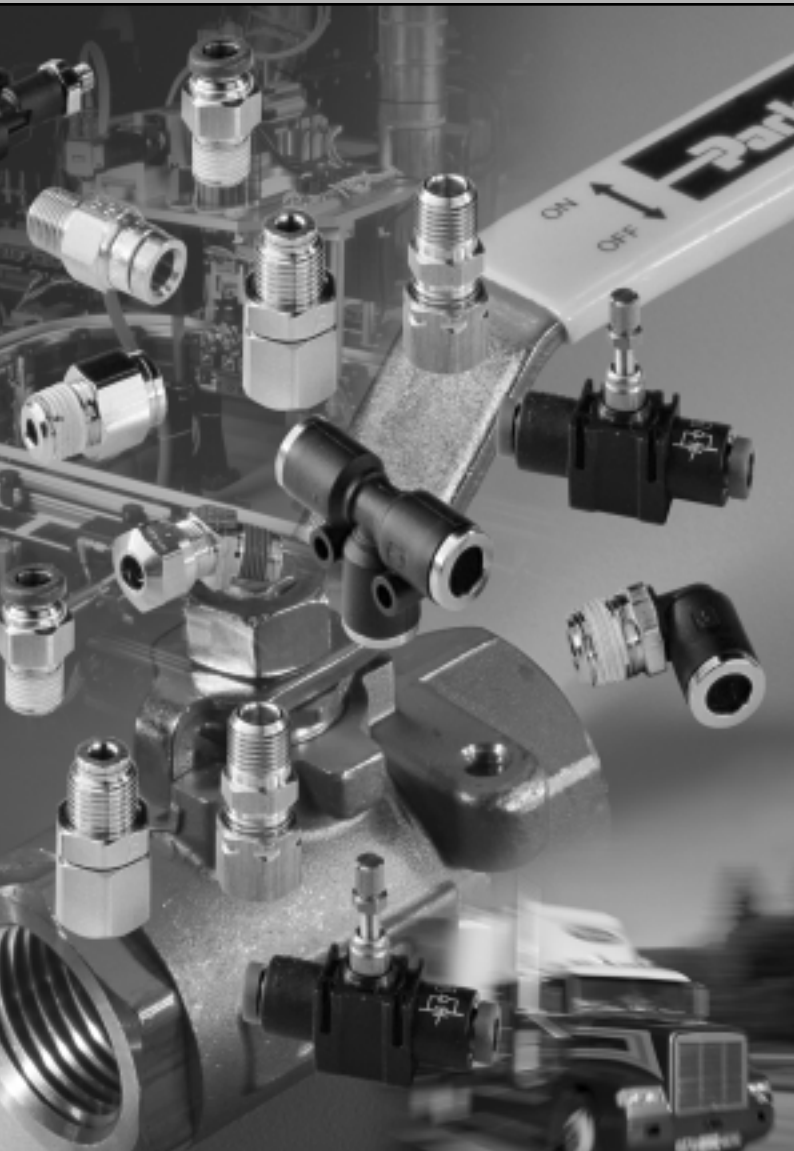


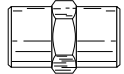
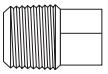
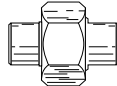
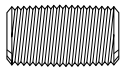
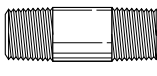
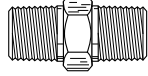
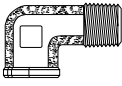
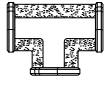
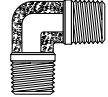
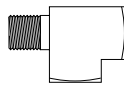
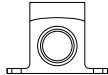
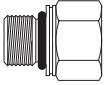
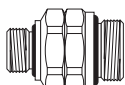
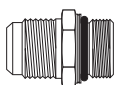
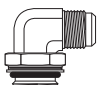
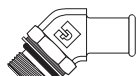
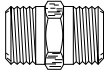
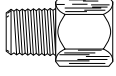
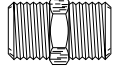
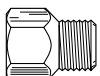
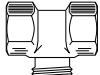
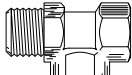


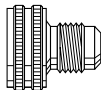
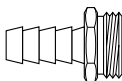
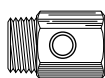
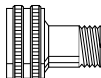
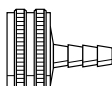
# ***Adapters***

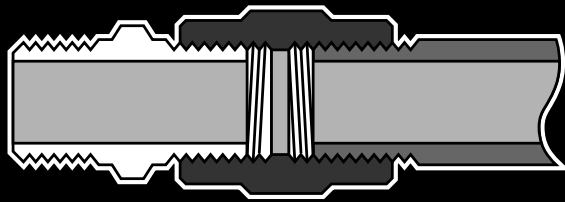


|                                    |     |
|------------------------------------|-----|
| Pipe Fittings .....                | E4  |
| Parker Brass Metric Adapters ..... | E12 |
| ISO Port Adapters .....            | E17 |
| Garden Hose Fittings .....         | E20 |

***The World Standard***

|                                |                                                                                                                                         |                                                                                                                                   |                                                                                                                                     |                                                                                                                                    |                                                                                                                                         |                                                                                                                                       |                                                                                                                                           |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Industrial<br>Pipe<br>Fittings | <b>207ACBH</b><br>Anchor Coupling<br><br>Page E6       | <b>207P</b><br>Pipe Coupling<br><br>Page E6      | <b>208P</b><br>Reducer Coupling<br><br>Page E6     | <b>209P</b><br>Pipe Bushing<br><br>Page E6       | <b>210P</b><br>Lock Nut<br><br>Page E6               | <b>211P</b><br>Square-head Plug<br><br>Page E7     |                                                                                                                                           |
|                                | <b>212P</b><br>Union<br><br>Page E7                    | <b>213P</b><br>Cap<br><br>Page E7                | <b>215PN</b><br>Close Nipple<br><br>Page E7        | <b>215PNL</b><br>Long Nipple<br><br>Page E7       | <b>216P</b><br>Hex Nipple<br><br>Page E8              | <b>218P</b><br>Hex-Head Plug<br><br>Page E8        | <b>219P</b><br>Countersunk Plug<br><br>Page E8         |
|                                | <b>220P</b><br>Slotted-Head Plug<br><br>Page E8        | <b>222P</b><br>Adapter<br><br>Page E9            | <b>1200P-2200P</b><br>Union Elbow<br><br>Page E9   | <b>1202P-2202P</b><br>Street Elbow<br><br>Page E9 | <b>1203P-2203P</b><br>Union Tee<br><br>Page E10       | <b>1204P</b><br>Male Elbow<br><br>Page E10         | <b>2224P</b><br>Male Branch Tee<br><br>Page E10        |
|                                | <b>2225P</b><br>Street Tee<br><br>Page E10             | <b>2200PDE</b><br>Drop-Ear Elbow<br><br>Page E11 | <b>2201P</b><br>45° Female Elbow<br><br>Page E11   | <b>2205P</b><br>Cross<br><br>Page E11             | <b>2214P</b><br>45° Street Elbow<br><br>Page E11      | Metric<br>Straight<br>Thread<br>Adapters                                                                                              | <b>222P-MI</b><br>Adapter<br><br>Page E14 & E18        |
|                                | <b>M16M22F8UHA8UB</b><br>Union<br><br>Page E14 & E18 | <b>48F-MI</b><br>Flare Adapter<br><br>Page E18 | <b>149F-MI</b><br>Flare Adapter<br><br>Page E18  | <b>159F-MI</b><br>Flare Adapter<br><br>Page E18 | <b>68HB-MI</b><br>Hose Barb Adapter<br><br>Page E19 |                                                                                                                                       | <b>169HB-MI</b><br>Hose Barb Adapter<br><br>Page E19 |
|                                | <b>179HB-MI</b><br>Hose Barb Adapter<br><br>Page E19 | BSP<br>Adapters                                                                                                                   | <b>CD43</b><br>Street Elbow<br><br>Page E13      | <b>DD44</b><br>Elbow<br><br>Page E13            | <b>F3HF</b><br>Hex Nipple NPTF-BSPT<br><br>Page E13 | <b>F3HG</b><br>Adapter-Male BSPT<br><br>Page E13 | <b>FF33</b><br>BSPT Hex Nipple<br><br>Page E13       |
|                                | <b>FF44</b><br>BSPP Hex Nipple<br><br>Page E14       |                                                                                                                                   | <b>FG43</b><br>Adapter-Male BSPT<br><br>Page E14 | <b>FHG4</b><br>Female-BSPP<br><br>Page E14      | <b>GG44</b><br>Coupling BSPP<br><br>Page E15         | <b>HHP3</b><br>BSPT Plug<br><br>Page E15          | <b>HP3</b><br>BSPT Plug<br><br>Page E15              |
|                                | <b>MMO444</b><br>BSPP Tee<br><br>Page E15            | <b>MMS443</b><br>Branch Tee<br><br>Page E16    | <b>MRO434</b><br>Run Tee<br><br>Page E16         | <b>PTR34</b><br>Pipe Reducer<br><br>Page E16    | <b>WGG44</b><br>Bulkhead Union<br><br>Page 16       |                                                                                                                                       |                                                                                                                                           |

|                                         |                                                                                                                                                                |                                                                                                                                                                  |                                                                                                                                                               |                                                                                                                                                    |                                                                                                                                                                        |                                                                                                                                                         |                                                                                                                                                          |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>Garden<br/>Hose<br/>Fittings</div> | <div>50GHSV<br/>Swivel Connector</div> <div></div> <div>Page E21</div>        | <div>53GH,54GH,<br/>55GH<br/>Hose Barb</div> <div></div> <div>Page E21</div>    | <div>69GH,70GH,<br/>71GH<br/>Male Pipe</div> <div></div> <div>Page E21</div> | <div>75GH<br/>Connector</div> <div></div> <div>Page E21</div>    | <div>78GH,79GH,<br/>80GH,81GH<br/>Female Pipe</div> <div></div> <div>Page E21</div> | <div>82GH,83GH<br/>Female Hose</div> <div></div> <div>Page E21</div> |                                                                                                                                                          |
|                                         | <div>84GH<br/>Filter Adapter</div> <div></div> <div>Page E21</div>            | <div>88GH<br/>Swivel Connector</div> <div></div> <div>Page E22</div>            | <div>90GH<br/>Swivel Connector</div> <div></div> <div>Page E22</div>         | <div>94GH<br/>Hose Nut</div> <div></div> <div>Page E22</div>      | <div>95GH<br/>Hose Nut<br/>Reducer</div> <div></div> <div>Page E22</div>             | <div>96GH<br/>Hose Cap</div> <div></div> <div>Page E22</div>         | <div>98GH,99GH<br/>Hose to Pipe</div> <div></div> <div>Page E22</div> |
|                                         | <div>98GHSV,99GHSV<br/>Swivel Connector</div> <div></div> <div>Page E23</div> | <div>101GHSV<br/>Swivel Nut<br/>Connector</div> <div></div> <div>Page E23</div> | <div>1163-60-BPD<br/>Coupler</div> <div></div> <div>Page E23</div>           | <div>1163-61-BPD<br/>Nipple</div> <div></div> <div>Page E23</div> | <div>Auxiliary</div>                                                                                                                                                   | <div>112<br/>Copper Ring</div> <div></div> <div>Page E16</div>       | <div>901GH<br/>Rubber Washer</div> <div></div> <div>Page E23</div>    |
|                                         |                                                                                                                                                                |                                                                                                                                                                  |                                                                                                                                                               |                                                                                                                                                    |                                                                                                                                                                        |                                                                                                                                                         |                                                                                                                                                          |
|                                         |                                                                                                                                                                |                                                                                                                                                                  |                                                                                                                                                               |                                                                                                                                                    |                                                                                                                                                                        |                                                                                                                                                         |                                                                                                                                                          |
|                                         |                                                                                                                                                                |                                                                                                                                                                  |                                                                                                                                                               |                                                                                                                                                    |                                                                                                                                                                        |                                                                                                                                                         |                                                                                                                                                          |
|                                         |                                                                                                                                                                |                                                                                                                                                                  |                                                                                                                                                               |                                                                                                                                                    |                                                                                                                                                                        |                                                                                                                                                         |                                                                                                                                                          |



## Pipe Fittings

E

### Advantages

All pipe fitting threads are made to Dryseal standards.\* Connectors, unions, nuts and extruded elbows and tees are machined from CA 360 and CA 345 brass; forged elbows and tees are machined from CA 377 brass.

