Cartridges & Manifolds

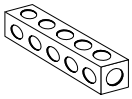
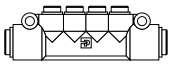
SAE Encapsulated Cartridge

- Meets Performance Requirements of D.O.T. FMVSS 571.106
- Meets Dimensional Standards of SAE J2494-4 in 6061-T6 Aluminum
- Eliminate the space and labor costs associated with pipe threads.
- Weight Reduction
- 3 barb design

Manifolds

- Light Weight Body
- Push to Connect Ports
- O-ring Seal

The World Standard

Cartridges	**PMTCE SAE** Encapsulated  Page J4					
Manifolds	**255MP** Brass Manifold  Page J5	**24M** Composite Manifold  Page J6				

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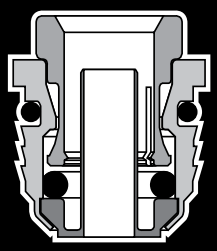
Parker Hannifin Corporation
Parker Brass Products Division
Otsego, Michigan



Prestomatic SAE Encapsulated Cartridges

Advantages
Parker Prestomatic† SAE Encapsulated Cartridges are a compact, economical design that allows the user to eliminate the space and labor required to install and assemble a conventional pipe thread fitting connection. Weight reduction and the elimination of pipe thread leakage related to improper assembly techniques are achieved. The SAE Cartridge design allows for faster and easier installation of components and assemblies. The external o-ring seals radially and does not require special chamfers at the top of the cavity to effect a seal. The SAE Cartridge includes a built in tube support. Once the SAE Cartridge is installed in a single step cavity, no special tools are needed for tube assembly. Just bottom the tubing into the cartridge body for a positive seal.

Materials
Parker's Prestomatic SAE Encapsulated Cartridges have been developed for both soft metal and plastic cavity applications. Consult factory for specific cavity or housing materials that would be suitable for a particular application.

Specifications
Cavity dimensions are per SAE Standard J2494-4. The Prestomatic SAE Encapsulated Cartridge is thoroughly tested to meet or exceed the performance requirements of DOT FMVSS 571.106. Cavity dimensions specified by SAE J2494-4 need to be adjusted slightly for optimum performance in material other than 6061-T6.

Technical Data
- Working pressure from vacuum to 250 psi
- Working temperature from -40ºF to +200ºF (Note: See tubing manufacturer's recommendations for pressure and temperatures limitations.)

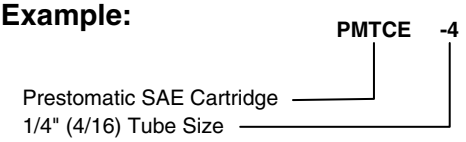
Features
- Easy assembly
- Patented Prestomatic* brass componentry which includes a shoulder for increased side load capabilities, contamination resistance features and tight internal tolerances for a close fit and smooth operation.
- Available in tube sizes 5/32", 1/4", 3/8", 1/2", 5/8" and 3/4"
- Available in elbows and straight configurations
- Built in Brass tube support assures maximum flow and performance characteristics

Tube Assembly Instructions
1. Cut Parker Parflex thermoplastic squarely using Parker tube cutter PTC-001. Metal tubing should be cut square and free of burrs.
2. Insert end of tubing into cartridge until it bottoms. Pull on tubing to verify it is properly retained
3. To disassemble, simply hold release button against the body and remove tubing
4. To reassemble, lubricate leading end of tubing with light oil or petroleum jelly

Order
By part number and name

Nomenclature
Part numbers are constructed from symbols that identify the style and size of the cartridge

Example:



Special Cartridges
Encapsulated cartridge configurations and /or sizes other than those shown in the catalog can be furnished. Non-standard o-ring materials are available. It is suggested that a print or sketch be submitted with the inquiry. Price and delivery for non-stock items furnished on request for specified quantities.

