

PMH Fittings & XDT Tubing

Low Pressure Hydraulic Connectors



Excellent corrosion resistance, a compact envelope, fewer potential leak points and light weight make PMH fittings an ideal solution. The PMH push-to-connect hydraulic fitting is designed to speed up assembly, especially in difficult to reach areas such as hydraulic joystick ports. The push-to-connect ends reduce assembly time by 60 seconds per connection when compared to standard hose fittings.



Contact Information:

Parker Hannifin Corporation
Fluid System Connectors Division
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Product Features:

- Push-to-Connect Design
- Compact Envelope
- Lightweight
- All Brass Solution
- Multiple Configurations



ENGINEERING YOUR SUCCESS.

PMH Fittings Benefit You

Save Money, Time & Extend Product Life

PMH Push to Connect Hydraulic Fittings:

From Parker Hannifin Corp. Fluid Connectors Division

Excellent corrosion resistance, a compact envelope, fewer potential leak points and light weight make PMH fittings an ideal solution. This push-to-connect hydraulic fitting is designed to speed up assembly, especially in difficult to reach areas such as hydraulic joystick ports.

Parker PMH push to connect fittings, partnered with XDT tubing from Parflex Division, are for use with low pressure hydraulics (<435 psi) in the Industrial and Mobile Hydraulic Markets. With unique all brass solutions we can eliminate corrosion, which extends the life of the equipment. These fittings have been engineered with fewer potential leak points which reduce future warranty costs. This solution offers a smaller envelope, allowing for tighter routings and reducing the complexity of the assembly process.

With the Parker push-to-connect system, an assembler simply needs to push the tubing into the pre-installed adapter. Each PMH fitting significantly reduces assembly time by 60 seconds per connection. Along with accelerating the assembly process, the PMH/XDT system is 60% lighter than traditional pilot line hose assemblies, reducing annual shipping costs and vehicle weight.

Challenge	Solution
Assemblers were struggling with connecting hydraulic hose assemblies to tightly grouped ports on joystick controllers. The additional time required to make these difficult connections resulted in increased manufacturing costs.	<p>Parker Engineering created a push-to-connect fitting that could handle the pressure requirements of hydraulic pilot line applications.</p> <p>The assembly process has been simplified by allowing the assemblers to simply push the tubing into the pre-installed adapters. With the smaller envelope of these systems, tightly grouped ports are more accessible. Reducing tools in the production process has streamlined the manufacturing process, reducing overall costs.</p>



Applications/ Markets

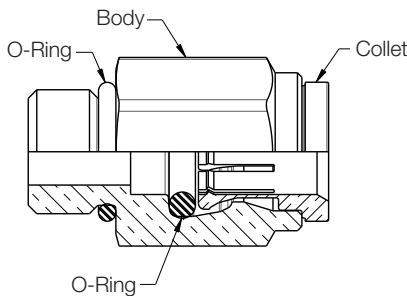
Industrial & Mobile Hydraulic Markets:

- Pilot Lines
- Hydraulic Joystick Applications
- Case Drain Applications (Compress-Align fittings)

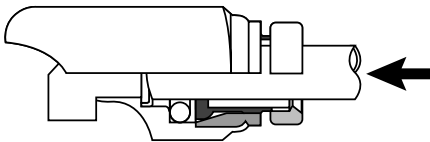
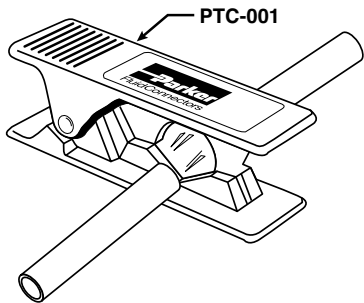


Assembly Instructions

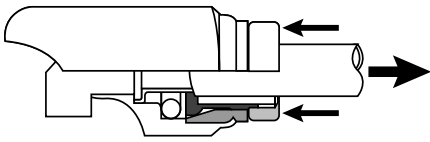
1. Check that port or mating part is clean and free of debris.
2. Insert tubing into fitting until it bottoms.
 - Push twice to verify that tubing is inserted past collet and O-Ring.
3. Pull on tubing to verify it is fully inserted.
4. To disassemble, simply press release button, hold against body and pull tubing out of the fitting. A fitting with considerable hours may not disassemble. If this happens, cut the tube close to the fitting; thread fitting out of port to remove.



