



Thermoplastic Fittings and Valves



TrueSeal™

*Acetal Fittings meet NSF-61
All Plastic Body Designs
FDA Compliant
NSF-51 Listed*



Polypropylene Ball Valves

*Corrosion Resistant
FDA Compliant
NSF-51 Listed
Bi-directional*



Fast & Tite®

*Stainless Steel Grab Ring
FDA Compliant
NSF-51 Listed
O-ring Seal*



Par-Barb®

*FDA Compliant
NSF-51 Listed
High Strength,
Chemically Inert*



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|------------------|--|---|--|---|---|---|---|
| TrueSeal™ | MC Male Connector Tube to Pipe  Page D5 | EU Elbow Union Tube to Tube  Page D5 | TU Tee Union Tube to Tube  Page D5 | WY "Y" Union Tube to Tube  Page D5 | MES Male Elbow Swivel Tube to Pipe  Page D6 | MRS Male Run Swivel Tube to Pipe  Page D6 | |
| | MTS Male Tee Swivel Tube to Pipe  Page D6 | UC Union Connector Tube to Tube  Page D6 | CU Cross Union Tube to Tube  Page D7 | FA Faucet Adapter Tube to Faucet  Page D7 | FC Female Connector Tube to Pipe  Page D7 | FF Female Flare Tube to Flare  Page D7 | TMC Tube Stem Adapter Tube Stem to Pipe  Page D7 |
| | BU Bulkhead Union Tube to Tube  Page D8 | TEU Tube Elbow Union Tube to Tube Stem  Page D8 | RD Tube Reducer Tube to Tube Stem  Page D8 | CAP Tube Cap  Page D8 | FE Female Elbow Tube to Tube  Page D8 | ME Male Elbow Tube to Pipe  Page D9 | ST Straight Thread Tube to Male O-Ring Boss  Page D9 |
| | TCB Tube to Barb Connector  Page D9 | TEB Tube Elbow Barb Connector  Page D9 | TPL Plug  Page D9 | TSC Cartridge Insert  Page D10 | VC Check Valve  Page D10 | VME Valve Male Elbow  Page D11 | VFE Valve Female Elbow  Page D11 |
| | VUC Valve Union Connector  Page D12 | VEU Valve Elbow Union  Page D12 | VMC Valve Male Con- nector  Page D12 | VFC Valve Female Connector  Page D12 | VTEU Valve Tube Elbow Union  Page D12 | VTU Water Supply Valve  Page D13 | TFA Tube Faucet Adapter (Female Thread)  Page D14 |
| | TAF Tube Faucet Adapter (Male Thread)  Page D14 | SC Safety Clip  Page D14 | TS Tube Support  Page D14 | AQRT Quick Release Tool  Page D14 | | | |
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|---|--|--|---|--|--|--|
| Fast & Tite® | MC Male Connector Tube to Male Pipe  Page D16 | UC Union Connector Tube to Tube  Page D16 | ME Male Elbow Tube to Male Pipe  Page D16 | EU Elbow Union Tube to Tube  Page D16 | BU Bulkhead Union Tube to Tube  Page D17 | FE Female Elbow Tube to Female Pipe  Page D17 |
| | FC Female Connector Tube to Female Pipe  Page D17 | MR Male Run Tee Tube to Tube to Male Pipe  Page D17 | TU Tee Union Tube to Tube  Page D17 | MT Male branch Tee Tube to Male Pipe  Page D17 | GR Grab Ring Stainless or Plastic  Page D18 | OR O-Ring  Page D18 |
| NS Nut & Spacer Sets  Page D18 | | | | | | |
| Par-Barb® | TUB Tee Union  Page D20 | EUB Elbow Union  Page D20 | MTB Tee Male Branch  Page D20 | HPL Hex Head Pipe Plug  Page D20 | MEB Male Elbow Con- nector  Page D21 | UCB Union Connector  Page D21 |
| | HPN Hex Pipe Nipple  Page D21 | MCB Male Connector Adapter  Page D22 | | | | |
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D



TrueSeal™ Thermoplastic Push-In Fittings

D

| MATERIALS OF CONSTRUCTION | | |
|---------------------------|---------------|--------------|
| MATERIAL | FITTING COLOR | O-RING |
| ACETAL | GRAY | EPDM |
| POLYPROPYLENE | WHITE | EPDM |
| KYNAR® | NATURAL | FLUOROCARBON |

| NOMENCLATURE | |
|---------------------|---|
| EXAMPLE: A4MC4-MG-V | ATTRIBUTE: |
| A | FITTING BODY MATERIAL (A = ACETAL, PP = POLYPROPYLENE, F = KYNAR (PVDF)) |
| 4 | TUBE O.D. IN SIXTEENTHS OF AN INCH |
| MC | BODY STYLE |
| 4 | END TERMINATION SIZE |
| MG | METAL GRIPPER COLLET |
| V | O-RING MATERIALS (BLANK = REFERENCE STANDARD MATERIALS, EPDM = ETHYLENE PROPYLENE, N = NITRILE, V = FLUOROCARBON) |



| WORKING PRESSURE AND TEMPERATURE | | | |
|----------------------------------|--------------------------------|-------------------------------|-------------------------------|
| FITTING SIZE | ACETAL | POLYPROPYLENE | KYNAR® |
| 1/4" | 300 | 150 | 300 |
| 5/16" | 300 | | |
| 3/8" | 300 | 150 | 300 |
| 1/2" | 250 | 150 | |
| TEMP. RANGE | -20°F (-29°C) TO +180°F (85°C) | 0°F (-18°C) TO +225°F (110°C) | 0°F (-18°C) TO +275°F (135°C) |

| SPECIFICATIONS | |
|------------------|--|
| TUBE MATERIAL: | POLYETHYLENE, POLYPROPYLENE, NYLON, VINYL, FLUOROPOLYMER, POLYURETHANE. 3/8" AND 1/2" SIZES OF POLYURETHANE AND ALL SIZES OF VINYL SHOULD USE TUBE SUPPORTS. |
| TUBE O.D.: | 1/4, 5/16, 3/8, 1/2 |
| OPERATING FLUID: | AIR, WATER, SOFT DRINKS, BEER, WINE, DYES |
| NOTE: | FOR OTHER TYPES OF FLUIDS OR GASSES, PLEASE CONSULT FACTORY |

An all plastic push-to-connect fitting manufactured from FDA compliant materials and are NSF-51 listed for contact with food. Gray acetal fittings meet NSF-61 requirements for drinking water (potable water) system components. Fittings are light weight, field attachable and connect to tubing without the use of tools. Black nitrile o-rings and colored collets in black, white, red, blue, green, yellow and orange are also available. Consult Division. KYNAR® is a registered trademark of Atochem North America, Inc. *U.S. Patent 5,584,513.

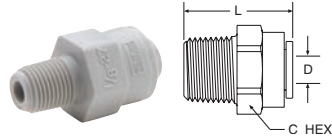
Assembly Instructions

1. Cut tubing square and clean. (Use a Parker plastic tube cutter, Part No. PTC.)
2. Mark from end of tube the length of insertion (see table right).
3. Push tube into the fitting until it bottoms out.
4. To remove, depress collet and pull tubing out.
5. Use TrueSealant™ (Part No. PTS) on threads.

| TUBE SIZES | O.D. TOLERANCE | INSERTION DEPTH |
|------------|----------------|-----------------|
| 5/32" | ±005" | 9/16" |
| 1/4" | ±005" | 11/16" |
| 5/16" | ±005" | 13/16" |
| 3/8" | ±005" | 3/4" |
| 1/2" | ±005" | 7/8" |

MC - Male Connector

Tube-to-Pipe

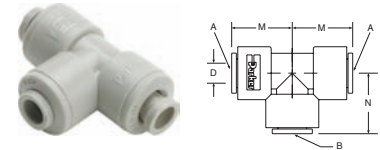


| GRAY ACETAL EPDM SEAL | WHITE PPL EPDM SEAL | NATURAL KYNAR FLUOROCARBON SEAL | NOM. TUBE O.D. | NPTF THD SIZE | C HEX | L OVERALL LENGTH | D THRU HOLE MIN. |
|-----------------------|---------------------|---------------------------------|----------------|---------------|-------|------------------|------------------|
| A4MC2-MG | PP4MC2 | F4MC2 | 1/4 | 1/8 | 11/16 | 1.28 | .175 |
| A4MC4-MG | PP4MC4 | F4MC4 | 1/4 | 1/4 | 11/16 | 1.14 | .175 |
| A4MC6-MG | PP4MC6 | F4MC6 | 1/4 | 3/8 | 11/16 | 1.18 | .175 |
| A5MC2-MG | | | 5/16 | 1/8 | 13/16 | 1.46 | .175 |
| A5MC4-MG | | | 5/16 | 1/4 | 13/16 | 1.41 | .188 |
| A5MC6-MG | | | 5/16 | 3/8 | 13/16 | 1.27 | .188 |
| A6MC2-MG | | F6MC2 | 3/8 | 1/8 | 13/16 | 1.46 | .175 |
| A6MC4-MG | PP6MC4 | F6MC4 | 3/8 | 1/4 | 13/16 | 1.41 | .250 |
| A6MC6-MG | PP6MC6 | F6MC6 | 3/8 | 3/8 | 13/16 | 1.27 | .250 |
| A6MC8-MG | | F6MC8 | 3/8 | 1/2 | 15/16 | 1.45 | .250 |
| A8MC6-MG | PP8MC6 | | 1/2 | 3/8 | 15/16 | 1.65 | .360 |
| A8MC8-MG | PP8MC8 | | 1/2 | 1/2 | 15/16 | 1.46 | .375 |

For nonstandard plastic collet, remove -MG suffix.

TU - Tee Union

Tube-to-Tube



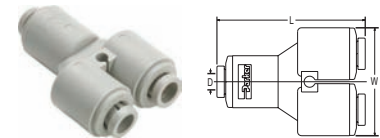
| GRAY ACETAL EPDM SEAL | WHITE PPL EPDM SEAL | NATURAL KYNAR FLUOROCARBON SEAL | NOM. TUBE O.D. | | M | N | D THRU HOLE MIN. |
|-----------------------|---------------------|---------------------------------|----------------|-------------|------|------|------------------|
| | | | TUBE A RUN | TUBE B STEM | | | |
| A4TU4-MG | PP4TU4 | F4TU4 | 1/4 | 1/4 | 0.81 | 0.85 | .175 |
| A5TU5-MG | | | 5/16 | 5/16 | 1.02 | 1.02 | .188 |
| A6TU4-MG | PP6TU4 | F6TU4 | 3/8 | 1/4 | 1.02 | 1.03 | .175 |
| A6TU6-MG | PP6TU6 | F6TU6 | 3/8 | 3/8 | 1.02 | 1.02 | .290 |
| A8TU8-MG | PP8TU8 | | 1/2 | 1/2 | 1.20 | 1.20 | .375 |

For nonstandard plastic collet, remove -MG suffix.



WY - "Y" Union

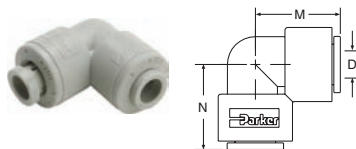
Tube-to-Tube



| GRAY ACETAL EPDM SEAL | WHITE PPL EPDM SEAL | NATURAL KYNAR FLUOROCARBON SEAL | NOM. TUBE O.D. | | L | W | D THRU HOLE MIN. |
|-----------------------|---------------------|---------------------------------|------------------|--------------------|-------|------|------------------|
| | | | INLET TUBE A RUN | OUTLET TUBE B STEM | | | |
| A5WY5-MG | | | 5/16 | 5/16 | 2.250 | 1.75 | 0.190 |
| A6WY4-MG | | | 3/8 | 1/4 | 2.100 | 1.43 | 0.190 |
| A6WY5-MG | | | 3/8 | 5/16 | 2.200 | 1.75 | 0.190 |
| A6WY6-MG | | | 3/8 | 3/8 | 2.175 | 1.75 | 0.250 |

EU - Elbow Union

Tube-to-Tube

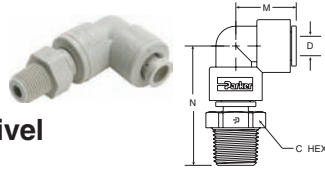


| GRAY ACETAL EPDM SEAL | WHITE POLYPROPYLENE EPDM SEAL | NATURAL KYNAR FLUOROCARBON SEAL | NOM. TUBE O.D. | M | N | D THRU HOLE MIN. |
|-----------------------|-------------------------------|---------------------------------|----------------|-------|------|------------------|
| A4EU4-MG | PP4EU4 | F4EU4 | 1/4 | 0.87 | 0.87 | .175 |
| A5EU4-MG | | | 5/16-1/4 | 1.052 | 0.90 | .175 |
| A5EU5-MG | | | 5/16 | 1.02 | 1.02 | .188 |
| A6EU4-MG | PP6EU4 | F6EU4 | 3/8-1/4 | 1.02 | 0.90 | .212 |
| A6EU5-MG | | | 3/8-5/16 | 1.02 | 1.02 | .175 |
| A6EU6-MG | PP6EU6 | F6EU6 | 3/8 | 1.02 | 1.02 | .250 |
| A8EU6-MG | | | 1/2-3/8 | 1.20 | 1.20 | .250 |
| A8EU8-MG | PP8EU8 | | 1/2 | 1.20 | 1.20 | .375 |

For nonstandard plastic collet, remove -MG suffix.