### Specifications

Meets functional requirements of the SAE J530, SAE J531 and ASA.

### Applications

Use with brass, copper or iron pipe. Manufactured for low and medium pressure line connection work.

### Working Pressure and Temperature Ranges

From -65° to +250°F. at 1000 psi.

### Vibration

Fair resistance to vibration and pipe movement depending upon conditions.

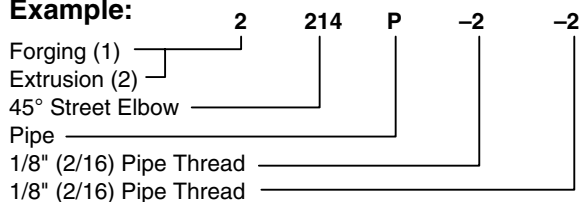
### Order

By part number and name.

### Nomenclature

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

#### Example:



### Sizes

Pipe sizes are determined by the number of sixteenths of an inch in the pipe size.

### Special Fittings

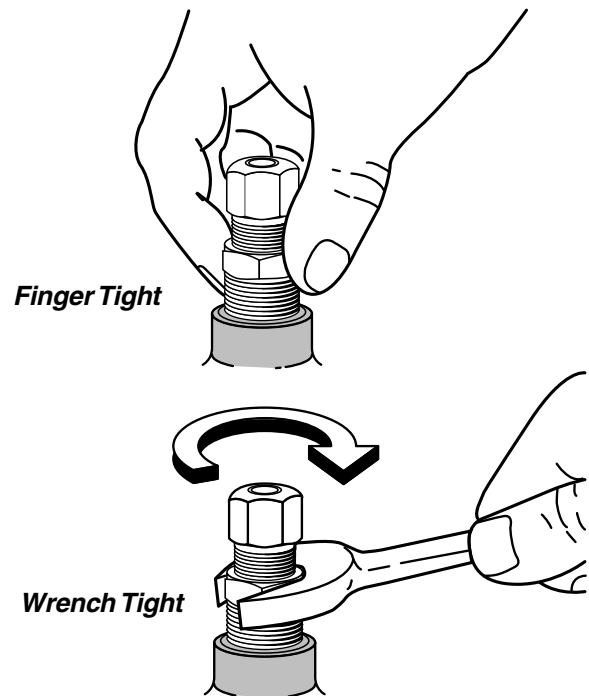
Fitting configurations and/or sizes other than those shown in the catalog can be furnished. It is suggested that a print or sketch be submitted with the inquiry.

### Pricing

Only items prices in current supplementary price list PL3501 are carried in stock. Price and delivery for non-stock items furnished on request for specified quantity.

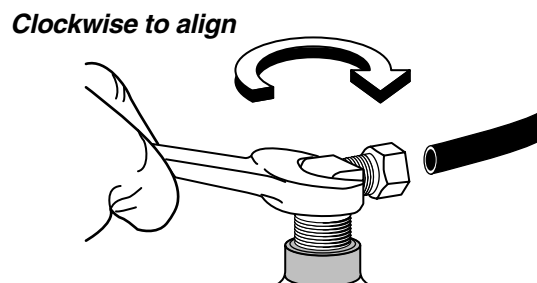
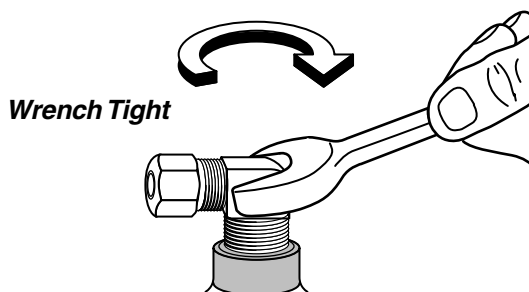
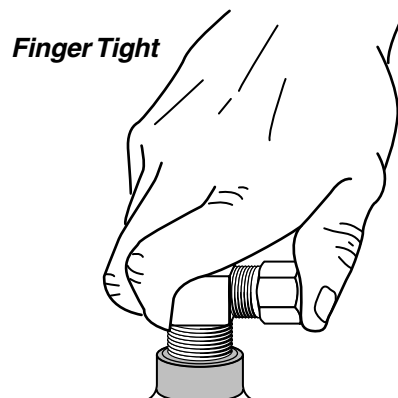
**Pipe thread assembly guide (turns method)  
for Dryseal threads with pre-applied Vibra Seal****Straight Fittings**

1. Tighten external thread into the internal thread.
2. Tighten an additional 2 revolutions with a wrench up to 1/2 in. male pipe thread. Above 1/2 in., 1 1/2 to 2 1/2 revolutions.

**E****Elbow or Tee Fittings**

1. Tighten external thread into the internal thread.
2. Tighten an additional 1 to 1 1/2 revolutions with a wrench.
3. Tighten fitting, Clockwise, to Align with Tubing (never counter clockwise).

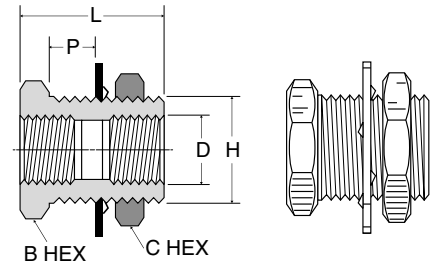
*Note: To minimize the possibility of a leaking threaded joint after assembling male to female pipe threads, neither end should be backed out (loosened) once the assembly has been made.*



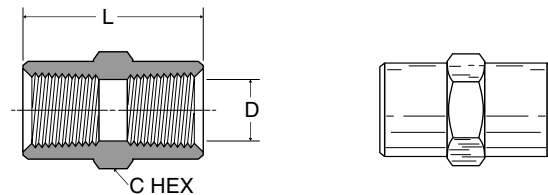
**Anchor Coupling 207ACBH**

| PART NO.    | FEAMLE PIPE THREAD | STRAIGHT THREAD | MAX. BULK HEAD P | B HEX | C HEX | L    | BULKHEAD HOLE DIA. H | FLOW DIA. D |
|-------------|--------------------|-----------------|------------------|-------|-------|------|----------------------|-------------|
| 207ACBH-2   | 1/8                | 5/8-18          | .80              | 7/8   | 15/16 | 1.50 | 5/8                  | .328        |
| 207ACBH-2   | 1/8                | 5/8-18          | .35              | 7/8   | 15/16 | .96  | 5/8                  | .328        |
| 207ACBH-4   | 1/4                | 3/4-16          | .75              | 1     | 1-1/8 | 1.50 | 3/4                  | .422        |
| 207ACBH-4   | 1/4                | 3/4-16          | .19              | 1     | 1     | .94  | 3/4                  | .422        |
| 207ACBH-6   | 3/8                | 1-14            | .50              | 1-1/8 | 1-1/4 | 1.31 | 1                    | .562        |
| 207ACBH-8   | 1/2                | 1-1/8-14        | .67              | 1-1/4 | 1-3/8 | 1.50 | 1-1/8                | .688        |
| 207ACBH-12  | 3/4                | 1-5/16-12       | .65              | 1-1/2 | 1-1/2 | 1.50 | 1-5/16               | .890        |
| 207ACBH-16* | 1                  | 1-5/8-14        | 1.00             | 2     | 2     | 1.68 | 1-5/8                | 1.140       |

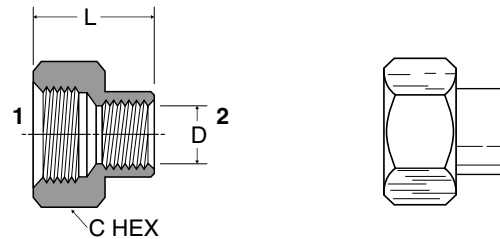
\*Lock Washer not Available

**Coupling 207P**

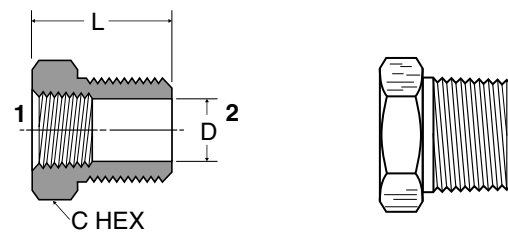
| PART NO. | PIPE THREAD | C HEX  | L    | FLOW DIA. D |
|----------|-------------|--------|------|-------------|
| 207P-2   | 1/8         | 9/16   | .75  | .328        |
| 207P-4   | 1/4         | 3/4    | 1.12 | .422        |
| 207P-6   | 3/8         | 7/8    | 1.12 | .562        |
| 207P-8   | 1/2         | 1-1/16 | 1.50 | .688        |
| 207P-12  | 3/4         | 1-3/8  | 1.53 | .900        |

**Reducer Coupling 208P**

| PART NO.  | 1 PIPE THREAD | 2 PIPE THREAD | C HEX  | L    | FLOW DIA. D |
|-----------|---------------|---------------|--------|------|-------------|
| 208P-4-2  | 1/4           | 1/8           | 3/4    | .97  | .328        |
| 208P-6-4  | 3/8           | 1/4           | 7/8    | 1.16 | .422        |
| 208P-8-4  | 1/2           | 1/4           | 1-1/16 | 1.28 | .422        |
| 208P-8-6  | 1/2           | 3/8           | 1-1/16 | 1.38 | .562        |
| 208P-12-6 | 3/4           | 3/8           | 1-3/8  | 1.32 | .562        |
| 208P-12-8 | 3/4           | 1/2           | 1-3/8  | 1.50 | .688        |

