5. Permeation & corrosion resistance against highly concentrated acids and strong base are weaker.
6. The Physical properties of each PTFE are different according to the manufacture and their technologies (Ex. Tensile Strength & Elongation...).
7. Rangle formed when connecting PTFE with Flange bore. As a result, particles would remain on the inner wall.
8. PTFE surface is incapable of applying Electro polishing or Acid Cleaning and mach with pipe is badly.
9. Lifetime is short and high-frequency maintenance.

Suitable for use: chemical industry(room tempature and pressure)

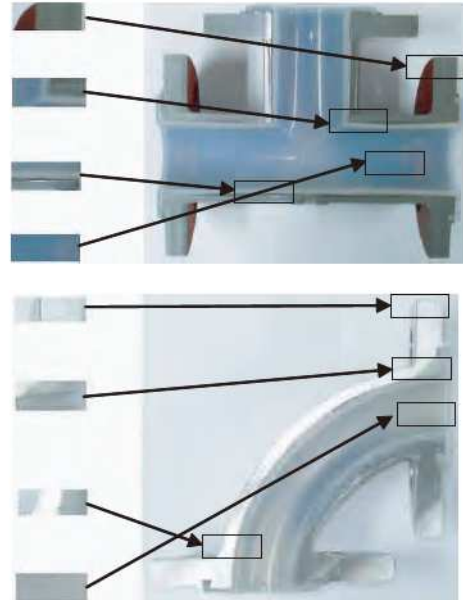
PFA Lined Fittings



PFA (Perfluoroalkoxy)

Max. continuous service temp.	260°C
Melting point	304°C
Specific gravity	2.14~2.16
Tensile strength	340~398kg/cm ²
Elongation	360~420%

MOLDING
MELTING → TRANSFER MOLDING
HIGH PRICE



1. Lining is even in thickness and features easy shaping.
2. PFA can be precisely molded to metal and locked into place.
3. PFA has excellent fitting and sealing. When pressure is applied, no deformation would occur. The product has stable physical properties.
4. PFA lining surface is smoothes.
5. Surface of PFA Lining is smoother, particles would not remain.
6. Smoothes surface, low fluid drag. Excellent permeation & corrosion resistance against highly concentrated acids and strong base.
7. Low frequency maintenance. PFA lining is perpendicularly connected to the Flange bore. As a result, particles would not remain.
8. Capable of applying acid cleaning & Electro polishing.
9. Stabilized physical properties.

Suitable for use: chemical industry(high tempature and pressure)
Electronic industry (semiconductor)
Medical industry



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