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ASAHI AV VALVE AND PIPING SYSTEMS

ASAHI AV VALVES

The specifications in this brochure are subject to change without prior notice due to improvements and modifications.

ASAHI AV VALVES

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Asahi AV Products

Make Your Systems More Sophisticated.



DIAPHRAGM VALVE
TYPE14
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TRUE UNION
DIAPHRAGM VALVE TYPE14
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DIAPHRAGM VALVE
TYPE15
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DIAPHRAGM VALVE
TYPE72
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LAB COCK
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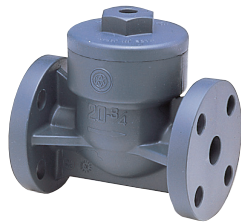
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TYPE57
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BUTTERFLY VALVE
TYPE56
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BUTTERFLY VALVE
TYPE75
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SWING CHECK VALVE
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BALL CHECK AND
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Y-SEDIMENT STRAINER
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To meet your specific requirements, Asahi AV Valves are made of wide variety of materials and are available in various types and sizes.

You are surely making the best choice for your systems when selecting Asahi AV products.



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TYPE21
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3-WAY BALL VALVE
TYPE23
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3-WAY BALL VALVE
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PDCPD BUTTERFLY VALVE
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ROTARY DAMPER
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DIAPHRAGM VALVE TYPE 14,
PNEUMATIC ACTUATED MODEL
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T.U. DIAPHRAGM VALVE TYPE 14,
PNEUMATIC ACTUATED MODEL
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AV GASKET
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Range of Nominal Size and Materials

Type			DIAPHRAGM VALVE TYPE 14		TRUE UNION DIAPHRAGM VALVE TYPE 14								
Body Materials			PVC, C-PVC, PP, PVDF		PVC		C-PVC		PP		PVDF		
End Connectors			Flanged		Threaded	Socket	Threaded	Socket	Threaded	Socket (welded)	Threaded	Socket (welded)*	Spigot*
Nominal Size	mm	inch											
	15	1/2	○	○	○	○	○	○	○	○	○	○	○
	20	3/4	○	○	○	○	○	○	○	○	○	○	○
	25	1	○	○	○	○	○	○	○	○	○	○	○
	32	1 1/4	○	○	○	○	○	○	○	○	○	○	○
	40	1 1/2	○	○	○	○	○	○	○	○	○	○	○
	50	2	○	○	○	○	○	○	○	○	○	○	○
	65	2 1/2	○	-	-	-	-	-	-	-	-	-	-
	80	3	○	-	-	-	-	-	-	-	-	-	-
100	4	○	-	-	-	-	-	-	-	-	-	-	

Type			DIAPHRAGM VALVE TYPE 15	
Body Materials			PVC, PP, PVDF	
End Connectors			Flanged	
Nominal Size	mm	inch		
	125	5	○	
	150	6	○	

Type			DIAPHRAGM VALVE TYPE 72	
Body Materials			PVC, PP, PVDF	
End Connectors			Flanged	
Nominal Size	mm	inch		
	200	8	○	
	250	10	○	

Type			BALL VALVE TYPE 21												
Body Materials			PVC			C-PVC			PP			PVDF			
End Connectors			Flanged	Threaded	Socket	Flanged	Threaded	Socket	Flanged	Threaded	Socket (welded)	Flanged	Threaded	Socket (welded)*	Spigot*
Nominal Size	mm	inch													
	15	1/2	○	○	○	○	○	○	○	○	○	○	○	○	○
	20	3/4	○	○	○	○	○	○	○	○	○	○	○	○	○
	25	1	○	○	○	○	○	○	○	○	○	○	○	○	○
	32	1 1/4	○	○	○	○	○	○	○	○	○	○	○	○	○
	40	1 1/2	○	○	○	○	○	○	○	○	○	○	○	○	○
	50	2	○	○	○	○	○	○	○	○	○	○	○	○	○
	65	2 1/2	○	○	○	○	○	○	○	○	○	○	○	○	○
	80	3	○	○	○	○	○	○	○	○	○	○	○	○	○
100	4	○	○	○	○	○	○	○	○	○	○	○	○	○	

Type	LAB COCK
Body Materials	PVC
End Connectors	Male Thread, Female Thread, Hose
Nominal Size	Male Thread 1/4 1/2
	Female Thread 1/4 3/8

Type			3-WAY BALL VALVE TYPE 23										COMPACT BALL VALVE				
Body Materials			PVC			C-PVC			PP		PVDF			PVC		C-PVC	
End Connectors			Flanged	Threaded	Socket	Flanged	Threaded	Socket	Threaded	Socket (welded)	Flanged	Threaded	Socket (welded)	Threaded	Socket	Threaded	Socket
Nominal Size	mm	inch															
	13	3/8	-	-	-	-	-	-	-	-	-	-	-	○	○	○	○
	15	1/2	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	20	3/4	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	25	1	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	32	1 1/4	-	-	-	-	-	-	-	-	-	-	-	○	○	○	○
	40	1 1/2	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	50	2	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	65	2 1/2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	80	3	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
100	4	○	○	○	○	○	○	○	○	○	○	○	-	-	-	-	

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Type		BUTTERFLY VALVE TYPE 57			BUTTERFLY VALVE TYPE 56		BUTTERFLY VALVE TYPE 75		BUTTERFLY VALVE TYPE 57L(Lug Style)		ROTARY DAMPER			BUTTERFLY VALVE TYPE 55	Type	PDCPD BUTTERFLY VALVE	
Body Materials		PVC	PP	PVDF	PP	PVDF	PP	PVDF	PDCPD	PVC	PVC (PP DISC)	PP	PVDF	FCD-S	Body Materials	PDCPD	
End Connectors		Wafer	Wafer	Wafer	Wafer	Wafer	Wafer	Wafer	Wafer	Wafer	Wafer	Wafer	Wafer	Wafer	Models	Wafer	
Nominal Size	mm	inch													mm	inch	
	40	1 1/2	○	○	○	-	-	-	-	-	-	○	○	○	-	○	
	50	2	○	○	○	-	-	-	-	-	-	○	○	○	○	○	
	65	2 1/2	○	○	○	-	-	-	-	-	-	○	○	○	○	○	
	80	3	○	○	○	-	-	-	-	-	-	○	○	○	○	○	
	100	4	○	○	○	-	-	-	-	-	-	○	○	○	○	○	
	125	5	○	○	○	-	-	-	-	-	-	○	○	○	○	○	
	150	6	○	○	○	-	-	-	-	-	-	○	○	○	○	○	
	200	8	○	○	○	-	-	-	-	-	-	○	○	○	○	○	
	250	10	○	○	○	-	-	-	-	-	-	○	○	○	○	○	
	300	12	○	○	○	-	-	-	-	-	-	○	○	○	○	○	
	350	14	○	○	○	-	-	-	-	-	-	○	○	○	○	○	
	400	16	-	-	-	○	○	-	-	-	-	○	○	○	-	-	
	450	18	-	-	-	-	-	○	○	-	-	○*	○	-	-	-	
500	20	-	-	-	-	-	○	○	-	-	○	○	○	-	-		
600	24	-	-	-	-	-	○	○	-	-	○	○	○	-	-		