**Bushing 209P**

| PART NO.   | 1 PIPE THREAD | 2 PIPE THREAD | C HEX | L    | FLOW DIA. D |
|------------|---------------|---------------|-------|------|-------------|
| 209P-4-2   | 1/8           | 1/4           | 9/16  | .75  | .328        |
| 209P-6-2   | 1/8           | 3/8           | 11/16 | .75  | .328        |
| 209P-6-4   | 1/4           | 3/8           | 3/4   | .75  | .422        |
| 209P-8-2   | 1/8           | 1/2           | 7/8   | 1.00 | .328        |
| 209P-8-4   | 1/4           | 1/2           | 7/8   | 1.00 | .422        |
| 209P-8-6   | 3/8           | 1/2           | 7/8   | 1.00 | .562        |
| 209P-12-2  | 1/8           | 3/4           | 1-1/8 | 1.00 | .328        |
| 209P-12-4  | 1/4           | 3/4           | 1-1/8 | 1.00 | .422        |
| 209P-12-6  | 3/8           | 3/4           | 1-1/8 | 1.00 | .562        |
| 209P-12-8  | 1/2           | 3/4           | 1-1/8 | 1.00 | .688        |
| 209P-16-8  | 1/2           | 1             | 1-3/8 | 1.31 | .688        |
| 209P-16-12 | 3/4           | 1             | 1-3/8 | 1.31 | .880        |

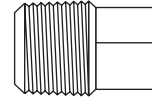
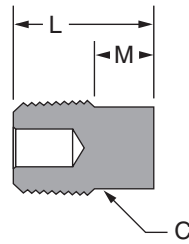
**Lock Nut 210P**

| PART NO. | PIPE THREAD | C HEX | L   |
|----------|-------------|-------|-----|
| 210P-2   | 1/8 NPSL    | 11/16 | .19 |
| 210P-4   | 1/4 NPSL    | 7/8   | .25 |
| 210P-6   | 3/8 NPSL    | 1     | .25 |
| 210P-8   | 1/2 NPSL    | 1-1/8 | .25 |

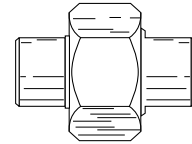
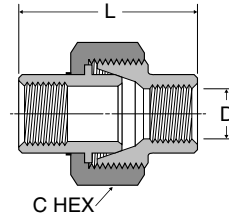


**Square-Head Plug 211P**

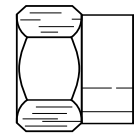
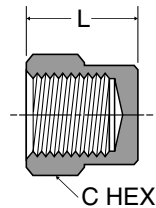
| PART NO. | PIPE THREAD | C     | L    | M   |
|----------|-------------|-------|------|-----|
| 211P-2   | 1/8         | 9/32  | .59  | .25 |
| 211P-4   | 1/4         | 3/8   | .80  | .30 |
| 211P-6   | 3/8         | 15/32 | .80  | .30 |
| 211P-8   | 1/2         | 9/16  | 1.07 | .39 |
| 211P-12  | 3/4         | 5/8   | 1.14 | .45 |

**Union 212P**

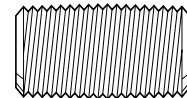
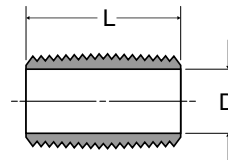
| PART NO. | PIPE THREAD | C HEX  | L    | D    |
|----------|-------------|--------|------|------|
| 212P-4   | 1/4         | 1-3/16 | 1.53 | .422 |
| 212P-6   | 3/8         | 1-1/4  | 1.79 | .562 |

**Cap 213P**

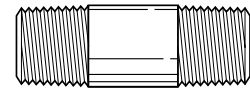
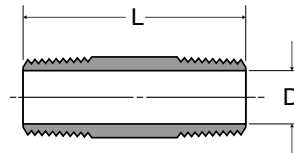
| PART NO. | PIPE THREAD | C HEX  | L   |
|----------|-------------|--------|-----|
| 213P-2   | 1/8         | 9/16   | .50 |
| 213P-4   | 1/4         | 11/16  | .63 |
| 213P-6   | 3/8         | 13/16  | .63 |
| 213P-8   | 1/2         | 1-1/16 | .87 |
| 213P-12  | 3/4         | 1-1/4  | .89 |

**Close Nipple 215PN**

| PART NO. | PIPE THREAD | L    | FLOW DIA.D |
|----------|-------------|------|------------|
| 215PN-2  | 1/8         | .75  | .281       |
| 215PN-4  | 1/4         | .88  | .375       |
| 215PN-6  | 3/8         | 1.00 | .500       |
| 215PN-8  | 1/2         | 1.13 | .625       |
| 215PN-12 | 3/4         | 1.31 | .750       |

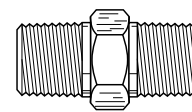
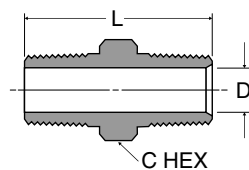
**Long Nipple 215PNL**

| PART NO.    | PIPE THREAD | L     | FLOW DIA.D |
|-------------|-------------|-------|------------|
| 215PNL-2-15 | 1/8         | 1-1/2 | .250       |
| 215PNL-4-15 | 1/4         | 1-1/2 | .375       |
| 215PNL-6-15 | 3/8         | 1-1/2 | .500       |
| 215PNL-8-15 | 1/2         | 1-1/2 | .625       |
| 215PNL-2-20 | 1/8         | 2     | .250       |
| 215PNL-4-20 | 1/4         | 2     | .375       |
| 215PNL-6-20 | 3/8         | 2     | .500       |
| 215PNL-8-20 | 1/2         | 2     | .625       |
| 215PNL-2-25 | 1/8         | 2-1/2 | .250       |
| 215PNL-4-25 | 1/4         | 2-1/2 | .375       |
| 215PNL-6-25 | 3/8         | 2-1/2 | .500       |
| 215PNL-8-25 | 1/2         | 2-1/2 | .625       |
| 215PNL-2-30 | 1/8         | 3     | .250       |
| 215PNL-4-30 | 1/4         | 3     | .375       |
| 215PNL-6-30 | 3/8         | 3     | .500       |
| 215PNL-8-30 | 1/2         | 3     | .625       |
| 215PNL-2-35 | 1/8         | 3-1/2 | .250       |
| 215PNL-4-35 | 1/4         | 3-1/2 | .375       |
| 215PNL-6-35 | 3/8         | 3-1/2 | .500       |
| 215PNL-8-35 | 1/2         | 3-1/2 | .625       |

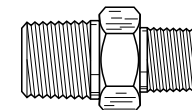
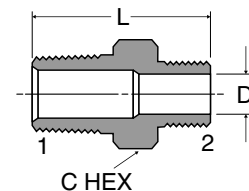


**Hex Nipple 216P**

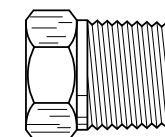
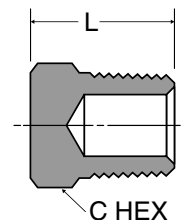
| PART NO. | PIPE THREAD | C HEX  | L    | FLOW DIA. D |
|----------|-------------|--------|------|-------------|
| 216P-2   | 1/8         | 7/16   | .97  | .220        |
| 216P-4   | 1/4         | 9/16   | 1.38 | .314        |
| 216P-6   | 3/8         | 11/16  | 1.41 | .440        |
| 216P-8   | 1/2         | 7/8    | 1.81 | .564        |
| 216P-12  | 3/4         | 1-1/16 | 1.81 | .752        |

**Hex Nipple Reducers 216P**

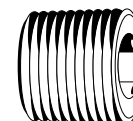
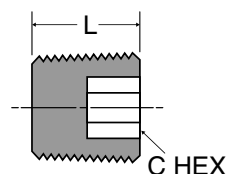
| PART NO.  | 1 PIPE THREAD | 2 PIPE THREAD | C HEX  | L    | FLOW DIA. D |
|-----------|---------------|---------------|--------|------|-------------|
| 216P-4-2  | 1/4           | 1/8           | 9/16   | 1.19 | .220        |
| 216P-6-2  | 3/8           | 1/8           | 11/16  | 1.22 | .220        |
| 216P-6-4  | 3/8           | 1/4           | 11/16  | 1.41 | .314        |
| 216P-8-4  | 1/2           | 1/4           | 7/8    | 1.62 | .314        |
| 216P-8-6  | 1/2           | 3/8           | 7/8    | 1.62 | .440        |
| 216P-12-8 | 3/4           | 1/2           | 1-1/16 | 1.80 | .564        |

**Hex-Head Plug 218P**

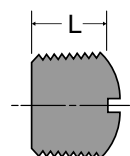
| PART NO. | PIPE THREAD | C HEX  | L     |
|----------|-------------|--------|-------|
| 218P-2   | 1/8         | 7/16   | .560  |
| 218P-4   | 1/4         | 9/16   | .750  |
| 218P-6   | 3/8         | 11/16  | .780  |
| 218P-8   | 1/2         | 7/8    | .970  |
| 218P-12  | 3/4         | 1-1/16 | 1.063 |

**Countersunk Hex-Head Plug 219P**

| PART NO. | PIPE THREAD | C HEX | L   |
|----------|-------------|-------|-----|
| 219P-2   | 1/8         | 3/16  | .30 |
| 219P-4   | 1/4         | 1/4   | .46 |
| 219P-6   | 3/8         | 5/16  | .47 |
| 219P-8   | 1/2         | 3/8   | .61 |
| 219P-12  | 3/4         | 9/16  | .62 |

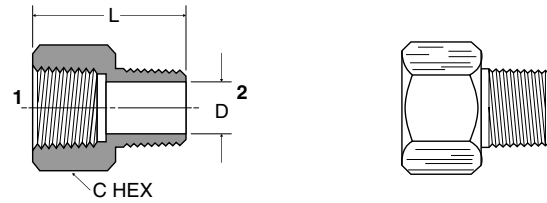
**Slotted-Head Plug 220P**

| PART NO. | PIPE THREAD | L   |
|----------|-------------|-----|
| 220P-2   | 1/8         | .31 |
| 220P-4   | 1/4         | .42 |
| 220P-6   | 3/8         | .43 |

