













www.korlokusa.com





Kor-Lok USA

### **Features**

Excellent finish level to allow smooth transitional flow.

All tube fitting and pipe fitting elbows have a radius junction to eliminate entrapement areas and to allow smooth transitional flow.

Fine threads meets the requirement of ASEM/ANSI B1.20.1 to ensure maximum thread engagement.

Working pressures are higher than the traditional piping class, 3000 pipe fittings to ASME B16.1

# Excellent Finish Level

### **Materials**

Kor-Lok pipe fittings are available in different alloys as indicated on the table below. Straight fittings are machined from cold finished bar stock and shaped fittings from forgings. For more details or a special application, contact your local distributors.

| Materials          | Bar Stock               | Forgings                |
|--------------------|-------------------------|-------------------------|
| 316 SS or 316L SS  | ASTM A479<br>ASME SA479 | ASTM A182<br>ASME SA182 |
| Brass              | ASTM B16<br>ASTM B453   | ASTM B283               |
| Alloy 400 (Monel®) | ASTM B164               | ASTM B564<br>ASME SB564 |

<sup>\*</sup>Monel is the trade mark of Special Metals.

### **Sour Environment Services**

Kor-Lok pipe fittings are comply with NACE MR-0175/ISO 115156 for sour oilfield application or NACE MR-0103 for petroleum refining operations.

To order, add-N to the end of part number.

### **Installation Instruction**

Pipe thread sealant is recommended for a leak tight seal. Teflon tape is commonly used for male end threads on tube fittings, and pipe fittings.

Make sure both male and female threads clean.

Warp Teflon tape clockwise from the first thread.

Wrapping twice around the threads is recommended.

Don't overhang tape on the first thread as it might be enter into the system.

Cut off excess tape.

# **Cleaning**

Kor-Lok pipe fittings are free from machine oils, loose particles and grease throughout the close cleaning process.



### **Pipe End Thread Information**

The end connections with the lower pressure rating is the determining factor of pressure rating for the fittings with both Kor-Lok tube ends and pipe thread ends.

# **Pressure Rating for Pipe End Thread**

### **Tapered Pipe Threads - NPT or ISO 7/1(BSPT)**

Allowable pressure ratings for male and female threads are based on ASME B31.3 at ambient temperature.

| Pipe  |     | 316SS Brass |     |      | Uni-Lok |     |      |         |
|-------|-----|-------------|-----|------|---------|-----|------|---------|
| Size  | М   | ale         | Fer | nale | Male    | Fer | nale | Desig - |
| inch  | bar | psig        | bar | psig | psig    | bar | psig | nator   |
| 1/16  | 760 | 11000       | 460 | 6700 | 5500    | 230 | 3300 | -01N/R  |
| 1/8   | 690 | 10000       | 440 | 6500 | 5000    | 220 | 3200 | -02N/R  |
| 1/4   | 550 | 8000        | 450 | 6600 | 4000    | 220 | 3300 | -04N/R  |
| 3/8   | 540 | 7800        | 360 | 5300 | 3900    | 180 | 2600 | -06N/R  |
| 1/2   | 530 | 7700        | 330 | 4900 | 3800    | 160 | 2400 | -08N/R  |
| 3/4   | 500 | 7300        | 320 | 4600 | 3600    | 160 | 2300 | -12N/R  |
| 1     | 370 | 5300        | 300 | 4400 | 2600    | 150 | 2200 | -16N/R  |
| 1-1/4 | 410 | 6000        | 350 | 5000 | 3000    | 170 | 2500 | -20N/R  |
| 1-1/2 | 340 | 5000        | 310 | 4600 | 2500    | 150 | 2300 | -24N/R  |
| 2     | 270 | 3900        | 270 | 3900 | 1900    | 130 | 1900 | -32N/R  |

Designator for NPT pipe thread is N, ISO/7 is R.

