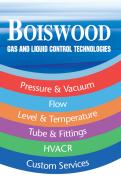


Micromite® 1600 Series

Forged Metering Valves







Typical Applications

- Chromatography
- Mass Spectroscopy
- · Sampling and fine metering
- Pollution analyzing instrumentation

Technical Data

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BODY*	316 stainless steel, brass						
MAXIMUM OPERATING PRESSURE @ 70° F (21° C)**	Brass • 3500 psig (242 bar) 316 stainless steel • 5000 psig (345 bar)						
OPERATING TEMPERATURE RANGE	-20° to +250° F (-29° to +121° C)						
ORIFICE	0.031" (0.79 mm)						
CV FACTOR	0.0008						

- * Consult factory for other materials
- ** Valve is not designed for shut-off. Pressure ranges for metering only

Features & Benefits

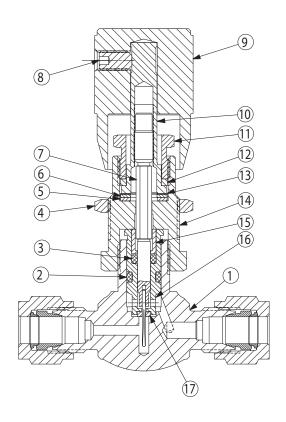
- 18 turn non-rotating stem
- Low internal volume provides low flow control
- Non-rotating stem minimizes unwanted variability of flow rate
- Unique thread design allows tapered needle portion of the stem to be withdrawn into the outer stem
- O-ring seals below the stem threads provide smooth operation and eliminate backlash
- Panel mounting is standard for all models
- Dial indicator provides repeatable positioning of stem in full turns and tenths of a turn from closed to fully open.
 - Position by finger tip rotating the knurled aluminum dial.
 - A position lock prevents accidental movement of the handle and resulting errors in flow data.
 - The size and design of the handle assembly provide an attractive appearance for equipment panels.
- Special High Tolerance NPT Thread

metering valves

Micromite® 1600 Series

Materials of Construction

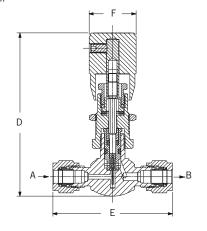
	DESCRIPTION	MATERIAL				
1	BODY	316 stainless or brass				
2	O-RING	Fluorelastomer or Buna-N				
3	O-RING	Fluorelastomer or Buna-N				
4	PANEL NUT	Brass				
5	WASHER	Fluorelastomer				
6	WASHER	304 stainless				
7	STEM AND PIN	316 stainless				
8	SET SCREW	Alloy steel				
9	HANDLE	HANDLE Aluminum				
10	SPINDLE 316 stainless					
11	SCREW 316 stainless					
12	FRICTION WASHER Delrin® AF					
13	FRICTION WASHER	Glass cloth				
14	BONNET	316 stainless				
15	RETAINER	PCTFE				
16	GLAND	316 stainless				
17	SEAT	316 stainless				