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† U.S. Patent No. 5,683,120

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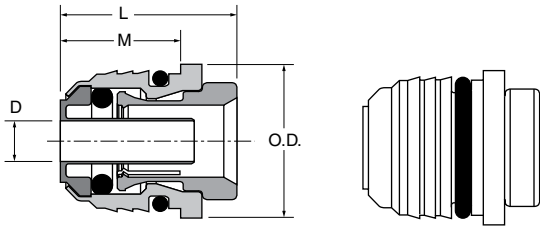
Otsego, Michigan

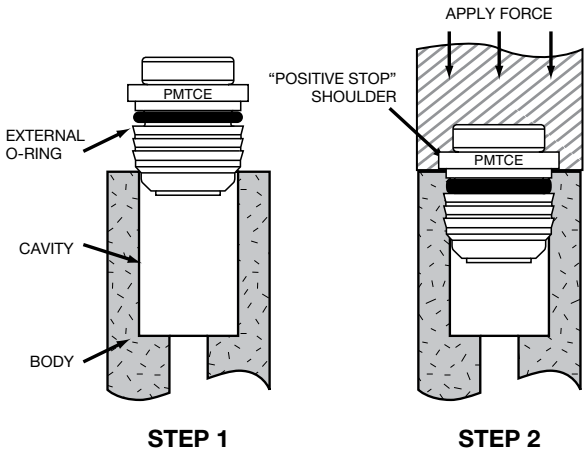
Prestomatic SAE Encapsulated Cartridge PMCE/PMTCE

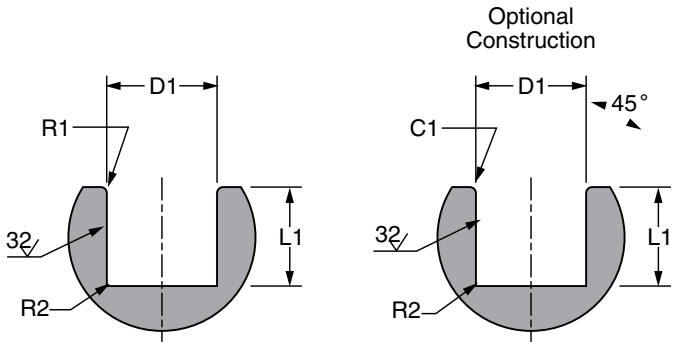
PART NO.	TUBE SIZE	CAVITY SIZE ±.002	L	M	O.D.	FLOW DIA. D
PMCE-5/32	5/32	.346	.57	.43	.44	.125
PMTCE-4	1/4	.504	.64	.44	.56	.140
PMTCE-4-8	1/4	.775	.66	.42	.87	.140
PMTCE-6	3/8	.650	.84	.64	.75	.217
PMTCE-6-8	3/8	.775	.84	.64	.87	.217
PMTCE-8	1/2	.775	.98	.77	.87	.338
PMTCE-10	5/8	.925	1.07	.86	1.00	.398
PMTCE-12	3/4	1.067	1.12	.93	1.19	.503



Installation

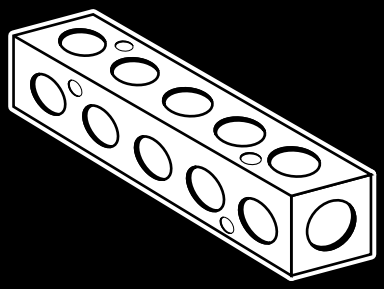
Apply force evenly over the top surface of the cartridge body until the cartridge shoulder bottoms out on the top of the cavity. The amount of force required will vary depending on the cartridge size and the material of the cavity.