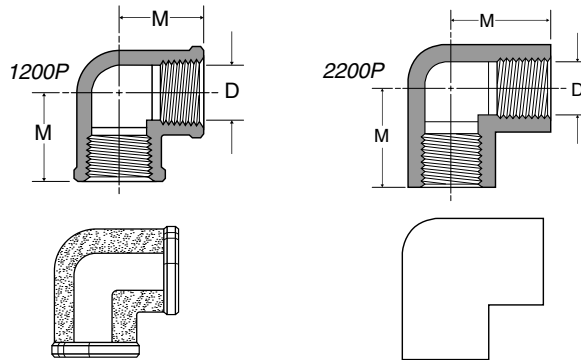


**Adapter 222P**

| PART NO.   | 1<br>PIPE<br>THREAD | 2<br>PIPE<br>THREAD | C<br>HEX | L    | FLOW<br>DIA. D |
|------------|---------------------|---------------------|----------|------|----------------|
| 222P-2-2   | 1/8                 | 1/8                 | 9/16     | .88  | .218           |
| 222P-4-2   | 1/4                 | 1/8                 | 3/4      | 1.06 | .218           |
| 222P-4-4   | 1/4                 | 1/4                 | 3/4      | 1.25 | .314           |
| 222P-6-2   | 3/8                 | 1/8                 | 7/8      | 1.10 | .218           |
| 222P-6-4   | 3/8                 | 1/4                 | 7/8      | 1.25 | .314           |
| 222P-6-6   | 3/8                 | 3/8                 | 7/8      | 1.25 | .440           |
| 222P-8-4   | 1/2                 | 1/4                 | 1        | 1.47 | .312           |
| 222P-8-6   | 1/2                 | 3/8                 | 1-1/16   | 1.47 | .440           |
| 222P-8-8   | 1/2                 | 1/2                 | 1-1/16   | 1.66 | .562           |
| 222P-12-6  | 3/4                 | 3/8                 | 1-3/8    | 1.50 | .440           |
| 222P-12-8  | 3/4                 | 1/2                 | 1-3/8    | 1.69 | .562           |
| 222P-12-12 | 3/4                 | 3/4                 | 1-3/8    | 1.69 | .751           |

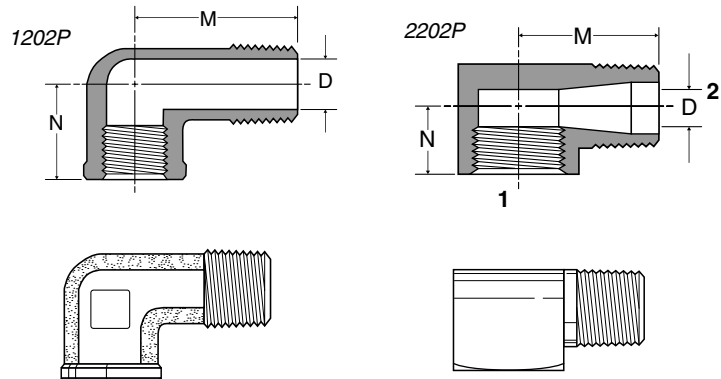
**90° Union Elbow 1200P-2200P**

| PART NO.  | PIPE<br>THREAD | M    | FLOW<br>DIA. D |
|-----------|----------------|------|----------------|
| 1200P-2-2 | 1/8            | .56  | .328           |
| 2200P-2-2 | 1/8            | .55  | .328           |
| 1200P-4-4 | 1/4            | .81  | .422           |
| 2200P-4-4 | 1/4            | .78  | .422           |
| 1200P-6-6 | 3/8            | .84  | .562           |
| 2200P-6-6 | 3/8            | .84  | .563           |
| 2200P-8-8 | 1/2            | 1.07 | .687           |

**90° Street Elbow 1202P-2202P**

| PART NO.    | 1<br>PIPE<br>THREAD | 2<br>PIPE<br>THREAD | M    | N    | FLOW<br>DIA. D |
|-------------|---------------------|---------------------|------|------|----------------|
| 1202P-2-2   | 1/8                 | 1/8                 | .81  | .56  | .22            |
| 2202P-2-2   | 1/8                 | 1/8                 | .62  | .48  | .22            |
| 2202PA-2-2* | 1/8                 | 1/8                 | .66  | .48  | .22            |
| 2202P-4-2   | 1/4                 | 1/8                 | .72  | .45  | .23            |
| 1202P-4-4   | 1/4                 | 1/4                 | 1.08 | .69  | .31            |
| 2202P-4-4   | 1/4                 | 1/4                 | .91  | .45  | .34            |
| 2202PA-4-4* | 1/4                 | 1/4                 | .91  | .72  | .42            |
| 2202P-4-6   | 1/4                 | 3/8                 | .97  | .78  | .43            |
| 1202P-6-4   | 3/8                 | 1/4                 | 1.25 | .78  | .31            |
| 1202P-6-6   | 3/8                 | 3/8                 | 1.25 | .78  | .42            |
| 2202P-6-6   | 3/8                 | 3/8                 | .98  | .54  | .41            |
| 2202PA-6-6* | 3/8                 | 3/8                 | .97  | .78  | .43            |
| 1202P-6-8   | 3/8                 | 1/2                 | 1.53 | 1.01 | .56            |
| 1202P-8-6   | 1/2                 | 3/8                 | 1.25 | .97  | .42            |
| 2202P-8-8   | 1/2                 | 1/2                 | 1.25 | 1.03 | .56            |
| 2202P-12-8  | 3/4                 | 1/2                 | 1.39 | 1.10 | .56            |
| 2202P-12-12 | 3/4                 | 3/4                 | 1.39 | 1.10 | .75            |

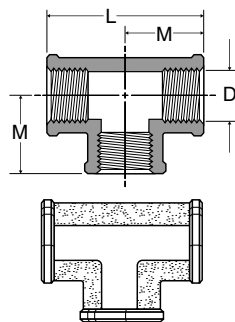
\*Meets SAE Dimensions



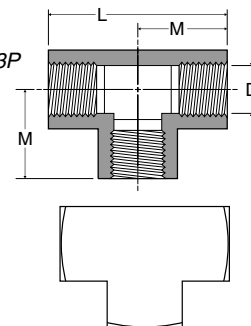
## Union Tee 1203P-2203P

| PART NO. | PIPE THREAD | L    | M    | FLOW DIA.D |
|----------|-------------|------|------|------------|
| 1203P-2  | 1/8         | 1.12 | .56  | .328       |
| 2203P-2  | 1/8         | 1.06 | .53  | .328       |
| 1203P-4  | 1/4         | 1.38 | .69  | .422       |
| 2203P-4  | 1/4         | 1.52 | .76  | .422       |
| 2203P-6  | 3/8         | 1.68 | .84  | .562       |
| 1203P-8  | 1/2         | 2.14 | 1.07 | .688       |
| 2203P-8  | 1/2         | 2.14 | 1.07 | .688       |
| 2203P-12 | 3/4         | 2.28 | 1.14 | .900       |

1203P

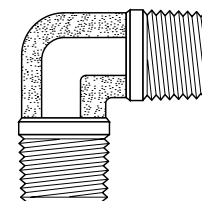
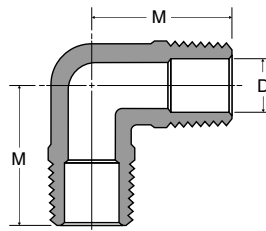


2203P



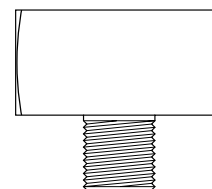
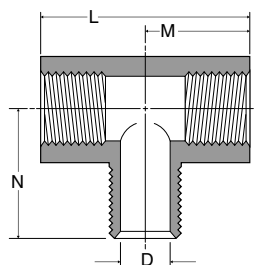
## Male Elbow 1204P

| PART NO. | PIPE THREAD | M    | FLOW DIA.D |
|----------|-------------|------|------------|
| 1204P-2  | 1/8         | .71  | .220       |
| 1204P-4  | 1/4         | 1.09 | .312       |
| 1204P-6  | 3/8         | 1.09 | .406       |
| 1204P-8  | 1/2         | 1.41 | .562       |



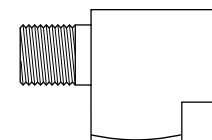
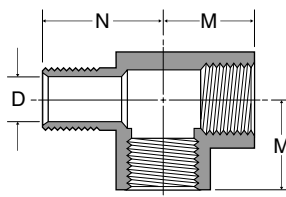
## Male Branch Tee 2224P

| PART NO. | PIPE THREAD | L    | M    | N    | FLOW DIA.D |
|----------|-------------|------|------|------|------------|
| 2224P-2  | 1/8         | 1.06 | .53  | .66  | .220       |
| 2224P-4  | 1/4         | 1.52 | .76  | .91  | .314       |
| 2224P-6  | 3/8         | 1.68 | .84  | .97  | .438       |
| 2224P-8  | 1/2         | 2.18 | 1.09 | 1.26 | .592       |
| 2224P-12 | 3/4         | 2.32 | 1.16 | 1.38 | .750       |



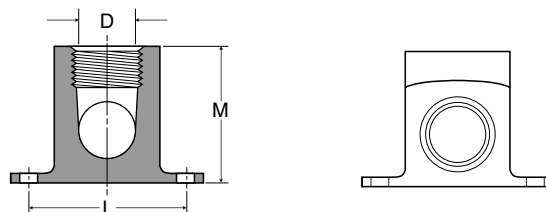
## Street Tee 2225P

| PART NO. | PIPE THREAD | M    | N    | FLOW DIA.D |
|----------|-------------|------|------|------------|
| 2225P-2  | 1/8         | .53  | .66  | .220       |
| 2225P-4  | 1/4         | .76  | .91  | .312       |
| 2225P-6  | 3/8         | .84  | .98  | .440       |
| 2225P-8  | 1/2         | 1.07 | 1.26 | .564       |
| 2225P-12 | 3/4         | 1.14 | 1.38 | .750       |

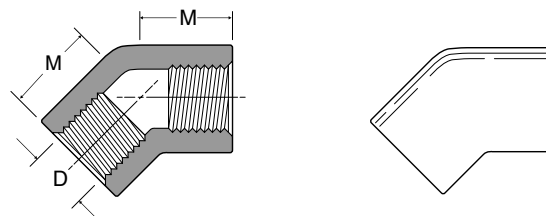


**Drop-ear 90° Elbow 2200PDE**

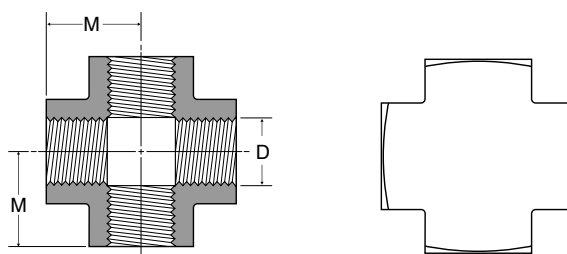
| PART NO.  | PIPE THREAD | L    | M    | FLOW DIA. D |
|-----------|-------------|------|------|-------------|
| 2200PDE-2 | 1/8         | 1.38 | 1.00 | .328        |

**45° Female Elbow 2201P**

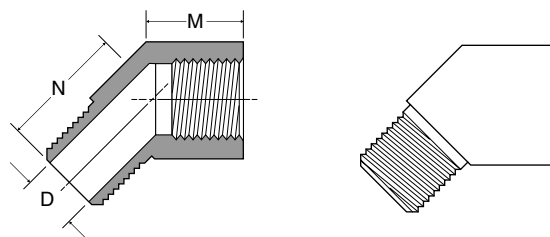
| PART NO.  | PIPE THREAD | M   | FLOW DIA. D |
|-----------|-------------|-----|-------------|
| 2201P-2-2 | 1/8         | .43 | .328        |
| 2201P-8-8 | 1/2         | .89 | .860        |

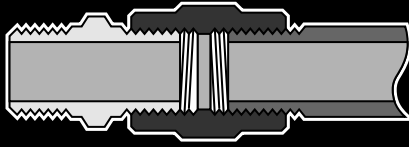
**Cross 2205P**

| PART NO. | PIPE THREAD | M    | FLOW DIA. D |
|----------|-------------|------|-------------|
| 2205P-2  | 1/8         | .53  | .328        |
| 2205P-4  | 1/4         | .75  | .421        |
| 2205P-6  | 3/8         | .82  | .562        |
| 2205P-8  | 1/2         | 1.07 | .688        |
| 2205P-12 | 3/4         | 1.14 | .900        |

**45° Street Elbow 2214P**

| PART NO.    | PIPE THREAD | M   | N    | FLOW DIA. D |
|-------------|-------------|-----|------|-------------|
| 2214P-2-2   | 1/8         | .38 | .50  | .220        |
| 2214P-4-4   | 1/4         | .54 | .70  | .314        |
| 2214P-6-6   | 3/8         | .54 | .78  | .440        |
| 2214P-8-8   | 1/2         | .73 | 1.00 | .562        |
| 2214P-12-12 | 3/4         | .73 | 1.04 | .750        |

**E**



## Parker Brass Metric Adapters

### E

#### Advantages

To simplify the installation of pneumatic systems, Parker supplies a comprehensive range of adapters for NPT, BSPP, and BSPT pipe threads. Pipe nipples, pipe connectors, reducing connectors, pipe thread reducers, bulkhead female unions, elbows, tees, crosses and hex head plugs.

