

1700 Series

Forged Body, Integral Bonnet Needle Valves

These affordable valves are suited for a wide variety of process control applications. Non-rotating stainless steel or replaceable PCTFE stem tips reduce galling. Dyna-Pak® packing below the stem threads prevents fugitive emissions.



Typical Applications

- Cylinder valves
- Panel board instrumentation
- Pressure gauge valves
- Sampling systems
- Research laboratories
- Oxygen service
- · Corrosive or high pressure service

Technical Data

BODY*	316 stainless steel, Monel®		
MAXIMUM OPERATING PRESSURE	6000 psig @ 70° F (414 Bar @ 21° C)		
OPERATING TEMPERATURE RANGE	Metal stem tip -65° to +450° F (-54° to +232° C) PCTFE stem tip -20° to +250° F (-29° to +121° C)		
ORIFICE	0.187" (4.8mm)		
Cv FACTOR	0.31		

^{*} Consult factory for other materials

Features & Benefits

Safety

Lock nut secures packing nut to prohibit accidental removal

Long cycle life

- Packing below stem threads prevents fluid from contacting the stem threads
- Non-rotating hardened 17-4PH stainless steel, Monel® or replaceable PCTFE stem tip is combined with a hardened 450 stainless steel - or Monel® thread gland to reduce galling

Helps eliminate fugitive emissions

 Dyna-Pak® packing provides a leak-tight seal with low operating torque

Reliability

 All valves are tested for bubble-tight leakage at both seat and packing

Installation variety

 Broad selection of male NPT, female NPT, and HOKE Gyrolok® fractional or metric tube fitting connections

Panel mounting

- Panel mounting is standard on all models
- Special High Tolerance NPT Thread

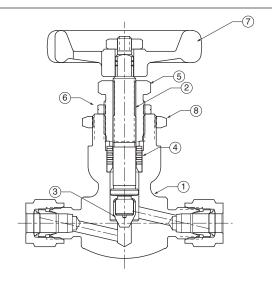
HOKE Incorporated

needle valves

1700 Series

Materials of Construction

	DESCRIPTION	316 STAINLESS STEEL	MONEL®
1	Body	316 stainless steel	Monel®
2	Stem	316 stainless steel	Monel®
3	<i>Stem tip</i> Soft Hard	PCTFE 17-4PH stainless steel	PCTFE Monel®
4	Stem packing	TFE/316 stainless steel wafers	TFE/Monel® wafers
5	Thread gland	450 stainless steel	Monel®
6	Lock nut	316 stainless steel	316 stainless steel
	Handle		
7	1711 Series 1751 Series	Aluminum ABS	Aluminum ABS
8	Panel mounting nut	Nickel-plated brass	Nickel-plated brass



Dimensions

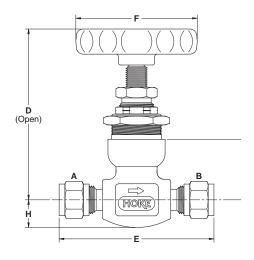
1700 Series: Globe Pattern

1700 Series. Globe i attern							
INLET A	OUTLET B		D	E	F	Н	H ¹
1/." Curalak®	1⁄4" Gyrolok®	inch	3	21/16	2%	1/2	11/16
1/4" Gyrolok®		mm	76	52	54	13	27
1/4" male NPT	¼" male NPT	inch	3	2¾6	21/8	1/2	11/16
74 IIIale NF I		mm	76	56	54	13	27
1/4" male NPT	1/4" female NPT	inch	3	2%	2%	1/2	11/16
74 IIIale NF I		mm	76	54	54	13	27
1/" fomale NDT	¼" female NPT	inch	3	21/16	21/8	1/2	11/16
74 Terriale INPT		mm	76	52	54	13	27
¾″ Gyrolok®	%" Gyrolok®	inch	3	2%	21/8	1/2	11/16
78 Gylolok		mm	76	54	54	13	27
9mm Gyrolok®	8mm Gyrolok®	inch	3	211/16	2%	1/2	11/16
offill dyfolok		mm	76	68	54	13	27

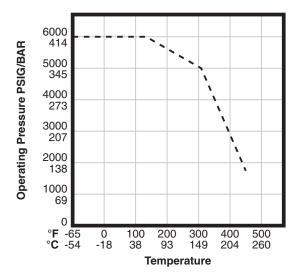
 $Dimensions\ for\ reference\ only, subject\ to\ change.$

Panel mounting dimensions

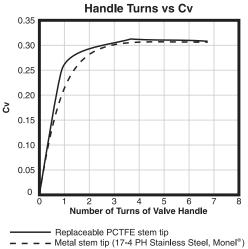
Panel hole = 5%4'' (22.6 mm) diameter Panel thickness = 14'' (6.4 mm) maximum



Pressure vs. Temperature Curve



Flow Curves



How to Order: Standard Valves



1711L4Y: Globe pattern

1700 Series: Globe Pattern

Metal stem tip for service to +450° F (+232° C) 0.187" (4.7mm) orifice/0.31 Cv

END CONNECTIONS		ORDER BY PART NUMBER		
INLET	OUTLET	316 STAINLESS STEEL	MONEL®	
¼" Gyrolok®	1/4" Gyrolok®	1711G4Y	_	
1/4" male NPT	1/4" male NPT	1711M4Y	1711M4M	
1/4" male NPT	1/4" female NPT	1711L4Y	_	
1/4" female NPT	1/4" female NPT	1711F4Y	1711F4M	
¾" Gyrolok®	¾″ Gyrolok®	1711G6Y	_	
8mm Gyrolok®	8mm Gyrolok®	1711G8YMM	_	



1751G4Y: Globe pattern

1700 Series: Globe Pattern

PCTFE stem tip for service to +250° F (+121° C) 0.187" (4.7mm) orifice/0.31 Cv

END CONNECTIONS		ORDER BY PART NUMBER		
INLET	OUTLET	316 STAINLESS STEEL	MONEL®	
1/4" Gyrolok®	1/4" Gyrolok®	1751G4Y	_	
1/4" male NPT	1/4" male NPT	1751M4Y	1751M4M	
1/4" male NPT	1/4" female NPT	1751L4Y	_	
1/4" female NPT	1/4" female NPT	1751F4Y	1751F4M	
¾″ Gyrolok®	¾" Gyrolok®	1751G6Y	_	
8mm Gyrolok®	8mm Gyrolok®	1751G8YMM	_	

Ordering Options

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.