Thread Size	Min Torque ft-lbs	Max Torque Ft-lbs
(-4) 7/16-20	6	10
(-6) 9/16-18	12	16
(-8) 3/4-16	18	22



Insert tubing until it bottoms



Depress button to remove tubing

PMH Fittings

SPECIFICATIONS	
PRESSURE RANGE:	UP TO 435 PSI
TEMPERATURE RANGE:	-40° TO + 200° F

APPLICABLE TUBE	
TUBE SIZE:	3/8, 1/2
APPROVED:	PARFLEX XDT

MATERIALS OF CONSTRUCTION	
FITTING BODIES:	BRASS
COLLET	BRASS
O-RING	NITRILE

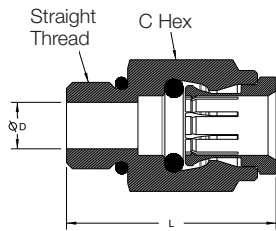
NOMENCLATURE	
EXAMPLE: 685PMH-6-4	ATTRIBUTE
68	MALE CONNECTOR
5	SAE STO
PMH	PRESTOMATIC HYDRAULIC
6	3/8 (6/16) TUBE SIZE
4	(1/4) 7/16-20 STO



Benefits

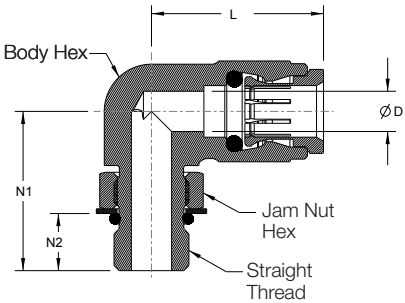
- Smaller envelop allowing for tighter routing
- Fewer potential leak paths
- Weighs 60% less than standard hydraulic fittings
- Corrosion resistant

Male Connector 685PMH



PART NO.	TUBE SIZE	STRAIGHT THREAD	L	C HEX	FLOW DIA. D
685PMH-6-4	3/8	7/16-20	1.32	3/4	.18
685PMH-6-6	3/8	9/16-18	1.35	3/4	.30
685PMH-6-8	3/8	3/4-16	1.41	7/8	.30
685PMH-8-6	1/2	9/16-18	1.49	7/8	.30
685PMH-8-8	1/2	3/4-16	1.54	7/8	.40

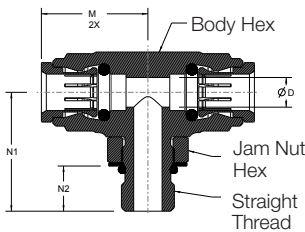
Male Connector 90° 1695PMH



PART NO.	TUBE SIZE	STRAIGHT THREAD	L	N1	N2	BODY HEX	JAM NUT HEX	FLOW DIA. D
1695PMH-6-4	3/8	7/16-20	1.12	1.18	.39	3/4	9/16	.18
1695PMH-6-6	3/8	9/16-18	1.12	1.25	.45	3/4	11/16	.30
1695PMH-6-8	3/8	3/4-16	1.12	1.4	.50	3/4	7/8	.30
1695PMH-8-6	1/2	9/16-18	1.12	1.3	.42	3/4	11/16	.30
1695PMH-8-8	1/2	3/4-16	1.12	1.4	.50	3/4	7/8	.40

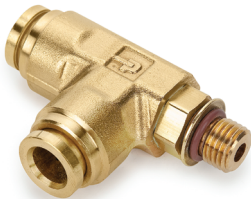
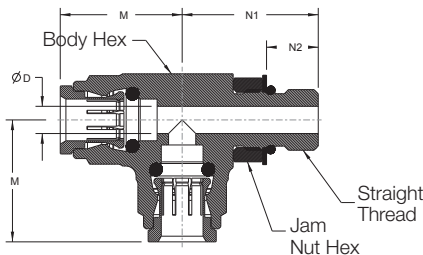
PMH Fittings

Male Branch Tee 1725PMH



PART NO.	TUBE SIZE	STRAIGHT THREAD	M	N1	N2	BODY HEX	JAM NUT HEX	FLOW DIA. D
1725PMH-6-4	3/8	7/16-20	1.12	1.18	.39	3/4	9/16	.18
1725PMH-6-6	3/8	9/16-18	1.12	1.25	.45	3/4	3/4	.30
1725PMH-6-8	3/8	3/4-16	1.12	1.4	.50	3/4	7/8	.30
1725PMH-8-6	1/2	9/16-18	1.12	1.3	.42	3/4	11/16	.30
1725PMH-8-8	1/2	3/4-16	1.12	1.4	.50	3/4	7/8	.40

