SAE Encapsulated Cartridge
- Meets Performance Requirements of D.O.T. FMVSS 571.106
- Meets Proposed 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

Prestomatic Removable Tank Cartridge
- Meets Performance Requirements of D.O.T. FMVSS 571.106
- Meets SAE J1131 Requirements
- Double O-ring Seal

Manifolds
- Meets Performance Requirements of D.O.T. FMVSS 571.106
- Light Weight Body
- Push to Connect Ports
- O-ring Seal
<table>
<thead>
<tr>
<th>Cartridges</th>
<th>Auxiliary</th>
<th>Manifolds</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMCEN-ES Encapsulated Cartridge Replaceable Button</td>
<td>ES External Seal</td>
<td>255MP Brass Manifold</td>
</tr>
<tr>
<td>PMTCE SAE Encapsulated</td>
<td>PMB Removable Button</td>
<td>24M Composite Manifold</td>
</tr>
<tr>
<td>TCPR Removable Tank Cartridge</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Page J7
Page J7
Page J11
Page J12
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 SAE Cartridge is retained in the cavity by 3 barbs versus the normal 2 barbs for better performance over a wider diameter tolerance range. 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 the proposed SAE Standard J2494-4. The Prestomatic SAE Encapsulated Cartridge is thoroughly tested to meet or exceed the performance requirements of DOT FMVSS 571.106 and SAE J1131 and the proposed dimensional standards of SAE J2494-4 in 6061-T6 aluminum. 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 -40°F to +200°F (Note: See tubing manufacturer’s recommendations for pressure and temperatures limitations.)

Features
• Easy assembly
• Patented third generation 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 elbows and straight configurations
• Built in Brass tube support assures maximum flow and performance characteristics

**DOT only
† U.S. Patent No. 5,683,120

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:

Prestomatic SAE Cartridge
1/4" (4/16) Tube Size

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.
Prestomatic SAE Encapsulated Cartridges

Prestomatic SAE Encapsulated Cartridge PMCE/PMTCE

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

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.

Optional Construction

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 |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>5/32</td>
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<td>.346</td>
<td>11.40</td>
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<td>.02</td>
<td>.50</td>
<td>.02</td>
<td>.50</td>
<td>.02</td>
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<tr>
<td>1/4</td>
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<td>.02</td>
<td>.50</td>
<td>.02</td>
<td>.50</td>
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<tr>
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<td>.650</td>
<td>16.50</td>
<td>.65</td>
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<td>.02</td>
<td>.50</td>
<td>.02</td>
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<td>.02</td>
</tr>
<tr>
<td>1/2</td>
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<td>.50</td>
<td>.02</td>
<td>.50</td>
<td>.02</td>
</tr>
<tr>
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<td>.03</td>
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<tr>
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<td>23.90</td>
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<td>.80</td>
<td>.03</td>
<td>.50</td>
<td>.02</td>
<td>.80</td>
<td>.03</td>
</tr>
</tbody>
</table>

Cavity material is to be 6061 T6 aluminum

† U.S. Patent No. 5,683,120
Advantages
Parker Presto 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 also improved. The Presto Cartridge design allows for faster and easier installation of components and assemblies. An external o-ring is included assembled to the Presto Cartridge to insure a leak free cavity. The PMTCER includes a built in tube support. Once the Presto Cartridge is installed in a single step cavity, no special tools are needed to assemble. Just bottom the tubing into the cartridge body for a positive seal. For color coding use the PMCEN cartridge. After installation into a cavity, simply snap on the color coded release button onto the PMCEN Cartridge. The PMTCER requires no additional button assembly.

Materials
Presto Encapsulated Cartridges are designed to be installed into a thermoplastic (Nylon/Glass Filled Nylon/Acetal) cavity. Consult factory for specific cavity or housing materials that would be suitable for a particular application.

Applications
Industrial (PMCEN, PMTCER)
Once the Presto Encapsulated Cartridge is installed into an approved cavity material, use with Parker Parflex series “E” polyethylene tubing, series “N” nylon tubing, series “U” polyurethane tubing or soft metal tubing in pneumatic instrumentation circuits and various industrial applications.

Air Brake (PMCEN)
For Air Brake applications, use with Parker Parflex SAE J844 Type A and B nylon tubing. Sizes 5/32” and above meet D.O.T. FMVSS 571.106 air brake performance specifications. The addition of a stainless steel tube support (63 NTA) in sizes 1/4” and above assures that the cartridge assembly will meet the performance requirements of SAE J1131 and D.O.T. FMVSS 571.106. Consult factory for specific cavity or housing material to insure cartridge to cavity assembly will meet SAE J1131 requirements. 1/8” Presto Encapsulated Cartridges are designed for use in pressure protected air accessory lines that are isolated from the air brake system.

Air Brake (PMTCER)
For Air Brake applications use with Parker Parflex SAE J844 Type A&B nylon tubing. PMTCER cartridges with a built in tube support meet performance requirements of D.O.T. FMVSS 571.106 and SAE J1131.