### ISO 228/1 Parallel Thread (BSPP)

The pressure ratings are at ambient temperature.

| Male      | 316 | Uni-Lok |            |
|-----------|-----|---------|------------|
| Pipe Size | bar | psig    | Designator |
| 1/8       | 316 | 4568    | -02G       |
| 1/4       | 315 | 4568    | -04G       |
| 3/8       | 315 | 4568    | -06G       |
| 1/2       | 160 | 2320    | -08G       |

### **O-Seal Fittings**

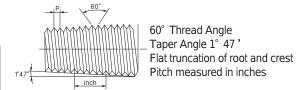
Rated to 206 bar (3000 psig) for 316SS fittings up to 1 inch and 25mm

# **Types of Pipe Thread**

### **NPT Pipe Thread**

NPT (National Pipe Thread) is based on ANSI

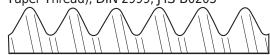


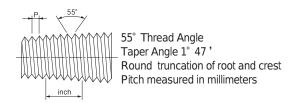


### **ISO 7/1 Tapered Pipe Thread**

International Organization for Standard (ISO 7/1) Tapered (PT)

Equivalent to BSPT (British Standard Pipe Taper Thread), DIN 2999, JIS B0203





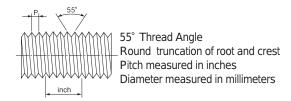
### ISO 228/1 Parallel Pipe Thread

International Organization for Standard (ISO 228/1) Parallel(PF)

Equivalent to BSPP (British Standard Pipe Parallel Thread), DIN ISO228/1, JIS B0202

Gasket or O-ring is normally used to seal into the parallel female threaded components.



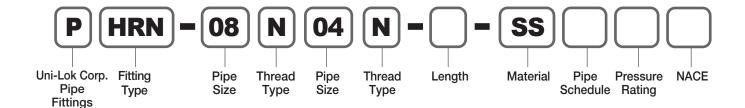




### **How To Order**

Kor–Lok pipe fittings are ordered by part number as shown as below.

**Example**: The following part number, **PHRN-08N04N-SS** is designated for Reducing Hex Nipple, 1/2 "M-NPT x 1/4" M-NPT, 316SS.



| Pipe Size Designation           |                              |  |  |  |  |  |  |
|---------------------------------|------------------------------|--|--|--|--|--|--|
| Pipe Size 1/8 1/4 3/8 1/2 3/4 1 |                              |  |  |  |  |  |  |
| Designator                      | Designator 02 04 06 08 12 16 |  |  |  |  |  |  |

| Thread Type Designation |                                   |       |  |  |  |  |  |
|-------------------------|-----------------------------------|-------|--|--|--|--|--|
|                         | Thread Type Designator            |       |  |  |  |  |  |
| NPT                     | NPT National Standard Pipe Thread |       |  |  |  |  |  |
| ISO 7/1                 | ISO 7/1 Taper Pipe Thread         |       |  |  |  |  |  |
| ISO 228/1               | Parallel Pipe Thread              | G     |  |  |  |  |  |
|                         | Socket Weld-Tube                  | WS-*T |  |  |  |  |  |
|                         | Socket Weld-Pipe                  | WS-*P |  |  |  |  |  |

| Material |          |  |  |  |  |
|----------|----------|--|--|--|--|
| SS       | 316SS    |  |  |  |  |
| BS       | Brass    |  |  |  |  |
| MO       | Alloy400 |  |  |  |  |

| Pipe Schedule<br>Designation |            |  |  |  |
|------------------------------|------------|--|--|--|
| Pipe<br>Schedule             | Designator |  |  |  |
| Sch80                        | None       |  |  |  |
| Sch160                       | S16        |  |  |  |

Pipe fittings to be machined from pipes (PLN & PSN) have different pipe schedule. Schedule 80 is the standard.

| Pressure Rating<br>Designation |            |  |  |  |  |
|--------------------------------|------------|--|--|--|--|
| Pressure<br>Rating             | Designator |  |  |  |  |
| 6000 psi                       | 6K         |  |  |  |  |
| 10000 psi 10K                  |            |  |  |  |  |

Pipe fittings for high pressure application are available. The standard pressure ratings for each thread sizes are based on ASME B31.3 at ambient temperature.

For the availability of 6000psig and 10000psig, contact your local distributors.

| Length Designation        |     |  |  |  |  |
|---------------------------|-----|--|--|--|--|
| Fitting Length Designator |     |  |  |  |  |
| 1.5″                      | 1.5 |  |  |  |  |
| 2″                        | 2.0 |  |  |  |  |
| 2.5″                      | 2.5 |  |  |  |  |
| 3″                        | 3.0 |  |  |  |  |
| 4″                        | 4.0 |  |  |  |  |
| 6″                        | 6.0 |  |  |  |  |

PHLN and PLN have different length.