Type		SWING CHECK VALVE			
Body Materials		HI-PVC	PP	PVDF	
End Connectors		Flanged	Flanged	Flanged	
Nominal Size	mm	inch			
	15	1/2	○	○	○
	20	3/4	○	○	○
	25	1	○	○	○
	32	1 1/4	○	○	○
	40	1 1/2	○	○	○
	50	2	○	○	○
	65	2 1/2	○	○	○
	80	3	○	○	○
	100	4	○	○	○
	125	5	○	○	○
150	6	○	○	○	
200	8	○	○	○	

Type		BALL CHECK VALVE AND BALL FOOT VALVE									
Body Materials		PVC			C-PVC			PP		PVDF	
End Connectors		Flanged	Threaded	Socket	Flanged	Threaded	Socket	Threaded	Socket (welded)	Threaded	Socket (welded)
Nominal Size	mm	inch									
	15	1/2	○	○	○	○	○	○	○	○	○
	20	3/4	○	○	○	○	○	○	○	○	○
	25	1	○	○	○	○	○	○	○	○	○
	32	1 1/4	-	-	-	-	-	-	-	-	-
	40	1 1/2	○	○	○	○	○	○	○	○	○
	50	2	○	○	○	○	○	○	○	○	○
	65	2 1/2	-	-	-	-	-	-	-	-	-
	80	3	○	○	○	○	○	○	○*	○	○
	100	4	○	○	○	○	○	○	○	○	○

Type		TRUE UNION BALL CHECK VALVE									
Body Materials		PVC			C-PVC			PP		PVDF	
End Connectors		Flanged	Threaded	Socket	Flanged	Threaded	Socket	Threaded	Socket (welded)	Threaded	Socket (welded)
Nominal Size	mm	inch									
	15	1/2	○	○	○	○	○	○	○	○	○
	20	3/4	○	○	○	○	○	○	○	○	○
	25	1	○	○	○	○	○	○	○	○	○
	32	1 1/4	-	-	-	-	-	-	-	-	-
	40	1 1/2	○	○	○	○	○	○	○	○	○
50	2	○	○	○	○	○	○	○	○	○	

Type		STRAINER(Y)			
Body Materials		PVC(Clear)			
End Connectors		Flanged	Threaded	Flanged	
Nominal Size	mm	inch			
	15	1/2	○	○	○
	20	3/4	○	○	○
	25	1	○	○	○
	32	1 1/4	-	-	-
	40	1 1/2	○	○	○
	50	2	○	○	○
	65	2 1/2	-	-	-
	80	3	○	○	○
100	4	○	○	○	

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DIAPHRAGM VALVE TYPE 14 15mm - 100mm (1/2inch - 4inch)

- 15mm(1/2inch) – 50mm(2inch)
- 65mm(2 1/2inch) – 100mm(4inch)



FEATURES

■ Excellent Sealing Property

The DIAPHRAGM VALVE TYPE 14 uses a high quality rubber material, exhibiting lower compressive strain, for its diaphragm and cushion, resulting in optimum sealing performance.

■ Tight Seal at Low Torque

Using dynamic analysis by CAE, DIAPHRAGM VALVE TYPE 14 is designed so that pressure is distributed evenly. This design allows the hand wheel torque be reduced and maintain shut off at low torque.

■ Easier Maintenance

A bayonet mechanism, provided between the diaphragm and compressor, allows the diaphragm to be replaced easily.

■ Bottom Stand for Easy Support

Having a new bottom stand with an insert hole, DIAPHRAGM VALVE TYPE 14 helps support the piping. The valve is also provided with a flange stand to increase installation safety.

■ Built-in Travel Stop

DIAPHRAGM VALVE TYPE 14 contains a revolutionary travel stop mechanism protecting the diaphragm.

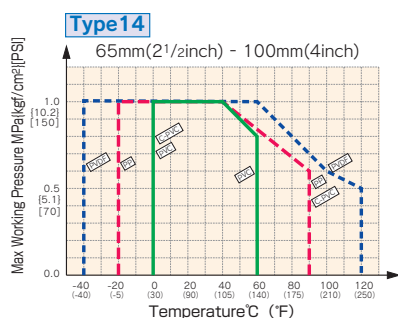
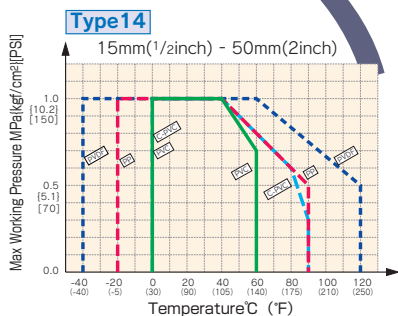
■ Visual Indicator

A color indicator clearly shows whether the valve is fully-opened, half-opened, or fully-closed. Because the indicator enters the handle, going out of view when the valve is fully-closed, the operator would know at glance of valve position valve is fully-opened, half-opened.

MATERIAL AND WORKING TEMPERATURE

Body Material	Nominal Size mm(inch)	Working Temperature °C (°F)	Max. Working Pressure at 20°C(70°F)	End Connectors
			MPa{kgf/cm ² } [PSI]	
PVC	15 - 100(1/2 - 4)	0 - 60 (30 - 140)	1.0 {10.2} [150]	Flanged End
C-PVC	15 - 100(1/2 - 4)	0 - 90 (30 - 195)	1.0 {10.2} [150]	Flanged End
PP	15 - 100(1/2 - 4)	-20 - 90 (-5 - 195)	1.0 {10.2} [150]	Flanged End
PVDF	15 - 100(1/2 - 4)	-40 - 120 (-40 - 250)	1.0 {10.2} [150]	Flanged End

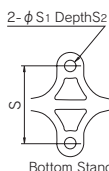
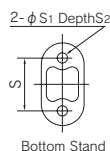
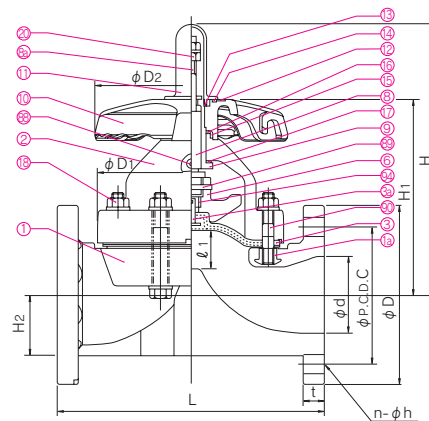
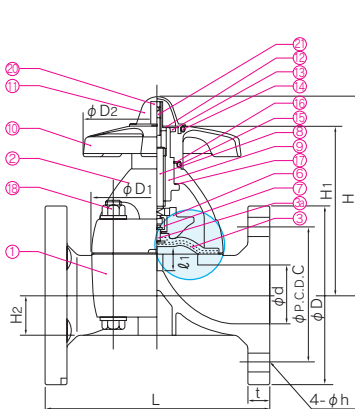
WORKING PRESSURE VS. TEMPERATURE