NOTE: PPL refers to Polypropylene. FCB refers to Fluorocarbon.



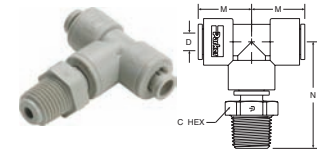


MES - Male Elbow Swivel

Tube-to-Pipe

| GRAY ACETAL EPDM SEAL | WHITE PPL EPDM SEAL | NATURAL KYNAR FCB SEAL | NOM. TUBE O.D. | NPTF THD SIZE | C HEX | M | N | D THRU HOLE MIN. |
|-----------------------|---------------------|------------------------|----------------|---------------|-------|------|------|------------------|
| A4MES2-MG | PP4MES2 | F4MES2 | 1/4 | 1/8 | 9/16 | 0.87 | 1.60 | .175 |
| A4MES4-MG | PP4MES4 | F4MES4 | 1/4 | 1/4 | 11/16 | 0.87 | 1.71 | .175 |
| A4MES6-MG | PP4MES6 | F4MES6 | 1/4 | 3/8 | 13/16 | 0.90 | 1.91 | .212 |
| A5MES2-MG | | | 5/16 | 1/8 | 9/16 | 1.02 | 1.78 | .188 |
| A5MES4-MG | | | 5/16 | 1/4 | 11/16 | 1.02 | 1.90 | .188 |
| A5MES6-MG | | | 5/16 | 3/8 | 13/16 | 1.02 | 1.90 | .188 |
| A6MES2-MG | | F6MES2 | 3/8 | 1/8 | 9/16 | 1.02 | 1.65 | .175 |
| A6MES4-MG | PP6MES4 | F6MES4 | 3/8 | 1/4 | 13/16 | 1.02 | 1.90 | .250 |
| A6MES6-MG | PP6MES6 | F6MES6 | 3/8 | 3/8 | 13/16 | 1.02 | 1.90 | .250 |
| A8MES4-MG | | | 1/2 | 1/4 | 13/16 | 1.20 | 2.10 | .240 |
| A8MES6-MG | PP8MES6 | | 1/2 | 3/8 | 13/16 | 1.20 | 2.10 | .375 |
| A8MES8-MG | PP8MES8 | | 1/2 | 1/2 | 1 | 1.20 | 2.32 | .375 |

* Part consists of elbow union and tube stem adaptor.
 Note: Assemblies with metal gripper collets are permanent.
 Assemblies with plastic collets can be taken apart.

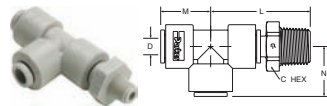


MTS - Male Tee Swivel

Tube-to-Pipe

| GRAY ACETAL EPDM SEAL | WHITE PPL EPDM SEAL | NATURAL KYNAR FCB SEAL | NOM. TUBE O.D. | NPTF THD SIZE | C HEX | M | N | D THRU HOLE MIN. |
|-----------------------|---------------------|------------------------|----------------|---------------|-------|------|------|------------------|
| A4MTS2-MG | PP4MTS2 | F4MTS2 | 1/4 | 1/8 | 9/16 | 0.81 | 1.60 | .175 |
| A4MTS4-MG | PP4MTS4 | F4MTS4 | 1/4 | 1/4 | 11/16 | 0.81 | 1.71 | .175 |
| A5MTS2-MG | | | 5/16 | 1/8 | 9/16 | 1.02 | 1.78 | .188 |
| A5MTS4-MG | | | 5/16 | 1/4 | 11/16 | 1.02 | 1.90 | .188 |
| A5MTS6-MG | | | 5/16 | 3/8 | 13/16 | 1.02 | 1.90 | .188 |
| A6MTS2-MG | | F6MTS2 | 3/8 | 1/8 | 9/16 | 1.02 | 1.75 | .175 |
| A6MTS4-MG | PP6MTS4 | F6MTS4 | 3/8 | 1/4 | 13/16 | 1.02 | 1.90 | .250 |
| A6MTS6-MG | PP6MTS6 | F6MTS6 | 3/8 | 3/8 | 13/16 | 1.02 | 1.90 | .250 |
| A8MTS4-MG | | | 1/2 | 1/4 | 13/16 | 1.20 | 2.10 | .240 |
| A8MTS6-MG | PP8MTS6 | | 1/2 | 3/8 | 13/16 | 1.20 | 2.10 | .375 |
| A8MTS8-MG | PP8MTS8 | | 1/2 | 1/2 | 1 | 1.20 | 2.32 | .375 |

* Part consists of tee union and tube stem adaptor.
 Note: Assemblies with metal gripper collets are permanent.
 Assemblies with plastic collets can be taken apart.

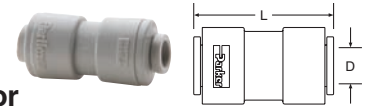


MRS - Male Run Swivel

Tube-to-Pipe

| GRAY ACETAL EPDM SEAL | WHITE PPL EPDM SEAL | NATURAL KYNAR FCB SEAL | NOM. TUBE O.D. | NPTF THD SIZE | C HEX | L | M | N | D THRU HOLE MIN. |
|-----------------------|---------------------|------------------------|----------------|---------------|-------|------|------|------|------------------|
| A4MRS2-MG | PP4MRS2 | F4MRS2 | 1/4 | 1/8 | 9/16 | 1.55 | 0.81 | 0.85 | .175 |
| A4MRS4-MG | PP4MRS4 | F4MRS4 | 1/4 | 1/4 | 11/16 | 1.67 | 0.81 | 0.85 | .175 |
| A5MRS2-MG | | | 5/16 | 1/8 | 9/16 | 1.78 | 1.02 | 1.02 | .188 |
| A5MRS4-MG | | | 5/16 | 1/4 | 11/16 | 1.90 | 1.02 | 1.02 | .188 |
| A5MRS6-MG | | | 5/16 | 3/8 | 13/16 | 1.90 | 1.02 | 1.02 | .188 |
| A6MRS4-MG | PP6MRS4 | F6MRS4 | 3/8 | 1/4 | 13/16 | 1.90 | 1.02 | 1.02 | .250 |
| A6MRS6-MG | PP6MRS6 | F6MRS6 | 3/8 | 3/8 | 13/16 | 1.90 | 1.02 | 1.02 | .250 |
| A8MRS4-MG | | | 1/2 | 1/4 | 13/16 | 2.10 | 1.20 | 1.20 | .240 |
| A8MRS6-MG | PP8MRS6 | | 1/2 | 3/8 | 13/16 | 2.10 | 1.20 | 1.20 | .375 |
| A8MRS8-MG | PP8MRS8 | | 1/2 | 1/2 | 1 | 2.32 | 1.20 | 1.20 | .375 |

*Part consists of tee union and tube stem adaptor.
 Note: Assemblies with metal gripper collets are permanent.
 Assemblies with plastic collets can be taken apart.



UC - Union Connector

Tube-to-Tube

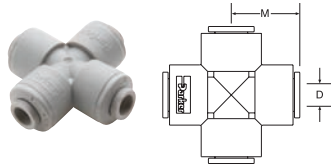
| GRAY ACETAL EPDM SEAL | WHITE POLYPROPYLENE EPDM SEAL | NATURAL KYNAR FLUOROCARBON SEAL | NOM. TUBE O.D. | L OVERALL LENGTH | D THRU HOLE MIN. |
|-----------------------|-------------------------------|---------------------------------|----------------|------------------|------------------|
| A4UC4-MG | PP4UC4 | F4UC4 | 1/4 | 1.49 | .175 |
| A5UC4-MG | | | 5/16-1/4 | 1.70 | .175 |
| A5UC5-MG | | | 5/16 | 1.70 | .188 |
| A6UC4-MG | PP6UC4 | F6UC4 | 3/8-1/4 | 1.70 | .175 |
| A6UC5-MG | | | 3/8-5/16 | 1.70 | .188 |
| A6UC6-MG | PP6UC6 | F6UC6 | 3/8 | 1.70 | .250 |
| A8UC5-MG | | | 1/2-5/16 | 1.90 | .188 |
| A8UC6-MG | PP8UC6 | | 1/2-3/8 | 1.90 | .250 |
| A8UC8-MG | PP8UC8 | | 1/2 | 1.91 | .375 |

For nonstandard plastic collet, remove -MG suffix.

NOTE: PPL refers to Polypropylene. FCB refers to Fluorocarbon.



CU - Cross Union

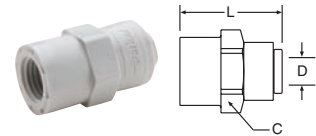


Tube-to-Tube

| GRAY ACETAL EPDM SEAL | WHITE PPL EPDM SEAL | NATURAL KYNAR FLUOROCARBON SEAL | NOM. TUBE O.D. | M | D THRU HOLE MIN. |
|-----------------------|---------------------|---------------------------------|----------------|------|------------------|
| A4CU4-MG | | | 1/4 | .91 | .175 |
| A6CU6-MG | | | 3/8 | 1.08 | .250 |

For nonstandard plastic collet, remove -MG suffix.

FF - 45° Female Flare



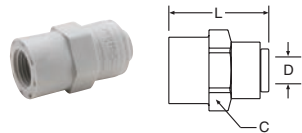
Tube-to-Flare

| GRAY ACETAL EPDM SEAL | WHITE PPL EPDM SEAL | NATURAL KYNAR FLUOROCARBON SEAL | NOM. TUBE O.D. | UNF-2B THREAD SIZE | C HEX | L OVERALL LENGTH | D THRU HOLE MIN. |
|-----------------------|---------------------|---------------------------------|----------------|--------------------|-------|------------------|------------------|
| A4FF4-MG | PP4FF4 | F4FF4 | 1/4 | 7/16-20 | 23/32 | 1.32 | .190 |
| A6FF4-MG | | F6FF4 | 3/8 | 7/16-20 | 13/16 | 1.41 | .190 |
| A6FF6-MG | PP6FF6 | F6FF6 | 3/8 | 5/8-18 | 1 | 1.50 | .250 |

For nonstandard plastic collet, remove -MG suffix.



FA - Faucet Adapter

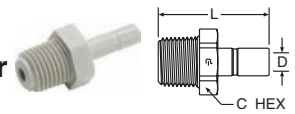


Tube-to-Faucet

| GRAY ACETAL EPDM SEAL | WHITE PPL EPDM SEAL | NATURAL KYNAR FLUOROCARBON SEAL | NOM. TUBE O.D. | UNS-2B THREAD SIZE | C HEX | L OVERALL LENGTH | D THRU HOLE MIN. |
|-----------------------|---------------------|---------------------------------|----------------|--------------------|-------|------------------|------------------|
| A4FA7-MG | PP4FA7 | F4FA7 | 1/4 | 7/16-24 | 23/32 | 1.32 | .190 |
| A5FA7-MG | | | 5/16 | 7/16-24 | 13/16 | 1.41 | .190 |
| A6FA7-MG | PP6FA7 | F6FA7 | 3/8 | 7/16-24 | 13/16 | 1.41 | .190 |

For nonstandard plastic collet, remove -MG suffix.