Parker brass adapters are produced from forgings and extrusions to meet exacting requirements. The hot forging process increases the density of the material, refines the grain structure and improves material strength.

#### Applications

Use with brass, copper, or iron pipe. Manufactured for low- and medium-pressure line connection work.

#### Working Pressure and Temperature Ranges

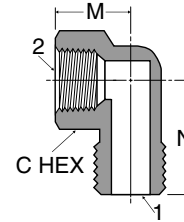
From -65° to +250° at 1000 psi.

#### Vibration

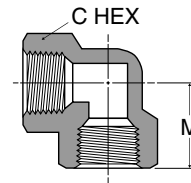
Fair resistance to vibration and pipe movement depending upon conditions.

**CD43 90° Elbow Male-Female BSPT-BSPP**

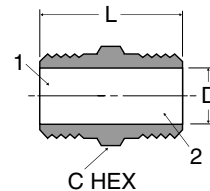
| PART NO. | BSPT 1 | BSPP 2 | C HEX | M  | N  |
|----------|--------|--------|-------|----|----|
| 1/8CD43B | 1/8    | 1/8    | 14    | 14 | 20 |
| 1/4CD43B | 1/4    | 1/4    | 17    | 18 | 25 |
| 3/8CD43B | 3/8    | 3/8    | 22    | 19 | 29 |
| 1/2CD43B | 1/2    | 1/2    | 27    | 24 | 37 |

**DD44 Pipe 90° Elbow BSPP**

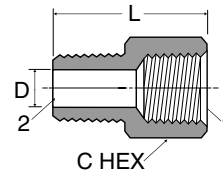
| PART NO. | BSPP | C HEX | M  |
|----------|------|-------|----|
| 1/8DD44B | 1/8  | 14    | 15 |
| 1/4DD44B | 1/4  | 17    | 18 |
| 3/8DD44B | 3/8  | 22    | 22 |
| 1/2DD44B | 1/2  | 27    | 29 |

**F3HF Hex Nipple NPTF BSPT**

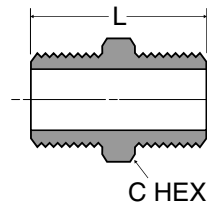
| PART NO.  | NPTF 1 | BSPT 2 | C HEX | L    | FLOW D |
|-----------|--------|--------|-------|------|--------|
| 1/8F3HF-B | 1/8    | 1/8    | 7/16  | 1.07 | .22    |
| 1/4F3HF-B | 1/4    | 1/4    | 9/16  | 1.58 | .31    |
| 3/8F3HF-B | 3/8    | 3/8    | 11/16 | 1.16 | .44    |
| 1/2F3HF-B | 1/2    | 1/2    | 7/8   | 2.01 | .56    |

**F3HG Adapter NPTF Male BSPT**

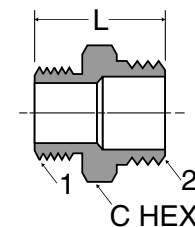
| PART NO.  | NPTF 1 | BSPT 2 | C HEX  | L    | FLOW D |
|-----------|--------|--------|--------|------|--------|
| 1/8F3HG-B | 1/8    | 1/8    | 9/16   | 0.93 | .22    |
| 1/4F3HG-B | 1/4    | 1/4    | 3/4    | 1.35 | .31    |
| 3/8F3HG-B | 3/8    | 3/8    | 7/8    | 1.35 | .44    |
| 1/2F3HG-B | 1/2    | 1/2    | 1-1/16 | 1.76 | .56    |

**FF33 Pipe Nipples BSPT**

| PART NO. | BSPT | C HEX | L  |
|----------|------|-------|----|
| 1/8FF33B | 1/8  | 10    | 19 |
| 1/4FF33B | 1/4  | 14    | 27 |
| 3/8FF33B | 3/8  | 17    | 28 |
| 1/2FF33B | 1/2  | 22    | 36 |
| 3/4FF33B | 3/4  | 27    | 40 |
| 1FF33B   | 1    | 36    | 46 |

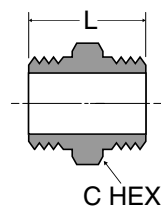
**FF33 Unequal Pipe Nipples BSPT**

| PART NO.     | BSPT 1 | BSPT 2 | C HEX | L  |
|--------------|--------|--------|-------|----|
| 1/8x1/4FF33B | 1/8    | 1/4    | 14    | 23 |
| 1/8x3/8FF33B | 1/8    | 3/8    | 17    | 24 |
| 1/8x1/2FF33B | 1/8    | 1/2    | 22    | 28 |
| 1/4x3/8FF33B | 1/4    | 3/8    | 17    | 28 |
| 1/4x1/2FF33B | 1/4    | 1/2    | 22    | 31 |
| 3/8x1/2FF33B | 3/8    | 1/2    | 22    | 32 |
| 3/8x3/4FF33B | 3/8    | 3/4    | 27    | 35 |
| 1/2x3/4FF33B | 1/2    | 3/4    | 27    | 38 |
| 3/4x1FF33B   | 3/4    | 1      | 36    | 43 |



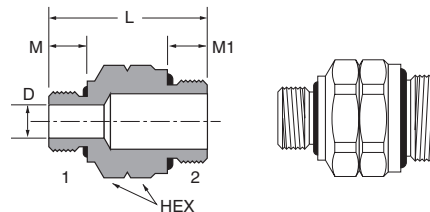
**FF44 Pipe Nipples BSPP**

| PART NO. | BSPP | C HEX | L  |
|----------|------|-------|----|
| 1/8FF44B | 1/8  | 14    | 19 |
| 1/4FF44B | 1/4  | 17    | 22 |
| 3/8FF44B | 3/8  | 22    | 24 |
| 1/2FF44B | 1/2  | 27    | 31 |

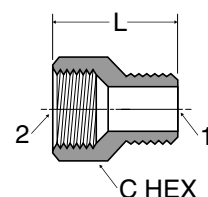
**Metric Straight Thread Union M16M22F8UHA8UB**

| PART NUMBER    | METRIC THD 1 | METRIC THD 2 | L (mm) | HEX (mm) | M (mm) | M1 (mm) | D (mm) |
|----------------|--------------|--------------|--------|----------|--------|---------|--------|
| M16M22F8UHA8UB | M16X1.5      | M22X1.5      | 43     | 27       | 10     | 12.5    | 9.0    |

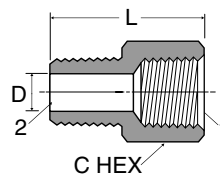
Note: Viton o-ring is standard

**FG43 Reducing Connector Female-Male BSPP-BSPT**

| PART NO.     | BSPT 1 | BSPP 2 | C HEX | L  |
|--------------|--------|--------|-------|----|
| 1/4x1/8FG43B | 1/8    | 1/4    | 17    | 23 |
| 3/8x1/8FG43B | 1/8    | 3/8    | 22    | 25 |
| 3/8x1/4FG43B | 1/4    | 3/8    | 22    | 28 |
| 1/2x1/8FG43B | 1/8    | 1/2    | 27    | 29 |
| 1/2x1/4FG43B | 1/4    | 1/2    | 27    | 32 |
| 1/2x3/8FG43B | 3/8    | 1/2    | 27    | 31 |
| 3/4x1/2FG43B | 1/2    | 3/4    | 32    | 39 |
| 1x3/4FG43B   | 3/4    | 1      | 41    | 38 |

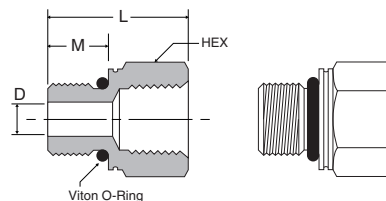
**FHG4 Adapter Male NPTF BSPP**

| PART NO.  | BSPP 1 | NPTF 2 | C HEX | L     | FLOW D |
|-----------|--------|--------|-------|-------|--------|
| 1/8FHG4-B | 1/8    | 1/8    | 0.562 | 0.870 | .22    |
| 1/4FHG4-B | 1/4    | 1/4    | 0.750 | 1.125 | .31    |
| 3/8FHG4-B | 3/8    | 3/8    | 0.875 | 1.125 | .44    |
| 1/2FHG4-B | 1/2    | 1/2    | 1.062 | 1.660 | .60    |

**Pipe to Metric Adaptor 222P-X-MIX**

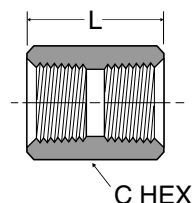
| PART NUMBER | NPTF   | METRIC THREAD | HEX    | L    | M   | D   |
|-------------|--------|---------------|--------|------|-----|-----|
| 222P-2-MI10 | 1/8-27 | M10 x 1.0     | 9/16   | .75  | .34 | .18 |
| 222P-2-MI14 | 1/8-27 | M14 x 1.5     | 3/4    | .91  | .43 | .30 |
| 222P-4-MI12 | 1/4-18 | M12 x 1.5     | 11/16  | 1.09 | .43 | .24 |
| 222P-6-MI16 | 3/8-18 | M16 x 1.5     | 7/8    | 1.10 | .45 | .35 |
| 222P-6-MI22 | 3/8-18 | M22 x 1.5     | 1 1/16 | 1.05 | .37 | .47 |
| 222P-8-MI27 | 1/2-14 | M27 x 2.0     | 1 1/4  | 1.32 | .63 | .60 |