DIMENSION

● 15mm(1/2inch) - 50mm(2inch)

● 65mm(2 1/2inch) - 100mm(4inch)



PARTS & MATERIALS

No.	DESCRIPTION	Pcs.	MATERIAL	No.	DESCRIPTION	Pcs.	MATERIAL
①	BODY	1	BODY/BONNET,	⑬	RETAINING RING-C TYPE	1	STAINLESS STEEL304
②	BONNET	1	PVC/PVC,C-PVC/PP,PP/PP,PVDF/PPG,PVDF/PVDF	⑭	O-RING(A)	1	EPDM
③	DIAPHRAGM	1	EPDM,IIR,NBR,CSM,CPE,FKM VIFLON C (FKM-C), VIFLON F (FKM-F), PTFE	⑮	O-RING(B)	1	EPDM
③a	INSERTED METAL OF DIAPHRAGM	1	STAINLESS STEEL304	⑯	THRUST RING(A)	1	UHMWPE
④	CUSHION	1	EPDM ¹⁾	⑰	THRUST RING(B)	1	UHMWPE
⑤	PVDF GAS BARRIER(OPTION)	1	PVDF	⑱	BOLT·NUT	4	STAINLESS STEEL304
⑥	COMPRESSOR	1	PVDF	⑳	STOPPER	1	COPPER ALLOY ²⁾ , STAINLESS STEEL ³⁾ 304
⑦	JOINT ²⁾	1	STAINLESS STEEL304	㉑	SCREW ²⁾	1	STAINLESS STEEL304
⑧	STEM	1	COPPER ALLOY	㉒	GREASE NIPPLE ³⁾	1	COPPER ALLOY (C3604)
⑧a	INDICATOR ROD ²⁾	1	STAINLESS STEEL304	㉓	COMPRESSOR PIN ³⁾	1	STAINLESS STEEL304
⑨	SLEEVE	1	COPPER ALLOY (C3604)	㉔	STUD BOLT·NUT ³⁾	4	STAINLESS STEEL304
⑩	HAND WHEEL	1	PP	㉕	METAL OF COMPRESSOR	1	STAINLESS STEEL304
⑪	GAUGE COVER	1	POLYCARBONATE	㉖	INSERTED NUT ³⁾	4	COPPER ALLOY (C3604) STAINLESS STEEL304
⑫	NAME PLATE	1	PVC				

Note. 1) Used for PTFE diaphragm
 2) Used for 15mm(1/2inch)-50mm(2inch)
 3) Used for size 65mm(2 1/2inch)-100mm(4inch)

DIMENSIONS TABLE

Nominal Size		d	DIN 2501 PN10				D ₁	D ₂	ℓ ₁ (LIFT)	L	t		H	H ₁	H ₂	S	S ₁	S ₂
mm	inch		D	C	n	h					PVC C-PVC	PP PVDF						
15	1/2	16	95	65	4	14	54×66	100	10	130	12	12	104	86	19.5	25	7	13
20	3/4	20	105	75	4	14	54×66	100	10	150	13	13	106	88	17.5	25	7	13
25	1	25	115	85	4	14	67×80	100	12	160	13	13	111	93	18.5	25	7	13
32	1 1/4	32	140	100	4	18	67×80	100	12	180	16	16	116	97	22.5	25	7	13
40	1 1/2	40	150	110	4	18	108×108	156	21	200	20	20	177	144	27.5	45	9	15
50	2	52	165	125	4	18	123×123	156	25	230	22	22	191	158	36	45	9	15
65	2 1/2	67	185	145	4	18	175	220	34	290	22	22	266	188	61	85	11	20
80	3	78	200	160	8	18	201	220	42	310	24	24	280	202	63	100	15	28
100	4	100	220	180	8	18	241	257	50	350	24	26	329	241	78	120	15	28

Nominal Size		d	ANSI CLASS 150				D ₁	D ₂	ℓ ₁ (LIFT)	L		t		H	H ₁	H ₂	S	S ₁	S ₂
inch	mm		D	C	n	h				G-STANDARD	A-STANDARD	PVC C-PVC	PP PVDF						
1/2	15	0.63	3.50	2.38	4	0.62	2.13×2.60	3.94	0.39	4.25	4.33	0.43	0.43	4.09	3.39	0.77	0.98	0.28	0.51
3/4	20	0.79	3.88	2.75	4	0.62	2.13×2.60	3.94	0.39	5.88	4.72	0.51	0.51	4.17	3.46	0.69	0.98	0.28	0.51
1	25	0.98	4.25	3.12	4	0.62	2.64×3.15	3.94	0.47	5.88	5.12	0.59	0.59	4.37	3.66	0.73	0.98	0.28	0.51
1 1/4	32	1.26	4.62	3.50	4	0.62	2.64×3.15	3.94	0.47	6.38	—	0.63	0.63	4.57	3.82	0.89	0.98	0.28	0.51
1 1/2	40	1.57	5.00	3.88	4	0.62	4.25×4.25	6.14	0.83	6.94	7.09	0.63	0.63	6.97	5.67	1.08	1.77	0.35	0.59
2	50	2.05	6.00	4.75	4	0.75	4.84×4.84	6.14	0.98	7.94	8.27	0.79	0.79	7.52	6.22	1.42	1.77	0.35	0.59
2 1/2	65	2.64	7.00	5.50	4	0.75	6.89	8.66	1.34	—	9.84	0.87	0.91	10.47	7.40	2.40	3.35	0.43	0.79
3	80	3.07	7.50	6.00	4	0.75	7.91	8.66	1.65	10.37	11.02	0.87	0.91	11.02	7.95	2.48	3.94	0.59	1.10
4	100	3.94	9.00	7.50	8	0.75	9.49	10.12	1.97	12.93	13.39	0.87	0.94	12.95	9.49	3.07	4.72	0.59	1.10

TRUE UNION DIAPHRAGM VALVE TYPE 14 15mm - 50mm(1/2inch - 2inch)



FEATURES

Easy Maintenance

The valve body can be removed from the pipe line by loosening the union nuts at both ends.