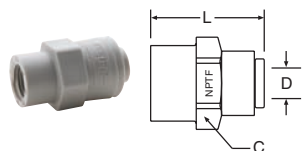
TMC - Tube Stem Adapter



Tube Stem-to-Pipe

| GRAY ACETAL EPDM SEAL | WHITE PPL EPDM SEAL | NATURAL KYNAR FLUOROCARBON SEAL | NOM. TUBE O.D. | NPTF THREAD SIZE | C HEX | L OVERALL LENGTH | D THRU HOLE MIN. |
|-----------------------|---------------------|---------------------------------|----------------|------------------|-------|------------------|------------------|
| A4TMC2 | PP4TMC2 | F4TMC2 | 1/4 | 1/8 | 9/16 | 1.44 | .175 |
| A4TMC4 | PP4TMC4 | F4TMC4 | 1/4 | 1/4 | 11/16 | 1.56 | .175 |
| A5TMC2 | | | 5/16 | 1/8 | 9/16 | 1.5 | .188 |
| A5TMC4 | | | 5/16 | 1/4 | 11/16 | 1.67 | .188 |
| A5TMC6 | | | 5/16 | 3/8 | 13/16 | 1.67 | .188 |
| A6TMC4 | PP6TMC4 | F6TMC4 | 3/8 | 1/4 | 13/16 | 1.70 | .250 |
| A6TMC6 | PP6TMC6 | F6TMC6 | 3/8 | 3/8 | 13/16 | 1.70 | .250 |
| A8TMC4 | | | 1/2 | 1/4 | 13/16 | 1.82 | .240 |
| A8TMC6 | PP8TMC6 | | 1/2 | 3/8 | 13/16 | 1.82 | .375 |
| A8TMC8 | PP8TMC8 | | 1/2 | 1/2 | 1 | 2.04 | .375 |

FC - Female Connector



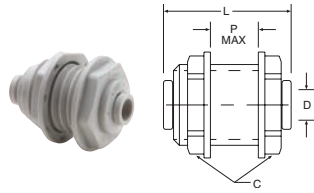
Tube-to-Pipe

| GRAY ACETAL EPDM SEAL | WHITE PPL EPDM SEAL | NATURAL KYNAR FLUOROCARBON SEAL | NOM. TUBE O.D. | NPTF THREAD SIZE | C HEX | L OVERALL LENGTH | D THRU HOLE MIN. |
|-----------------------|---------------------|---------------------------------|----------------|------------------|-------|------------------|------------------|
| A4FC2-MG | PP4FC2 | F4FC2 | 1/4 | 1/8 | 11/16 | 1.20 | .175 |
| A4FC4-MG | PP4FC4 | F4FC4 | 1/4 | 1/4 | 23/32 | 1.32 | .175 |
| A5FC4-MG | | | 5/16 | 1/4 | 13/16 | 1.41 | .188 |
| A5FC6-MG | | | 5/16 | 3/8 | 1 | 1.50 | .188 |
| A6FC4-MG | PP6FC4 | F6FC4 | 3/8 | 1/4 | 13/16 | 1.41 | .250 |
| A6FC6-MG | PP6FC6 | F6FC6 | 3/8 | 3/8 | 1 | 1.50 | .250 |
| A6FC8-MG | | | 3/8 | 1/2 | 1-1/8 | 1.52 | .250 |
| A8FC6-MG | PP8FC6 | | 1/2 | 3/8 | 1-1/8 | 1.60 | .375 |
| A8FC8-MG | PP8FC8 | | 1/2 | 1/2 | 1-1/8 | 1.75 | .375 |

For nonstandard plastic collet, remove -MG suffix.

NOTE: PPL refers to Polypropylene. FCB refers to Fluorocarbon.





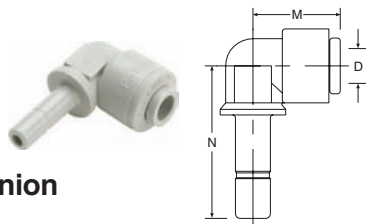
BU - Bulkhead Union

Tube-to-Tube

| GRAY ACETAL EPDM SEAL | WHITE PPL EPDM SEAL | NATURAL KYNAR FCB SEAL | NOM. TUBE O.D. | C1 HEX | C2 HEX | L OVERALL LENGTH | P MAX. WALL THK. | D THRU HOLE MIN. | BKHD HOLE DRILL SIZE |
|-----------------------|---------------------|------------------------|----------------|--------|--------|------------------|------------------|------------------|----------------------|
| A4BU4-MG | PP4BU4 | F4BU4 | 1/4 | 15/16 | 15/16 | 1.50 | .50 | .175 | 7/8 |
| A5BU5-MG | | | 5/16 | 1-1/16 | 1-1/16 | 1.75 | .62 | .188 | 1 |
| A6BU4-MG | PP6BU4 | | 3/8-1/4 | 1-1/16 | 1-1/16 | 1.75 | .62 | .175 | 1 |
| A6BU6-MG | PP6BU6 | F6BU6 | 3/8 | 1-1/16 | 1-1/16 | 1.75 | .62 | .250 | 1 |
| A8BU8-MG | | | 1/2 | 1-1/4 | 1-1/4 | 2.04 | .70 | .375 | 1-1/8 |

For nonstandard plastic collet, remove -MG suffix.

D



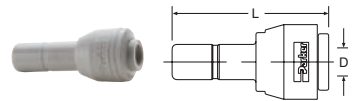
TEU - Tube Elbow Union

Tube-to-Tube Stem

| GRAY ACETAL EPDM SEAL | WHITE PPL EPDM SEAL | NATURAL KYNAR FLUOROCARBON SEAL | NOM. TUBE O.D. | TUBE STEM O.D. | M | N | D THRU HOLE MIN. |
|-----------------------|---------------------|---------------------------------|----------------|----------------|------|------|------------------|
| A4TEU4-MG | PP4TEU4 | F4TEU4 | 1/4 | 1/4 | .84 | 1.21 | .125 |
| A4TEU6-MG | | F4TEU6 | 1/4 | 3/8 | .84 | 1.35 | .125 |
| A5TEU5-MG | | | 5/16 | 5/16 | 1.03 | 1.40 | .188 |
| A6TEU4-MG | | F6TEU4 | 3/8 | 1/4 | 1.03 | 1.29 | .125 |
| A6TEU6-MG | PP6TEU6 | F6TEU6 | 3/8 | 3/8 | 1.03 | 1.64 | .250 |
| A8TEU8-MG | PP8TEU8 | | 1/2 | 1/2 | 1.21 | 1.64 | .380 |

For nonstandard plastic collet, remove -MG suffix.

RD - Tube Reducer



Tube-to-Tube Stem

| GRAY ACETAL EPDM SEAL | WHITE POLYPROPYLENE EPDM SEAL | NATURAL KYNAR FLUOROCARBON SEAL | NOM. TUBE O.D. | TUBE STEM O.D. | L | D THRU HOLE MIN. |
|-----------------------|-------------------------------|---------------------------------|----------------|----------------|------|------------------|
| A4RD5-MG | PP4RD5 | | 1/4 | 5/16 | 1.62 | .18 |
| A4RD6-MG | PP4RD6 | | 1/4 | 3/8 | 1.62 | .18 |
| A5RD6-MG | | | 5/16 | 3/8 | 1.78 | .25 |
| A5RD8-MG | | | 5/16 | 1/2 | 1.90 | .25 |
| A6RD8-MG | | | 3/8 | 1/2 | 1.90 | .25 |

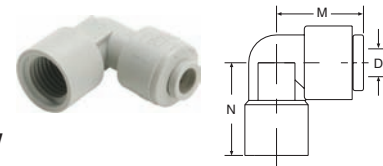
For nonstandard plastic collet, remove -MG suffix.



CAP - Tube Cap

| GRAY ACETAL EPDM SEAL | WHITE POLYPROPYLENE EPDM SEAL | NATURAL KYNAR FLUOROCARBON SEAL | NOM. TUBE O.D. | L OVERALL LENGTH |
|-----------------------|-------------------------------|---------------------------------|----------------|------------------|
| A4CAP-MG | PP4CAP | F4CAP | 1/4 | 0.77 |
| A6CAP-MG | PP6CAP | | 3/8 | 0.88 |

For nonstandard plastic collet, remove -MG suffix.



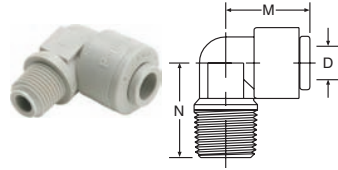
FE - Female Elbow

Tube-to-Tube

| GRAY ACETAL EPDM SEAL | WHITE PPL EPDM SEAL | NATURAL KYNAR FLUOROCARBON SEAL | NOM. TUBE O.D. | NPTF THREAD SIZE | M | N | D THRU HOLE MIN. |
|-----------------------|---------------------|---------------------------------|----------------|------------------|------|------|------------------|
| A4FE4-MG | | | 1/4 | 1/4 | 0.84 | 1.00 | .18 |
| A6FE4-MG | | | 3/8 | 1/4 | 1.03 | 1.00 | .25 |
| A6FE6-MG | | | 3/8 | 3/8 | 1.03 | 1.00 | .25 |

For nonstandard plastic collet, remove -MG suffix.

NOTE: PPL refers to Polypropylene. FCB refers to Fluorocarbon.

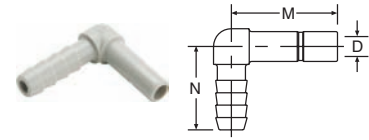


ME - Male Elbow

Tube-to-Pipe

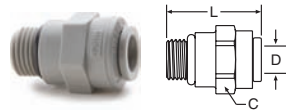
| GRAY ACETAL EPDM SEAL | WHITE POLYPROPYLENE EPDM SEAL | NATURAL KYNAR FLUOROCARBON SEAL | NOM. TUBE O.D. | NPTF THD SIZE | M | N | D THRU HOLE MIN. |
|-----------------------|-------------------------------|---------------------------------|----------------|---------------|------|------|------------------|
| A4ME2-MG | PP4ME2 | F4ME2 | 1/4 | 1/8 | 0.84 | 0.94 | .175 |
| A4ME4-MG | PP4ME4 | F4ME4 | 1/4 | 1/4 | 0.84 | 0.94 | .175 |
| A4ME6-MG | PP4ME6 | F4ME6 | 1/4 | 3/8 | 0.84 | 1.04 | .175 |
| A5ME4-MG | | | 5/16 | 1/4 | 1.03 | 1.08 | .175 |
| A5ME6-MG | | | 5/16 | 3/8 | 1.03 | 1.06 | .188 |
| A6ME4-MG | PP6ME4 | F6ME4 | 3/8 | 1/4 | 1.03 | 1.08 | .250 |
| A6ME6-MG | PP6ME6 | F6ME6 | 3/8 | 3/8 | 1.03 | 1.06 | .250 |

For nonstandard plastic collet, remove -MG suffix.



TEB - Tube Elbow Barb Connector

| GRAY ACETAL | WHITE POLYPROPYLENE | NATURAL KYNAR | TUBE STEM O.D. | TUBE I.D. | M | N | D THRU HOLE MIN. |
|-------------|---------------------|---------------|----------------|-----------|------|------|------------------|
| A4TEB4 | PP4TEB4 | F4TEB4 | 1/4 | 1/4 | 0.89 | 1.00 | .140 |
| A6TEB6 | PP6TEB6 | F6TEB6 | 3/8 | 3/8 | 1.34 | 1.21 | .250 |
| A8TEB8 | | | 1/2 | 1/2 | 1.30 | 1.30 | .390 |

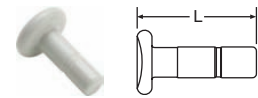


ST - Straight Thread

Tube-to-Male O-Ring Boss

| GRAY ACETAL EPDM SEAL | WHITE PPL EPDM SEAL | NATURAL KYNAR FLUOROCARBON SEAL | NOM. TUBE O.D. | UNF-2B THD SIZE | C HEX | L OVERALL LENGTH | D THRU HOLE MIN. |
|-----------------------|---------------------|---------------------------------|----------------|-----------------|-------|------------------|------------------|
| A6ST9-MG | | F6ST9 (+) | 3/8 | 9/16-18 | 13/16 | 1.39 | .250 |

For nonstandard plastic collet, remove -MG suffix.



TPL - Plug

| GRAY ACETAL | WHITE POLYPROPYLENE | NATURAL KYNAR | FITTING SIZE | L OVERALL LENGTH |
|-------------|---------------------|---------------|--------------|------------------|
| A4TPL | PP4TPL | F4TPL | 1/4 | 0.88 |
| A6TPL | PP6TPL | F6TPL | 3/8 | 1.45 |
| A8TPL | PP8TPL | | 1/2 | 1.50 |



TCB - Tube-to-Barb Connector

| GRAY ACETAL | WHITE POLYPROPYLENE | NATURAL KYNAR | TUBE STEM O.D. | TUBE I.D. | L OVERALL LENGTH | D THRU HOLE MIN. |
|-------------|---------------------|---------------|----------------|-----------|------------------|------------------|
| A4TCB4 | PP4TCB4 | F4TCB4 | 1/4 | 1/4 | 1.67 | .140 |
| A6TCB4 | | F6TCB4 | 3/8 | 1/4 | 1.82 | .140 |
| A6TCB6 | PP6TCB6 | F6TCB6 | 3/8 | 3/8 | 1.98 | .250 |
| A8TCB6 | | | 1/2 | 3/8 | 2.10 | .250 |
| A8TCB8 | | | 1/2 | 1/2 | 2.10 | .375 |

NOTE: PPL refers to Polypropylene. FCB refers to Fluorocarbon.