Technical Data
• Working pressure from vacuum to 250 PSI
• Working temperature from -40°F to +200°F (Note: See tubing manufacturer’s recommendations for pressure and temperature limitations. Check working temperature of manifold material)
• Buna N (nitrile) O-Rings

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 the 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. Presto Encapsulated Cartridge buttons for the PMCEN are to be ordered separately from the cartridge and specified by color.

Example:

```
PMCEN  -4  ES
```

Presto Encapsulated Cartridge
1/4" (4/16) Tube Size
External Seal

Special Cartridges
Encapsulated cartridge configurations and/or sizes other than those shown in the catalog can be furnished. Non-standard o-ring materials 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.
**PMCECN Features**

- No tube support required to pass performance requirements of D.O.T. FMVSS 571.106 (PMCECN-532 & larger)
- Low profile tube connections are the same height for all sizes, simplifying multiple tube size installations.

**PMTCER Features**

- Passes performance requirements of D.O.T. FMVSS 571.106 SAE J1131 in size 1/4" and above
- Low profile tube connections are the same height for all sizes, simplifying multiple tube size installations.

**Specifications**

- **Working pressure:** Vacuum to 250 psi (See tubing manufacturer's recommendations for pressure and temperature limitations.)
- **Temperature Range:** -40°F to 200°F
- Optional o-ring materials are available
- Fewer components to inventory
- Encapsulated design eliminates the accidental omission of components during cartridge installation.
- **Color coding available**
- No threads to leak resulting from improper assembly.
- No thread sealants to contaminate air system
### Encapsulated Cartridge PMCEN-Replaceable Button (PMB listed below)

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>TUBE SIZE</th>
<th>L</th>
<th>H</th>
<th>O.D.</th>
<th>FLOW DIA. D</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMCEN-5/32ES</td>
<td>5/32</td>
<td>.59</td>
<td>.18</td>
<td>.406</td>
<td>.125</td>
</tr>
<tr>
<td>PMCEN-4ES</td>
<td>1/4</td>
<td>.62</td>
<td>.18</td>
<td>.500</td>
<td>.188</td>
</tr>
<tr>
<td>PMCEN-6ES</td>
<td>3/8</td>
<td>.81</td>
<td>.18</td>
<td>.750</td>
<td>.312</td>
</tr>
</tbody>
</table>

### Encapsulated Cartridge PMTCER-Removeable Collet and O-ring

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>TUBE SIZE</th>
<th>L</th>
<th>H</th>
<th>O.D.</th>
<th>FLOW DIA. D</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMTCER-4ES</td>
<td>1/4</td>
<td>.65</td>
<td>.21</td>
<td>.500</td>
<td>.138</td>
</tr>
<tr>
<td>PMTCER-6ES</td>
<td>3/8</td>
<td>.84</td>
<td>.21</td>
<td>.750</td>
<td>.215</td>
</tr>
</tbody>
</table>

### External Seal ES*

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>TUBE SIZE</th>
<th>I.D.</th>
<th>W</th>
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</thead>
<tbody>
<tr>
<td>ES-2†</td>
<td>1/8</td>
<td>.283</td>
<td>.040</td>
</tr>
<tr>
<td>ES-4</td>
<td>1/4</td>
<td>.390</td>
<td>.040</td>
</tr>
<tr>
<td>ES-6</td>
<td>3/8</td>
<td>.585</td>
<td>.060</td>
</tr>
</tbody>
</table>

*Material is Nitrite (Buna N), 70 Durometer
† Note: ES2 is to be used with PMCEN-5/32

### Removable Cartridge Button PMB

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>TUBE SIZE</th>
<th>O.D.</th>
<th>L</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/32PMB-X</td>
<td>5/32</td>
<td>.335</td>
<td>.109</td>
</tr>
<tr>
<td>4PMB-X</td>
<td>1/4</td>
<td>.460</td>
<td>.109</td>
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<tr>
<td>6PMB-X</td>
<td>3/8</td>
<td>.710</td>
<td>.109</td>
</tr>
</tbody>
</table>

Specify Color When Ordering,
Example: 4PMB-BU
Colors Available:
BU-Blue  G-Green  O-Orange
P-Purple  R-Red    Y-Yellow
W-White  BL-Black  GY-Gray

Note:
4PMB not available in W

*For PMCEN Cartridges only*
### Cartridge Dimensions

<table>
<thead>
<tr>
<th>TUBE SIZE</th>
<th>A</th>
<th>B</th>
<th>C DIA.</th>
<th>H DIA.</th>
<th>J</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/32</td>
<td>.18</td>
<td>.21</td>
<td>.406</td>
<td>.21</td>
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<tr>
<td>3/16</td>
<td>.18</td>
<td>.21</td>
<td>.437</td>
<td>.24</td>
<td>.10</td>
</tr>
<tr>
<td>1/4</td>
<td>.18</td>
<td>.21</td>
<td>.500</td>
<td>.31</td>
<td>.10</td>
</tr>
<tr>
<td>3/8</td>
<td>.18</td>
<td>.21</td>
<td>.750</td>
<td>.43</td>
<td>.10</td>
</tr>
</tbody>
</table>