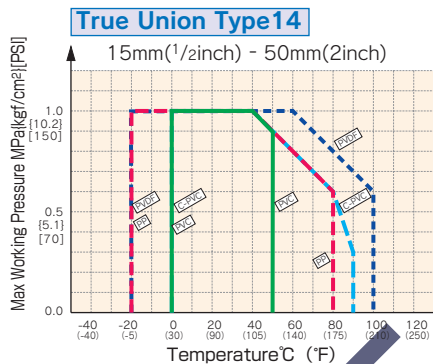
Bottom Stand for Easy Support

Having a new bottom stand with an insert hole, DIAPHRAGM VALVE TYPE 14 helps support the piping. The valve is also provided with a flange stand to increase installation safety.

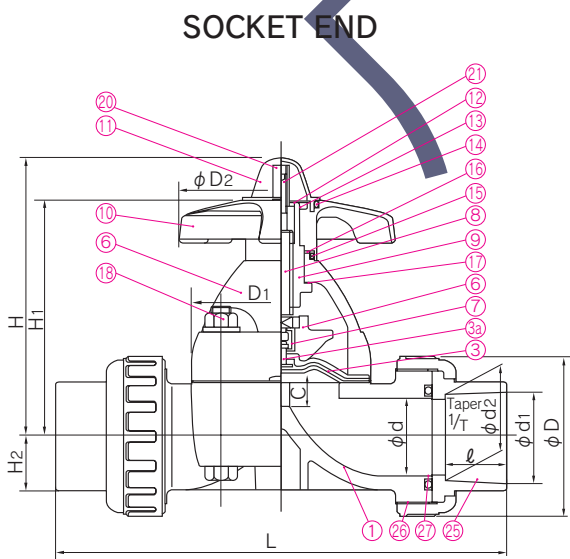
MATERIAL AND WORKING TEMPERATURE

Body Material	Nominal Size mm(inch)	Working Temperature °C (°F)	Max. Working Pressure at 20°C(70°F) MPa(kgf/cm²) [PSI]	End Connectors
Unplasticized Polyvinyl Chloride(PVC)	15 - 50(1/2 - 2)	0 - 50(30 - 120)	1.0{10.2} [150]	Socket End. Threaded End
Chlorinated Polyvinyl Chloride(C-PVC)	15 - 50(1/2 - 2)	0 - 90(30 - 195)	1.0{10.2} [150]	Socket End. Threaded End
Polypropylene(PP)	15 - 50(1/2 - 2)	-20 - 80(-5 - 175)	1.0{10.2} [150]	Socket End. Threaded End
Polyvinylidene Fluoride(PVDF)	15 - 50(1/2 - 2)	-20 - 100(-5 - 210)	1.0{10.2} [150]	Socket End. Threaded End. Spigot End

WORKING PRESSURE VS. TEMPERATURE



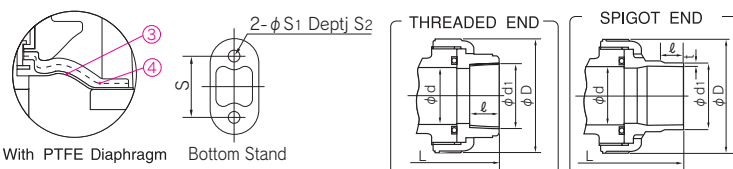
DIMENSION



PARTS & MATERIALS

No.	DESCRIPTION	Pcs.	MATERIAL	No.	DESCRIPTION	Pcs.	MATERIAL
①	BODY	1	BODY/BONNET PVC/PVC C-PVC/PP PP/PP PVDF/PPG PVDF/PVDF	⑪	GAUGE COVER	1	PC
				⑫	NAME PLATE	1	PVC
②	BONNET	1	EPDM IIR NBR,CSM CPE,FKM VIFLON C (FKM-C) VIFLON F (FKM-F) PTFE	⑬	RETAINING RING-C TYPE	1	STAINLESS STEEL304
				⑭	O-RING(A)	1	EPDM
③	DIAPHRAGM	1	EPDM IIR NBR,CSM CPE,FKM VIFLON C (FKM-C) VIFLON F (FKM-F) PTFE	⑮	O-RING(B)	1	EPDM
				⑯	THRUST RING(A)	1	UHMWPE
④	CUSHION	1	EPDM *	⑰	THRUST RING(B)	1	UHMWPE
				⑱	BOLT-NUT	4	STAINLESS STEEL304
⑤	COMPRESSOR	1	PVDF	⑲	STOPPER	1	COPPER ALLOY(C3604)
				⑳	SCREW	1	STAINLESS STEEL304
⑥	JOINT	1	STAINLESS STEEL304	㉑	ENDCONNECTOR	2	PVC C-PVC PP PVDF
				㉒	UNION NUT	2	PVDF
⑦	STEM	1	COPPER ALLOY (C3604)	㉓	O-RING(C)	2	EPDM FKM Others
⑩	HAND WHEEL	1	PP				

*With PTFE Diaphragm



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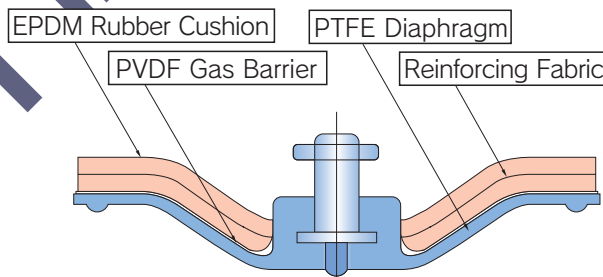
DIMENSIONS TABLE

DIN		Unit:mm																													
Nominal Size	d	Socket End								Threaded End				Spigot End								D	D ₁	D ₂	C (LIFT)	H	H ₁	H ₂	S	S ₁	S ₂
		PVC, C-PVC				PP, PVDF				DIN 2999		L		PVC		PP, PVDF															
		DIN 8063		DIN 16962(PP)		d ₁		ℓ		d ₁	ℓ	PVC, C-PVC	PP, PVDF	d ₁	ℓ	L	d ₁	ℓ	t	t	L										
mm	inch	d ₁	ℓ	L	d ₁	d ₂	ℓ	L	d ₁	ℓ	PVC, C-PVC	PP, PVDF	d ₁	ℓ	L	d ₁	ℓ	t	t	L											
15	1/2	16	20	16	128	19.5	19.3	14.5	125	Rp 1/2	15	128	128	20	18.5	150	20	18.5	2.5	1.9	150	48	54×66	100	10	104	86	19.5	25	7	13
20	3/4	20	25	19	147	24.5	24.3	16	141	Rp 3/4	17	148	148	25	24	172	25	22	2.7	1.9	172	60	54×66	100	10	106	88	17.5	25	7	13
25	1	25	32	22	172	31.5	31.3	18	164	Rp 1	20	172	172	32	24.5	195	32	22.5	3.0	2.4	195	70	67×80	100	12	111	93	18.5	25	7	13
32	1 1/4	32	40	26	188	39.45	39.2	20.5	177	Rp 1 1/4	22	188	188	40	28	212	40	26	3.7	2.4	212	82	67×80	100	12	116	97	22.5	25	7	13
40	1 1/2	40	50	31	246	49.45	49.2	23.5	231	Rp 1 1/2	25	245	245	50	34	276	50	32	4.6	3.0	276	100	108×108	156	21	177	144	27.5	45	9	15
50	2	52	63	38	294	62.5	62.1	27.5	274	Rp 2	28	281	278	63	38.5	308	63	36	5.8	3.0	307	106	123×123	156	25	191	158	36	45	9	15