# **Visual Index**

| Male Pipe to | Male Pipe         |          | Close Nipple <b>PCN</b>          | 6         |                           | Hex Nipple PHN              | 6             |
|--------------|-------------------|----------|----------------------------------|-----------|---------------------------|-----------------------------|---------------|
|              | Hex Long Nipp     | ele 6    | Reducing<br>Hex Nipple<br>PHRN   | 7         |                           | Long Nipple                 | 7             |
|              | Male Elbow PME    | 8_       | Male Tee PMT                     | 8         | Female Pipe               | e to Male Pi                | pe<br>        |
|              | Adapter <b>PA</b> | 88       | Reducing Ada                     | pter<br>8 |                           | Reducing Bus                | hing          |
|              | Street Elbow PSE  | 9        | Street Tee PST                   | 9         |                           | Branch Tee PBT              | 9             |
| Female Pipe  | e to Female I     | Pipe<br> | Coupling PC                      | 10        |                           | Reducing<br>Coupling<br>PRC | 10_           |
|              | Female Elbow      | 10       | Female Tee PFT                   | 10        | To                        | Ball J oint<br>Union<br>PBJ | 11            |
|              | Pipe Union        | 11       | Swage Nipple                     | 11        | Female Pipe<br>(Socket We |                             | tems          |
|              | SW Coupling PCWS  | 12       | Reducing<br>SW Coupling<br>PCRWS | 12        |                           | Special Coupli              | ing <b>12</b> |
| Component    | s                 |          | Pipe Cap                         |           |                           | Pipe Plug                   |               |

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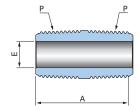


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# Close Nipple

# **PCN**

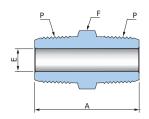




Hex Nipple

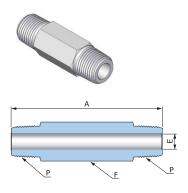
# **PHN**





Hex Long Nipple

# **PHLN**



# Connects Female Pipe to Female Pipe

| Part No. | Pipe Size | Dimensions (mm) |      |  |  |
|----------|-----------|-----------------|------|--|--|
| raitino. | Р         | А               | E    |  |  |
| PCN-02   | 1/8       | 21.8            | 4.8  |  |  |
| PCN-04   | 1/4       | 33.0            | 7.0  |  |  |
| PCN-06   | 3/8       | 34.0            | 10.0 |  |  |
| PCN-08   | 1/2       | 44.0            | 12.0 |  |  |
| PCN-12   | 3/4       | 38.1            | 19.4 |  |  |
| PCN-16   | 1         | 58.9            | 22.0 |  |  |

### Connects Female Pipe to Female Pipe

| Part No. | Pipe Size | Din | Dimensions (mm) |        |  |  |
|----------|-----------|-----|-----------------|--------|--|--|
| rait No. | Р         | А   | E               | F      |  |  |
| PHN-02   | 1/8       | 25  | 4.8             | 7/16   |  |  |
| PHN-04   | 1/4       | 35  | 7.0             | 9/16   |  |  |
| PHN-06   | 3/8       | 36  | 10.0            | 11/16  |  |  |
| PHN-08   | 1/2       | 47  | 12.0            | 7/8    |  |  |
| PHN-12   | 3/4       | 47  | 16.0            | 1-1/16 |  |  |
| PHN-16   | 1         | 59  | 22.0            | 1-3/8  |  |  |