### Cavity Dimensions

For use with glass filled nylon and acetal

<table>
<thead>
<tr>
<th>TUBE SIZE</th>
<th>E DIA. ± .002</th>
<th>F DIA. ± .002</th>
<th>G DIA. MIN.</th>
<th>D MIN.</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/32</td>
<td>.326</td>
<td>.358</td>
<td>.125</td>
<td>.43</td>
</tr>
<tr>
<td>3/16</td>
<td>.357</td>
<td>.389</td>
<td>.156</td>
<td>.43</td>
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<tr>
<td>1/4</td>
<td>.433</td>
<td>.465</td>
<td>.188</td>
<td>.46</td>
</tr>
<tr>
<td>3/8</td>
<td>.648</td>
<td>.696</td>
<td>.312</td>
<td>.65</td>
</tr>
</tbody>
</table>

Note: Dia. F x 15° chamfer required for external o-ring

### PMCEN Cartridge Installation Instructions

1. **STEP 1**: ASSEMBLY TOOL
2. **STEP 2**: "POSITIVE STOP" SHOULDER
3. **STEP 3**: BODY SURFACE

### PMTCER Cartridge Installation Instructions

1. **STEP 1**: ASSEMBLY TOOL
2. **STEP 2**: "POSITIVE STOP" SHOULDER
Prestomatic Removable Tank Cartridges

Advantages
Leakage and assembly problems encountered with the use of pipe threaded fittings in out-of-round internal threads that are commonly found in air tank spuds prompted the development of the Prestomatic® Removal Tank Cartridge. This threadless cartridge is retained in the spud by a standard retaining ring, and the double Buna-N (Nitrile) o-ring seal virtually guarantees leak free performance.

Specifications
The Prestomatic removable tank cartridge has been thoroughly tested and meets or exceeds the requirements of DOT FMVSS 571.106 and SAE J1131.

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

Features
• Easy assembly
• Patented third generation Prestomatic® brass componentry which includes a shoulder for increased side load capabilities, contamination resistance features and tight internal tolerances for a close fit ans smooth operation
• Available in sizes 3/8", 1/2", 5/8" and 3/4"
• Available in straight and elbow configurations

Tube Assembly Instructions
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

Order
By part number and name

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

Example:
TCPR 169 -6
Optional, Forged Elbow 90
Removable Tank Cartridge
3/8" (6/16) Tube Size

Special Cartridges
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.
## Spud Port Requirements for the Removable Tank Cartridge

<table>
<thead>
<tr>
<th>TUBE SIZE</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>L1</th>
<th>CLEARANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot;, 1/2&quot;</td>
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<td>.949</td>
<td>1.27</td>
<td>.58</td>
<td>See Cartridge</td>
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<tr>
<td>5/8&quot;, 3/4&quot;</td>
<td>1.314</td>
<td>1.396</td>
<td>1.100</td>
<td>1.60</td>
<td>.69</td>
<td>Dimensions</td>
</tr>
</tbody>
</table>

**Dimensions**

L1-cavity length required for sealing
L-clearance required for cartridge

---

## Prestomatic Removable Tank Cartridge TCPR

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>TUBE SIZE</th>
<th>RR*</th>
<th>L</th>
<th>N</th>
<th>FLOW DIAM. D</th>
<th>L CLEARANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>TCPR-6</td>
<td>3/8</td>
<td>HOI-106</td>
<td>.83</td>
<td>.93</td>
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<td>.62</td>
</tr>
<tr>
<td>TCPR-8</td>
<td>1/2</td>
<td>HOI-106</td>
<td>.97</td>
<td>.93</td>
<td>.338</td>
<td>.65</td>
</tr>
<tr>
<td>TCPR-10</td>
<td>5/8</td>
<td>HOI-131</td>
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<td>1.08</td>
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<td>.75</td>
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<tr>
<td>TCPR-12</td>
<td>3/4</td>
<td>HOI-131</td>
<td>1.15</td>
<td>1.19</td>
<td>.500</td>
<td>.90</td>
</tr>
</tbody>
</table>

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.

Example:
2 Ends
5 Top Ports
5 Side Ports
Manifold
Pipe Thread
3/8" End Ports
1/4" Top Ports
1/8" Side Ports

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 quantity.

Brass Manifold 255M

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>PIPE THREAD A</th>
<th>PIPE THREAD B</th>
<th>PIPE THREAD C</th>
<th>MOUNTING HOLE DIA. G</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>255MP-6-4-2</td>
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<td>1/8</td>
<td>1/4</td>
<td>1.25</td>
<td>.22</td>
<td>.88</td>
<td>1.13</td>
<td>6.25</td>
<td>1.45</td>
<td>.25</td>
</tr>
</tbody>
</table>
**Advantages**
Presto manifolds provide a convenient junction to connect multiple tubing lines for industrial and transportation applications. With their patented* tube retention design these manifolds meet all of the air brake performance specifications of D.O.T. FMVSS 571.106. 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:**
Presto Manifold
Inlet Tube O.D. (6/16)
Outlet Tube O.D. (4/16)

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