ANSI		Unit:inch																							
Nominal Size	d	Socket End								Threaded End				D	D ₁	D ₂	C (LIFT)	H	H ₁	H ₂	S	S ₁	S ₂		
		PVC, C-PVC				PP, PVDF(IPS)				ANSI/ASME B1.20.1		L													
		ASTM SCH80			L	d ₁	ℓ	L	d ₁	ℓ	PVC, C-PVC	PP, PVDF													
inch	mm	d ₁	d ₂	ℓ	L	d ₁	ℓ	L	d ₁	ℓ	PVC, C-PVC	PP, PVDF													
1/2	15	0.63	0.848	0.836	0.875	5.47	0.83	0.87	5.43	1/2-14NPT	0.59	5.04	5.04	1.89	2.13×2.60	3.94	0.39	4.09	3.39	0.77	0.98	0.28	0.51		
3/4	20	0.79	1.058	1.046	1.000	6.18	1.03	1.00	6.09	3/4-14NPT	0.67	5.83	5.83	2.36	2.13×2.60	3.94	0.39	4.17	3.46	0.69	0.98	0.28	0.51		
1	25	0.98	1.325	1.310	1.125	7.32	1.30	1.13	7.24	1-11 1/2 NPT	0.79	6.77	6.77	2.76	2.64×3.15	3.94	0.47	4.37	3.66	0.73	0.98	0.28	0.51		
1 1/4	32	1.26	1.670	1.655	1.250	7.95	1.65	1.25	7.80	1 1/4-11 1/2 NPT	0.87	7.40	7.40	3.23	2.64×3.15	3.94	0.47	4.57	3.82	0.89	0.98	0.28	0.51		
1 1/2	40	1.57	1.912	1.894	1.375	10.47	1.89	1.37	10.28	1 1/2-11 1/2 NPT	0.98	9.65	9.65	3.94	4.25×4.25	6.14	0.83	6.97	5.67	1.08	1.77	0.35	0.59		
2	50	2.05	2.387	2.369	1.500	11.54	2.36	1.50	11.54	2-11 1/2 NPT	1.10	11.06	10.95	4.17	4.84×4.84	6.14	0.98	7.52	6.22	1.42	1.77	0.35	0.59		

DIAPHRAGM VALVE TYPE 14

- We recommend that a PVDF Gas Barrier should be installed with PTFE DIAPHRAGM VALVE if it is used in an application that has corrosive gas.
- Temperature variations during operation or long periods of storage may cause the diaphragm to settle. In this case, it is recommended to check bonnet bolt torque, prior to installation (See the table below).



Diaphragm with PVDF Gas Barrier

▼ Tightening Torque for Diaphragm Valve Bonnet for TYPE 14

Unit:N·m(kgf·cm)

Nominal Size mm(inch)	15 (1/2)	20 (3/4)	25 (1)	32 (1 1/4)	40 (1 1/2)	50 (2)	65 (2 1/2)	80 (3)	100 (4)
Rubber Diaphragm	3.0 {31}	3.0 {31}	5.0 {51}	5.0 {51}	12.0 {122}	15.0 {153}	13.0 {133}	18.0 {184}	35.0 {357}
PTFE Diaphragm	5.0 {51}	5.0 {51}	8.0 {82}	8.0 {82}	15.0 {153}	20.0 {204}	15.0 {153}	20.0 {204}	40.0 {408}

DIAPHRAGM VALVE TYPE 15 125mm, 150mm(5inch, 6inch)

Flanged End type

- 125mm(5inch) · 150mm(6inch)



FEATURES

■ Improved outside sealing ability

By means of 3D CAD/CAE analysis, Type 15 diaphragm valve has increased body thickness. In addition, using the elastomer that has high impact resilience, the sealing ability of valve is improved against high temperature changes.

■ Easier to operate

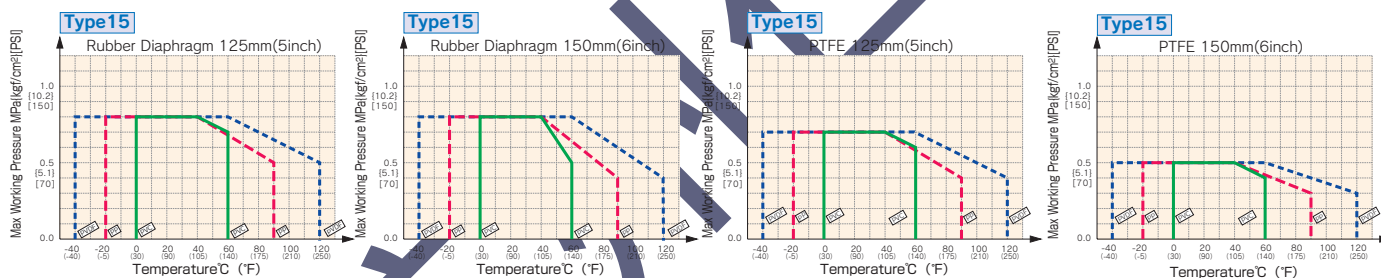
In order to reduce frictional force, material and shape of sliding parts are redesigned.

Also improved hand wheel design which allows for easy operation.

