ASAHI AV VALVE

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.

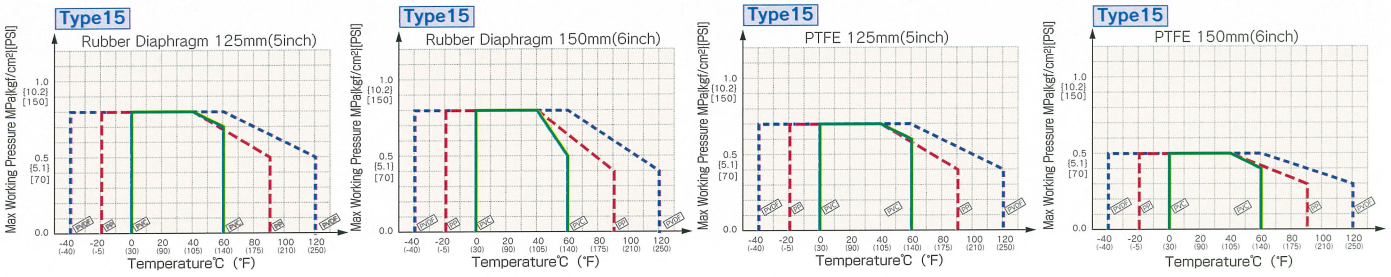
Easier to operate

In order to reduce frictional force, material and shape of sliding parts are redesigned.
Also improved hand wheel design which allows for easy operation.

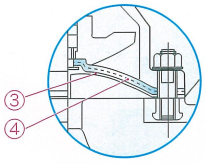
MATERIAL AND WORKING TEMPERATURE

Body material	Nominal size mm(inch)	Working Temperature ℃(°F)	Max. Working Pressure at 20℃(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]

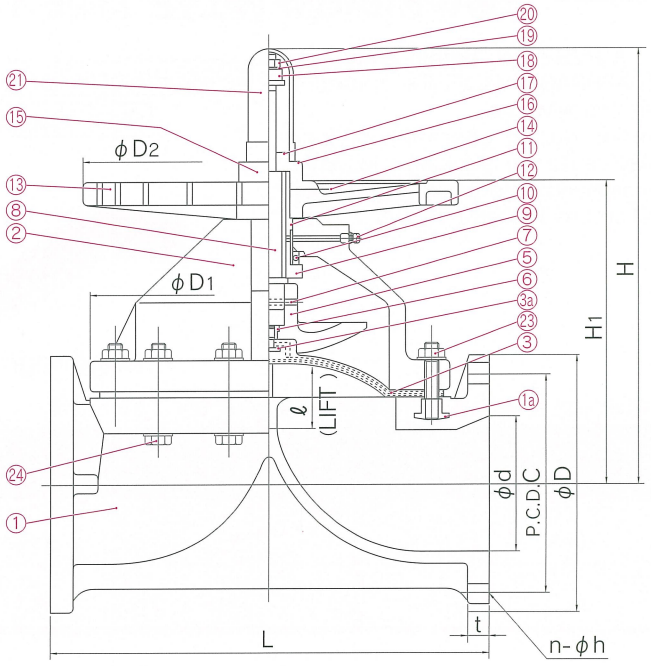
WORKING PRESSURE VS. TEMPERATURE



DIMENSION



With PTFE Diaphragm



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
				⑯	SHEET GASKET(A)	1	EPDM
				⑰	SHEET RING	1	STAINLESS STEEL304
③a	INSERTED METAL OF DIAPHRAGM	1	STAINLESS STEEL304 Others	⑱	STOPPER	1	Chromized STEEL(SS400)
				⑲	SPRING WASHER	1	STAINLESS STEEL304
④	CUSION[1)]	1	EPDM	⑳	SET NUT	1	STAINLESS STEEL304
⑤	COMPRESSOR	1	PVDF	㉑	GAUGE COVER	1	POLYCARBONATE
⑥	COMPRESSOR NUT	1	COPPER ALLOY(C3604)	㉓	STUD BOLT·NUT	4	STAINLESS STEEL304
⑦	COMPRESSOR PIN	1	STAINLESS STEEL304	㉔	BOLT·NUT	–	STAINLESS STEEL304
⑧	STEM	1	COPPER ALLOY	⑱a	INSERTED NUT	4	COPPER ALLOY[2)] STAINLESS STEEL304[3)]
⑨	SLEEVE(A)	1	COPPER ALLOY				
⑩	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

JIS Unit:mm

Nominal Size		d	JIS 10K				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	23	410	22	24	320	300	60	420	308
150	6	148	280	240	8	23	480	24	27	385	410	70	476	334

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

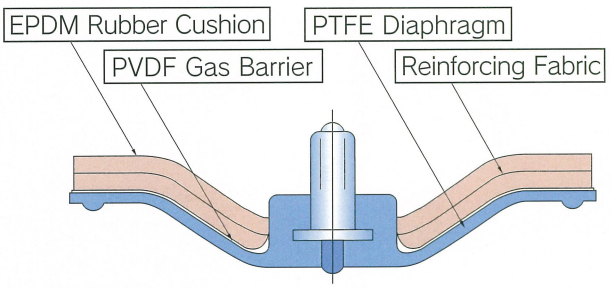
DIAPHRAGM VALVE TYPE 15

- 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 mm(inch)	125 (5)	150 (6)
Rubber Diaphragm	45.0 {459}	45.0 {459}
PTFE Diaphragm	45.0 {459}	45.0 {459}



Diaphragm with PVDF Gas Barrier