Male Run Tee 1715PMH



PART NO.	TUBE SIZE	STRAIGHT THREAD	M	N1	N2	BODY HEX	JAM NUT HEX	FLOW DIA. D
1715PMH-6-4	3/8	7/16-20	1.12	1.18	.39	3/4	9/16	.18
1715PMH-6-6	3/8	9/16-18	1.12	1.25	.45	3/4	11/16	.30
1715PMH-6-8	3/8	3/4-16	1.12	1.4	.50	3/4	7/8	.30
1715PMH-8-6	1/2	9/16-18	1.12	1.3	.42	3/4	11/16	.30
1715PMH-8-8	1/2	3/4-16	1.12	1.4	.50	3/4	7/8	.40



Compress-Align Fittings

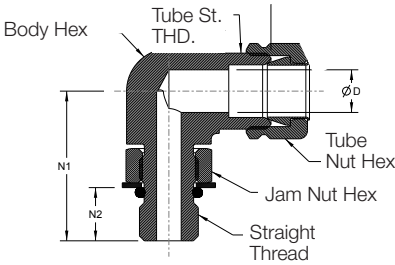
MATERIALS OF CONSTRUCTION	
FITTING BODIES:	BRASS
COLLET:	BRASS
O-RING:	NITRILE
NOMENCLATURE	
TUBE SIZE:	3/8, 1/2
APPROVED:	PARFLEX XDT
APPLICABLE TUBE	
TUBE SIZE:	3/8, 1/2
APPROVED:	PARFLEX XDT
SPECIFICATIONS	
PRESSURE RANGE:	UP TO 435 PSI
TEMPERATURE RANGE:	-40° TO +200° F

NOMENCLATURE	
EXAMPLE: 685PMH-6-4	ATTRIBUTE
68	MALE CONNECTOR
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Benefits

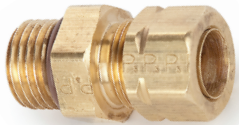
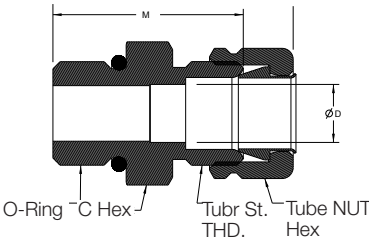
- Captive Sleeve
- Visible inspection
- Sleeve is always oriented for correct installation
- Smaller Envelop
- Fewer Potential Leak Paths
- Weighs 60% less than Standard Hydraulic Fittings
- Corrosion Resistant

Male Elbow 90° 1695 CA



PART NO.	TUBE SIZE	STRAIGHT THREAD	M	N1	N2	BODY HEX	JAM NUT HEX	FLOW DIA. D	TUBE NUT HEX	L	TUBE ST. THD.
1695CA-6-4	3/8	7/16-20	.75	1.10	.39	9/16	9/16	.18	5/8	1.03	9/16-24
1695CA-6-6	3/8	9/16-18	.94	1.17	.44	5/8	11/16	.30	5/8	1.23	9/16-24
1695CA-6-8	3/8	3/4-16	.89	1.44	.50	3/4	7/8	.31	5/8	1.18	9/16-24
1695CA-8-6	1/2	9/16-18	.94	1.17	.44	5/8	11/16	.30	13/16	1.23	11/16-20
1695CA-8-8	1/2	3/4-16	.95	1.44	.50	3/4	7/8	.40	13/16	1.38	11/16-20

Male Connector 685 CA



PART NO.	TUBE SIZE	STRAIGHT THREAD	L	C HEX	M	TUBE ST. THD.	TUBE NUT HEX	FLOW DIA. D
685CA-6-4	3/8	7/16-20	1.28	9/16	1.00	9/16-24	5/8	.18
685CA-6-6	3/8	9/16-18	1.29	11/16	1.00	9/16-24	5/8	.30
685CA-6-8	3/8	3/4-16	1.39	7/8	1.10	9/16-24	5/8	.31
685CA-8-6	1/2	9/16-18	1.35	11/16	1.06	11/16-20	13/16	.30
685CA-8-8	1/2	3/4-16	1.45	7/8	1.16	11/16-20	13/16	.30