Type-14 True Union 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
- Rated for full vacuum across all sizes
- Bayonet connection between the compressor and diaphragm allows fast, tool-free maintenance
- All PTFE diaphragm valves include a PVDF barrier that protects the EPDM cushion from gas permeation, improving durability
- Top-mounted visual position indicator clearly displays whether the valve is open or closed
- Adjustable travel stop protects the diaphragm from being overtightened, extending the life span of the valve
- Weir-style flow path provides excellent throttling control and shut-off capabilities
- Internal bonnet seal prevents corrosive substances from damaging internal components
- Molded base allows secure panel or surface mounting without additional hardware

Options:

- Pneumatic and electric actuation
- 2" square operating nut for remote operation
- Locking device for tamper-proofing
- PTFE-encapsulated FKM or FKM end connector O-ring seals

Specifications:

Sizes: 1/2" - 2"
Body Materials: PVC, CPVC, PP, and PVDF
Bonnet Materials: PVC, PP, PPG, and PVDF
End Connectors: **PVC, CPVC:** IPS Socket or Threaded
PP, PVDF: IPS & Metric (DIN) Socket, Threaded, Butt
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)
PVC	All	30° - 105°	150	150	150	150	150	150
		106° - 120°	130	130	130	130	130	130
CPVC	All	30° - 105°	150	150	150	150	150	150
		106° - 140°	115	115	115	115	115	115
		141° - 175°	85	85	85	85	85	85
		176° - 195°	40	40	40	40	40	40
PP	All	-5° - 105°	150	150	150	150	150	150
		106° - 140°	115	115	115	115	115	115
		141° - 175°	85	85	85	85	85	85
PVDF	PTFE	-40° - 140°	150	150	150	150	150	150
		141° - 175°	120	120	120	120	120	120
		176° - 210°	95	95	95	95	95	95

Weights (lbs.):

Nominal Size		Weight
inches	mm	
1/2	15	1.10
3/4	20	1.30
1	25	2.00
1-1/4	32	2.40
1-1/2	40	5.80
2	50	6.40

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