

# MV-20 1/4" - 1" Manual PTFE Slurry Valve

## Product Overview

The MV-20 slurry valve is designed for use slurry applications, and is also ideally suited for ultra-pure water and aggressive chemical or gas applications. The design utilizes a machined PTFE body with precision machined seat and diaphragm sealing areas. The valve is offered in 3 orifice sizes (1/4", 1/2" and 1") and port sizes ranging from 1/4" to 1 1/4".



## Features

Fully swept open bowl diaphragm seat area.

Self draining design.

High load point seat seal.

Angled and rounded internal flow path.

One piece precision machined diaphragm manufactured from modified PTFE.

Evenly distributed seat sealing forces.

Maximized diaphragm thickness.

## Benefits

Minimizes fluid shear and smooth flow transition.

Minimizes area for entrapment and stagnation of media.

Improves sealing mechanism for aggressive chemicals, deionized water and abrasive slurry media.

Minimizes particle contribution of valve.

Provides faster purging and cleaning of valve.

Less pressure drop allows for lower pressure requirements upstream.

Improves fluid flow dynamics.

Improves cycle life, less shear than standard PTFE material, lower replacement costs, less downtime.

Minimized diaphragm and valve seat strain.

Stabilizes valve back pressure capability.

Minimizes potential for permeation while maximizing cycle life.

## Specifications

### Materials of Construction

Wetted: PTFE, Modified PTFE

Non-wetted: PVDF, Viton, PTFE coated SS spring

### Pressure Ranges

1/4" Orifice: 27" HG vacuum (913 mbar) - 80 PSIG (5.5 bar)

1/2" Orifice: 27" HG vacuum (913 mbar) - 100 PSIG (7 bar)

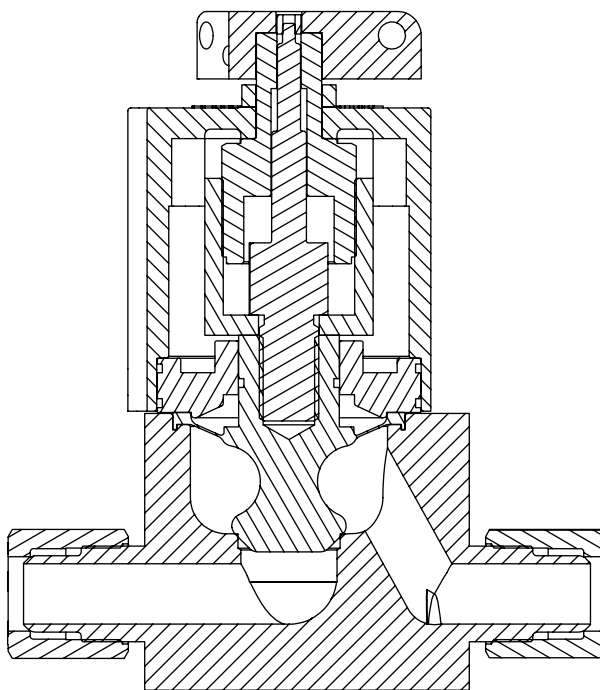
1" Orifice: 27" HG vacuum (913 mbar) - 100 PSIG (7 bar)

Pressure ranges for operation at ambient temperatures. For use at higher temperatures consult Pressure/Temperature chart on page 3.

