

Parts List (Sizes 5" - 6")

PARTS											
NO.	DESCRIPTION	PCS.	MATERIAL								
1	Body	1	PVC, PP, PVDF								
2	Bonnet	1	PVC, PP, PPG, PVDF								
3	Diaphragm	1	EPDM, PTFE, Others								
3a	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								
Id	mserteu nut	4	Copper Alloy ²								

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

ANSI CLASS 150

D

SIZE

mm

d

C

INCHES

Specifications

Sizes: 5" - 6"

Body Materials: PVC, PP and PVDF

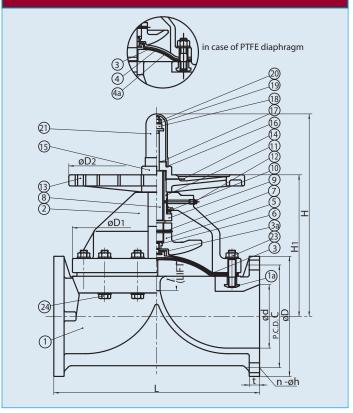
Bonnet Materials: PVC, PP, PPG and PVDF

Diaphragms: EPDM and

3-Layer EPDM/PVDF/PTFE

Also available in Nitrile

End Connection: Flanged Operator: Handwheel



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

Cv Values/Weight

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

h

L

NOMINAL SIZE Cv PVC PP, PVDF D2 Η H1 INCHES mm 0.94 12.60 11.81 2.36 16.54 12.13 125

WT.

(lbs)

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 the state-of-the-art computer aided analysis for superior sealing
- Bonnet seals to protect internals from corrosive environments
- Built-in travel stop to prevent diaphragm from being over-tightened
- Indicator at the top for valve position and prevention of over-tightening
- 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. Retorque 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-toface dimensions shall conform to TYPE G. PVC conforming to ASTM D1784 Cell Classification 12454-A, PP conforming to ASTM D4101 Cell Classification PP0210B67272, PPG (Bonnet Only) conforming to ASTM D4101 Cell Classification PP0110M20A21130, and PVDF conforming to ASTM D3222 Cell Classification Type II. PVC, and PP shall be rated to 115 psi for elastomeric diaphragms at 70 degrees F. PVC, PP and PVDF shall be rated to 100 psi (5") and 70 psi (6") for PTFE diaphragms at 70 degrees F., as manufactured by Asahi/America, Inc.

Pressure vs. Temperature PSI, WATER, NON-SHOCK

NOMINAL	PVC				PP						PVDF								
SIZE		ELASTOMERS		PTFE		ELASTOMERS			PTFE			ELASTOMERS				PTFE			
INCHES	mm	30° F 105° F	106° F 140° F	30° F 105° F	106° F 140° F	-5' F 105' F	106° F 140° F	141° F 195° F	-5° F 105° F	106° F 140° F	141° F 195° F	-40° F 140° F	141° F 175° F	176° F 210° F	211° F 250° F	-40° F 140° F	141° F 175° F	176° F 210° F	211° 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