Nominal Tube OD (in)	D1 (mm) ±.05	D1 (in) ±.002	L1 (mm) MIN	L1 (in) MIN	R1 (mm) ±.05	R1 (in) ±.002	R2 (mm) ±.05	R2 (in) ±.002	C1 (mm) ±.05	C1 (in) ±.002
5/32	8.80	.346	11.40	.45	.50	.02	.50	.02	.50	.02
1/4	12.80	.504	12.70	.50	.50	.02	.50	.02	.50	.02
3/8	16.50	.650	16.50	.65	.50	.02	.50	.02	.50	.02
1/2	19.70	.775	19.80	.78	.50	.02	.50	.02	.50	.02
5/8	23.50	.925	22.40	.88	.80	.03	.50	.02	.80	.03
3/4	27.10	1.067	23.90	.94	.80	.03	.50	.02	.80	.03
Cavity material is to be 6061 T6 aluminum										

† U.S. Patent No. 5,683,120



Brass Manifold

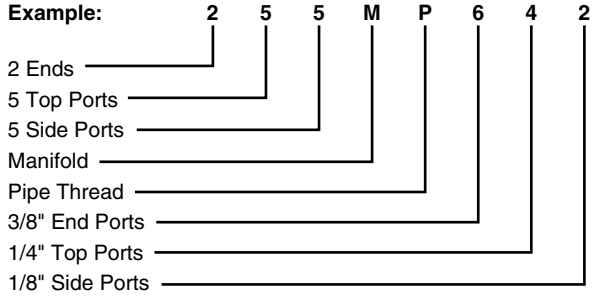
Advantages
Parker's Brass Manifold provides a convenient junction for the hook-up of multi-branch distribution lines. Porting is easy with five 1/8" and five 1/4" side ports. Two 3/8" inlet ports allow for maximum flow. Universal dual sided 7/32" mounting holes allow for easy manifold attachment.

Parker's all brass manifold can be readily identified, assuring high quality engineering and reliability. This economical manifold is machined from high quality CA360 brass.

Applications
May be used for air, water or hydraulic requirements. Specific applications include injection molders (coolant lines), packaging equipment, air logic systems (panel builders) and specialized industrial machinery requiring multiple line connections.

Temperature and Working Pressure Ranges
From -65° to +250°F at 1000 PSI maximum.

Nomenclature
Part numbers are constructed from symbols that identify the size and type of manifold. The first series of numbers and letters identifies the style and type fitting. The second series of numbers describes the size.



Special Manifolds
Manifold configurations and /or sizes other than our cataloged manifold can be furnished. It is suggested that a print or sketch be submitted with the inquiry.

Pricing
Price and delivery for non-stock items furnished on request for specified quanity.

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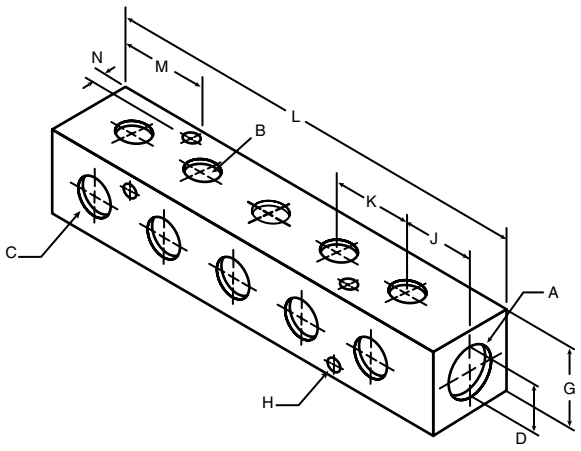
Brass Manifold 255M

PART NO.	PIPE THREAD A	PIPE THREAD B	PIPE THREAD C	G	MOUNTING HOLE DIA. H	J	K	L	M	N	D
255MP-6-4-2	3/8	1/8	1/4	1.25	.22	.88	1.13	6.25	1.45	.25	.25



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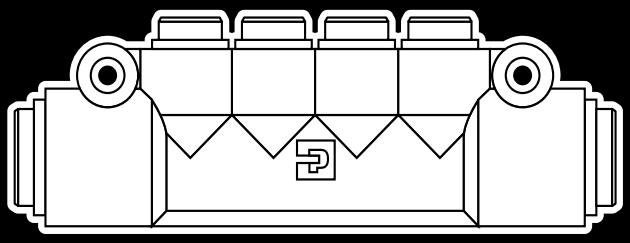

Presto Manifold

Advantages
Presto manifolds provide a convenient junction to connect multiple tubing lines for industrial and transportation applications. The glass reinforced body is lightweight yet durable. Presto manifolds contain 1/4, 3/8 and 1/2 O.D. tube inlet and outlet ports to allow for design and application flexibility. No special tools are needed to assemble. Just bottom the tubing in the port for a positive seal.