Note: Viton o-ring is standard

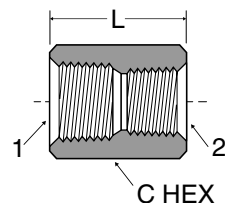


**GG44 Pipe Connector BSPP**

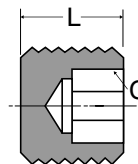
| PART NO. | BSPP | C HEX | L  |
|----------|------|-------|----|
| 1/8GG44B | 1/8  | 14    | 16 |
| 1/4GG44B | 1/4  | 17    | 20 |
| 3/8GG44B | 3/8  | 22    | 24 |
| 1/2GG44B | 1/2  | 27    | 28 |
| 3/4GG44B | 3/4  | 32    | 32 |
| 1GG44B   | 1    | 41    | 36 |

**GG44 Unequal Pipe Connector BSPP**

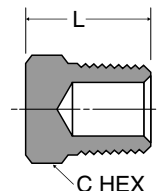
| PART NO.     | BSPP 1 | BSPP 2 | C HEX | L  |
|--------------|--------|--------|-------|----|
| 1/8x1/4GG44B | 1/8    | 1/4    | 17    | 18 |
| 1/8x3/8GG44B | 1/8    | 3/8    | 22    | 20 |
| 1/8x1/2GG44B | 1/8    | 1/2    | 27    | 22 |
| 1/4x3/8GG44B | 1/4    | 3/8    | 22    | 22 |
| 1/4x1/2GG44B | 1/4    | 1/2    | 27    | 24 |
| 3/8x1/2GG44B | 3/8    | 1/2    | 17    | 26 |

**HHP3 Hollow Hex Head Plug BSPT**

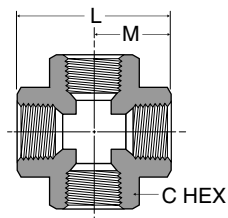
| PART NO. | BSPT | C HEX | L  |
|----------|------|-------|----|
| 1/8HHP3B | 1/8  | 5     | 8  |
| 1/4HHP3B | 1/4  | 6     | 10 |
| 3/8HHP3B | 3/8  | 8     | 11 |
| 1/2HHP3B | 1/2  | 10    | 13 |

**HP3 Hex Plug BSPT**

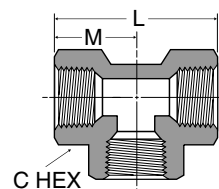
| PART NO. | BSPT | C HEX | L  |
|----------|------|-------|----|
| 1/8HP3B  | 1/8  | 10    | 12 |
| 1/4HP3B  | 1/4  | 14    | 16 |
| 3/8HP3B  | 3/8  | 17    | 17 |
| 1/2HP3B  | 1/2  | 22    | 21 |
| 3/4HP3B  | 3/4  | 27    | 24 |
| 1HP3B    | 1    | 36    | 27 |

**KMMOO4 Pipe Cross BSPP**

| PART NO.   | BSPP | C HEX | L  | M    |
|------------|------|-------|----|------|
| 1/8KMMOO4B | 1/8  | 14    | 29 | 14.5 |
| 1/4KMMOO4B | 1/4  | 17    | 36 | 18.0 |
| 3/8KMMOO4B | 3/8  | 22    | 44 | 22.0 |
| 1/2KMMOO4B | 1/2  | 27    | 58 | 29.0 |

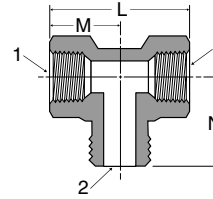
**MMO444 Pipe Tee BSPP**

| PART NO.   | BSPP | C HEX | L  | M    |
|------------|------|-------|----|------|
| 1/8MMO444B | 1/8  | 14    | 29 | 14.5 |
| 1/4MMO444B | 1/4  | 17    | 36 | 18.0 |
| 3/8MMO444B | 3/8  | 22    | 44 | 22.0 |
| 1/2MMO444B | 1/2  | 27    | 58 | 29.0 |
| 3/4MMO444B | 3/4  | 32    | 62 | 31.0 |
| 1MMO444B   | 1    | 40    | 85 | 42.5 |

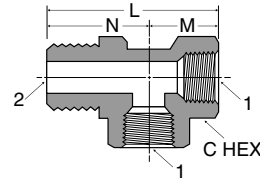


**MMS443 Branch Tee Female-Male-Female BSPP-BSPT-BSPP**

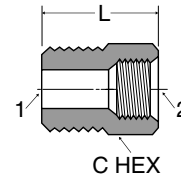
| PART NO.   | BSPP 1 | BSPT 2 | L  | M    | N  |
|------------|--------|--------|----|------|----|
| 1/8MMS443B | 1/8    | 1/8    | 29 | 14.5 | 17 |
| 1/4MMS443B | 1/4    | 1/4    | 36 | 18.0 | 22 |
| 3/8MMS443B | 3/8    | 3/8    | 48 | 24.0 | 25 |
| 1/2MMS443B | 1/2    | 1/2    | 62 | 31.0 | 32 |

**MRO434 Run Tee Female-Female-Male BSPP-BSPP-BSPT**

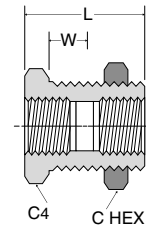
| PART NO.   | BSPP 1 | BSPT 2 | C HEX | L  | M  | N  |
|------------|--------|--------|-------|----|----|----|
| 1/8MRO434B | 1/8    | 1/8    | 14    | 32 | 15 | 17 |
| 1/4MRO434B | 1/4    | 1/4    | 17    | 40 | 18 | 22 |
| 3/8MRO434B | 3/8    | 3/8    | 24    | 49 | 24 | 25 |
| 1/2MRO434B | 1/2    | 1/2    | 30    | 63 | 31 | 32 |

**PTR34 Pipe Thread Reducer male-female BSPT-BSPP**

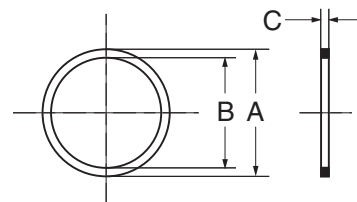
| PART NO.      | BSPT 1 | BSPP 2 | C HEX | L  |
|---------------|--------|--------|-------|----|
| 1/4x1/8PTR34B | 1/4    | 1/8    | 14    | 16 |
| 3/8x1/8PTR34B | 3/8    | 1/8    | 17    | 17 |
| 3/8x1/4PTR34B | 3/8    | 1/4    | 17    | 17 |
| 1/2x1/8PTR34B | 1/2    | 1/8    | 22    | 22 |
| 1/2x1/4PTR34B | 1/2    | 1/4    | 22    | 22 |
| 1/2x3/8PTR34B | 1/2    | 3/8    | 22    | 22 |
| 3/4x3/8PTR34B | 3/4    | 3/8    | 27    | 23 |
| 3/4x1/2PTR34B | 3/4    | 1/2    | 27    | 23 |
| 1x1/2PTR34B   | 1      | 1/2    | 36    | 27 |
| 1x3/4PTR34B   | 1      | 3/4    | 36    | 27 |

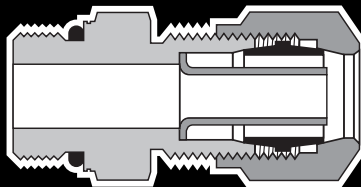
**WGG44 Bulkhead Female Union BSPP**

| PART NO.  | BSPP | STRAIGHT THREAD | C HEX | C4 | L  | W  |
|-----------|------|-----------------|-------|----|----|----|
| 1/8WGG44B | 1/8  | M16x1.5         | 19    | 22 | 22 | 12 |
| 1/4WGG44B | 1/4  | M20x1.5         | 24    | 24 | 22 | 12 |
| 3/8WGG44B | 3/8  | M23x1.5         | 27    | 27 | 24 | 12 |
| 1/2WGG44B | 1/2  | M27x1.5         | 32    | 32 | 28 | 14 |
| 3/4WGG44B | 3/4  | M34x1.5         | 41    | 41 | 31 | 13 |
| 1WGG44B   | 1    | M45x2           | 55    | 55 | 36 | 12 |

**Copper Rings for BSPP**

| PART NO.  | BSPP | A    | B    | C   |
|-----------|------|------|------|-----|
| 112-5-10  | 1/8  | 16.0 | 9.9  | 1.5 |
| 112-8-13  | 1/4  | 19.0 | 13.5 | 1.5 |
| 112-12-17 | 3/8  | 24.0 | 16.9 | 1.5 |
| 112-15-21 | 1/2  | 27.0 | 21.2 | 2.0 |





## ISO Port Adapters

### Advantages

To simplify the installation of hydraulic and pneumatic systems, Parker supplies a range of ISO Port Adapters for various sizes of metric threads and end configurations. These adapters include NPTF, flare, hose barb and NTA end configurations. Viton o-rings are standard on all ISO adapters.

### Specifications

Meets dimensional requirements of ISO 6149-3 and SAE 2244-3.

### Applications

Use with brass, copper or J844 type A & B nylon tubing.  
Manufactured for low and medium pressure line connection work.

### Working Pressure and Temperature Ranges

Dependent on tubing or hose end connection

### Nomenclature

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

#### Example:

|                        |          |           |          |          |           |           |          |           |
|------------------------|----------|-----------|----------|----------|-----------|-----------|----------|-----------|
|                        | <b>1</b> | <b>59</b> | <b>F</b> | <b>-</b> | <b>10</b> | <b>MI</b> | <b>-</b> | <b>27</b> |
| Forging (1)            | _____    | _____     | _____    | _____    | _____     | _____     | _____    | _____     |
| 45° Male Elbow         | _____    | _____     | _____    | _____    | _____     | _____     | _____    | _____     |
| 45° Flare              | _____    | _____     | _____    | _____    | _____     | _____     | _____    | _____     |
| 5/8" (10/16) Tube Size | _____    | _____     | _____    | _____    | _____     | _____     | _____    | _____     |
| MI-Metric ISO Port     | _____    | _____     | _____    | _____    | _____     | _____     | _____    | _____     |
| 27mm Port Thread       | _____    | _____     | _____    | _____    | _____     | _____     | _____    | _____     |

### Special Fittings

Fitting configurations and / or sizes other than those shown in the catalog can be furnished. It is suggested that a print or sketch be submitted with the inquiry.

### Pricing

Only items priced in current supplementary price list PL3501 are carried in stock. Price and delivery for non-stock items furnished on request for specified quantity.