# Connects Female Pipe to Female Pipe

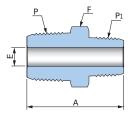
| Part No.    | Pipe Size     | Dim | ensions (ı | mm)    |  |
|-------------|---------------|-----|------------|--------|--|
| rait No.    | Р             | А   | E          | F      |  |
| PHLN-02-1.5 |               | 40  |            |        |  |
| PHLN-02-2.0 |               | 50  |            |        |  |
| PHLN-02-2.5 | 1/8           | 65  | 4.8        | 7/16   |  |
| PHLN-02-3.0 |               | 75  |            |        |  |
| PHLN-02-4.0 |               | 100 |            |        |  |
| PHLN-04-1.5 |               | 40  |            |        |  |
| PHLN-04-2.0 |               | 50  |            |        |  |
| PHLN-04-2.5 | 1//           | 65  | 7.0        | 9/16   |  |
| PHLN-04-3.0 | 1/4 75<br>100 | 75  | 7.0        |        |  |
| PHLN-04-4.0 |               | 100 |            |        |  |
| PHLN-04-6.0 |               | 150 |            |        |  |
| PHLN-06-2.0 |               | 50  |            | 11/16  |  |
| PHLN-06-3.0 | 3/8           | 75  | 10.0       |        |  |
| PHLN-06-4.0 |               | 100 |            |        |  |
| PHLN-08-2.0 |               | 50  |            |        |  |
| PHLN-08-3.0 | 1/2           | 75  | 12.0       | 7/8    |  |
| PHLN-08-4.0 | 1/2           | 100 | 12.0       | //0    |  |
| PHLN-08-6.0 |               | 150 |            |        |  |
| PHLN-12-3.0 | 3/4           | 75  | 46.0       | 1 1/16 |  |
| PHLN-12.4.0 | 3/4           | 100 | 40.0       | 1-1/16 |  |
| PHLN-16-3.0 | 1             | 75  | 22.0       | 1 2/0  |  |
| PHLN-16-4.0 | L             | 100 | 22.0       | 1-3/8  |  |



# Reducing Hex Nipple

# **PHRN**

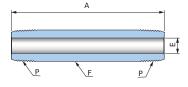




# Long Nipple

# **PLN**





PLN is machined from Seamless Pipe, ASTM A312 TP316. The standard pipe schedule is 80, and schedule 160 is also available upon request.

### Connects Female Pipe to Female Pipe

| Part No.   | Pipe | Size | Dimensions (mm) |      | (mm)   |
|------------|------|------|-----------------|------|--------|
| i ait ivo. | Р    | P1   | Α               | Е    | F      |
| PHRN-0402  | 1/4  | 1/8  | 31              | 4.8  | 9/16   |
| PHRN-0604  | 3/8  | 1/4  | 36              | 7.0  | 11/16  |
| PHRN-0804  | 1/2  | 1/4  | 42              | 7.0  | 7/8    |
| PHRN-0806  | 1/2  | 3/8  | 42              | 10.0 | 7/8    |
| PHRN-1206  | 3/4  | 3/8  | 44              | 10.0 | 1-1/16 |
| PHRN-1208  | 3/4  | 1/2  | 49              | 12.0 | 1-1/16 |
| PHRN-1608  | 1    | 1/2  | 54              | 16.0 | 1-3/8  |
| PHRN-1612  | 1    | 3/4  | 54              | 16.0 | 1-3/8  |

# Connects Female Pipe to Female Pipe

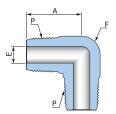
| Part No.   | Pipe Size       | Dim | ensions (ı | mm)    |  |
|------------|-----------------|-----|------------|--------|--|
| r ait ivo. | Р               | А   | Е          | F      |  |
| PLN-02-1.5 |                 | 40  |            |        |  |
| PLN-02-2.0 |                 | 50  |            |        |  |
| PLN-02-2.5 | 1/8             | 65  | 5.7        | ø 10.5 |  |
| PLN-02-3.0 |                 | 75  |            |        |  |
| PLN-02-4.0 |                 | 100 |            |        |  |
| PLN-04-1.5 |                 | 40  |            |        |  |
| PLN-04-2.0 |                 | 50  |            | ø 13.8 |  |
| PLN-04-2.5 | 1//             | 65  | 7.8        |        |  |
| PLN-04-3.0 | 1/4             | 75  | 7.0        |        |  |
| PLN-04-4.0 |                 | 100 |            |        |  |
| PLN-04-6.0 |                 | 150 |            |        |  |
| PLN-06-2.0 |                 | 50  |            | ø 17.3 |  |
| PLN-06-3.0 | 3/8             | 75  | 10.9       |        |  |
| PLN-06-4.0 |                 | 100 |            |        |  |
| PLN-08-2.0 |                 | 50  |            |        |  |
| PLN-08-3.0 | 1/2             | 75  | 14.3       | ø 21.7 |  |
| PLN-08-4.0 | 1/2             | 100 | 14.5       | Ø 21.7 |  |
| PLN-08-6.0 |                 | 150 |            |        |  |
| PLN-12-3.0 | 3/4             | 75  | 19.4       | a 27.2 |  |
| PLN-12.4.0 | J/ <del>4</del> | 100 | 13.4       | ø 27.2 |  |
| PLN-16-3.0 | 1               | 75  | 25.0       | . 24.0 |  |
| PLN-16-4.0 | T               | 100 | 23.0       | ø 34.0 |  |



