

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.

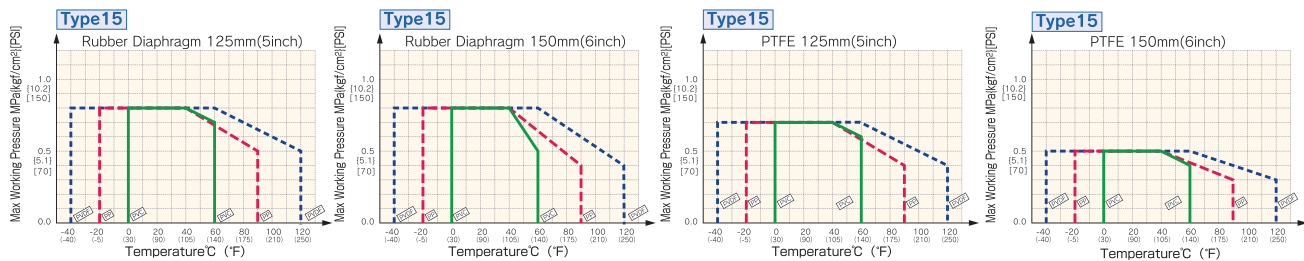
Easier to operate

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

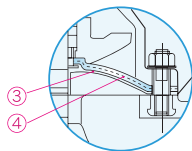
MATERIAL AND WORKING TEMPERATURE

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]

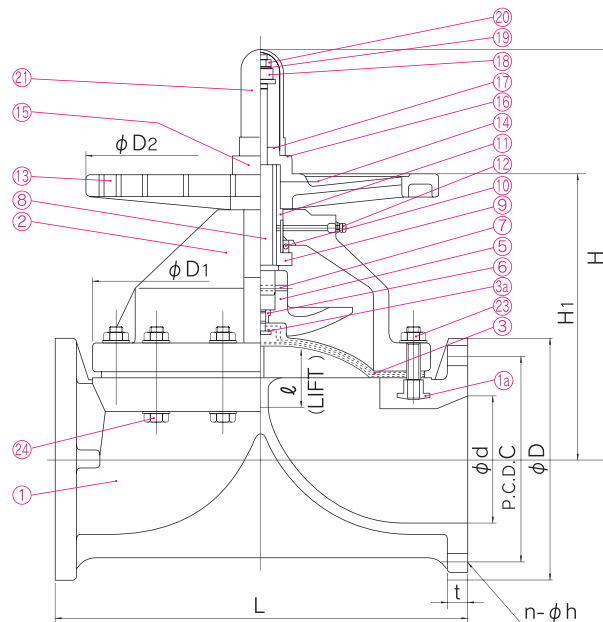
WORKING PRESSURE VS. TEMPERATURE



DIMENSION



With PTFE Diaphragm



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
②	BONNET	1	PVDF/PPG PVDF/PVDF	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
④	INSERTED METAL OF DIAPHRAGM	1	STAINLESS STEEL304 Others	⑭	NAME PLATE	1	PVC
⑤	CUSION ¹⁾	1	EPDM	⑮	CAP	1	PP
⑥	COMPRESSOR	1	PVDF	⑯	SHEET GASKET(A)	1	EPDM
⑦	COMPRESSOR NUT	1	COPPER ALLOY(C3604)	⑰	SHEET RING	1	STAINLESS STEEL304
⑧	COMPRESSOR PIN	1	STAINLESS STEEL304	⑱	STOPPER	1	Chromized STEEL(SS400)
⑨	STEM	1	COPPER ALLOY	⑲	SPRING WASHER	1	STAINLESS STEEL304
⑩	SLEEVE(A)	1	COPPER ALLOY	⑳	SET NUT	1	STAINLESS STEEL304
⑩	THRUST BEARING(A)	1	HIGH CARBON CHROMIUM BEARING(SUJ2)	㉑	GAUGE COVER	1	POLYCARBONATE
				㉒	STUD BOLT·NUT	4	STAINLESS STEEL304
				㉓	BOLT·NUT	—	STAINLESS STEEL304
				㉔	INSERTED NUT	4	COPPER ALLOY ²⁾ STAINLESS STEEL304 ³⁾

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

DIMENSIONS TABLE

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

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

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

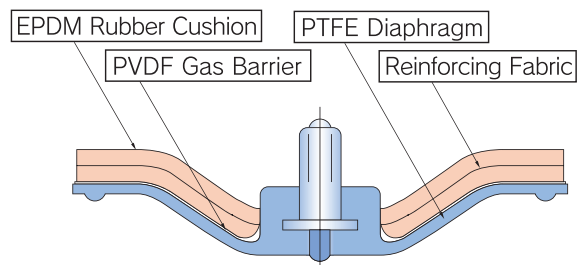
DIAPHRAGM VALVE TYPE 15

- 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