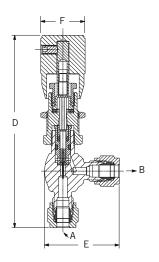


Micromite® 1600 Series Dimensions

FLOW PATTERN	CONNECTIONS		PART	BODY	O DINO	DIMENSIONS			PANEL MOUNTING		
	A INLET	B OUTLET	NUMBER	MATERIAL	O RING		D	E	F	MAXIMUM THICKNESS	HOLE SIZE
	1/8″ FNPT	1/8″ FNPT	1654F2BA	BRASS	Buna-N	mm	83	45	25	6	18
		78 FNF1				inch	3 1/4	1 3/4	1	1/4	45/64
	1/8" MNPT 1/8"	1/8" MNPT	1654M2BA	BRASS	Buna-N	mm	83	45	25	6	18
		78 WINFI				inch	3 1/4	1 ¾	1	1/4	45/64
	1/4" MNPT	1/4" MNPT	1654M4BA	BRASS	Buna-N	mm	83	45	25	6	18
						inch	3 1/4	1 3/4	1	1/4	45/64
	1/16″	⅓e ⅓e GYROLOK® GYROLOK® 1654G1BA BRASS	1654G1RA	RRASS	Buna-N	mm	83	60	73	6	18
	GYROLOK®		Dulla-N	inch	2 1/4	1	49	1/3	45/63		
	1/8″	1/8″	1654G2BA	BRASS	Buna-N	mm	83	60	73	6	18
	GYROLOK®	GYROLOK®		BILAGO		inch	2 1/4	1	49	1/3	45/63
	1/4″	1/4″	1654G4BA	BRASS	Buna-N	mm	83	60	73	6	18
	GYROLOK®	GYROLOK®	IOOTUTDA	DIAGO	Dulla-N	inch	2 1/4	1	49	1/3	45/63
	1/8" FNPT	1/8" FNPT	1654F2YA	316 SS	Buna-N	mm	83	45	25	6	18
	76 THI T	/6 THI I		010 00		inch	3 1/4	1 3/4	1	1/4	45/64
GLOBE	1/8" MNPT	1/8" MNPT	1654M2YA	316 \$\$	Buna-N	mm	83	45	25	6	18
GLUBE	78 IVINE	/8 IVIIVI I	1034WZTA			inch	3 1/4	1 3/4	1	1/4	45/64
	1/4" MNPT 1/4"	1/4" MNPT	1654M4YA	316 \$\$	Buna-N	mm	83	45	25	6	18
		74 IVINE				inch	3 1/4	1 3/4	1	1/4	45/64
	1/16″	1/16″	1654G1YA	316 \$\$	Buna-N	mm	83	60	25	6	18
	GYROLOK®	GYROLOK®	100-1011A			inch	3 1/4	2	1	1/4	45/64
		1/8″	1654G2YA	316 \$\$	Buna-N	mm	83	60	25	6	18
		GYROLOK®				inch	3 1/4	2	1	1/4	45/64
	1/4″	1/4" 1/4" 10E 40 4 VA 210 CC Dura	Runa N	mm	83	60	25	6	18		
	GYROLOK®	GYROLOK®	1654G4YA	316 SS	Buna-N	inch	3 1/4	2	1	1/4	45/64
	1/16″	1/16″	1656G1YA	316 SS	Fluorelastomer	mm	83	60	25	6	18
	GYROLOK®	GYROLOK®	IOJOUTTA	310 33		inch	3 1/4	2 3/8	1	1/4	45/64
	1/8″	1/8"	Fluorelastomer	mm	83	60	25	6	18		
	GYROLOK®	GYROLOK®	1000021A	316 SS	FIUUI EIASLUIIIEI	inch	3 1/4	2	1	1/4	45/64
	1/4" 1/4" GYROLOK® GYROLOK®		1656G4YA	316 SS	Fluorelastomer	mm	83	60	25	6	18
		GYROLOK®				inch	3 1/4	2	1	1/4	45/64
ANGLE	1/16" 1/16"		. 1666G1YA	316 SS	Fluorelastomer	mm	83	60	25	6	18
	GYROLOK®	OK® GYROLOK® 10000111A 310 33	i iuoi ciastoiiiei	inch	3 1/4	2	1	1/4	45/64		
	1/8″		Fluorelastomer	mm	102	41	25	6	18		
	GYROLOK®	GYROLOK®	TOUGUZTA	310 33	riuuretastuillet	inch	4	1	1	1/4	45/64
	1/4"	1/4"	1666G4YA	316 SS	Fluorelastomer	mm	102	41	25	6	18
	GYROLOK®	GYROLOK®	10000418	010 33		inch	4	1 1/8	1	1/4	45/64

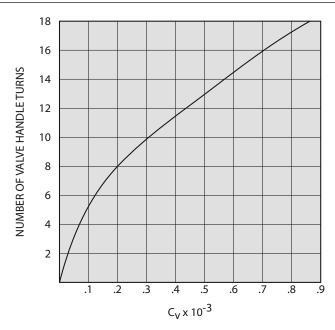
Dimensions for reference only, subject to change.





Micromite® 1600 Series

Reference Flow Curve



Metering range is approximately 18 handle turns. Opening the valve beyond the metering range will increase the flow to full Cv.

How to Order

FLOW PATTERN	CONNE	CTIONS	BRASS WITH BUNA-N	316 STAINLESS	316 STAINLESS WITH	
	A Inlet	B Outlet		STEEL WITH BUNA-N	FLUORELASTOMER	
GLOBE	1/8 ″ FNPT	1/8" FNPT	1654F2BA	1654F2YA	_	
	1/8 " MNPT	1/8 " MNPT	1654M2BA	1654M2YA	_	
	1/4 " MNPT	1/4" MNPT	_	1654M4YA	_	
	½16" GYROLOK®	½16″ GYROLOK®	1654G1BA	1654G1YA	1656G1YA	
	1/8" GYROLOK®	1/8" GYROLOK®	1654G2BA	1654G2YA	1656G2YA	
	1/4" GYROLOK®	1/4" GYROLOK®	1654G4BA	1654G4YA	1656G4YA	
ANGLE	1/16" GYROLOK®	½16" GYROLOK®	_	_	1666G1YA	
	1/8" GYROLOK®	1/8" GYROLOK®	_	_	1666G2YA	
	1/4" GYROLOK®	1/4" GYROLOK®	_	_	1666G4YA	

To Order the Dial Indicator, order Kit **1600K4**. If valve and kit are to be factory assembled, please note "Factory Assembled" on order

Ordering Options

Spare Parts

Spare parts and repair kits are available for all needle valves. Please contact your distributor for specific information.

Cleaning and Testing

When ordering, please specify if oxygen cleaning or helium leak testing is required.

Additional Sizes

Additional sizes and options are available on special request. Please consult your local HOKE® distributor.