# Male Elbow

# **PME**

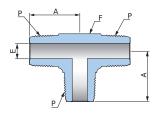




Male Tee

**PMT** 

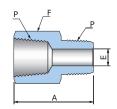




Adapter

PA

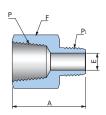




# **Reducing Adapter**

**PRA** 





# Connects Female Pipe to Female Pipe

| Part No.  | Pipe Size | Pipe Size Dimensions (mm) |      |       |
|-----------|-----------|---------------------------|------|-------|
| i ait No. | Р         | Α                         | E    | F     |
| PME-02    | 1/8       | 18.0                      | 4.8  | 1/2   |
| PME-04    | 1/4       | 24.6                      | 7.0  | 9/16  |
| PME-06    | 3/8       | 28.7                      | 10.0 | 11/16 |
| PME-08    | 1/2       | 33.0                      | 12.0 | 13/16 |

### Connects Female Pipe to Female Pipe

| Part No.   | Pipe Size | Pipe Size Dimension |      | ns (mm) |  |
|------------|-----------|---------------------|------|---------|--|
| i ait ivo. | Р         | А                   | E    | F       |  |
| PMT-02     | 1/8       | 18.0                | 4.8  | 1/2     |  |
| PMT-04     | 1/4       | 23.8                | 7.0  | 9/16    |  |
| PMT-06     | 3/8       | 26.0                | 10.0 | 11/16   |  |
| PMT-08     | 1/2       | 37.0                | 12.0 | 7/8     |  |

### Connects Male Pipe to Female Pipe

| Part No.   | Pipe Size | Pipe Size Dimensions (mm) |      |        |
|------------|-----------|---------------------------|------|--------|
| i dit ivo. | Р         | А                         | E    | F      |
| PA-02      | 1/8       | 28                        | 4.8  | 9/16   |
| PA-04      | 1/4       | 33                        | 7.0  | 3/4    |
| PA-06      | 3/8       | 36                        | 10.0 | 7/8    |
| PA-08      | 1/2       | 45                        | 12.0 | 1-1/16 |
| PA-12      | 3/4       | 50                        | 16.0 | 1-1/4  |
| PA-16      | 1         | 58                        | 22.0 | 1-5/8  |

### Connects Male Pipe to Female Pipe

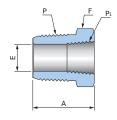
| Part No. | Pipe Size |     | Dimensions (mm) |      |        |
|----------|-----------|-----|-----------------|------|--------|
| Fait No. | Р         | P1  | А               | E    | F      |
| PRA-0402 | 1/4       | 1/8 | 30              | 4.8  | 3/4    |
| PRA-0604 | 3/8       | 1/4 | 35              | 7.0  | 7/8    |
| PRA-0804 | 1/2       | 1/4 | 39              | 6.4  | 1-1/16 |
| PRA-0806 | 1/2       | 3/8 | 41              | 10.0 | 1-1/16 |
| PRA-1206 | 3/4       | 3/8 | 44              | 10.0 | 1-1/4  |
| PRA-1208 | 3/4       | 1/2 | 48              | 12.0 | 1-1/4  |
| PRA-1608 | 1         | 1/2 | 55              | 12.0 | 1-5/8  |
| PRA-1612 | 1         | 3/4 | 55              | 16.0 | 1-5/8  |



