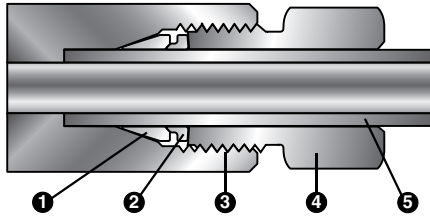


General Description: Parker Hannifin MPI™ Fittings* are engineered and manufactured to provide secure, tight, and leak-resistant connections throughout industry, including off-shore oil and gas exploration platforms, research labs, and other facilities that require operating pressures in the range of 6,000 to 15,000 psi.

MPI™ Fittings are ideally suited to handle liquids, gases, or chemicals and can be used on a wide variety of tubing materials including cold drawn - 1/8 hard (unannealed) tubing or instrument grade thick-walled annealed stainless steel. Every Parker MPI™ Fitting is supplied complete and ready to install.

Features: Every MPI™ Fitting has the features shown below:

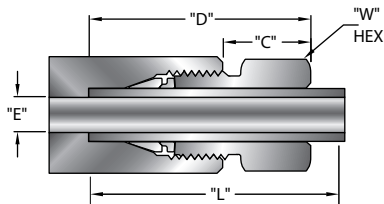


1. Front ferrule with corrosion-resistant Parker SUPARCASE® forms a tight pressure seal between the body and ferrule in a second strong mechanical hold on the tube.
2. Rear ferrule with corrosion-resistant Parker SUPARCASE® provides a strong mechanical hold on the tube.
3. Longer thread area for improved resistance to pressure and load on the ferrules.
4. Molybdenum disulfide-coated inverted nut helps prevent galling, provides easier assembly, and permits multiple remakes.
5. Long tube-support area improves resistance to vibration and line loads.

TUBE END DIMENSIONAL DATA

Size No.	Tube O.D. (in.)	Straight Thread (in.)	C (in.)	D (in.)	E (in.)	*L (in.)	W Hex (in.)
4	1/4	1/2 - 20	.50	1.34	.13	1.62	9/16
6	3/8	5/8 - 20	.63	1.58	.25	1.88	11/16
8	1/2	13/16 - 20	.69	1.85	.31	2.12	15/16
9	9/16	7/8 - 20	.75	1.91	.38	2.25	1
12	3/4	1 1/8 - 18	.88	2.26	.52	2.75	1 1/4
16	1	1 3/8 - 18	1.13	2.88	.69	3.38	1 1/2

* L = Recommended Straight Length of Circular Unbent Tubing



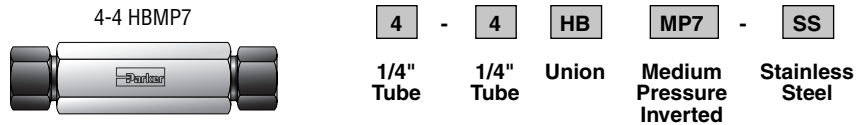
* Patent Pending

MPI™ Fittings: Parker MPI™ Fittings should be ordered using the part number as listed in this catalog. Part numbers are developed as follows:

1. A combination of letters and numbers identifies the size and style of the fitting and the material used.
2. Tube and pipe thread sizes are designated by the number of sixteenths of an inch (1/4" tube = 4/16" or 4).

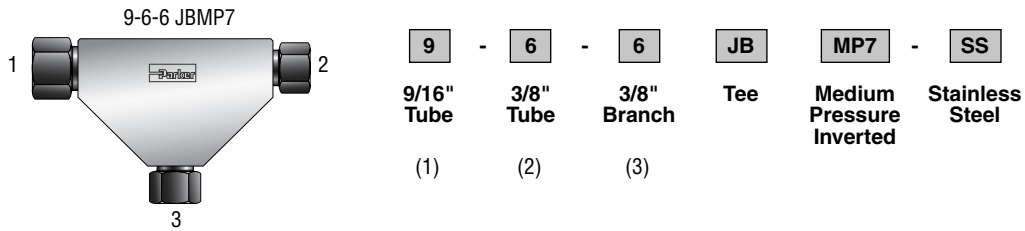
All standard MPI™ Fittings are manufactured from 316 stainless steel. Other materials are available upon special order.

STRAIGHTS AND ELBOWS: Specify the largest end of the MPI first, followed by the smaller tube end OR pipe thread size.



Example: Part number 4-4 HBMP7 union would have the specifications listed below.

TEES:
Example: Part number 9-6-6 JBMP7 would have the following specifications:



Cryogenic Service: MPI™ fittings for cryogenic applications include a vent hole to prevent pressure build-up in front of the threads. To order “vented” MPI™ parts, add “-VT” to the end of the standard part number (e.g., 6-6 HBMP7-SS becomes 6-6 HBMP7-SS-VT).

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TUBING

MPI™ TUBING

MPI™ tubing is marked “MPI” and is designed to provide optimum performance for MPI™ fittings. MPI™ tubing is nominal OD (±.003”) 316 seamless stainless steel, cold drawn - 1/8 hard (unannealed) tubing. Tensile strength is approximately 40% higher than annealed tubing.

316 Stainless Steel (Seamless/Unannealed - 1/8 Hard)				
Tube Size (in.)	Nominal OD (in.)	Nominal ID (in.)	Working Pressure	MPI™ Tube Part No.
1/4	.250	.125	15,000	4-240 MPITUBE-SS-15K
3/8	.375	.219	15,000	6-240 MPITUBE-SS-15K
9/16	.562	.344	15,000	9-240 MPITUBE-SS-15K
3/4	.750	.469	15,000	12-240 MPITUBE-SS-15K
1	1.000	.656	12,500	16-240 MPITUBE-SS-12K

NOTE: Working pressures calculated using an allowable stress of 35,000 psi for 1/8 hard 316 stainless steel tubing with a minimum tensile strength of 105,000 psi.

NOTE: Sizes 3/4" & 1" require hydraulic presetting when used with MPI™ fittings.