Type-14 Flanged Diaphragm Valve Data Sheet

ASAHI/AMERICA®
Your Experts in Plastics™

Features:

- Low profile, compact design fits easily into tight spaces
- Designed with durable materials to ensure long-lasting performance in highly corrosive environments
- Bubble-tight seal prevents leakage, even in systems with slurries or suspended solids
- Rated for full vacuum across all sizes
- Weir-style flow path provides excellent throttling control and shut-off capabilities
- Bayonet connection between the compressor and diaphragm allows fast, tool-free maintenance
- Internal bonnet seal prevents corrosive substances from damaging internal components
- Adjustable travel stop protects the diaphragm from being overtightened, extending the life span of the valve
- Top-mounted visual position indicator clearly displays whether the valve is open or closed
- All PTFE diaphragm valves include a PVDF barrier that protects the EPDM cushion from gas permeation, improving durability
- Molded base allows secure panel or surface mounting without additional hardware

Options:

- 2" square operating nut for remote operation
- Chainwheel operator
- Locking device for tamper-proofing

Specifications:

Sizes:	1/2" - 4"
Body Materials:	PVC, CPVC, PP, and PVDF
Bonnet Materials:	PVC, PP, PPG, and PVDF
End Connection:	Flanged
Diaphragms:	EPDM and 3-layer EPDM/PVDF/PTFE Also available in Nitrile & FKM
Operator:	Handwheel

Pressure vs. Temperature (psi, water, non-shock):

Body Material	Diaphragm Material	Temperature (F)	inches (mm)								
			1/2" (15)	3/4" (20)	1" (25)	1-1/4" (32)	1-1/2" (40)	2" (50)	2-1/2" (65)	3" (80)	4" (100)
PVC	All	30° - 105°	150	150	150	150	150	150	150	150	150
		106° - 140°	100	100	100	100	100	100	115	115	115
CPVC	All	30° - 105°	150	150	150	150	150	150	150	150	150
		106° - 140°	115	115	115	115	115	115	120	120	120
		141° - 175°	85	85	85	85	85	85	95	95	95
		176° - 195°	40	40	40	40	40	40	85	85	85
PP	All	-5° - 105°	150	150	150	150	150	150	150	150	150
		106° - 140°	115	115	115	115	115	115	120	120	120
		141° - 175°	85	85	85	85	85	85	95	95	95
		176° - 195°	70	70	70	70	70	70	85	85	85
PVDF	PTFE	-40° - 140°	150	150	150	150	150	150	150	150	150
		141° - 175°	120	120	120	120	120	120	115	115	115
		176° - 210°	95	95	95	95	95	95	85	85	85
		211° - 210°	70	70	70	70	70	70	70	70	70

Weights (lbs.):

Nominal Size		Weight
inches	mm	
1/2	15	1.50
3/4	20	1.80
1	25	2.40
1-1/4	32	3.10
1-1/2	40	6.20
2	50	8.00
2-1/2	65	14.33
3	80	17.64
4	100	25.80

Cv Values:

Nominal Size		Cv
inches	mm	
1/2	15	4.8
3/4	20	5.3
1	25	8.5
1-1/4	32	11
1-1/2	40	26
2	50	43
2-1/2	65	85
3	80	115
4	100	185