# **Reducing Bushing**

# **PRB**





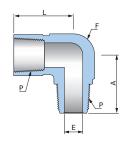
# Connects Female Pipe to Male Pipe

|  | Part No.  | Pip | e Size | Dimensions (mm) |      |        |
|--|-----------|-----|--------|-----------------|------|--------|
|  | i dit No. | Р   | P1     | Α               | Е    | F      |
|  | PRB-0402  | 1/4 | 1/8    | 22              | 7.0  | 9/16   |
|  | PRB-0604  | 3/8 | 1/4    | 23              | 11.0 | 11/16  |
|  | PRB-0804  | 1/2 | 1/4    | 28              | 11.0 | 7/8    |
|  | PRB-0806  | 1/2 | 3/8    | 28              | 14.8 | 7/8    |
|  | PRB-1204  | 3/4 | 1/4    | 31              | 11.4 | 1-1/16 |
|  | PRB-1206  | 3/4 | 3/8    | 31              | 14.8 | 1-1/16 |
|  | PRB-1208  | 3/4 | 1/2    | 31              | 18.3 | 1-1/16 |
|  | PRB-1608  | 1   | 1/2    | 35              | 17.3 | 1-3/8  |
|  | PRB-1612  | 1   | 3/4    | 35              | 22.0 | 1-3/8  |

### Street Elbow

# **PSE**





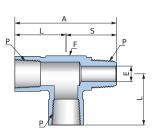
### Connects Male Pipe to Female Pipe

| Part No.  | Pipe Size | Dimensions (mm) |      |      |       |  |
|-----------|-----------|-----------------|------|------|-------|--|
| r dicivo. | Р         | А               | L    | E    | F     |  |
| PSE-02    | 1/8       | 21.0            | 22.3 | 4.8  | 5/8   |  |
| PSE-04    | 1/4       | 28.7            | 28.7 | 7.0  | 11/16 |  |
| PSE-06    | 3/8       | 30.2            | 27.0 | 10.0 | 15/16 |  |
| PSE-08    | 1/2       | 38.0            | 39.0 | 12.0 | 1     |  |

Street Tee

**PST** 





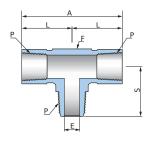
Connects Male Pipe to Female Pipe

| D:         | art No. | Pipe Size | Size Dimensions (mm) |      |      |      |        |  |
|------------|---------|-----------|----------------------|------|------|------|--------|--|
| i ait ivo. | Р       | Α         | L                    | S    | E    | F    |        |  |
| P          | ST-02   | 1/8       | 43.8                 | 23.0 | 20.8 | 4.8  | 5/8    |  |
| P          | ST-04   | 1/4       | 52.4                 | 26.2 | 26.2 | 7.0  | 13/16  |  |
| P          | ST-06   | 3/8       | 57.9                 | 27.0 | 30.9 | 10.0 | 1-1/16 |  |
| P          | ST-08   | 1/2       | 78.7                 | 39.6 | 39.1 | 12.0 | 1      |  |

# Branch Tee

# **PBT**





### Connects Male Pipe to Female Pipe

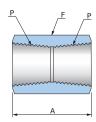
| Part No.  | Pipe Size | ipe Size Din |      |      | ensions (mm) |       |  |  |
|-----------|-----------|--------------|------|------|--------------|-------|--|--|
| T dit No. | Р         | Α            | L    | S    | E            | F     |  |  |
| PBT-02    | 1/8       | 44.6         | 22.3 | 21.0 | 48           | 5/8   |  |  |
| PBT-04    | 1/4       | 52.4         | 26.2 | 26.2 | 7.0          | 13/16 |  |  |
| PBT-06    | 3/8       | 54.0         | 27.0 | 30.2 | 10.0         | 1     |  |  |
| PBT-08    | 1/2       | 79.2         | 39.6 | 39.1 | 12.0         | 1     |  |  |



# Coupling

# PC

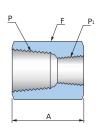




# Reducing Coupling

**PRC** 

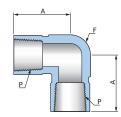




# Female Elbow

# **PFE**

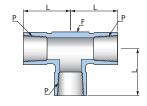




# Female Tee

# **PFT**





### Connects Male Pipe to Male Pipe

| Part No. | Pipe Size | Dimensions (mm) |        |  |
|----------|-----------|-----------------|--------|--|
| Fait No. | Р         | А               | F      |  |
| PC-02    | 1/8       | 21              | 9/16   |  |
| PC-04    | 1/4       | 30              | 3/4    |  |
| PC-06    | 3/8       | 30              | 7/8    |  |
| PC-08    | 1/2       | 40              | 1-1/16 |  |
| PC-12    | 3/4       | 42              | 1-1/4  |  |
| PC-16    | 1         | 51              | 1-5/8  |  |