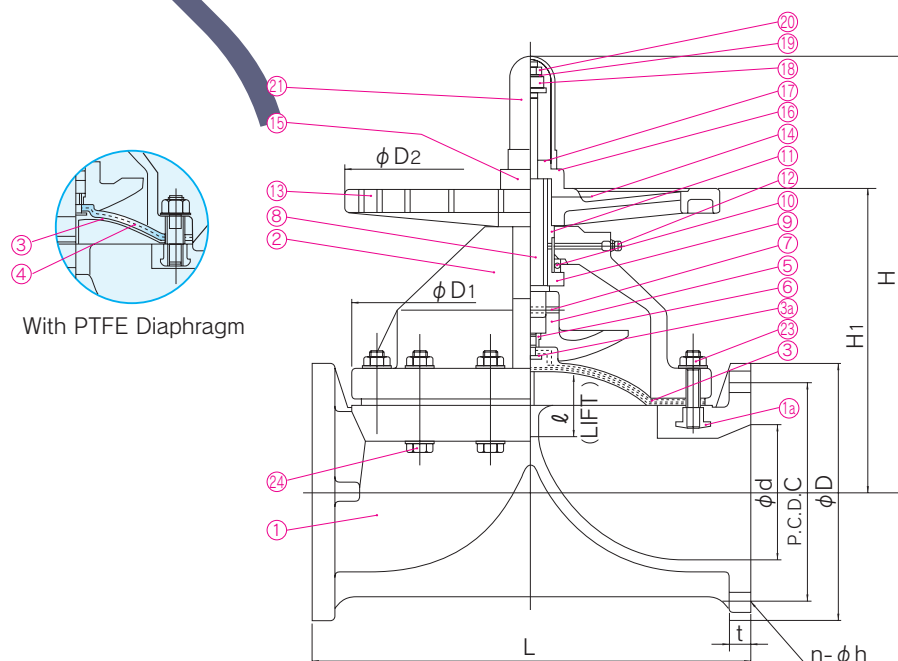
MATERIAL AND WORKING TEMPERATURE

Body material	Nominal size mm(inch)	Working Temperature °C (°F)	Max. Working Pressure at 20°C (70°F) MPa{kgf/cm²} [PSI]			
			Rubber Diaphragm		PTFE Diaphragm	
			125mm(5inch)	150mm(6inch)	125mm(5inch)	150mm(6inch)
PVC	125(5) · 150(6)	0 - 60(30 - 140)	0.8{8.2}[115]	0.8{8.2}[115]	0.7{7.1}[100]	0.5{5.1}[70]
PP	125(5) · 150(6)	-20 - 90(-5 - 195)	0.8{8.2}[115]	0.8{8.2}[115]	0.7{7.1}[100]	0.5{5.1}[70]
PVDF	125(5) · 150(6)	-40 - 120(-40 - 250)	0.8{8.2}[115]	0.8{8.2}[115]	0.7{7.1}[100]	0.5{5.1}[70]

WORKING PRESSURE VS. TEMPERATURE



DIMENSION



PARTS & MATERIALS

No.	DESCRIPTION	Pcs.	MATERIAL	No.	DESCRIPTION	Pcs.	MATERIAL
①	BODY	1	BODY/BONNET PVC/PVC PP/PP	⑪	O-RING(A)	1	NBR
				⑫	GREASE NIPPLE	1	COPPER ALLOY (C3604)
②	BONNET	1	PVDF/PPG PVDF/PVDF	⑬	HAND WHEEL	1	PP
				⑭	NAME PLATE	1	PVC
③	DIAPHRAGM	1	EPDM,PTFE,FKM,NBR VIFLON F (FKM-F) VIFLON C (FKM-C)	⑮	CAP	1	PP
				⑯	SHEET GASKET(A)	1	EPDM
				⑰	SHEET RING	1	STAINLESS STEEL304
⑱	STOPPER	1	Chromized STEEL (SS400)				
⑳	SPRING WASHER	1	STAINLESS STEEL304				
㉑	SET NUT	1	STAINLESS STEEL304				
㉒	GAUGE COVER	1	POLYCARBONATE				
㉓	STUD BOLT·NUT	4	STAINLESS STEEL304				
㉔	BOLT·NUT	—	STAINLESS STEEL304				
㉕	INSERTED NUT	4	COPPER ALLOY ²⁾ STAINLESS STEEL304 ³⁾				
㉖	THRUST BEARING(A)	1	HIGH CARBON CHROMIUM BEARING(SUJ2)				

Note : 1) Used for PTFE diaphragm
 2) Used for PVC,PP Body
 3) Used for PVDF Body

DIMENSIONS TABLE

DIN											Unit:mm			
Nominal Size		d	DIN 2501 PN10				L	t		D ₁	D ₂	ℓ	H	H ₁
mm	inch		D	C	n	h		PVC	PP,PVDF					
125	5	125	250	210	8	18	400	22	23	320	300	60	420	308
150	6	148	285	240	8	22	480	24	27	385	410	70	476	334

ANSI											Unit:inch			
Nominal Size		d	ANSI CLASS 150				L	t		D ₁	D ₂	ℓ	H	H ₁
inch	mm		D	C	n	h		PVC	PP,PVDF					
5	125	4.92	10.00	8.50	8	0.88	16.14	0.87	0.94	12.60	11.81	2.36	16.54	12.13
6	150	5.83	11.00	9.50	8	0.88	18.90	0.94	1.06	15.16	16.14	2.76	18.74	13.15

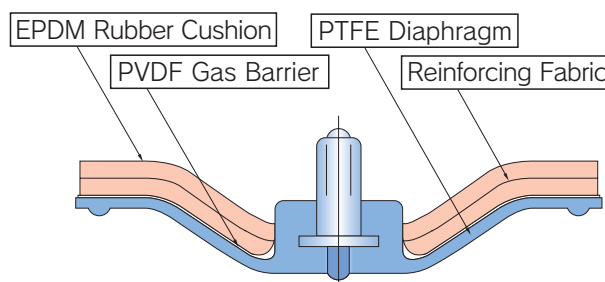
DIAPHRAGM VALVE TYPE 15

- We recommend that a PVDF gas barrier should be installed with PTFE DIAPHRAGM VALVE if it is used in an application that has corrosive gas.
- Temperature variations during operation or long periods of storage may cause the diaphragm to settle. In this case, it is recommended to check bonnet bolt torque, prior to installation(See the table below).

▼ Tightening Torque for Diaphragm Valve Bonnet for TYPE 15

Unit:N·m{kgf·cm}

Material	Nominal Size	125	150
	mm(inch)	(5)	(6)
Rubber Diaphragm		45.0 {459}	45.0 {459}
PTFE Diaphragm		45.0 {459}	45.0 {459}



Diaphragm with PVDF Gas Barrier

DIAPHRAGM VALVE TYPE 72 200mm, 250mm(8inch, 10inch)

● 200mm(8inch)·250mm(10inch)



FEATURES

Sealed Bonnet

Having a sealed bonnet with an O-ring, prevents rain water or external atmosphere from entering the bonnet, DIAPHRAGM VALVE TYPE 72 can be safely used outdoors.

Sealed Indicator

Because a clear indicator gauge protects the exposed metallic part on top of the stem against atmosphere, corrosive gas or fluid does not of the valve.