### Temperature Ranges

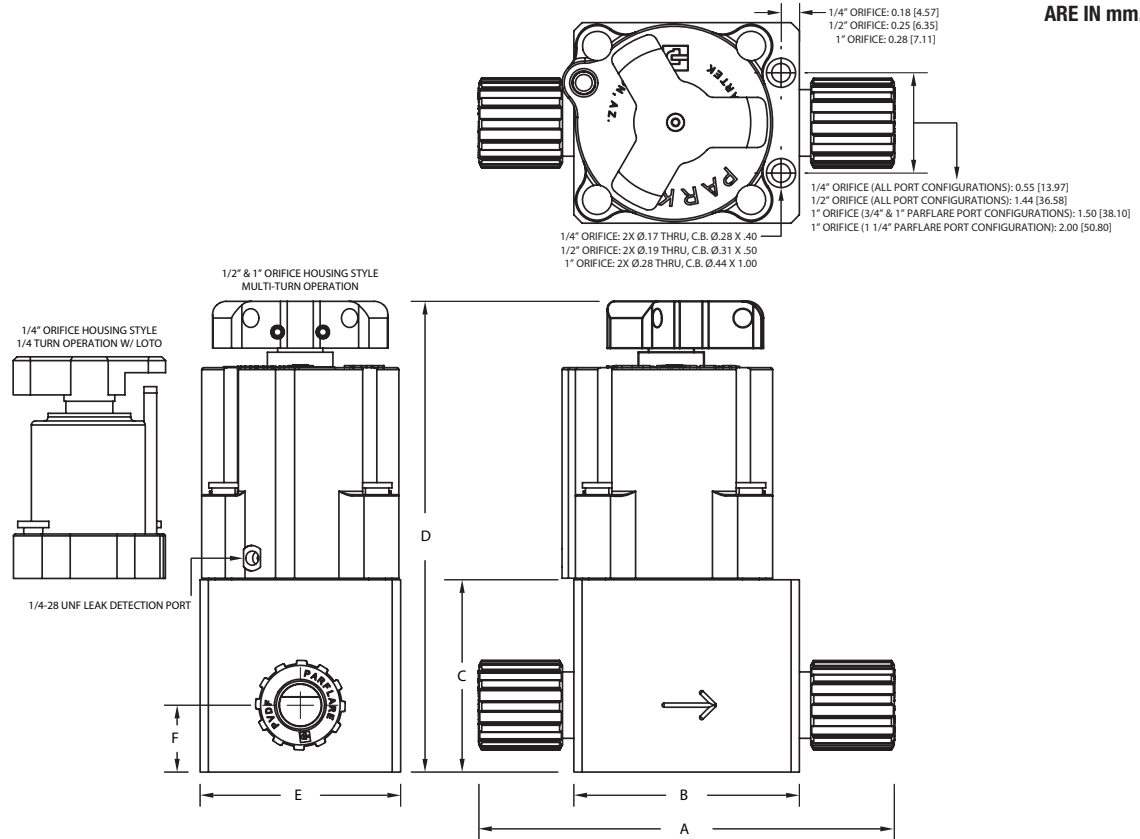
Ambient: 0° - 150° F (-17° - 66° C)

Fluid: 0° - 266° F (-17° - 130° C)



# MV-20 1/4" - 1" Manual PTFE Slurry Valve

BRACKETED DIMENSIONS  
ARE IN mm.



Part Number	Cv	Kv	Body Size	Valve Type	Port Configuration	A		B		C		D		E		F	
						inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
MV-20-04-0604	.20	2.8	1/4"	1/4 TURN LOTO	1/4" Parflare	3.80	96.52	1.50	38.10	1.15	29.21	2.91	73.91	1.25	31.75	0.50	12.70
MV-20-04-0606	.76	10.8	1/4"		3/8" Parflare	3.96	100.58	1.50	38.10	1.15	29.21	2.91	73.91	1.25	31.75	0.50	12.70
MV-20-08-0608	2.4	34.2	1/2"	MULTI-TURN	1/2" Parflare	5.20	132.08	2.50	63.50	1.80	45.72	5.04	128.02	2.00	50.80	0.78	19.81
MV-20-08-0612	3.9	55.8	1/2"		3/4" Parflare	5.35	135.89	2.50	63.50	2.00	50.80	5.24	133.10	2.00	50.80	0.83	20.96
MV-20-16-0612	6.4	91.5	1"		3/4" Parflare	6.22	157.99	3.38	85.85	2.88	73.15	7.05	179.07	3.00	76.20	1.00	25.40
MV-20-16-0616	10.9	155.4	1"		1" Parflare	6.98	177.29	3.38	85.85	2.88	73.15	7.05	179.07	3.00	76.20	1.00	25.40
MV-20-16-0620	13.5	192.9	1"		1 1/4" Parflare	8.07	204.98	3.75	95.25	3.25	82.55	7.43	188.72	3.00	76.20	1.25	31.75

Parflare models are supplied with PVDF nuts. For PFA nuts add -T to model number. Contact factory for Pillar end connections.

PRESSURE DROP VS. FLOW RATE