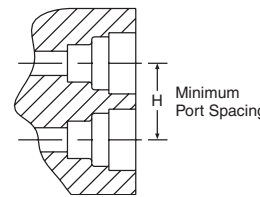
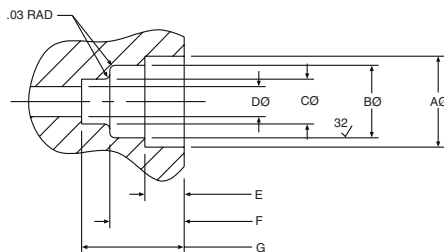




TSC - Cartridge Insert

| PART NUMBER WITH EPDM SEAL | NOM. TUBE O.D. | A* DIAMETER ±.002 | B DIAMETER ±.003 | C DIAMETER ±.003 | D DIAMETER MINIMUM | E DEPTH ±.002 | F DEPTH ±.002 | G DEPTH ±.002 | H* CENTERLINE OF PORTS MINIMUM |
|----------------------------|----------------|-------------------|------------------|------------------|--------------------|---------------|---------------|---------------|--------------------------------|
| ATSC4-MG | 1/4 | .528 | .421 | .260 | .19 | .230 | .435 | .600 | .670 |
| ATSC6-MG | 3/8 | .632 | .545 | .385 | .31 | .280 | .455 | .705 | .790 |
| ATSC8-MG | 1/2 | .774 | .668 | .510 | .41 | .315 | .510 | .810 | 1.250 |

D



Parker TrueSeal™ Cartridge Inserts:

Allow you to machine or mold a tube connection into your equipment or components. By using cartridge inserts, you will reduce your material and assembly costs, reduce potential leak paths, and give your equipment a new, clean profile by eliminating the need for threaded connections. TSC Cartridge Inserts consist of 1 o-ring, 1 cartridge, and 1 collet.

*Cartridge inserts are rated at 300 psi in ports dimensioned as above and having Noryl as the receiving material. Other materials may have different ratings and require different port dimensions. Consult the Brass Products Division when using polypropylene, unfilled polypropylene, ABS or Nylon.

NORYL® is a registered trademark of the General Electric Co.

Assembly Instructions:

Step 1—Machine or mold the receiving orifice as per the above dimensions.

Step 2—Place the cartridge insert squarely onto the prepared port opening making sure that the barbs of the cartridge are going into the hole and the lettering on the face of the cartridge is visible.

Step 3—Using a rubber mallet or press, insert the cartridge into the first gland orifice until its face is flush with the top surface of the port.

Step 4—Insert the o-ring into the cartridge and seat it evenly into the second gland orifice.

Step 5—Insert the collet into the cartridge opening.

Step 6—Insert tubing.

TrueSeal Check Valves

Push-to-Connect check valves that ensures protection against reversal of flow. The valves have an arrow molded into the body to indicate the direction of flow. Valves are designed for connection with either thermoplastic or soft metal tubing and are intended for use with liquids only.

Materials of Construction

Body: Acetal

O-ring: EPDM

Metal Grip Edge: 300 Stainless

Working Pressure

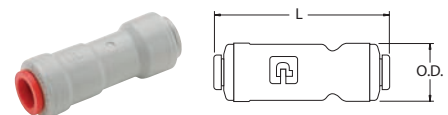
Up to 150 PSI depending on tubing being used

Temperature Range

+34°F (1° C) to +150°F (65°C)

Cracking Pressure

1/3 PSI



VC – Check Valve

| PART NO. | TUBE SIZE | L | O.D. |
|----------|-----------|------|------|
| A4VC4-MG | 1/4 | 2.00 | .66 |
| A5VC5-MG | 5/16 | 2.10 | .70 |
| A6VC6-MG | 3/8 | 2.15 | .80 |

NOTE: PPL refers to Polypropylene. FCB refers to Fluorocarbon.



Polypropylene Ball Valves

For proven leak-free performance, specify **Polypropylene Ball Valves**. Their corrosion-resistant, all-plastic design makes them ideal for water filtration units, coffee and beverage machines and a wide variety of other fluid applications. Polypropylene material meets all FDA and NSF-51 requirements for food contact.

Features/Benefits:

- Precision molded, all-plastic design is leak free and corrosion resistant.
- Polypropylene material offers a wider chemical acceptance range, as well as a wide temperature range.
- Bi-directional flow maximizes productivity.
- Full flow design reduces pressure drop across the valve.
- Special o-ring seal ensures a reliable leak-tight connection.
- TrueSeal™ connection reduces potential leaks.

Specifications:

- Temperature range: 0°F to 225°F (-18°C to 107°C).
- O-ring seal material: Nitrile.
- NSF-51 listed.
- Pressure rated to 150 PSI with a 600 PSI burst pressure. Actual working pressures will be lower at elevated temperatures

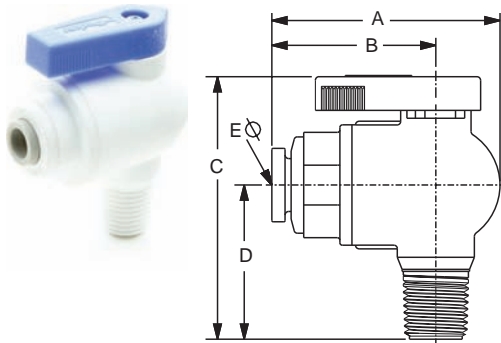
Advantages:

- Reduce costs—Built-in TrueSeal™ connection eliminates the need for a secondary fitting.
- Save space—Low-profile design allows for easy assembly and access where space is at a premium.

Assembly Instructions:

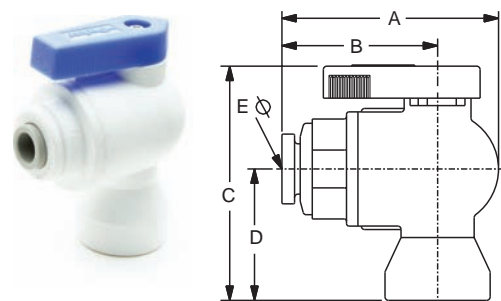
1. Inspect the mating threads for debris or damage. Remove any old fluoropolymer tape or sealant on previously used threads. If threads are damaged, replace with new adapter before proceeding.
2. Apply 2 to 3 wraps of fluoropolymer tape, Parker TrueSealant™ or an NSF/FDA approved silicon sealant. Do not use Plumbers Putty or Pipe Dope. These chemically react with plastic materials and could cause a failure.
3. Align ball valve to mating thread to ensure cross threading does not occur.
4. Screw ball valve onto mating thread 3 to 5 turns. This should be sufficient to properly seal the threads.
5. Pressurize system and check for leaks.

VME - Valve Male Elbow



| PART NUMBER | NOM. TUBE O. D. | NPTF THREAD SIZE | A | B | C | D | ØE THRU HOLE MIN. |
|----------------|-----------------|------------------|------|------|------|------|-------------------|
| PP4VME2-MG (+) | 1/4 | 1/8 | 1.74 | 1.21 | 2.00 | 1.10 | .19 |
| PP4VME4-MG | 1/4 | 1/4 | 1.74 | 1.21 | 2.18 | 1.28 | .19 |
| PP4VME6-MG | 1/4 | 3/8 | 1.74 | 1.21 | 2.18 | 1.28 | .19 |
| PP4VME8-MG (+) | 1/4 | 1/2 | 1.74 | 1.21 | 2.37 | 1.47 | .19 |
| PP6VME2-MG (+) | 3/8 | 1/8 | 1.85 | 1.32 | 2.00 | 1.10 | .25 |
| PP6VME4-MG | 3/8 | 1/4 | 1.85 | 1.32 | 2.18 | 1.28 | .25 |
| PP6VME6-MG | 3/8 | 3/8 | 1.85 | 1.32 | 2.18 | 1.28 | .25 |
| PP6VME8-MG | 3/8 | 1/2 | 1.85 | 1.32 | 2.37 | 1.47 | .25 |

VFE - Valve Female Elbow

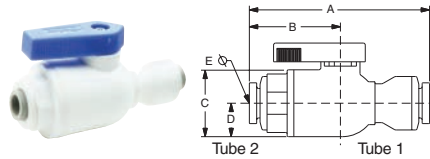


| PART NUMBER | NOM. TUBE O. D. | NPTF THREAD SIZE | A | B | C | D | ØE THRU HOLE MIN. |
|----------------|-----------------|------------------|------|------|------|------|-------------------|
| PP4VFE2-MG (+) | 1/4 | 1/8 | 1.74 | 1.21 | 1.82 | 0.92 | .19 |
| PP4VFE4-MG | 1/4 | 1/4 | 1.74 | 1.21 | 2.05 | 1.15 | .19 |
| PP4VFE6-MG | 1/4 | 3/8 | 1.74 | 1.21 | 2.18 | 1.28 | .19 |
| PP6VFE2-MG (+) | 3/8 | 1/8 | 1.85 | 1.32 | 1.82 | 0.92 | .25 |
| PP6VFE4-MG | 3/8 | 1/4 | 1.85 | 1.32 | 2.05 | 1.15 | .25 |
| PP6VFE6-MG | 3/8 | 3/8 | 1.85 | 1.32 | 2.18 | 1.28 | .25 |

(+) Non Standard.

NOTE: PPL refers to Polypropylene. FCB refers to Fluorocarbon.

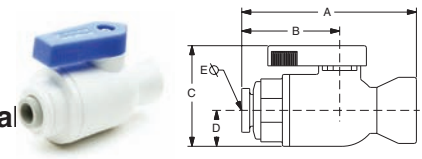




VUC - Valve Union Connector

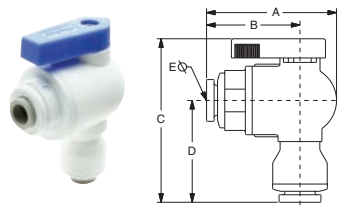
| PART NUMBER | 1 TUBE SIZE | 2 TUBE SIZE | A | B | C | D | ØE THRU HOLE MIN. |
|-------------|-------------|-------------|------|------|-----|-----|-------------------|
| PP4VUC4-MG | 1/4 | 1/4 | 2.55 | 1.22 | 1.0 | 0.5 | .19 |
| PP4VUC6-MG | 1/4 | 3/8 | 2.55 | 1.22 | 1.0 | 0.5 | .19 |
| PP6VUC4-MG | 3/8 | 1/4 | 2.57 | 1.30 | 1.0 | 0.5 | .19 |
| PP6VUC6-MG | 3/8 | 3/8 | 2.67 | 1.32 | 1.4 | 0.5 | .25 |

D



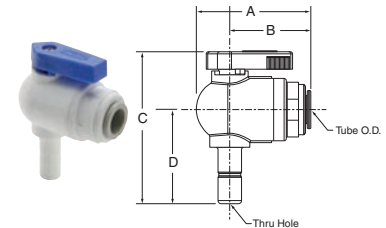
VFC - Valve Female Connector

| PART NUMBER | NOM. TUBE O.D. | NPTF THREAD SIZE | A | B | C | D | ØE THRU HOLE MIN. |
|-------------|----------------|------------------|------|------|-----|-----|-------------------|
| PP4VFC2-MG | 1/4 | 1/8 | 2.04 | 1.21 | 1.4 | 0.5 | .19 |
| PP4VFC4-MG | 1/4 | 1/4 | 2.27 | 1.21 | 1.4 | 0.5 | .19 |
| PP4VFC6-MG | 1/4 | 3/8 | 2.40 | 1.21 | 1.4 | 0.5 | .19 |
| PP6VFC2-MG | 3/8 | 1/8 | 2.15 | 1.32 | 1.4 | 0.5 | .25 |
| PP6VFC4-MG | 3/8 | 1/4 | 2.38 | 1.32 | 1.4 | 0.5 | .25 |
| PP6VFC6-MG | 3/8 | 3/8 | 2.51 | 1.32 | 1.4 | 0.5 | .25 |



