

ASAHI **AV** VALVE AND PIPING SYSTEMS

ASAHI **AV** VALVES

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



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FEATURES

Easy Maintenance

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

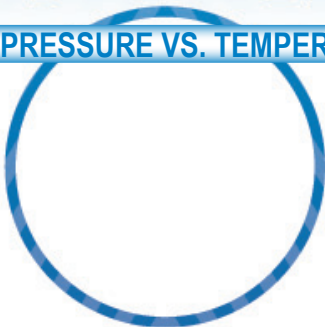
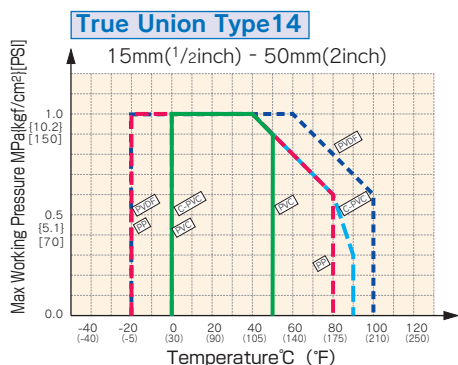
Bottom Stand for Easy Support

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

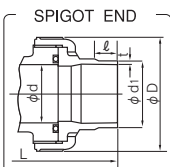
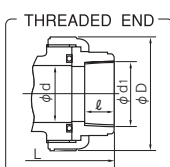
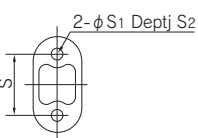
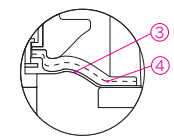
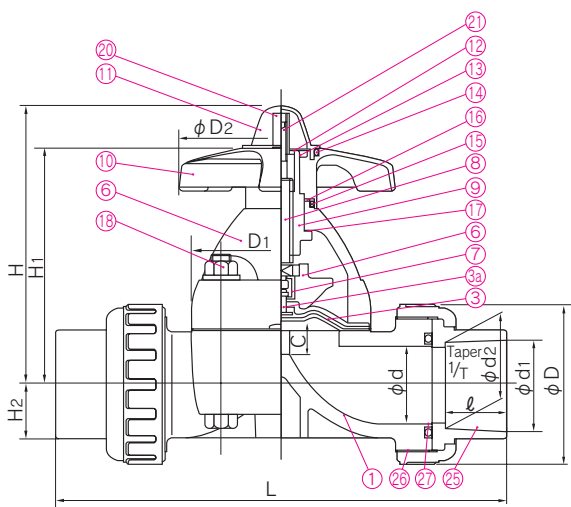
Body Material	Nominal Size mm(inch)	Working Temperature °C (°F)	Max. Working Pressure at 20°C(70°F) MPa[kgf/cm²] [PSI]	End Connectors
Unplasticized Polyvinyl Chloride(PVC)	15 - 50(1/2 - 2)	0 - 50(30 - 120)	1.0{10.2} [150]	Socket End. Threaded End
Chlorinated Polyvinyl Chloride(C-PVC)	15 - 50(1/2 - 2)	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

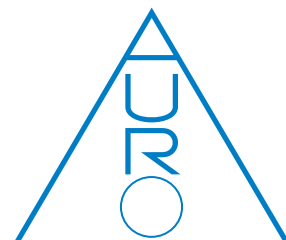
SOCKET END



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		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
				⑰	THRUST RING(B)	1	UHMWPE
				⑱	BOLT-NUT	4	STAINLESS STEEL304
				⑲	STOPPER	1	COPPER ALLOY(C3604)
⑳	INSERTED METAL OF DIAPHRAGM	1	STAINLESS STEEL304	㉑	SCREW	1	STAINLESS STEEL304
④	CUSHION	1	EPDM *	㉒	ENDCONNECTOR	2	PVC C-PVC PP PVDF
⑥	COMPRESSOR	1	PVDF	⑳	UNION NUT	2	EPDM FKM Others
⑦	JOINT	1	STAINLESS STEEL304	㉓	O-RING(C)	2	
⑧	STEM	1	COPPER ALLOY (C3604)				
⑨	SLEEVE	1	COPPER ALLOY (C3604)				
⑩	HAND WHEEL	1	PP				

*With PTFE Diaphragm



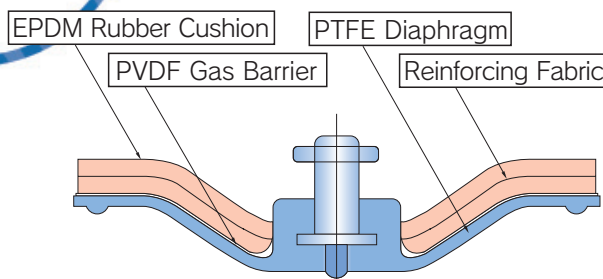
DIMENSIONS TABLE

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)		DIN 2999		L		DIN 3441		L		DIN 3442		PP	PVDF	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 1/2NPT	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 1/2NPT	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 1/2NPT	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 1/2NPT	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}



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