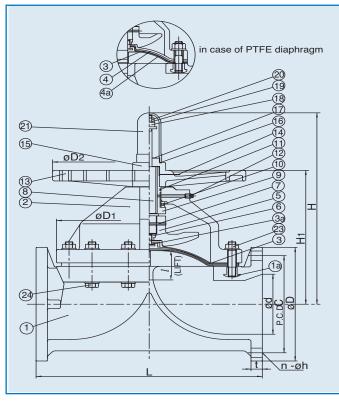


Type-15 Flanged Diaphragm

Standard Features (Sizes 5"-6")

- Flanged face-to-face dimensions are equivalent to those of Type-G diaphragm valve
- Rugged body and bonnet are of solid thermoplastic • for maximum corrosion resistance
- Bubble-tight sealing, even in applications such as • slurries or suspended particles



Dimensions Type 15 Flanged (Sizes 5" - 6")

Sizes: Body Materials: Bonnet Materials: Diaphragms:	Specifications 5" – 6" PVC, PP and PVDF PVC, PP, PPG and PVDF EPDM and 3-Layer EPDM/PVDF/PTFE
End Connection: Operator:	Also available in Nitrile Flanged Handwheel

Parts List (Sizes 5" - 6")

PARTS													
NO.	DESCRIPTION	PCS.	MATERIAL										
1	Body	1	PVC, PP, PVDF										
2	Bonnet	1	PVC, PPG, PP, PVDF										
З	Diaphragm	1	EPDM, PTFE, Others										
За	Diaphragm Metal Insert	1	Stainless Steel 304										
4	Cushion*	1	EPDM										
4a	PVDF Gas Barrier*	1	PVDF										
5	Compressor	1	PVDF										
6	Compressor Nut	1	Copper Alloy										
7	Compressor Pin	1	Stainless Steel 304										
8	Stem	1	Copper Alloy										
9	Sleeve (A)	1	Copper Alloy										
10	Thrust Bearing (A)	1	High Carbon Chromium Bearing										
11	O-Ring (A)	1	NBR										
12	Grease Nipple	1	Copper Alloy										
13	Hand Wheel	1	PP										
14	Name Plate	1	PVC										
15	Сар	1	PP										
16	Sheet Gasket (A)	1	EPDM										
17	Sheet Ring	1	Stainless Steel 304										
18	Stopper	1	Chromized Steel										
20	Nut	1	Stainless Steel 304										
21	Gauge Cover	1	PC										
23	Stud Bolt, Nut	4 Sets	Stainless Steel 304, Others										
24	Bolt, Nut, Washer	-	Stainless Steel 304										
1a	Inserted Nut	4	Stainless Steel 304 ¹										
Ia		4	Copper Alloy ²										

* Used for PTFE diaphragm ¹ Used for PVDF body ² Used for PVC, PP, bodies

Cv Values/Weight

NOMINAL	SIZE		AN	ISI CLAS	SS 1	50		t							NOMINA	L SIZE	Cv	WT.
INCHES	mm	d	С	D	n	h	L	PVC	PP. PVDF	D1	D2	ı	н	H1	INCHES	mm	υv	(lbs)
5	125	4.92	8.50	10.00	8	0.88	16.14	0.87	0.94	12.60	11.81	2.36	16.54	12.13	5	125	300	58.00
6	150	5.83	9.50	11.00	8	0.88	18.90	0.94	1.06	15.16	16.14	2.76	18.74	13.15	6	150	400	89.00

Type-15 Flanged

Diaphragm Valves

Standard Features

- Weir design for excellent throttling
- Uniquely designed body and bonnet together with diaphragms of new sealing designs by state-of-theart computer aided analysis for superior sealing
- Bonnet seals to protect internals from corrosive
 environments
- Built-in travel stop to prevent diaphragm from being overtightened
- Indicator at the top for valve position and prevention of overtightening
- PVDF gas barrier, which protects EPDM backing cushion from gas permeation, is standard for all valves with PTFE diaphragm

Options

- 2" square operating nut
- Stem extensions (single stem or two-piece stem)
- Chain operators
- Locking device for tamper proofing
- Manual limit switches for remote position indication by lights or for sequencing of other equipment

Troubleshooting

What if fluid leaks when valve is fully closed?

- 1. Travel stop not set correctly. Adjust it per the Asahi Operation and Maintenance manual.
- 2. Solids build up inside valve. Clean inside, including weir and diaphragm.
- Diaphragm and/or weir are worn or damaged. Change the part(s).

What if valve cannot be fully opened?

1. Diaphragm is not properly engaged with compressor. Check engagement per Operation and Maintenance manual.

What if fluid leaks to atmosphere?

- Bonnet bolts not properly torqued. Re-torque according to Operation and Maintenance manual.
- 2. Line pressure exceeds maximum recommended line pressure. Check or reduce system line pressure.
- 3. Diaphragm has ruptured or has been chemically attacked. Replace diaphragm.

Sample Specification

All Type-15 flanged diaphragm valves shall be of solid thermoplastic construction for body and bonnet with molded flanged ends. The valves shall come standard with a position indicator, travel stop (to prevent overtightening) and bonnet O-ring sealing arrangement. The valve shall be weir type with a round bonnet body sealing design and threaded stud diaphragm connection. All PTFE diaphragms shall be supplied with a PVDF gas barrier between the layers of EPDM and PTFE for aggressive chemical service. The face-to-face dimensions shall conform to Type-G. PVC conforming to ASTM D1784 Cell Classification 12454A, PP conforming to ASTM D4101 Cell Classification PPO210B67272, PPG (bonnet only) conforming to ASTM D4101 Cell Classification PPO110M20A21130, and PVDF conforming to ASTM D3222 Cell Classification Type II. PVC, and PP shall be rated to 115psi for elastomeric diaphragms at 70° F. PVC, PP and PVDF shall be rated to 100psi 5" and 70psi 6" for PTFE diaphragms at 70° F, as manufactured by Asahi/America, Inc.

NOMINAL			P∖	/C		PP						PVDF							
	ELASTOMERS		PTFE		ELASTOMERS			PTFE				ELAST	OMERS		PTFE				
SIZE		30° F	106° F	30° F	106° F	- 5°F	106° F	141° F	- 5° F	106° F	141° F	- 40° F	141° F	176° F	211° F	- 40° F	141° F	176° F	211° F
INCHES	mm	105° F	140° F	105° F	140° F	105° F	140° F	195° F	105° F	140° F	195° F	140° F	175° F	210° F	250° F	140° F	175° F	210° F	250° F
5	125	115	100	100	80	115	95	70	100	80	55	115	100	85	70	100	85	70	55
6	150	115	70	70	55	115	90	55	70	60	40	115	95	75	55	70	60	50	40

Pressure vs. Temperature psi, water, non-stock