

BARSTOCK VALVES

BARSTOCK METERING VALVES MFV™

Designed for controlling very low flow rates of liquids and gases, MFV™ Barstock valves are available in seven conveniently overlapping orifice-needle sizes. Offered in straight (T) and 90 degree (L) flow patterns, the MFV™ Barstock Valve includes a “non-rising stem” design, it’s unique non-rotating needle is cylindrical with a precision ground tapered metering surface. The needle moves in a rectilinear fashion which accounts for its desirable sixteen- turn high resolution attribute. Hysteresis is virtually eliminated due to the needle design and the closely fitting fine thread on its adjustment plunger. The valve body is precision machined chrome plated brass or type 316 stainless steel.

TABLE 57 ORDERING INFORMATION BARSTOCK METERING VALVES MFV™

MODEL NUMBER	FLOW PATTERN	MATERIAL	MAXIMUM FLOW [mL/min]		ORIFICE [in]	CV
			AIR	WATER		
6AMV1101	Straight	Brass	200	6	0.042	0.0005
6AMV1102	Straight	Brass	400	12	0.042	0.001
6AMV1103	Straight	Brass	1000	30	0.042	0.0025
6AMV1104	Straight	Brass	2500	70	0.093	0.0061
6AMV1105	Straight	Brass	6200	200	0.093	0.0160
6AMV1106	Straight	Brass	21500	650	0.093	0.054
6AMV2101	Straight	Stainless	200	6	0.042	0.0005
6AMV2102	Straight	Stainless	400	12	0.042	0.001
6AMV2103	Straight	Stainless	1000	30	0.042	0.0025
6AMV2104	Straight	Stainless	2500	70	0.093	0.0061
6AMV2105	Straight	Stainless	6200	200	0.093	0.0160
6AMV2106	Straight	Stainless	21500	650	0.093	0.054
6AMV1120	90 degree	Brass	200	6	0.042	0.0005
6AMV1121	90 degree	Brass	400	12	0.042	0.001
6AMV1122	90 degree	Brass	1000	30	0.042	0.0025
6AMV1123	90 degree	Brass	2500	70	0.093	0.0061
6AMV1124	90 degree	Brass	6200	200	0.093	0.0160
6AMV1125	90 degree	Brass	21500	650	0.093	0.054
6AMV2120	90 degree	Stainless	200	6	0.042	0.0005
6AMV2121	90 degree	Stainless	400	12	0.042	0.001
6AMV2122	90 degree	Stainless	1000	30	0.042	0.0025
6AMV2123	90 degree	Stainless	2500	70	0.093	0.0061
6AMV2124	90 degree	Stainless	6200	200	0.093	0.0160
6AMV2125	90 degree	Stainless	21500	650	0.093	0.054

Note: Based on 10 psig (69 kPa) inlet pressure and atmospheric exhaust.

BARSTOCK UTILITY VALVES CV™

Designed for controlling a broad range of flow rates of liquids and gases, CV™ Utility valves are available in three conveniently overlapping orifice-needle sizes. These versatile, rugged and reliable, valves are suitable for laboratory instrumentation, bench top or OEM flow control purposes. Valves are offered in straight (T) and 90 degree (L) flow patterns. All valves are supplied with 1/8" FNPT inlet and outlet ports. Valve cartridges are also interchangeable with built-in valves of Dakota's series of P, T, S, and G flow meter product line. The valve body is precision machined chrome plated brass or type 316 stainless steel.

TABLE 57-1 ORDERING INFORMATION BARSTOCK UTILITY VALVES CV™

MODEL NUMBER	FLOW PATTERN	MATERIAL	MAXIMUM FLOW [mL/min]		ORIFICE [in]	CV
			AIR	WATER		
6ACV1101	Straight	Brass	5000	350	0.052	0.03
6ACV1102	Straight	Stainless	5000	350	0.052	0.03
6ACV1103	90 degree	Brass	5000	350	0.052	0.03
6ACV1104	90 degree	Stainless	5000	350	0.052	0.03
6ACV1105	Straight	Brass	20000	1200	0.082	0.10
6ACV1106	Straight	Stainless	20000	1200	0.082	0.10
6ACV1107	90 degree	Brass	20000	1200	0.082	0.10
6ACV1108	90 degree	Stainless	20000	1200	0.082	0.10
6ACV1109	Straight	Brass	60000	3500	0.120	0.30
6ACV1110	Straight	Stainless	60000	3500	0.120	0.30
6ACV1111	90 degree	Brass	60000	3500	0.120	0.30
6ACV1112	90 degree	Stainless	60000	3500	0.120	0.30

Note: Based on 10 psig (69 kPa) inlet pressure and atmospheric exhaust.

DESIGN FEATURES

- ✓ Virtually free of hysteresis (see-sawing).
- ✓ Panel mountable.
- ✓ Bubble tight shutoff.
- ✓ Straight or 90 degree flow patterns.
- ✓ Brass or 316 stainless steel high resolution.
- ✓ Sixteen turns to full open.



SPECIFICATIONS FOR MFV VALVE

MAXIMUM PRESSURE: 500 psig (3792 kPa).
MAXIMUM TEMP.: 180 °F (82 °C)-brass. 250 °F (121 °C)-stainless.
VALVE STEM: Sixteen turns, non-rising stem.
BODY: Chrome plated brass or 316 stainless steel.
VALVE NEEDLE: 316 stainless steel.
ORIFICE: 316 stainless steel with PTFE liner.
CONNECTIONS: 1/8" female NPT.
O-RINGS: Buna-N (brass valves). FKM (stainless valves).

The selection of materials of construction, is the responsibility of the customer. The company accepts no liability.

DESIGN FEATURES

- ✓ Panel mountable.
- ✓ Bubble tight shutoff.
- ✓ Straight or 90 degree flow patterns.
- ✓ Brass or 316 stainless steel.



SPECIFICATIONS FOR MFV VALVE

MAXIMUM PRESSURE: 500 psig (3792 kPa).
MAXIMUM TEMP.: 180 °F (82 °C)-brass. 250 °F (121 °C)-stainless.
VALVE: Standard cartridge valve.
BODY: Chrome plated brass or 316 stainless steel.
VALVE NEEDLE: 316 stainless steel.
ORIFICE: 316 stainless steel with PTFE liner.
CONNECTIONS: 1/8" female NPT.
O-RINGS: Buna-N® (brass valves). FKM (stainless valves).

The selection of materials of construction, is the responsibility of the customer. The company accepts no liability.