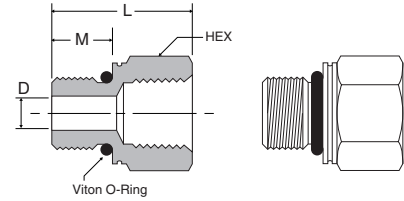
**E**

**Pipe to Metric Adaptor 222P-X-MIX**

| PART NUMBER | NPTF   | METRIC THREAD | HEX    | L    | M   | D   |
|-------------|--------|---------------|--------|------|-----|-----|
| 222P-2-MI10 | 1/8-27 | M10 x 1.0     | 9/16   | .75  | .34 | .18 |
| 222P-2-MI14 | 1/8-27 | M14 x 1.5     | 3/4    | .91  | .43 | .30 |
| 222P-4-MI12 | 1/4-18 | M12 x 1.5     | 11/16  | 1.09 | .43 | .24 |
| 222P-4-MI14 | 1/4-18 | M14 x 1.5     | 3/4    | 1.09 | .43 | .30 |
| 222P-6-MI16 | 3/8-18 | M16 x 1.5     | 7/8    | 1.16 | .45 | .35 |
| 222P-6-MI22 | 3/8-18 | M22 x 1.5     | 1 1/16 | 1.05 | .37 | .47 |
| 222P-8-MI27 | 1/2-14 | M27 x 2.0     | 1 1/4  | 1.32 | .63 | .60 |

Note: Viton o-ring is standard

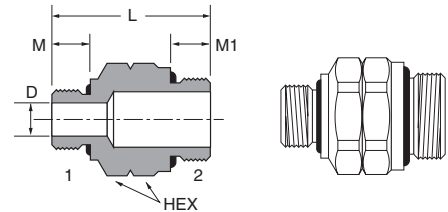
For working pressure and Temperature see Metric Adapters Section

**Metric Straight Thread Union M16M22F8UHA8UB**

| PART NUMBER    | METRIC THD 1 | METRIC THD 2 | L (mm) | HEX (mm) | M (mm) | M1 (mm) | D (mm) |
|----------------|--------------|--------------|--------|----------|--------|---------|--------|
| M16M22F8UHA8UB | M16X1.5      | M22X1.5      | 43     | 27       | 10     | 12.5    | 9.0    |

Note: Viton o-ring is standard

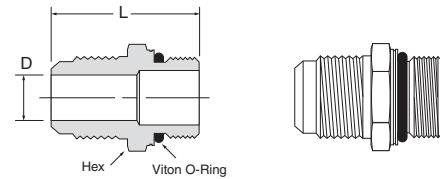
For working pressure and Temperature see Metric Adapters Section

**Flare to Metric Adaptor 48F-X-MIX**

| PART NUMBER | TUBE SIZE | METRIC THREAD | HEX   | L    | D   |
|-------------|-----------|---------------|-------|------|-----|
| 48F-8-MI16  | 1/2       | M16 X 1.5     | 7/8   | 1.60 | .35 |
| 48F-10-MI27 | 5/8       | M27 x 2.0     | 1 1/4 | 1.87 | .50 |
| 48F-12-MI27 | 3/4       | M27 x 2.0     | 1 1/4 | 1.99 | .63 |

Note: Viton o-ring is standard

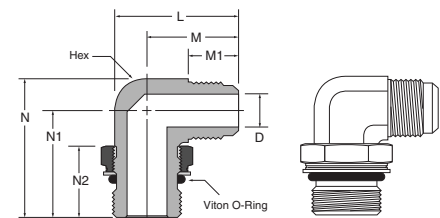
For working pressure and Temperature see SAE Flare Section

**Flare Elbow to Metric Adaptor 149F-X-MIX**

| PART NUMBER  | TUBE SIZE | METRIC THREAD | HEX | L    | M    | M1  | N    | N1   | N2   | D   |
|--------------|-----------|---------------|-----|------|------|-----|------|------|------|-----|
| 149F-10-MI27 | 5/8       | M27 x 2.0     | 7/8 | 1.95 | 1.46 | .88 | 2.12 | 1.63 | 1.09 | .50 |

Note: Viton o-ring is standard

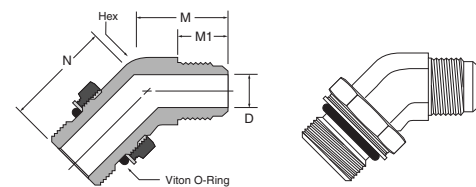
For working pressure and Temperature see SAE Flare Section

**45° Flare Elbow to Metric Adaptor 159F-X-MIX**

| PART NUMBER  | TUBE SIZE | METRIC THREAD | HEX   | M    | M1  | N    | D   |
|--------------|-----------|---------------|-------|------|-----|------|-----|
| 159F-8-MI16  | 1/2       | M16 X 1.5     | 13/16 | 1.10 | .75 | 1.16 | .36 |
| 159F-10-MI27 | 5/8       | M27 x 2.0     | 1 1/8 | 1.21 | .88 | 1.50 | .50 |

Note: Viton o-ring is standard

For working pressure and Temperature see SAE Flare Section

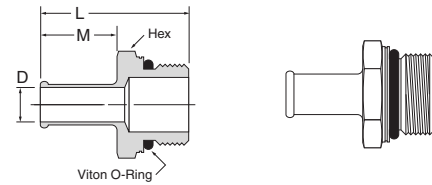


**Hose Barb to Metric Adaptor 68HB-X-MIX**

| PART NUMBER  | TUBE SIZE | METRIC THREAD | HEX   | L    | M   | D   |
|--------------|-----------|---------------|-------|------|-----|-----|
| 68HB-6-M12   | 3/8       | M12 x 1.5     | 11/16 | 1.50 | .78 | .24 |
| 68HB-6-M14   | 3/8       | M14 1.5       | 3/4   | 1.51 | .78 | .30 |
| 68HB-8-M12   | 1/2       | M12 x 1.5     | 11/16 | 1.50 | .78 | .24 |
| 68HB-10-M127 | 5/8       | M27 x 2.0     | 1 1/4 | 1.77 | .78 | .50 |

Note: Viton o-ring is standard

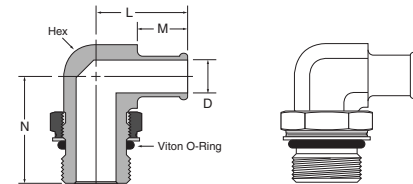
For working pressure and Temperature see Hose Barb Section

**Beaded Elbow to Metric Adaptor 169HB-X-MIX**

| PART NUMBER   | HOSE SIZE | METRIC THREAD | HEX | L    | M   | N    | D   |
|---------------|-----------|---------------|-----|------|-----|------|-----|
| 169HB-10-M127 | 5/8       | M27 x 2.0     | 7/8 | 1.41 | .78 | 1.63 | .50 |
| 169HB-16-M127 | 1         | M27 x 2.0     | 1   | 1.67 | .97 | 1.68 | .71 |

Note: Viton o-ring is standard

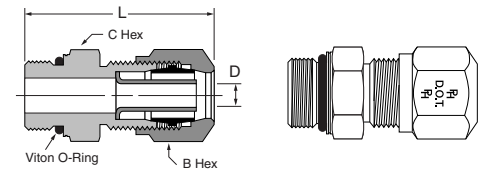
For working pressure and Temperature see Hose Barb Section

**NTA to Metric Adaptor 68NTA-X-MIX**

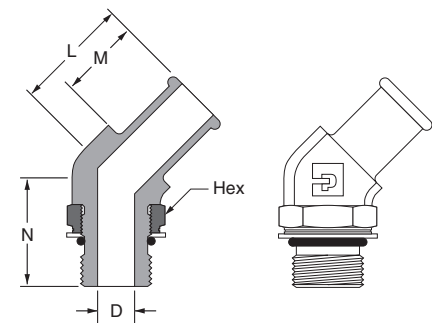
| PART NUMBER  | TUBE SIZE | METRIC THREAD | B HEX | C HEX | L    | D    |
|--------------|-----------|---------------|-------|-------|------|------|
| 68NTA-4-M110 | 1/4       | M10 x 1.0     | 9/16  | 9/16  | 1.33 | .140 |

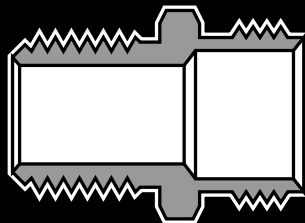
Note: Viton o-ring is standard

For working pressure and Temperature see Air Brake-NTA Section

**Beaded Hose Barb 45° Elbow to Metric Thread 179HB-X-MIX**

| PART NUMBER   | HOSE SIZE | METRIC THREAD | HEX    | L    | M   | N    | D   |
|---------------|-----------|---------------|--------|------|-----|------|-----|
| 179HB-12-M118 | 3/4       | M18 x 1.5     | 13/16  | 1.15 | .78 | 1.16 | .44 |
| 179HB-16-M127 | 1         | M27 x 2.0     | 1 1/16 | 1.51 | .97 | 1.71 | .71 |





## Garden Hose Fittings

E

### Advantages

All fitting pipe threads are made to Dryseal standards. Connectors, unions, nuts and extruded elbows and tees are machined from CA 360 and CA 345 brass.

### Temperature and Working Pressure Ranges

From +35°F. to +100°F. at 75 PSI maximum or the recommended working pressure of garden hose. (not to exceed 150 PSI.)

Note: 90GH is intended for use with 97HC hose clamp or crimped ferrule.

Note: All female connector ends should have a rubber washer (901GH-12) inserted prior to usage.

### Order

By part number and name.

### Nomenclature

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

#### Example:

|                  |       |       |       |       |
|------------------|-------|-------|-------|-------|
|                  | 50GH  | SV    | -6    | -12   |
| Garden Hose      | _____ |       |       |       |
| Swivel Connector |       | _____ |       |       |
| 3/8" Tube O.D.   |       |       | _____ |       |
| 3/4" Hose Thread |       |       |       | _____ |

### Sizes

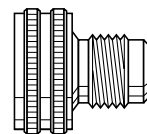
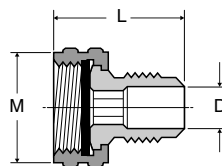
Pipe sizes are determined by the number of sixteenths of an inch in the pipe size.

### Pricing

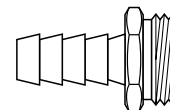
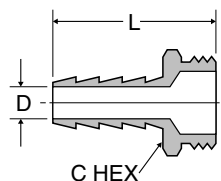
Only items priced in current supplementary price list PL3501 are carried in stock. Price and delivery for non-stock items furnished on request for specified quantity.

