MPI[™] Medium Pressure Products -Parke



MAN Series Needle Valves with MPI[™] Style Connections Pressures to 15,000 psi (1034 bar)

Parker MAN series needle valves with MPI[™] tube connections are designed for multi-turn control of liquid or gas media with regulation or shutoff options for pressures up to 15,000 psi. This Double Ferrule connection delivers fast, easy make-up and reliable bubble-tight performance in either liquid or gas service. Valves are built for MPI™ tube sizes from 1/4" to 1" and include five different body patterns providing many control options.

Features:

- Valve flow capabilities closely match associated tubing bore sizes
- CW 316 Stainless Steel Material is Standard, 2507 Annealed Super Duplex as option
- Rising stem/barstock body design ٠
- Non-rotating stem prevents stem/seat galling ٠
- Metal-to-metal seating achieves bubble-tight shut-off, longer stem/seat life in abrasive flow, greater durability for repeated on/off cvcles, unmatched temperature performance and excellent corrosion resistance
- Temperature range from -423°F (-252°C) to 1000°F (538°C)
- Standard PTFE packing provides dependable stem and body sealing from -423°F to 450°F, additional options include PTFE/Glass (25%) for temperatures to 600°F and Graphite Yarn for temperatures to 1000°F
- Choice of Vee (shutoff) or Regulating Flow Stem Tips
- Replaceable Seat Option available with Right Angle 2-way body style
- Optional N-Dura Stem and Seat Coating or Stellite material ٠ option for severe service available

Parker MPI[™] Connection Benefits:

MPI[™] Connections are designed for both liquids and gases. They can be used on MPI[™] 1/8th Hard tubing, Autoclave Engineers Medium Pressure Tubing, or Thick Wall Instrumentation Tubing in both 316 SS and 2507 Super Duplex materials.

- Suparcase[®] Technology creates a Corrosion Resistant Ferrule set for a strong, mechanical hold
- **Double Ferrule** design is proven but not interchangeable with standard tube fittings
- Longer Thread Engagement improves resistance to pressure and load on ferrules
- Molybdenum Disulfide Coated Gland Nut prevents galling and makes assembly easier.



MAN Series Needle Valve with MPI Connections



MAN Series Needle Valve Extreme Temperature shown with "-VT" (Vent) option

35 Catalog 4234-MA

—Parker MPI[™] Medium Pressure Products

MAN Series Medium Pressure Needle Valves

(Replaces MPN Series Valves)

Standard packing materials allow service temperatures from -100°F (-73°C) to 450°F (232°C), optional materials service from -423°F (-252°C) to 1000°F (538°C). Critical service design features include packing below the stem thread and the non-rotating stem design ensures longer life in rugged conditions. MPI[™] valves are available in two materials, CW 316 SS and 2507 Super Duplex.

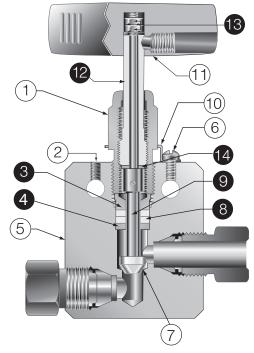
MPI™ Medium Pressure Valve Connection Designation

Valve Connection	Description	Drawing		
MP7	Parker MPI™ (Medium Pressure Inverted) To 15,000 PSI			

Selections "F" NPT Valves and "MF" Medium Pressure C&T Valves from previous MPI™ catalog are now supplied from the Parker Autoclave Engineers product catalogs: "P" Series and "20SM" Series Needle Valve brochures.

Material of Construction

Item#	Description	Material	
1	Low Friction Packing Gland	Ampco 45	
2	Panel Mount Option	316 SS	
3	Packing Washer	Ampco 45	
4	Bottom Washer	316 SS	
5	Valve Body	316 SS	
6	Pan Head Screw 10-24 x 1/4"	18-8 SS	
0	Metal to Metal Seating	316 SS	
8	Adjustable Packing	PTFE	
9	One Piece Stem	316 SS	
10	Locking Device	302 SS	
11	Powder Coated Handle	316 SS	
Ð	Stem Sleeve	304 SS	
₿	Hex Nuts	300 Series SS	
Ø	Thrust Washer	17-4PH	
Replaceable Seat (version only)		17-4PH	



Inlet is typically under the seat (from left side in drawing above) however valve can be used bi-directionally. Inlet is shown to keep pressure trapped under seat in closed position (preferred).

	Inches			
Valve Size	A	В	Screw Size	D
4 & 6	1.25	.22	10 - 24	.75
8 & 9	1.375	.22	10 - 24	1.00
12	1.75	.22	10 - 24	1.12
16	2.50	.22	10 - 24	1.62

Typical spare parts found in Repair Kit

Panel Hole Sizes