### Connects Male Pipe to Male Pipe

| Part No.   | Pipe Size |     | Part No. |        | Dimension | ons (mm) |
|------------|-----------|-----|----------|--------|-----------|----------|
| i dit ivo. | Р         | P1  | Α        | F      |           |          |
| PRC-0402   | 1/4       | 1/8 | 30       | 3/4    |           |          |
| PRC-0604   | 3/8       | 1/4 | 31       | 7/8    |           |          |
| PRC-0804   | 1/2       | 1/4 | 40       | 1-1/16 |           |          |
| PRC-0806   | 1/2       | 3/8 | 40       | 1-1/16 |           |          |
| PRC-1206   | 3/4       | 3/8 | 42       | 1-1/4  |           |          |
| PRC-1208   | 3/4       | 1/2 | 42       | 1-1/4  |           |          |
| PRC-1608   | 1         | 1/2 | 51       | 1-5/8  |           |          |
| PRC-1612   | 1         | 3/4 | 51       | 1-5/8  |           |          |

## Connects Male Pipe to Male Pipe

| Part No.  | Pipe Size | Dimensio | ons (mm) |
|-----------|-----------|----------|----------|
| i ait No. | Р         | А        | F        |
| PFE-02    | 1/8       | 23.0     | 5/8      |
| PFE-04    | 1/4       | 28.7     | 11/16    |
| PFE-06    | 3/8       | 27.0     | 15/16    |
| PFE-08    | 1/2       | 39.0     | 1        |

### Connects Male Pipe to Male Pipe

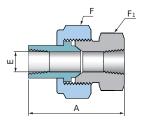
| Part No.  | Pipe Size | Dimensions (mm) |       |
|-----------|-----------|-----------------|-------|
| i dit No. | Р         | L               | F     |
| PFT-02    | 1/8       | 23.0            | 5/8   |
| PFT-04    | 1/4       | 26.2            | 15/16 |
| PFT-06    | 3/8       | 27.0            | 15/16 |
| PFT-08    | 1/2       | 39.6            | 1     |



### Ball J oint Union

# **PBJ**





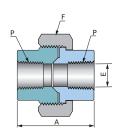
# Connects Male Pipe to Male Pipe

| Part No.   | Pipe Size |      | Dimensions (mm) |       |        |  |
|------------|-----------|------|-----------------|-------|--------|--|
| i ait ivo. | Р         | А    | E               | F     | F1     |  |
| PBJ -04    | 1/4       | 59.4 | 9.1             | 1-3/8 | 1-3/16 |  |
| PBJ -06    | 3/8       | 63.5 | 13.2            | 1-1/2 | 1-5/16 |  |
| PBJ -08    | 1/2       | 68.3 | 15.7            | 1-3/4 | 1-5/8  |  |
| PBJ -12    | 3/4       | 79.2 | 22.4            | 2-1/8 | 1-7/8  |  |
| PBJ -16    | 1         | 90.4 | 26.2            | 2-1/2 | 2-3/8  |  |

# Pipe Union

PU





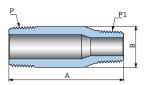
Connects Male Pipe to Male Pipe

| Part No.                  | Pipe Size                 | Dimensions (mm) |      | nm) |  |  |
|---------------------------|---------------------------|-----------------|------|-----|--|--|
| i dit No.                 | Р                         | Α               | Е    | F   |  |  |
| Pressure Rating, 3000psig |                           |                 |      |     |  |  |
| PU-08                     | 1/2                       | 49.2            | 17.0 | 46  |  |  |
| PU-12                     | 1/4                       | 57.2            | 22.0 | 54  |  |  |
| PU-16                     | 3/8                       | 62.2            | 28.0 | 63  |  |  |
| Pressure Rating, 6        | Pressure Rating, 6000psig |                 |      |     |  |  |
| PU-08-6K                  | 1/2                       | 58.3            | 17.0 | 54  |  |  |
| PU-12-6K                  | 3/4                       | 64.3            | 22.0 | 63  |  |  |
| PU-16-6K                  | 1                         | 72.4            | 28.0 | 82  |  |  |