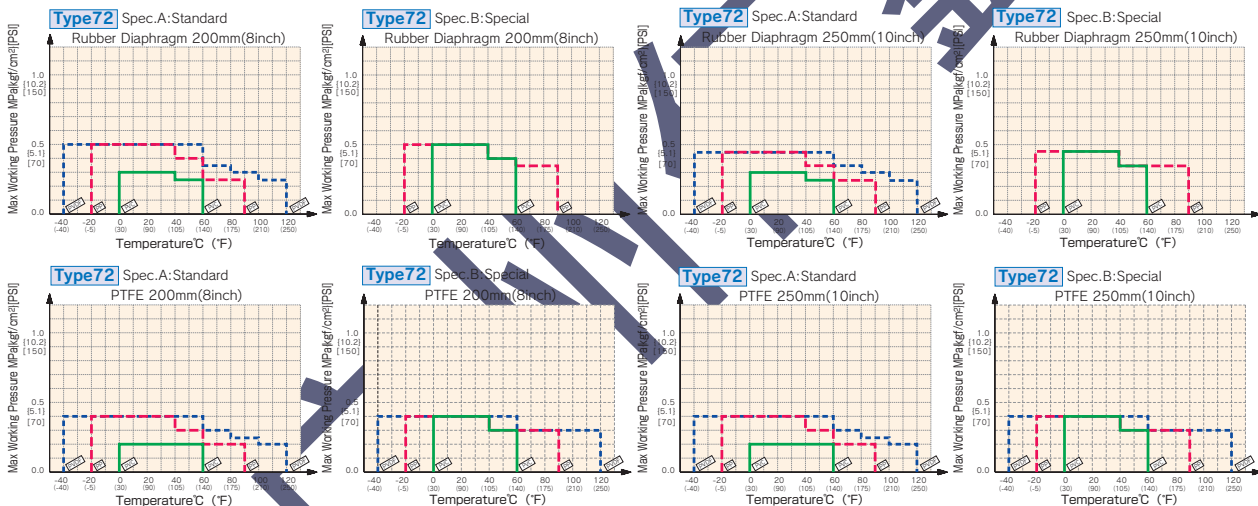
Position Indication

The position indicator also shows the degree of the valve position.

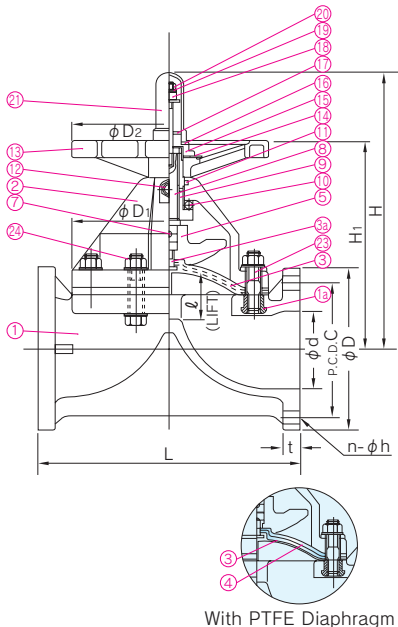
MATERIAL AND WORKING TEMPERATURE

Body material	Nominal size mm(inch)	Working Temperature °C (°F)	Max. Working Pressure at 20°C(70°F) MPa{kgf/cm²} [PSI]			
			Rubber Diaphragm		PTFE Diaphragm	
			200mm(8inch)	250mm(10inch)	200mm(8inch)	250mm(10inch)
PVC	200(8)·250(10)	0 - 60(30 - 140)	0.3{3.1}[40]	0.3{3.1}[40]	0.2{2.0}[30]	0.2{2.0}[30]
PP	200(8)·250(10)	-20 - 90(-5 - 195)	0.5{5.1}[70]	0.45{4.6}[65]	0.4{4.1}[55]	0.4{4.1}[55]
PVDF	200(8)·250(10)	-40 - 120(-40 - 250)	0.5{5.1}[70]	0.45{4.6}[65]	0.4{4.1}[55]	0.4{4.1}[55]

WORKING PRESSURE VS. TEMPERATURE



DIMENSION



PARTS & MATERIALS

No.	DESCRIPTION	Pcs.	MATERIAL	No.	DESCRIPTION	Pcs.	MATERIAL
①	BODY	1	BODY/BONNET PVC/PVC PP/PP PVDF/PPG PVDF/PVDF	⑪	O-RING(A)	1	NBR
②	BONNET	1		⑫	GREASE NIPPLE	1	COPPER ALLOY (C3604)
③	DIAPHRAGM	1	EPDM,PTFE,FKM,NBR VIFLON F (FKM-F) VIFLON C (FKM-C)	⑬	HAND WHEEL	1	PP
				⑭	NAME PLATE	1	PVC
				⑮	CAP	1	PP
④	CUSION ¹⁾	1	EPDM	⑯	SEAT GASKET(A)	1	EPDM
⑤	COMPRESSOR	1	GRAY IRON CASTING	⑰	SEAT RING	1	STAINLESS STEEL304
⑥	COMPRESSOR NUT	1	COPPER ALLOY (C3604)	⑱	STOPPER	1	CHROMIZED STEEL (S5400)
⑦	COMPRESSOR PIN	1	STAINLESS STEEL304	⑲	SPRING WASHER	1	STAINLESS STEEL304
⑧	STEM	1	SUM23	⑳	SET NUT	1	STAINLESS STEEL304
⑨	SLEEVE(A)	1	GRAY IRON CASTING	㉑	GAUGE COVER	1	POLYCARBONATE
⑩	THRUST BEARING(A)	1	HIGH CARBON CHROMIUM BEARING(SUJ2)	㉒	STUD BOLT·NUT	—	STAINLESS STEEL304
				㉓	BOLT·NUT	—	STAINLESS STEEL304
				㉔	INSERTED NUT	—	COPPER ALLOY (C3604) ²⁾ STAINLESS STEEL304 ³⁾
				㉕	INSERTED METAL OF DIAPHRAGM	1	STAINLESS STEEL304 Others

Note : 1) Used for PTFE Diaphragm
2) Used for PVC,PP Body
3) Used for PVDF Body

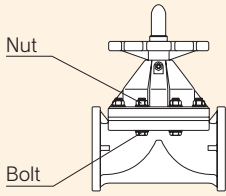
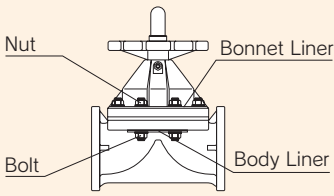
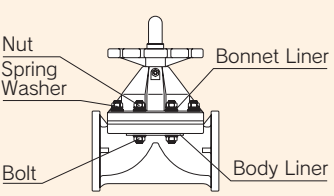
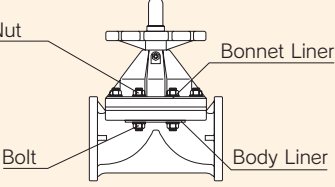
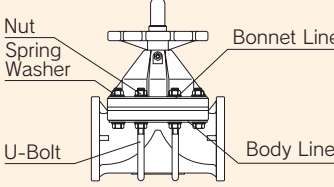
DIMENSIONS TABLE

DIN														Unit:mm	
Nominal Size		* d	DIN 2501 PN10				* D ₁	D ₂	ℓ	L	t		* H ₁	H	
mm	inch		C	* D	h	n					PVC	PP,PVDF			
200	8	196	295	340	22	8	430	410	95	600	30	34	419	627	
250	10	247	350	395	22	12	540	560	128	730	34	36	510	778	