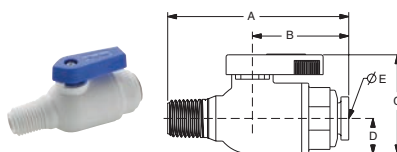
VEU - Valve Elbow Union

| PART NUMBER | 1 TUBE SIZE | 2 TUBE SIZE | A | B | C | D | ØE THRU HOLE MIN. |
|-------------|-------------|-------------|------|------|------|------|-------------------|
| PP4VEU4-MG | 1/4 | 1/4 | 1.75 | 1.22 | 2.33 | 1.42 | .19 |
| PP4VEU6-MG | 1/4 | 3/8 | 1.75 | 1.22 | 2.33 | 1.42 | .11 |
| PP6VEU4-MG | 3/8 | 1/4 | 1.83 | 1.30 | 2.32 | 1.40 | .19 |
| PP6VEU6-MG | 3/8 | 3/8 | 1.85 | 1.32 | 2.34 | 1.44 | .25 |



VTEU - Valve Tube Elbow Union

| PART NUMBER | NOM. TUBE O.D. | STEM | A | B | C | D | ØE THRU HOLE MIN. |
|-------------|----------------|------|------|------|------|------|-------------------|
| PP4VTEU6-MG | 1/4 | 3/8 | 1.75 | 1.22 | 2.43 | 1.50 | .17 |
| PP6VTEU6-MG | 3/8 | 3/8 | 1.83 | 1.30 | 2.43 | 1.50 | .25 |



VMC - Valve Male Connector

| PART NUMBER | NOM. TUBE O.D. | NPTF THREAD SIZE | A | B | C | D | ØE THRU HOLE MIN. |
|----------------|----------------|------------------|------|------|-----|-----|-------------------|
| PP4VMC2-MG (+) | 1/4 | 1/8 | 2.22 | 1.21 | 1.4 | 0.5 | .19 |
| PP4VMC4-MG | 1/4 | 1/4 | 2.40 | 1.21 | 1.4 | 0.5 | .19 |
| PP4VMC6-MG | 1/4 | 3/8 | 2.40 | 1.21 | 1.4 | 0.5 | .19 |
| PP4VMC8-MG (+) | 1/4 | 1/2 | 2.59 | 1.21 | 1.4 | 0.5 | .19 |
| PP6VMC2-MG (+) | 3/8 | 1/8 | 2.33 | 1.32 | 1.4 | 0.5 | .25 |
| PP6VMC4-MG | 3/8 | 1/4 | 2.51 | 1.32 | 1.4 | 0.5 | .25 |
| PP6VMC6-MG | 3/8 | 3/8 | 2.51 | 1.32 | 1.4 | 0.5 | .25 |
| PP6VMC8-MG (+) | 3/8 | 1/2 | 2.70 | 1.32 | 1.4 | 0.5 | .25 |

NOTE: PPL refers to Polypropylene. FCB refers to Fluorocarbon.

Cold Water Supply Valve

(Patent No. 6,213,149)

Parker's water supply valve is intended for use with Point Of Use water appliances requiring a cold water supply such as POU faucets, instant hot water faucets, reverse osmosis systems and water filtration systems. The Parker TrueSeal™ Cold Water Supply Valve is designed for temporary cold water shut-off to a POU appliance to change filters, tanks or when servicing the appliance — all while maintaining full water flow to the sink or water basin above. When the POU system is removed from service, the Parker TrueSeal™ Cold Water Supply Valve is to be removed also.

TrueSeal™ Cold Water Supply Valves are for cold water service at temperatures above freezing to 125°F ambient. Not for use in hot water service applications.

Features/Benefits:

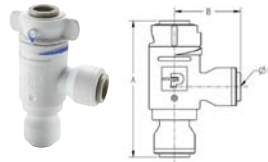
- Fast, easy installation.
- No pierced lines or saddle hookups.
- Optimum flow to the faucet - full flow porting.
- No need to pierce the supply line.
- Connects 3/8" OD tubing directly to valve.
- 1/2" NPT connections available.
- Excellent resistance to chlorine and other chemicals.
- Integrated handle for easy on/off operation.
- Visual indicator shows open/closed position.

Specifications:

- NSF Standard 51 listed.
- Pressure rating: 150 PSI with a 600 PSI burst pressure.
- Design factor: 4:1
- O-ring seal material: EPDM.
- Meets the pressure integrity test of NSF-53 and NSF-58.

Applications:

- Reverse osmosis systems.
- Under sink filtration systems.
- POU faucets.
- Water supply valves are intended for cold water service at temperatures from above freezing to 125°F ambient.
- NOT for use in hot water service applications.



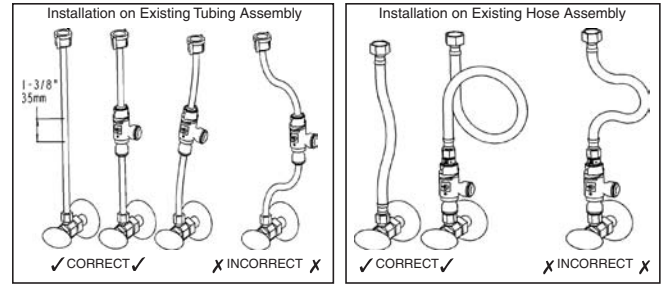
VTU - Water Supply Valve

| WHITE POLYPROPYLENE | NOM. TUBE O.D. | A | B | D THRU HOLE MIN. |
|---------------------|----------------|------|-----|------------------|
| PP6VTU6-MG | 3/8 | 2.92 | 1.3 | .30 |

(+) Non Standard.

NOTE: PPL refers to Polypropylene. FCB refers to Fluorocarbon.

TrueSeal™ Cold Water Supply Valve Assembly Instructions



For Installation with 3/8" Plastic Tubing:

1. Shut off water at the chrome or brass valve.
2. Disconnect existing tube assembly.
3. Cut out a 1-3/8" (35 mm) section near the center of the existing tubing. Cut the tube squarely and remove any burrs.
4. Place an insertion depth mark 3/4" (19 mm) from the end of each cut on the tubing to be reused. Refer to "TrueSeal Assembly Instructions," Steps 2 and 3, for tubing assembly (reverse side).
5. Reconnect tube assembly with new valve.
6. Make sure new valve is closed before opening water valve. Open valve in Step 1 and check for leaks.
7. Insert 3/8" tubing from water appliance into side port.
8. Open new valve by turning pointer to large end of flow indicator.

For Installation with Flexible Hose:

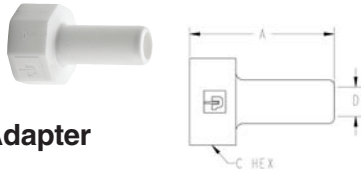
1. Shut off water at the chrome or brass valve.
2. Disconnect one end of existing hose assembly.
3. Place the appropriate adapters on the chrome or brass valve and the hose end.
4. Tighten adapter on chrome or brass valve finger tight plus 1/2 turn. Do not over tighten.
5. Push tube portion of adapters into top and bottom of valve until bottomed out. Hose should not be kinked. A longer hose assembly might be required if a gently loop cannot be made.
6. Make sure new valve is closed before opening water valve. Pointer will be at the small end of triangle flow indicator. Open valve in Step 1 and check for leaks.
7. Insert 3/8" tubing from water appliance into side port.
8. Open new valve by turning pointer to large end of flow indicator.



Water Supply Valve Kits

| PART NO. | CONNECTS TO: | KIT CONTAINS |
|----------|------------------------|--|
| WSV4-KIT | 1/4" COMPRESSION VALVE | AW6TAF7-MG, AW6TFA7-MG, PP6VTU6-MG |
| WSV6-KIT | 3/8" COMPRESSION VALVE | AW6TAF9-MG, AW6TFA9-MG, PP6VTU6-MG |
| WSV8-KIT | 1/2" NPSM FAUCET STEM | AW6TAF8-MG, AW6TFA8-MG, PP6VTU6-MG |

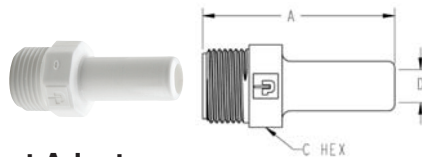




TFA - Tube Faucet Adapter

(Female Thread)

| WHITE ACETAL | TUBE STEM O.D. | THREAD SIZE | A | C HEX | D MIN. |
|--------------|----------------|-------------|------|-------|--------|
| AW6TFA7-MG | 3/8 | 7/16-24 | 1.25 | .69 | .17 |
| AW6TFA8-MG | 3/8 | 1/2-14 NPSM | 1.45 | 1.06 | .22 |
| AW6TFA9-MG | 3/8 | 9/16-24 | 1.25 | .75 | .22 |



TAF - Tube Faucet Adapter

(Male Thread)

| WHITE ACETAL | TUBE STEM O.D. | THREAD SIZE | A | C HEX | D MIN. |
|--------------|----------------|-------------|------|-------|--------|
| AW6TAF7-MG | 3/8 | 7/16-24 | 1.41 | .50 | .22 |
| AW6TAF8-MG | 3/8 | 1/2-14 NPSM | 1.65 | .88 | .22 |
| AW6TAF9-MG | 3/8 | 9/16-24 | 1.45 | .63 | .22 |

SC - Safety Clip

(Patent No. 6,065,779)



| PART NUMBER | PART NUMBER | FOR NOMINAL TUBE O.D. |
|-------------|-------------|-----------------------|
| SC-4 | SC-4-B | 1/4 |
| SC-5 | SC-5-B | 5/16 |
| SC-6 | SC-6-B | 3/8 |
| SC-8 | SC-8-B | 1/2 |

NOTE: PPL refers to Polypropylene. FCB refers to Fluorocarbon.



TS - Tube Supports



| NYLON PART NUMBER | POLYPROPYLENE PART NUMBER |
|-------------------|---------------------------|
| N4TS3 | P4TS3 |
| N5TS3 | P5TS3 |
| N6TS4 | P6TS4 |
| N8TS6 | P8TS6 |

To be used with soft durometer tubing.

AQRT - Quick Release Tool



Makes disconnection of tube adapters and tubing a breeze.



Fast & Tite Thermoplastic Fittings

D

| MATERIALS OF CONSTRUCTION | |
|---------------------------|---|
| BODIES: | WHITE POLYPROPYLENE, BLACK POLYPROPYLENE, WHITE NYLON |
| NUT & SPACERS: | WHITE POLYPROPYLENE, BLACK POLYPROPYLENE, WHITE NYLON |
| GRAB RING: | 302 STAINLESS STEEL |
| O-RING: | NITRILE |

| AIR-OIL-WATER PRESSURE IN PSI | | | |
|-------------------------------|------------|--------------|---------------|
| TUBE O. D., IN. | UP TO 75°F | 76° TO 125°F | 126° TO 175°F |
| 1/4 | 300 | 300 | 300 |
| 5/16 | 300 | 300 | 300 |
| 3/8 | 250 | 250 | 150 |
| 1/2 | 200 | 200 | 150 |
| 5/8 | 150 | 100 | 50 |

| TEMPERATURE RANGE | |
|------------------------------|---------------------------------|
| BLACK / WHITE POLYPROPYLENE: | 0°F (-18°C) TO +212°F (+100°C) |
| WHITE NYLON: | -40°F (-40°C) TO +200°F (+93°C) |

| APPLICABLE TUBE | |
|-----------------|---|
| TUBE MATERIAL: | THERMOPLASTIC TUBING, GLASS, SOFT METAL |
| TUBE O.D.: | 1/4, 5/16, 3/8, 1/2, 5/8 |

| SPECIFICATIONS | |
|------------------|--|
| OPERATING FLUID: | WATER, AIR, OTHER FLUIDS COMPATIBLE WITH MATERIALS OF CONSTRUCTION |
| NOTE: | FOR OTHER TYPES OF FLUIDS OR GASSES, PLEASE CONSULT FACTORY |

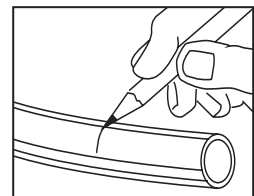
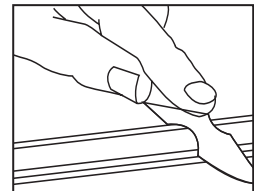
| INSERTION LENGTH | | |
|------------------|--|---|
| TUBE O.D. (IN.) | INSERTION LENGTH WITH TUBE SUPPORT (IN.) | INSERTION LENGTH WITHOUT TUBE SUPPORT (IN.) |
| 1/4 | 5/8 | 9/16 |
| 5/16 | 5/8 | 9/16 |
| 3/8 | 13/16 | 3/4 |
| 1/2 | 7/8 | 13/16 |
| 5/8 | 1 | 15/16 |



A compression style fitting that installs in seconds without tools and provides a tight, sure, leak proof seal without clamps or adjustments. A unique grab ring for tube retention, coupled with a Nitrile O-ring creates a positive seal and assures good tube retention with only hand tight assembly. Fast & Tite™ fittings meet FDA and NSF-51 requirements for food contact.