Applications
Suitable for industrial or transportation applications requiring multiple branch connections using Parker Parflex series N Nylon for industrial applications, and Parker Parflex S.A.E. J844 type A & B nylon tubing for all transportation applications. Consult the factory with any questions regarding special product applications prior to use. All applications should be carefully tested through the range of conditions that may be encountered.

Technical Data
- Body Material: Glass Filled Nylon
- O-Ring Material: Buna N (Nitrile)
- Working Pressure from: Vacuum to 150 PSI
- Working Temperature from: -40° to 200° F
  (Note: See tubing manufacturer's recommendation for pressure and temperature limitations).

Special Manifolds
Presto Manifold sizes other than those shown in the catalog can be formulated upon request. Die tooling charges may apply to non-standards. It is suggested that a print or sketch with specified buy quantities be submitted with the inquiry.

Assembly Instructions
1. Cut tubing squarely with Parker tube cutter PTC-001. Be certain that Manifold ports are clean and free of debris.
2. Insert tubing into port until it bottoms. Pull on tubing to verify that it is properly retained in the manifold.
3. To disassemble, simply hold release button against the manifold body and remove the tubing.
4. To reassemble, make certain that the Manifold ports are clean and free of debris and lubricate leading end of the tubing with light oil or petroleum jelly.

Order
By part number and name.

Nomenclature
Part numbers are constructed from symbols that identify the size and type of manifold. The first series of letters and numbers identify the style and type of manifold. The second series of numbers describe the tube O.D.

Example:

24M	6	4

Presto Manifold
Inlet Tube O.D. (6/16)
Outlet Tube O.D. (4/16)

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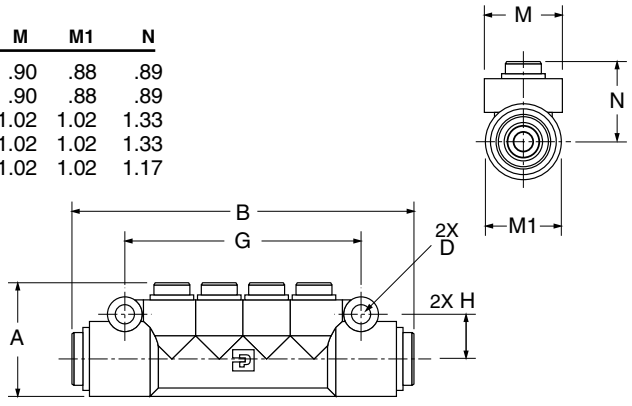
Presto Manifold 24M

PART NO.	TUBE O.D. INLET	TUBE O.D. OUTLET	A	B	D	G	H	M	M1	N
24M-4-4	1/4	1/4	1.33	3.98	.21	2.75	.53	.90	.88	.89
24M-6-4	3/8	1/4	1.33	4.00	.21	2.75	.53	.90	.88	.89
24M-6-6	3/8	3/8	1.65	6.49	.22	4.55	.60	1.02	1.02	1.33
24M-8-8	1/2	1/2	1.65	6.49	.22	4.55	.60	1.02	1.02	1.33
24M-8-6446	1/2	3/8 - 1/4	1.65	6.49	.22	4.55	.64	1.02	1.02	1.17



*U.S. Patent Number 5,683,120

Parker Hannifin Corporation
Parker Brass Products Division
Otsego, Michigan