*.....Standard dimensions based on PVC material

ANSI														Unit:inch	
Nominal Size		* d	ANSI CLASS 150				* D ₁	D ₂	ℓ	L	t		* H ₁	H	
inch	mm		C	* D	h	n					PVC,PP,PVDF				
8	200	7.72	11.75	13.50	0.88	8	16.93	16.14	3.74	22.44	1.26		16.50	24.69	
10	250	9.72	14.25	16.00	1.00	12	21.26	22.05	5.04	26.77	1.46		20.08	30.63	

*.....Standard dimensions based on PVC material

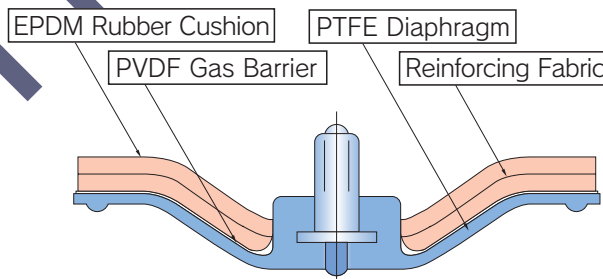
SPEC. A (Standard)	Body Material:PVC Diaphragm Material : Rubbers or PTFE		Body Material:PP Diaphragm Material : Rubbers or PTFE		Body Material:PVDF Diaphragm Material : Rubbers or PTFE	
	SPEC. B (Special)	Body Material:PVC Diaphragm Material : Rubbers or PTFE		Body Material:PP Diaphragm Material : Rubbers or PTFE		Body Material:PVDF Diaphragm Material : PTFE

DIAPHRAGM VALVE TYPE 72

- We recommend that a PVDF Gas Barrier should be installed with PTFE DIAPHRAGM VALVE if it is used in an application that has corrosive gas.
- Temperature variations during operation or long periods of storage may cause the diaphragm to settle. In this case, it is recommended to check bonnet bolt torque,prior to installation(See the table below).

▼ Tightening Torque for Diaphragm Valve Bonnet for TYPE 72

Material	Nominal Size	Unit:N•m(kgf•cm)	
	mm(inch)	200 (8)	250 (10)
Rubber Diaphragm		25.0 {255}	25.0 {255}
PTFE Diaphragm		25.0 {255}	25.0 {255}



Diaphragm with PVDF Gas Barrier

MATERIAL AND WORKING TEMPERATURE (SPEC. B-Special)

Body material	Nominal size mm(inch)	Working Temperature °C (°F)	Max. Working Pressure at 20°C(70°F) MPa(kgf/cm ²) [PSI]			
			Rubber Diaphragm		PTFE Diaphragm	
			200mm(8inch)	250mm(10inch)	200mm(8inch)	250mm(10inch)
PVC	200(8)•250(10)	0 - 60(30 - 140)	0.5{5.1}[70]	0.45{4.6}[65]	0.4{4.1}[55]	0.4{4.1}[55]
PP	200(8)•250(10)	-20 - 90(-5 - 195)	0.5{5.1}[70]	0.45{4.6}[65]	0.4{4.1}[55]	0.4{4.1}[55]
PVDF	200(8)•250(10)	-40 - 120(-40 - 250)	—	—	0.4{4.1}[55]	0.4{4.1}[55]

DIAPHRAGM VALVE/Chlor-Alkali Specification & EL Specification

FEATURES

As a solution for blister or crack problem on the surface of the valve body or the diaphragm in the severe working conditions especially for Chlor/Brine application, we prepared a special specification "EL-Specification".

The "EL-Specification", which has EL-PVDF body and EL-PTFE diaphragm, provides excellent chemical resistance and longer product life.

According to the result of our field tests, it is confirmed that the "EL-Specification" has 2 to 5 times longer product life than standard "C/A Specification" in the same working condition.



The detail of EL-Specification

Feature:To prevent the generation of blister and crack by applying special material.

Medium:High temperature brine, Sodium hypochlorite, Hydrofluoric acid and so on.

Countermeasure:for blister, crack, peeling-off and so on.

Parts:EL-PVDF(Body) and EL-PTFE(Diaphragm)

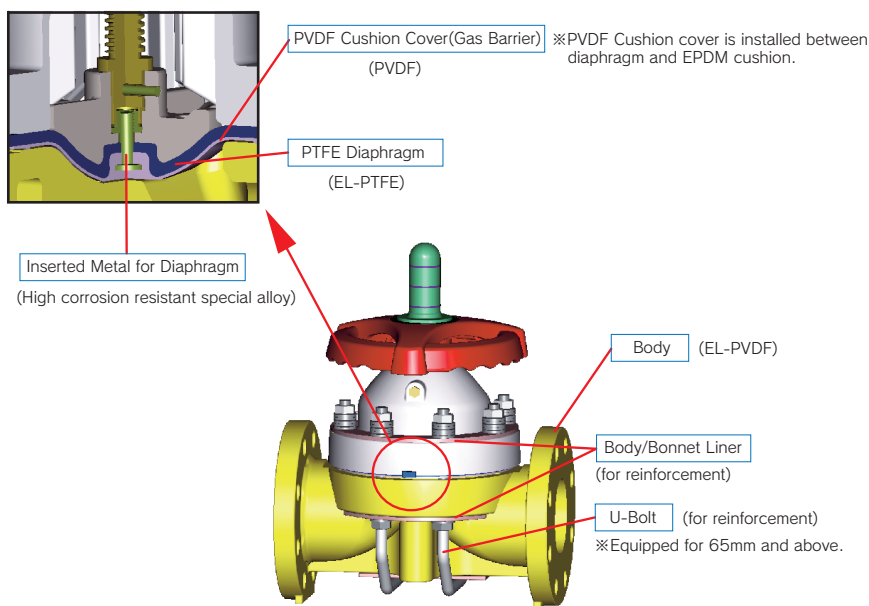
Target:Chlor/Alkali industry, pulp & paper industry, steel industry and so on.

Reference:Many factories especially in Electrolysis plants in world wide.

Size

15mm (1/2inch) - 100mm (4inch)

Contents of EL-Specification



Field Test Result



EL-PVDF/No blister is observed



PVDF/Blister is observed

{ Electrolysis Plant/ Return Brine }
88°C, 0.3MPa, after 5years service

Comparison table between EL-Specification and Chlor/Alkali specification

Specification	Parts	Body	PTFE Diaphragm	Inserted Metal for PTFE Diaphragm	PVDF Cushion Cover	Remark
EL Spec.		EL-PVDF	EL-PTFE	Special Alloy	Equipped	c/w Body/Bonnet Liner and Conical Spring Washer
C/A Spec.		PVDF	PTFE	Special Alloy	Equipped	c/w Body/Bonnet Liner and Conical Spring Washer

Note : Please contact us for further information.



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