Assembly Instructions

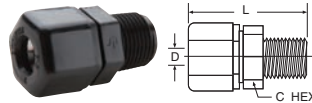
1. Cut the tube squarely and remove any burrs.
2. Mark from end of tube the length of insertion. If using a tube support, insert fully into tube and then mark from end of tube support length of insertion. (See insertion length table left)
3. Loosen nut on fitting until three threads are visible. Fittings for glass tubes must be disassembled and the grab ring removed. If the fitting has been disassembled the components are to be placed in the following order: fitting body, o-ring, spacer, grab ring and nut. Assemble the nut until three threads are showing on the body before inserting tube.
4. Moisten end of the tube with water. Push the tube Straight into fitting until it bottoms on the fitting's shoulder. Tighten nut by hand. Additional tightening should not be necessary, but 1/4 additional turn may be added if desired. Do not overtighten nut as the threads will strip and the fitting will not function properly. A proper assembly will not show the insertion mark extending beyond the nut. If the insertion mark is visible, then steps 1 thru 4 must be repeated.



Note: Provide adequate fail-safe mechanisms such as leakage detection sensors, automatic shut-off controls or other industry and code appropriate fail-safe devices in the design of your water-handling appliance to protect against personal injury and property damage. Plastic fittings containing an o-ring have a finite life depending on the environment, media and severity of the application. Frequent inspections and replacement of the fitting when anomalies are found is recommended.

MC - Male Connector

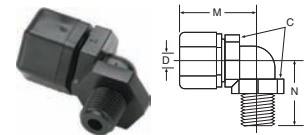
Tube to male pipe



| WHITE PPL PART NUMBER | BLACK PPL PART NUMBER | WHITE NYLON PART NUMBER | NOM TUBE O.D. | NPTF THREAD SIZE | C HEX | L OVERALL LENGTH | D THRU HOLE MIN. |
|-----------------------|-----------------------|-------------------------|---------------|------------------|-------|------------------|------------------|
| W4MC4 | P4MC4 | N4MC4 | 1/4 | 1/4 | 11/16 | 1.51 | .170 |
| W4MC6 (+) | P4MC6 (+) | N4MC6 (+) | 1/4 | 3/8 | 11/16 | .148 | .170 |
| W5MC2 (+) | P5MC2 | N5MC2 | 5/16 | 1/8 | 11/16 | 1.38 | .170 |
| W5MC4 (+) | P5MC4 | N5MC4 | 5/16 | 1/4 | 11/16 | 1.50 | .250 |
| W6MC2 (+) | P6MC2 | N6MC2 | 3/8 | 1/8 | 13/16 | 1.50 | .170 |
| W6MC4 | P6MC4 | N6MC4 | 3/8 | 1/4 | 13/16 | 1.67 | .250 |
| W6MC6 | P6MC6 | N6MC6 | 3/8 | 3/8 | 13/16 | 1.67 | .250 |
| W6MC8 (+) | P6MC8 | N6MC8 | 3/8 | 1/2 | 1 | 1.78 | .250 |
| W6MC12 | P6MC12 | N6MC12 | 3/8 | 3/4 | 1 | 1.84 | .250 |
| W8MC2 (+) | P8MC2 | N8MC2 | 1/2 | 1/8 | 1 | 1.61 | .170 |
| W8MC4 (+) | P8MC4 | N8MC4 | 1/2 | 1/4 | 1 | 1.74 | .250 |
| W8MC6 | P8MC6 | N8MC6 | 1/2 | 3/8 | 1 | 1.74 | .375 |
| W8MC8 | P8MC8 | N8MC8 | 1/2 | 1/2 | 1 | 1.87 | .375 |
| W8MC12 (+) | P8MC12 | N8MC12 | 1/2 | 3/4 | 1 | 1.89 | .375 |
| W10MC2 (+) | P10MC2 | N10MC2 | 5/8 | 1/8 | 1-18 | 1.75 | .170 |
| W10MC4 (+) | P10MC4 | N10MC4 | 5/8 | 1/4 | 1-18 | 1.90 | .250 |
| W10MC6 (+) | P10MC6 | N10MC6 | 5/8 | 3/8 | 1-18 | 1.90 | .375 |
| W10MC8 (+) | P10MC8 | N10MC8 | 5/8 | 1/2 | 1-18 | 2.01 | .500 |
| W10MC12 (+) | P10MC12 | N10MC12 | 5/8 | 3/4 | 1-18 | 2.04 | .500 |

ME - Male Elbow

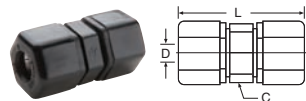
Tube to male pipe



| WHITE PPL PART NUMBER | BLACK PPL PART NUMBER | WHITE NYLON PART NUMBER | NOM TUBE O.D. | NPTF THD SIZE | C HEX | M | N | D THRU HOLE MIN. |
|-----------------------|-----------------------|-------------------------|---------------|---------------|--------|------|------|------------------|
| W4ME2 | P4ME2 | N4ME2 | 1/4 | 1/8 | 3/4 | 1.06 | 0.81 | .170 |
| W4ME4 | P4ME4 | N4ME4 | 1/4 | 1/4 | 3/4 | 1.06 | 1.02 | .170 |
| W4ME6 | P4ME6 | N4ME6 | 1/4 | 3/8 | 3/4 | 1.06 | 1.02 | .170 |
| W5ME2 (+) | P5ME2 | N5ME2 | 5/16 | 1/8 | 3/4 | 1.06 | 0.81 | .193 |
| W5ME4 (+) | P5ME4 | N5ME4 | 5/16 | 1/4 | 3/4 | 1.06 | 1.02 | .193 |
| W5ME6 (+) | P5ME6 | N5ME6 | 5/16 | 3/8 | 3/4 | 1.06 | 1.02 | .193 |
| W6ME4 | P6ME4 | N6ME4 | 3/8 | 1/4 | 7/8 | 1.28 | 1.12 | .250 |
| W6ME6 | P6ME6 | N6ME6 | 3/8 | 3/8 | 7/8 | 1.28 | 1.12 | .250 |
| W6ME8 | P6ME8 | N6ME8 | 3/8 | 1/2 | 1 | 1.28 | 1.34 | .250 |
| W6ME12 (+) | P6ME12 | N6ME12 | 3/8 | 3/4 | 1-3/16 | 1.59 | 1.40 | .250 |
| W8ME4 (+) | P8ME4 | N8ME4 (+) | 1/2 | 1/4 | 1-1/16 | 1.48 | 1.22 | .250 |
| W8ME6 | P8ME6 | N8ME6 | 1/2 | 3/8 | 1-1/16 | 1.56 | 1.21 | .375 |
| W8ME8 | P8ME8 | N8ME8 | 1/2 | 1/2 | 1-1/16 | 1.56 | 1.34 | .375 |
| W8ME12 (+) | P8ME12 (+) | N8ME12 (+) | 1/2 | 3/4 | 1-1/8 | 1.50 | 1.40 | .375 |
| W10ME8 (+) | P10ME8 | N10ME8 | 5/8 | 1/2 | 1-3/16 | 1.72 | 1.40 | .500 |

UC - Union Connector

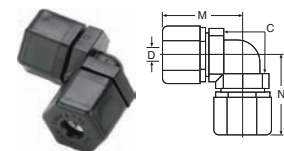
Tube to tube



| WHITE PPL PART NUMBER | BLACK PPL PART NUMBER | WHITE NYLON PART NUMBER | NOM. TUBE O.D. | C HEX | L OVERALL LENGTH | D THRU HOLE MIN. |
|-----------------------|-----------------------|-------------------------|----------------|-------|------------------|------------------|
| W4UC4 | P4UC4 | N4UC4 | 1/4 | 11/16 | 1.62 | .170 |
| W5UC4 (+) | P5UC4 | N5UC4 | 5/16-1/4 | 11/16 | 1.62 | .170 |
| W5UC5 (+) | P5UC5 | N5UC5 | 5/16 | 11/16 | 1.62 | .190 |
| W6UC4 | P6UC4 | N6UC4 | 3/8-1/4 | 13/16 | 1.80 | .170 |
| W6UC5 (+) | P6UC5 | N6UC5 | 3/8-5/16 | 13/16 | 1.80 | .190 |
| W6UC6 | P6UC6 | N6UC6 | 3/8 | 13/16 | 1.92 | .250 |
| W8UC6 | P8UC6 | N8UC6 | 1/2-3/8 | 1 | 1.95 | .250 |
| W8UC8 | P8UC8 | N8UC8 | 1/2 | 1 | 2.03 | .375 |
| W10UC6 (+) | P10UC6 | N10UC6 | 5/8-3/8 | 1-18 | 2.19 | .250 |
| W10UC8 (+) | P10UC8 | N10UC8 | 5/8-1/2 | 1-1/8 | 2.24 | .375 |
| W10UC10 (+) | P10UC10 | N10UC10 | 5/8 | 1-1/8 | 2.40 | .500 |

EU - Elbow Union

Tube to tube



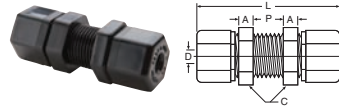
| WHITE PPL PART NUMBER | BLACK PPL PART NUMBER | WHITE NYLON PART NUMBER | NOM. TUBE O.D. | C HEX | M | N | D THRU HOLE MIN. |
|-----------------------|-----------------------|-------------------------|----------------|--------|------|------|------------------|
| W4EU4 | P4EU4 | N4EU4 | 1/4 | 3/4 | 1.06 | 1.06 | .170 |
| W5EU4 (+) | P5EU4 | N5EU4 | 5/16-1/4 | 3/4 | 1.06 | 1.06 | .170 |
| W5EU5 (+) | P5EU5 | N5EU5 | 5/16 | 3/4 | 1.06 | 1.06 | .193 |
| W6EU4 | P6EU4 | N6EU4 | 3/8-1/4 | 7/8 | 1.06 | 1.28 | .170 |
| W6EU5 (+) | P6EU5 | N6EU5 | 3/8-5/16 | 7/8 | 1.06 | 1.28 | .170 |
| W6EU6 | P6EU6 | N6EU6 | 3/8 | 7/8 | 1.28 | 1.28 | .250 |
| W8EU6 | P8EU6 | N8EU6 | 1/2-3/8 | 1-1/16 | 1.37 | 1.56 | .250 |
| W8EU8 | P8EU8 | N8EU8 | 1/2 | 1-1/16 | 1.56 | 1.56 | .375 |
| W10EU10 (+) | P10EU10 | N10EU10 | 5/8 | 1-3/16 | 1.72 | 1.72 | .500 |

NOTE: PPL refers to Polypropylene. FCB refers to Fluorocarbon.



