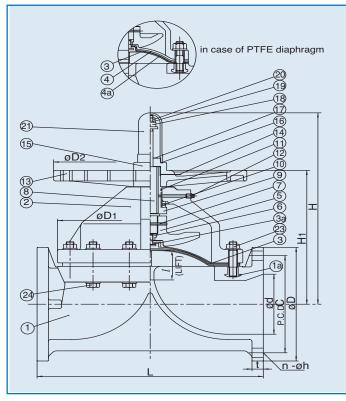


#### Standard Features (Sizes 5"-6")

- 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



#### Specifications

Sizes: 5" - 6"

Body Materials: PVC, PP and PVDF

Bonnet Materials: PVC, PP, PPG and PVDF

Diaphragms: EPDM and

3-Layer EPDM/PVDF/PTFE

Also available in Nitrile

End Connection: Flanged
Operator: Handwheel

### Parts List (Sizes 5" - 6")

PARTS												
NO.	DESCRIPTION	PCS.	MATERIAL									
1	Body	1	PVC, PP, PVDF									
2	Bonnet	1	PVC, PPG, PP, PVDF									
3	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	Cap	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 3041									
Ta	IIISGI UGU TVUU	7	Copper Alloy <sup>2</sup>									

<sup>\*</sup> Used for PTFE diaphragm <sup>1</sup> Used for PVDF body <sup>2</sup> Used for PVC, PP, bodies

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

NOMINAL SIZE			AN	ISI CLAS	SS 1	50			t						
INCHES	mm	d	С	D	n	h	L	PVC	PP. PVDF	D1	D2	l	Н	H1	
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	
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	

# Cv Values/Weight

NOMINA	L SIZE	Cv	WT. (lbs)			
INCHES	mm	CV				
5	125	300	58.00			
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?

- 1. 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.

# Pressure vs. Temperature psi, water, non-stock

		PV	/C		PP						PVDF								
NOMINAL SIZE		ELASTOMERS		PTFE		ELASTOMERS			PTFE			ELASTOMERS				PTFE			
		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