# Swage Nipple

**PSN** 



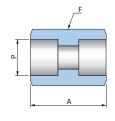


### Connects Male Pipe to Male Pipe

| Part No.     | Pipe | Size | Dimensions (mm) |      |  |
|--------------|------|------|-----------------|------|--|
| r art No.    | Р    | P1   | А               | В    |  |
| Schedule 80  |      |      |                 |      |  |
| PSN-1208     | 3/4  | 1/2  | 76.0            | 27.2 |  |
| Schedule 160 |      |      |                 |      |  |
| PSN-1208-S16 | 3/4  | 1/2  | 76.0            | 27.2 |  |

# SW Coupling **PCWS**





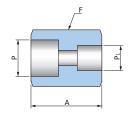
# Connects Both SW Systems

| Part No. | Pipe Size |      | Dimensions (mm) |      |  |
|----------|-----------|------|-----------------|------|--|
| Tait No. | Nom Size  | P-SW | А               | F    |  |
| PCWS-08  | 1/2       | 22.2 | 29.5            | ø 32 |  |
| PCWS-12  | 3/4       | 27.7 | 35.5            | ø 38 |  |
| PCWS-16  | 1         | 34.5 | 38.7            | ø 46 |  |



# Reducing SW Coupling PWRC





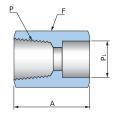
### Connects Both SW Systems

| Part No.   | Pipe Size |      |       | Dimensions (mm) |      |
|------------|-----------|------|-------|-----------------|------|
| r art No.  | Nom Size  | P-SW | P1-SW | А               | F    |
| PCRWS-1208 | 3/4 * 1/2 | 27.7 | 22.2  | 32.5            | ø 38 |
| PCRWS-1608 | 1 * 1/2   | 34.5 | 22.2  | 35.7            | ø 46 |
| PCRWS-1612 | 1 * 3/4   | 34.5 | 27.7  | 38.7            | ø 46 |

# **Special Coupling**

**PCS** 



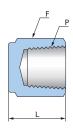


Connects Male Pipe to SW System

| Part No. |            | Pipe Size |     |       | Dimensions (mm) |      |  |
|----------|------------|-----------|-----|-------|-----------------|------|--|
|          | i dit ivo. | Nom Size  | Р   | P1-SW | Α               | F    |  |
|          | PCS-0808   | 1/2       | 1/2 | 22.2  | 40              | ø 32 |  |
|          | PCS-1212   | 3/4       | 3/4 | 27.7  | 43              | ø 38 |  |
|          | PCS-1616   | 1         | 1   | 34.5  | 40              | ø 48 |  |

Pipe Cap
PCP





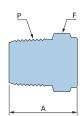
Connects Male Pipe

| Part No.  | Pipe Size | Pipe Size Dimensio |        |
|-----------|-----------|--------------------|--------|
| i dicivo. | Р         | L                  | F      |
| PCP-02    | 1/8       | 19                 | 9/16   |
| PCP-04    | 1/4       | 23                 | 3/4    |
| PCP-06    | 3/8       | 23                 | 7/8    |
| PCP-08    | 1/2       | 34                 | 1-1/16 |
| PCP-12    | 3/4       | 34                 | 1-1/4  |
| PCP-16    | 1         | 41                 | 1-5/8  |

# Pipe Cap

**PPG** 





### Connects Female Pipe

| Part No. | Pipe Size | Dimension | ons (mm) |
|----------|-----------|-----------|----------|
| Tarrivo. | Р         | Α         | F        |
| PPG-02   | 1/8       | 19        | 7/16     |
| PPG-04   | 1/4       | 24        | 9/16     |
| PPG-06   | 3/8       | 25        | 11/16    |
| PPG-08   | 1/2       | 31        | 7/8      |
| PPG-12   | 3/4       | 31        | 1-1/16   |
| PPG-16   | 1         | 38        | 1-3/8    |

Dimensions are for reference only and are subject to change without prior notice.



















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