BU - Bulkhead Union

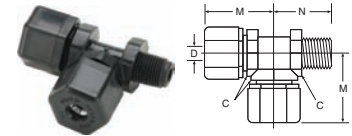
Tube to tube



| WHITE PPL PART NUMBER | BLACK PPL PART NO. | WHITE NYLON PART NO. | NOM TUBE O.D. | A REF. | C HEX | L OVERALL LENGTH | P MAX | D THRU HOLE MIN. | BLKHD HOLE DRILL SIZE |
|-----------------------|--------------------|----------------------|---------------|--------|--------|------------------|-------|------------------|-----------------------|
| W4BU4 | P4BU4 | N4BU4 | 1/4 | 1/4 | 13/16 | 2-11/64 | 3/8 | .170 | 21/32 |
| W5BU5(+) | P5BU5 | N5BU5 | 5/16 | 1/4 | 13/16 | 2-11/64 | 3/8 | .187 | 21/32 |
| W6BU6 | P6BU6 | N6BU6 | 3/8 | 9/32 | 15/16 | 2-39/64 | 1/2 | .250 | 25/32 |
| W8BU8 | P8BU8 | N8BU8 | 1/2 | 5/16 | 1-5/32 | 2-3/4 | 1/2 | .375 | 31/32 |

MR - Male Run Tee

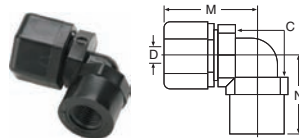
Tube to male pipe



| WHITE PPL PART NUMBER | BLACK PPL PART NUMBER | WHITE NYLON PART NUMBER | NOM TUBE O.D. | NPTF THD SIZE | C HEX | M | N | D THRU HOLE MIN. |
|-----------------------|-----------------------|-------------------------|---------------|---------------|-------|------|------|------------------|
| W4MR2 | P4MR2 | N4MR2 | 1/4 | 1/8 | 11/16 | 1.09 | 0.89 | .170 |
| W6MR4 | P6MR4 | N6MR4 | 3/8 | 1/4 | 13/16 | 1.30 | 1.17 | .250 |
| W8MR6 | P8MR6 | N8MR6 | 1/2 | 3/8 | 1 | 1.46 | 1.28 | .375 |
| W10MR8(+) | P10MR8 | N10MR8 | 5/8 | 1/2 | 1-1/8 | 1.68 | 1.50 | .500 |

FE - Female Elbow

Tube to female pipe



| WHITE PPL PART NUMBER | BLACK PPL PART NUMBER | WHITE NYLON PART NUMBER | NOM TUBE O.D. | NPTF THD SIZE | C HEX | M | N | D THRU HOLE MIN. |
|-----------------------|-----------------------|-------------------------|---------------|---------------|-------|------|------|------------------|
| W4FE2 | P4FE2 | N4FE2 | 1/4 | 1/8 | 11/16 | 1.10 | 0.84 | .170 |
| W4FE4 | P4FE4 | N4FE4 | 1/4 | 1/4 | 11/16 | 1.10 | 0.94 | .170 |
| W5FE2(+) | P5FE2 | N5FE2 | 5/16 | 1/8 | 11/16 | 1.10 | 0.84 | .193 |
| W6FE4 | P6FE4 | N6FE4 | 3/8 | 1/4 | 13/16 | 1.30 | 1.06 | .250 |
| W6FE6 | P6FE6 | N6FE6 | 3/8 | 3/8 | 13/16 | 1.30 | 1.03 | .250 |
| W8FE6(+) | P8FE6 | N8FE6 | 1/2 | 3/8 | 1 | 1.50 | 1.16 | .375 |
| W8FE8 | P8FE8 | N8FE8 | 1/2 | 1/2 | 1 | 1.50 | 1.27 | .375 |
| W10FE8(+) | P10FE8 | N10FE8 | 5/8 | 1/2 | 1-1/8 | 1.70 | 1.34 | .500 |

TU - Tee Union

Tube to tube



| WHITE PPL PART NUMBER | BLACK PPL PART NUMBER | WHITE NYLON PART NUMBER | NOM. TUBE O.D. | C HEX | M | N | D THRU HOLE MIN. |
|-----------------------|-----------------------|-------------------------|----------------|--------|------|------|------------------|
| W4TU4 | P4TU4 | N4TU4 | 1/4 | 11/16 | 1.09 | 1.09 | .170 |
| W5TU5(+) | P5TU5 | N5TU5 | 5/16 | 11/16 | 1.09 | 1.09 | .187 |
| W6TU6 | P6TU6 | N6TU6 | 3/8 | 13/16 | 1.30 | 1.30 | .250 |
| W8TU6(+) | P8TU6 | N8TU6 | 1/2-3/8 | 1 | 1.46 | 1.39 | .250 |
| W8TU8 | P8TU8 | N8TU8 | 1/2 | 1 | 1.46 | 1.46 | .375 |
| W10TU6(+) | P10TU6 | N10TU6 | 5/8-3/8 | 1-1/8 | 1.68 | 1.46 | .250 |
| W10TU10(+) | P10TU10 | N10TU10 | 5/8 | 1-3/16 | 1.68 | 1.68 | .500 |

FC - Female Connector

Tube to female pipe



| WHITE PPL PART NUMBER | BLACK PPL PART NUMBER | WHITE NYLON PART NUMBER | NOM TUBE O.D. | NPTF THREAD SIZE | C HEX | M | N | D THRU HOLE MIN. |
|-----------------------|-----------------------|-------------------------|---------------|------------------|-------|------|------|------------------|
| W4FE2 | P4FE2 | N4FE2 | 1/4 | 1/8 | 11/16 | 1.10 | 0.84 | .170 |
| W4FE4 | P4FE4 | N4FE4 | 1/4 | 1/4 | 11/16 | 1.10 | 0.94 | .170 |
| W5FE2(+) | P5FE2 | N5FE2 | 5/16 | 1/8 | 11/16 | 1.10 | 0.84 | .193 |
| W6FE4 | P6FE4 | N6FE4 | 3/8 | 1/4 | 13/16 | 1.30 | 1.06 | .250 |
| W6FE6 | P6FE6 | N6FE6 | 3/8 | 3/8 | 13/16 | 1.30 | 1.03 | .250 |
| W8FE6(+) | P8FE6 | N8FE6 | 1/2 | 3/8 | 1 | 1.50 | 1.16 | .375 |
| W8FE8 | P8FE8 | N8FE8 | 1/2 | 1/2 | 1 | 1.50 | 1.27 | .375 |
| W10FE8(+) | P10FE8 | N10FE8 | 5/8 | 1/2 | 1-1/8 | 1.70 | 1.34 | .500 |

MT - Male Branch Tee

Tube to male pipe



| WHITE PPL PART NUMBER | BLACK PPL PART NUMBER | WHITE NYLON PART NUMBER | NOM. TUBE O.D. | NPTF THD SIZE | C HEX | M | N | D THRU HOLE MIN. |
|-----------------------|-----------------------|-------------------------|----------------|---------------|-------|------|------|------------------|
| W4MT2 | P4MT2 | N4MT2 | 1/4 | 1/8 | 11/16 | 1.09 | 0.89 | .170 |
| W4MT4 | P4MT4 | N4MT4 | 1/4 | 1/4 | 11/16 | 1.09 | 1.06 | .170 |
| W5MT2(+) | P5MT2 | N5MT2 | 5/16 | 1/8 | 11/16 | 1.09 | 0.89 | .170 |
| W5MT4(+) | P5MT4 | N5MT4 | 5/16 | 1/4 | 11/16 | 1.09 | 1.06 | .187 |
| W6MT4 | P6MT4 | N6MT4 | 3/8 | 1/4 | 13/16 | 1.30 | 1.12 | .250 |
| W6MT6 | P6MT6 | N6MT6 | 3/8 | 3/8 | 13/16 | 1.30 | 1.10 | .250 |
| W8MT6 | P8MT6 | N8MT6 | 1/2 | 3/8 | 1 | 1.46 | 1.22 | .375 |
| W8MT8 | P8MT8 | N8MT8 | 1/2 | 1/2 | 1 | 1.46 | 1.43 | .375 |
| W10MT8(+) | P10MT8 | N10MT8 | 5/8 | 1/2 | 1-1/8 | 1.68 | 1.41 | .500 |

NOTE: PPL refers to Polypropylene. FCB refers to Fluorocarbon.



GR - Grab Ring

(Stainless or Plastic)



| STAINLESS GRAB RING PART NUMBER | PLASTIC GRAB RING PART NUMBER | FOR NOM. TUBE O. D. |
|---------------------------------|-------------------------------|---------------------|
| 4GR | 4GRP | 1/4 |
| 5GR | 5GRP | 5/16 |
| 6GR | 6GRP | 3/8 |
| 8GR | 8GRP | 1/2 |
| 10GR | 10GRP | 5/8 |

D

NS - Nut and Spacer Sets



| WHITE POLYPROPYLENE PART NUMBER | BLACK POLYPROPYLENE PART NUMBER | WHITE NYLON PARTNUMBER | FOR NOM. TUBE O. D. |
|---------------------------------|---------------------------------|------------------------|---------------------|
| W4NS | P4NS | N4NS | 1/4 |
| W5NS | P5NS | N5NS | 5/16 |
| W6NS | P6NS | N6NS | 3/8 |
| W8NS | P8NS | N8NS | 1/2 |
| W10NS | P10NS | N10NS | 5/8 |

TS - Tube Support



| POLYPROPYLENE PART NUMBER | NYLON PART NUMBER | FOR TUBE PART NUMBER |
|---------------------------|-------------------|----------------------|
| P4TS3 | N4TS3 | PV43 |
| P5TS3 | N5TS3 | PV53 |
| P6TS4 | N6TS3 | PV64 |
| P8TS6 | N8TS6 | PV86 |
| P10TS8 | N10TS8 | PV108 |

OR - O-Ring



| O-RING PART NUMBER | FOR NOM. TUBE O. D. |
|--------------------|---------------------|
| 4OR | 1/4 |
| 5OR | 5/16 |
| 6OR | 3/8 |
| 8OR | 1/2 |
| 10OR | 5/8 |

NOTE: PPL refers to Polypropylene. FCB refers to Fluorocarbon.



Par-Barb® Thermoplastic Fittings

| MATERIALS OF CONSTRUCTION | |
|---------------------------|--|
| BODIES: | BLACK HIGH DENSITY POLYETHYLENE, WHITE NYLON |

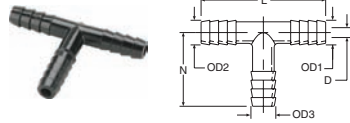
| NOMENCLATURE | |
|-----------------|---|
| EXAMPLE: P4TUB2 | ATTRIBUTE: |
| P | POLYETHYLENE |
| 4 | I. D. OF TUBING ON STEM IN SIXTEENTHS OF AN IN. |
| TU | STYLE TEE UNION (TU) |
| B | BARB |
| 2 | I. D. OF TUBING ON STEM IN SIXTEENTHS OF AN IN. |

| SPECIFICATIONS | |
|-------------------|---|
| PRESSURE RANGE | UP TO 125 PSI. |
| TEMPERATURE RANGE | BLACK POLYETHYLENE: -65°F (-54°C) TO +190°F (+88°C.) WHITE NYLON: -40°F (-40°C) TO +200°F (+93°C.) |
| TUBE MATERIAL: | VINYL, POLYURETHANE, RUBBER HOSE |
| TUBE I.D.: | 1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4 |
| OPERATING FLUID: | AIR, WATER, OTHER FLUIDS COMPATIBLE WITH MATERIALS OF CONSTRUCTION |
| NOTE: | FOR OTHER TYPES OF FLUIDS OR GASSES, PLEASE CONSULT FACTORY |



Par-Barb® fittings are injection molded from high strength, chemically inert, thermoplastic materials. These fittings meet FDA and NSF-51 specifications for food contact. The four barb design generates the maximum gripping and sealing power when combined with a hose clamp.

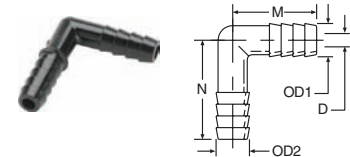
D



TUB - Tee Union

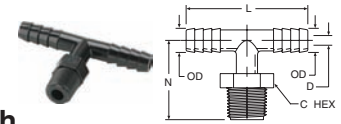
| BLACK HIGH DENSITY LINEAR POLYETHYLENE PART NUMBER | WHITE NYLON PART NUMBER | TUBE OR HOSE I.D. | | O.D. 1&2 | O.D. 3 | L | N | D FLOW DIA. |
|--|-------------------------|-------------------|------|----------|--------|-------|-------|-------------|
| | | 1&2 | 3 | | | | | |
| P2TUB2 | N2TUB2 | 1/8 | 1/8 | .141 | .141 | 1.203 | 0.594 | .078 |
| P3TUB3 | N3TUB3 | 3/16 | 3/16 | .245 | .245 | 1.941 | 1.256 | .106 |
| P4TUB3 (+) | N4TUB3 | 1/4 | 3/16 | .308 | .245 | 2.004 | 1.256 | .106 |
| P4TUB4 | N4TUB4 | 1/4 | 1/4 | .308 | .308 | 2.004 | 1.256 | .153 |
| P5TUB5 | N5TUB5 | 5/16 | 5/16 | .361 | .361 | 2.058 | 1.256 | .215 |
| P6TUB3 (+) | N6TUB3 (+) | 3/8 | 3/16 | .425 | .245 | 1.941 | 1.256 | .106 |
| P6TUB4 | N6TUB4 | 3/8 | 1/4 | .425 | .308 | 2.121 | 1.256 | .153 |
| P6TUB6 | N6TUB6 | 3/8 | 3/8 | .425 | .425 | 2.134 | 1.256 | .247 |
| P6TUB8 | N6TUB8 | 3/8 | 1/2 | .425 | .550 | 2.121 | 1.256 | .247 |
| P8TUB4 (+) | N8TUB4 (+) | 1/2 | 1/4 | .550 | .308 | 2.246 | 1.256 | .153 |
| P8TUB6 | N8TUB6 | 1/2 | 3/8 | .550 | .425 | 2.248 | 1.256 | .247 |
| P8TUB8 | N8TUB8 | 1/2 | 1/2 | .550 | .550 | 2.248 | 1.256 | .372 |
| P10TUB8 | N10TUB8 | 5/8 | 1/2 | .644 | .550 | 2.340 | 1.256 | .372 |
| P10TUB10 | N10TUB10 | 5/8 | 5/8 | .644 | .644 | 2.340 | 1.256 | .465 |

*P2UCB2, P2TUB2, P12HPN6 are not FDA compliant.



