BARSTOCK METERING VALVES MFV™

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.

Designed for controlling very low flow rates of liquids and gases, MFV™ Barstock valves are available in six conveniently overlapping orifice-needle sizes.

design features

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

SPECIFICATIONS	
MAXIMUM PRESSURE	500 psig (3792 kPa).
MAXIMUM TEMPERATURE	180 °F (82 °C)-brass. 250 °F (121 °C)-stainless.
VALVE STEM	Sixteen turns, non-rising type.

**MATERIALS OF CONSTRUCTION	
BODY	Chrome plated brass or 316 stainless steel.
VALVE NEEDLE	316 stainless steel.
ORIFICE	316 stainless steel with PTFE liner.
O-RINGS	Buna-N® (brass valves). Viton® (stainless valves).

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

ORDERING INFORMATION BARSTOCK METERING VALVES MFV™

MODEL NUMBER	FLOW PATTERN	MATERIAL	MAXIMUM FLOW [mL/min] Air	Water	ORIFICE [in]	CV
VM1-BB-1A	Straight	Brass	200	6	0.042	0.0005
VM2-BB-1A	Straight	Brass	400	12	0.042	0.001
VM3-BB-1A	Straight	Brass	1000	30	0.042	0.0025
VM4-BB-1A	Straight	Brass	2500	70	0.093	0.0061
VM5-BB-1A	Straight	Brass	6200	200	0.093	0.016
VM6-BB-1A	Straight	Brass	21500	650	0.093	0.054
VM1-SV-2A	Straight	Stainless	200	6	0.042	0.0005
VM2-SV-2A	Straight	Stainless	400	12	0.042	0.001
VM3-SV-2A	Straight	Stainless	1000	30	0.042	0.0025
VM4-SV-2A	Straight	Stainless	2500	70	0.093	0.0061
VM5-SV-2A	Straight	Stainless	6200	200	0.093	0.016
VM6-SV-2A	Straight	Stainless	21500	650	0.093	0.054
VM1-BB-6A	90 degree	Brass	200	6	0.042	0.0005
VM2-BB-6A	90 degree	Brass	400	12	0.042	0.001
VM3-BB-6A	90 degree	Brass	1000	30	0.042	0.0025
VM4-BB-6A	90 degree	Brass	2500	70	0.093	0.0061
VM5-BB-6A	90 degree	Brass	6200	200	0.093	0.016
VM6-BB-6A	90 degree	Brass	21500	650	0.093	0.054
VM1-SV-7A	90 degree	Stainless	200	6	0.042	0.0005
VM2-SV-7A	90 degree	Stainless	400	12	0.042	0.001
VM3-SV-7A	90 degree	Stainless	1000	30	0.042	0.0025
VM4-SV-7A	90 degree	Stainless	2500	70	0.093	0.0061
VM5-SV-7A	90 degree	Stainless	6200	200	0.093	0.016
VM6-SV-7A	90 degree	Stainless	21500	650	0.093	0.054

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

BULLETIN EM201007 VB

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.

BARSTOCK \ UTILITY VALVES CV™

These versatile, rugged and reliable valves are suitable for laboratory instrumentation, bench top or OEM flow control purposes.

SPECIFICATIONS	
MAXIMUM PRESSURE	500 psig (3792 kPa).
MAXIMUM TEMPERATURE	180 °F (82 °C) - (brass valves). 250 °F (121 °C) - (stainless valves).

***MATERIALS OF CONSTRUCTION*	
CONNECTIONS	1/8" female NPT.
O-RINGS	PTFE and Buna-N® (brass valves). PTFE and Viton® (stainless valves).

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

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 Aalborg'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.

design features

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

ORDERING INFORMATION BARSTOCK UTILITY VALVES CV™

MODEL NUMBER	FLOW PATTERN	MATERIAL	MAXIMUM FLOW [mL/min] Air	MAXIMUM FLOW [mL/min] Water	ORIFICE [in]	Cv
VCL-BB-1A	Straight	Brass	5000	350	0.052	0.03
VCL-SV-2A	Straight	Stainless	5000	350	0.052	0.03
VCL-BB-6A	90 degree	Brass	5000	350	0.052	0.03
VCL-SV-7A	90 degree	Stainless	5000	350	0.052	0.03
VCM-BB-1A	Straight	Brass	20000	1200	0.082	0.10
VCM-SV-2A	Straight	Stainless	20000	1200	0.082	0.10
VCM-BB-6A	90 degree	Brass	20000	1200	0.082	0.10
VCM-SV-7A	90 degree	Stainless	20000	1200	0.082	0.10
VCH-BB-1A	Straight	Brass	60000	3500	0.120	0.30
VCH-SV-2A	Straight	Stainless	60000	3500	0.120	0.30
VCH-BB-6A	90 degree	Brass	60000	3500	0.120	0.30
VCH-SV-7A	90 degree	Stainless	60000	3500	0.120	0.30

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