**Swivel Connector SAE Flare to Female Hose Thread 50GHSV**

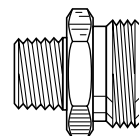
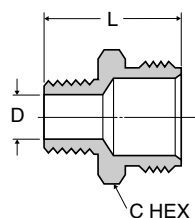
| PART NO.    | TUBE SIZE | HOSE THREAD | L    | M    | FLOW DIA.D |
|-------------|-----------|-------------|------|------|------------|
| 50GHSV-6-12 | 3/8       | 3/4         | 1.25 | 1.15 | .297       |
| 50GHSV-8-12 | 1/2       | 3/4         | 1.34 | 1.15 | .406       |

**Hose Barb to Male Hose Thread 53GH, 54GH & 55GH**

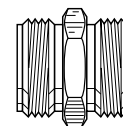
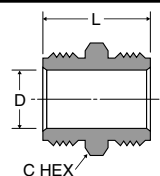
| PART NO.   | I.D. HOSE SIZE | HOSE THREAD | C HEX  | L    | FLOW DIA.D |
|------------|----------------|-------------|--------|------|------------|
| 53GH-8-12  | 1/2            | 3/4         | 1-1/16 | 1.88 | .375       |
| 54GH-10-12 | 5/8            | 3/4         | 1-1/16 | 1.88 | .500       |
| 55GH-12-12 | 3/4            | 3/4         | 1-1/16 | 1.88 | .625       |

**Male Hose to Male Pipe 69GH, 70GH, 71GH**

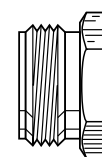
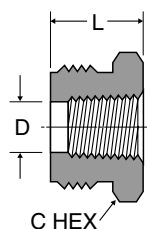
| PART NO.   | HOSE THREAD | PIPE THREAD | C HEX  | L    | FLOW DIA.D |
|------------|-------------|-------------|--------|------|------------|
| 69GH-12-6  | 3/4         | 3/8         | 1-1/16 | 1.25 | .406       |
| 70GH-12-8  | 3/4         | 1/2         | 1-1/16 | 1.39 | .531       |
| 71GH-12-12 | 3/4         | 3/4         | 1-1/16 | 1.41 | .750       |

**Male Hose to Male Hose 75GH**

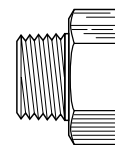
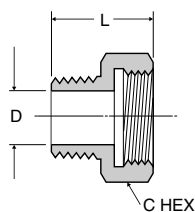
| PART NO. | HOSE THREAD | C HEX  | L    | FLOW DIA.D |
|----------|-------------|--------|------|------------|
| 75GH-12  | 3/4         | 1-1/16 | 1.25 | .750       |

**Male Hose to Female Pipe 78GH, 79GH, 80GH & 81GH**

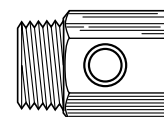
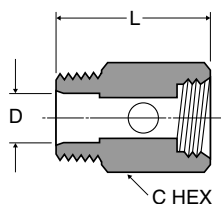
| PART NO.   | HOSE THREAD | PIPE THREAD | C HEX  | L    | FLOW DIA.D |
|------------|-------------|-------------|--------|------|------------|
| 78GH-12-4  | 3/4         | 1/4         | 1-1/16 | .75  | .422       |
| 79GH-12-6  | 3/4         | 3/8         | 1-1/16 | .75  | .562       |
| 80GH-12-8  | 3/4         | 1/2         | 1-1/16 | .75  | .687       |
| 81GH-12-12 | 3/4         | 3/4         | 1-3/16 | 1.28 | .719       |

**Female Hose to Male Pipe 82GH & 83GH**

| PART NO.   | HOSE THREAD | PIPE THREAD | C HEX  | L    | FLOW DIA.D |
|------------|-------------|-------------|--------|------|------------|
| 82GH-12-8  | 3/4         | 1/2         | 1-3/16 | 1.20 | .562       |
| 83GH-12-12 | 3/4         | 3/4         | 1-3/16 | 1.22 | .750       |

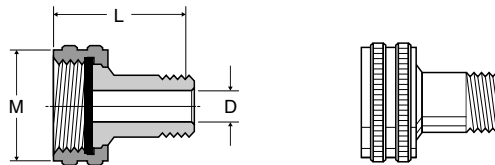
**Special Filter Adapter 84GH**

| PART NO. | HOSE THREAD | PIPE THREAD | C HEX | L    | FLOW DIA.D |
|----------|-------------|-------------|-------|------|------------|
| 84GH-8-8 | 1/2         | 1/2         | 15/16 | 1.53 | .530       |



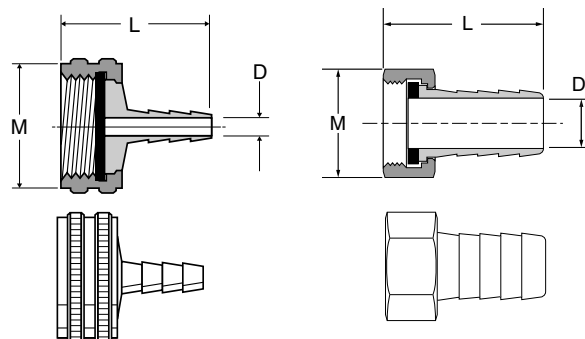
**Swivel Connector Female Garden Hose to Male Pipe 88GH**

| PART NO.  | HOSE THREAD | PIPE THREAD | L    | M    | FLOW DIA.D |
|-----------|-------------|-------------|------|------|------------|
| 88GH-12-4 | 3/4         | 1/4         | 1.69 | 1.15 | .312       |
| 88GH-12-6 | 3/4         | 3/8         | 1.69 | 1.15 | .406       |

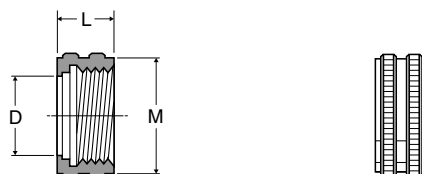
**Swivel Connector Female Garden Hose to Hose Barb 90GH**

| PART NO.    | HOSE THREAD | I.D. HOSE SIZE | L    | M    | FLOW DIA.D |
|-------------|-------------|----------------|------|------|------------|
| 90GH-12-3   | 3/4         | 3/16           | 1.29 | 1.15 | .125       |
| 90GH-12-4   | 3/4         | 1/4            | 1.21 | 1.15 | .187       |
| 90GH-12-6   | 3/4         | 3/8            | 1.21 | 1.15 | .281       |
| 90GH-12-8   | 3/4         | 1/2            | 1.21 | 1.15 | .375       |
| 90GH-12-10* | 3/4         | 5/8            | 1.93 | 1.19 | .500       |
| 90GH-12-12* | 3/4         | 3/4            | 1.93 | 1.19 | .625       |

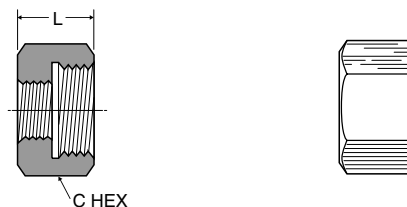
\*Denotes hex body

**Knurled Hose Nut 94GH**

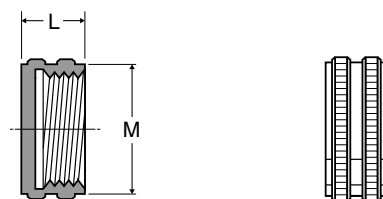
| PART NO. | HOSE THREAD | L   | M    | FLOW DIA.D |
|----------|-------------|-----|------|------------|
| 94GH-12  | 3/4         | .57 | 1.15 | .808       |

**Hose Nut Reducer 95GH**

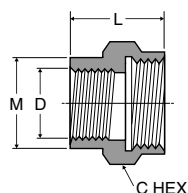
| PART NO.  | HOSE THREAD | PIPE THREAD | C HEX | L   |
|-----------|-------------|-------------|-------|-----|
| 95GH-12-2 | 3/4         | 1/8         | 1-1/8 | .63 |

**Hose Cap Nut 96GH**

| PART NO. | HOSE THREAD | L   | M    |
|----------|-------------|-----|------|
| 96GH-12  | 3/4         | .50 | 1.15 |

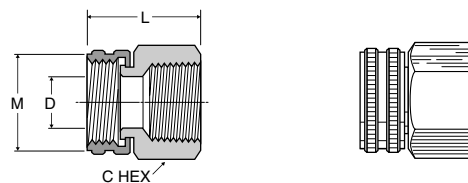
**Female Hose to Female Pipe 98GH & 99GH**

| PART NO.   | HOSE THREAD | PIPE THREAD | C HEX  | L    | M    | FLOW DIA.D |
|------------|-------------|-------------|--------|------|------|------------|
| 98GH-12-8  | 3/4         | 1/2         | 1-3/16 | 1.14 | 1.01 | .687       |
| 99GH-12-12 | 3/4         | 3/4         | 1-3/16 | 1.25 | 1.17 | .750       |

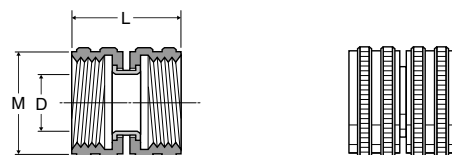


**Swivel Connector Female Hose to Female Pipe 98GHSV & 99GHSV**

| PART NO.     | HOSE THREAD | PIPE THREAD | C HEX  | L    | M    | FLOW DIA.D |
|--------------|-------------|-------------|--------|------|------|------------|
| 98GHSV-12-8  | 3/4         | 1/2         | 1      | 1.27 | 1.21 | .687       |
| 99GHSV-12-12 | 3/4         | 3/4         | 1-3/16 | 1.34 | 1.21 | .687       |

**Swivel Nut Connector 101GHSV**

| PART NO.   | HOSE THREAD | L    | M    | FLOW DIA.D |
|------------|-------------|------|------|------------|
| 101GHSV-12 | 3/4         | 1.25 | 1.15 | .625       |

**Rubber Garden Hose Coupling Washer 901GH**

| PART NO. | HOSE THREAD |
|----------|-------------|
|----------|-------------|

901GH-12 3/4  
NOTE: All female connector ends should have this rubber washer installed prior to usage.

**Hydraulic Quick Couplings/High Flow Couplings****Applications**

Parker Water Service Couplings are used anywhere water hoses are connected and disconnected frequently. They are used on a wide variety of applications including garden hoses, wash down systems, and mobile water tank lines. The unvalved design permits maximum flow with minimum pressure drop.

**Features**

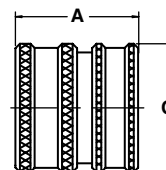
- Brass and stainless steel construction for heavy duty service.
- Durable 4-ball locking mechanism for secure connections.
- Quality, temperature-resistant nitrile seals for a leak-free service life.

**Specifications**

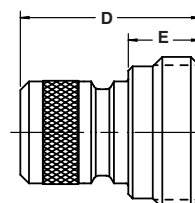
|                               |                 |
|-------------------------------|-----------------|
| Body Size                     | 3/4"            |
| Rated Pressure (PSI)          | 200             |
| Rated Flow (GPM)              | 28              |
| Temperature Range (std seals) | -40°F to +250°F |

**High Flow Coupler 1163-60-BPD**

| PART NO.    | BODY SIZE | THREAD SIZE NH | A    | C    |
|-------------|-----------|----------------|------|------|
| 1163-60-BPD | 3/4       | 3/4-11 1/2     | 1.12 | 1.21 |

**High Flow Nipple 1163-61-BPD**

| PART NO.    | BODY SIZE | THREAD SIZE NH | D    | E   |
|-------------|-----------|----------------|------|-----|
| 1163-61-BPD | 3/4       | 3/4-11 1/2     | 1.25 | .50 |



Notes

Notes section with 20 horizontal lines for writing.

E