EUB - Elbow Union

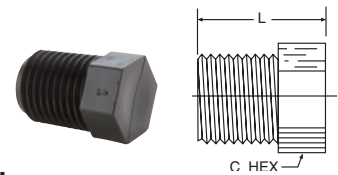
| BLACK HIGH DENSITY LINEAR POLYETHYLENE PART NUMBER | WHITE NYLON PART NUMBER | TUBE OR HOSE I.D. | | O.D. 1 | O.D. 2 | M | N | D FLOW DIA. |
|--|-------------------------|-------------------|-----|--------|--------|-------|-------|-------------|
| | | 1 | 2 | | | | | |
| P4EUB4 | N4EUB4 | 1/4 | 1/4 | .308 | .308 | 1.002 | 1.256 | .153 |
| P6EUB6 | N6EUB6 | 3/8 | 3/8 | .425 | .425 | 1.060 | 1.256 | .247 |
| P8EUB4 | N8EUB4 | 1/2 | 1/4 | .550 | .308 | 1.002 | 1.256 | .153 |
| P8EUB6 | N8EUB6 | 1/2 | 3/8 | .550 | .425 | 1.060 | 1.256 | .247 |
| P8EUB8 | N8EUB8 | 1/2 | 1/2 | .550 | .550 | 1.123 | 1.256 | .372 |
| P10EUB10 | N10EUB10 | 5/8 | 5/8 | .644 | .644 | 1.170 | 1.256 | .465 |
| P12EUB12 | N12EUB12 | 3/4 | 3/4 | .788 | .788 | 1.242 | 1.256 | .606 |



MTB - Tee Male Branch

| BLACK HIGH DENSITY LINEAR PEL PART NUMBER | WHITE NYLON PART NUMBER | TUBE OR HOSE I.D. | NPTF PIPE THD SIZE | O.D. | C HEX | L | N | D FLOW DIA. |
|---|-------------------------|-------------------|--------------------|------|-------|-------|-------|-------------|
| P3MTB2 | N3MTB2 | 3/16 | 1/8 | .245 | 7/16 | 1.941 | 1.187 | .106 |
| P3MTB4 | N3MTB4 | 3/16 | 1/4 | .245 | 9/16 | 1.941 | 1.406 | .106 |
| P4MTB2 | N4MTB2 | 1/4 | 1/8 | .308 | 7/16 | 2.004 | 1.187 | .153 |
| P4MTB4 | N4MTB4 | 1/4 | 1/4 | .308 | 9/16 | 2.004 | 1.406 | .153 |
| P4MTB6 | N4MTB6 | 1/4 | 3/8 | .308 | 11/16 | 2.004 | 1.436 | .153 |
| P6MTB4 | N6MTB4 | 3/8 | 1/4 | .425 | 9/16 | 2.121 | 1.406 | .247 |
| P6MTB6 | N6MTB6 | 3/8 | 3/8 | .425 | 11/16 | 2.121 | 1.436 | .247 |
| P6MTB8 | N6MTB8 | 3/8 | 1/2 | .425 | 7/8 | 2.121 | 1.626 | .247 |
| P8MTB4 | N8MTB4 | 1/2 | 1/4 | .550 | 9/16 | 2.246 | 1.406 | .281 |
| P8MTB6 | N8MTB6 | 1/2 | 3/8 | .550 | 11/16 | 2.246 | 1.436 | .372 |
| P8MTB8 | N8MTB8 | 1/2 | 1/2 | .550 | 7/8 | 2.246 | 1.626 | .372 |
| P12MTB12 | N12MTB12 (+) | 3/4 | 3/4 | .788 | 1-1/8 | 2.484 | 1.636 | .606 |

*PEL refers to Polyethylene

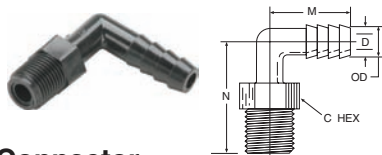


HPL - Hex Head Pipe Plug

| BLACK HIGH DENSITY LINEAR POLYETHYLENE PART NUMBER | WHITE NYLON PART NUMBER | NPTF PIPE THREAD SIZE | C HEX | L OVERALL LENGTH |
|--|-------------------------|-----------------------|-------|------------------|
| P2HPL | N2HPL | 1/8 | 7/16 | 0.660 |
| P4HPL | N4HPL | 1/4 | 9/16 | 0.880 |
| P6HPL | N6HPL | 3/8 | 11/16 | 0.905 |
| P8HPL | N8HPL | 1/2 | 7/8 | 1.092 |
| P12HPL | N12HPL | 3/4 | 1-1/8 | 1.115 |

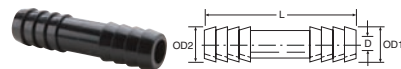
NOTE: PPL refers to Polypropylene. FCB refers to Fluorocarbon.





MEB - Male Elbow Connector

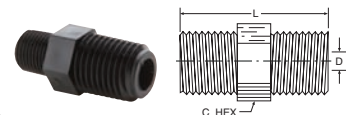
| BLACK HIGH DENSITY LINEAR POLYETHYLENE PART NUMBER | WHITE NYLON PART NUMBER | TUBE OR HOSE I.D. | NPTF PIPE THD SIZE | O.D. | C HEX | M | N | D FLOW DIA. |
|--|-------------------------|-------------------|--------------------|------|-------|-------|-------|-------------|
| P3MEB2 | N3MEB2 | 3/16 | 1/8 | .245 | 7/16 | 1.971 | 1.186 | .106 |
| P3MEB4 | N3MEB4 | 3/16 | 1/4 | .245 | 9/16 | 1.971 | 1.406 | .106 |
| P4MEB2 | N4MEB2 | 1/4 | 1/8 | .308 | 7/16 | 1.002 | 1.186 | .153 |
| P4MEB4 | N4MEB4 | 1/4 | 1/4 | .308 | 9/16 | 1.002 | 1.406 | .153 |
| P4MEB6 | N4MEB6 | 1/4 | 3/8 | .308 | 11/16 | 1.002 | 1.436 | .153 |
| P4MEB8 | N4MEB8 | 1/4 | 1/2 | .308 | 7/8 | 1.002 | 1.626 | .153 |
| P4MEB12 | N4MEB12 | 1/4 | 3/4 | .308 | 1-1/8 | 1.002 | 1.636 | .153 |
| P6MEB2 | N6MEB2 | 3/8 | 1/8 | .425 | 7/16 | 1.060 | 1.186 | .247 |
| P6MEB4 | N6MEB4 | 3/8 | 1/4 | .425 | 9/16 | 1.060 | 1.406 | .247 |
| P6MEB6 | N6MEB6 | 3/8 | 3/8 | .425 | 11/16 | 1.060 | 1.436 | .247 |
| P6MEB8 | N6MEB8 | 3/8 | 1/2 | .425 | 7/8 | 1.060 | 1.626 | .247 |
| P6MEB12 | N6MEB12 | 3/8 | 3/4 | .425 | 1-1/8 | 1.060 | 1.636 | .247 |
| P8MEB4 | N8MEB4 | 1/2 | 1/4 | .550 | 9/16 | 1.123 | 1.406 | .372 |
| P8MEB6 | N8MEB6 | 1/2 | 3/8 | .550 | 11/16 | 1.123 | 1.436 | .372 |
| P8MEB8 | N8MEB8 | 1/2 | 1/2 | .550 | 7/8 | 1.123 | 1.626 | .372 |
| P8MEB12 | N8MEB12 | 1/2 | 3/4 | .550 | 1-1/8 | 1.123 | 1.636 | .372 |
| P10MEB6 | N10MEB6 | 5/8 | 3/8 | .644 | 11/16 | 1.170 | 1.436 | .465 |
| P10MEB8 | N10MEB8 | 5/8 | 1/2 | .644 | 7/8 | 1.170 | 1.626 | .465 |
| P10MEB12 | N10MEB12 | 5/8 | 3/4 | .644 | 1-1/8 | 1.170 | 1.636 | .465 |
| P12MEB8 | N12MEB8 | 3/4 | 1/2 | .788 | 7/8 | 1.242 | 1.626 | .606 |



UCB - Union Connector

| BLACK HIGH DENSITY LINEAR POLYETHYLENE PART NUMBER | WHITE NYLON PART NUMBER | TUBE OR HOSE I.D. 1&2 | TUBE OR HOSE I.D. 3 | O.D. 1&2 | O.D. 3 | L | D FLOW DIA. |
|--|-------------------------|-----------------------|---------------------|----------|--------|-------|-------------|
| P2UCB2 | N2UCB2 | 1/8 | 1/8 | .152 | .152 | .625 | .090 |
| P3UCB3 | N3UCB3 | 3/16 | 3/16 | .245 | .245 | 1.750 | .106 |
| P4UCB3 | N4UCB3 | 1/4 | 3/16 | .308 | .245 | 1.750 | .106 |
| P4UCB4 | N4UCB4 | 1/4 | 1/4 | .308 | .308 | 1.750 | .153 |
| P5UCB5 | N5UCB5 | 5/16 | 5/16 | .361 | .361 | 1.750 | .215 |
| P6UCB4 | N6UCB4 | 3/8 | 1/4 | .425 | .308 | 1.750 | .153 |
| P6UCB6 | N6UCB6 | 3/8 | 3/8 | .425 | .425 | 1.733 | .247 |
| P8UCB4 | N8UCB4 | 1/2 | 1/4 | .550 | .308 | 1.750 | .153 |
| P8UCB6 | N8UCB6 | 1/2 | 3/8 | .550 | .425 | 1.750 | .247 |
| P8UCB8 | N8UCB8 | 1/2 | 1/2 | .550 | .550 | 1.750 | .372 |
| P10UCB6 | N10UCB6 | 5/8 | 3/8 | .644 | .425 | 1.750 | .247 |
| P10UCB8 | N10UCB8 | 5/8 | 1/2 | .644 | .550 | 1.750 | .372 |
| P10UCB10 | N10UCB10 | 5/8 | 5/8 | .644 | .644 | 1.750 | .465 |

*P2UCB2, P2TUB2, P12HPN6 are not FDA compliant.



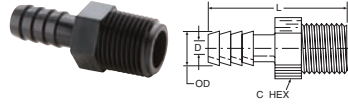
HPN - Hex Pipe Nipple

| BLACK HIGH DENSITY LINEAR POLYETHYLENE PART NUMBER | WHITE NYLON PART NUMBER | SIDE 1 | SIDE 2 | C HEX | L | D1 DIA. | D2 DIA. |
|--|-------------------------|--------|--------|-------|-------|---------|---------|
| P2HPN2 | N2HPN2 | 1/8 | 1/8 | 7/16 | 1.062 | .187 | .187 |
| P4HPN2 | N4HPN2 | 1/4 | 1/8 | 9/16 | 1.281 | .286 | .187 |
| P4HPN4 | N4HPN4 | 1/4 | 1/4 | 9/16 | 1.469 | .285 | .285 |
| P6HPN2 | N6HPN2 | 3/8 | 1/8 | 11/16 | 1.332 | .406 | .187 |
| P6HPN4 | N6HPN4 | 3/8 | 1/4 | 11/16 | 1.488 | .406 | .285 |
| P6HPN6 | N6HPN6 | 3/8 | 3/8 | 11/16 | 1.500 | .406 | .406 |
| P8HPN2 | N8HPN2 | 1/2 | 1/8 | 7/8 | 1.485 | .618 | .187 |
| P8HPN4 | N8HPN4 | 1/2 | 1/4 | 7/8 | 1.687 | .618 | .285 |
| P8HPN6 | N8HPN6 | 1/2 | 3/8 | 7/8 | 1.687 | .618 | .406 |
| P8HPN8 | N8HPN8 | 1/2 | 1/2 | 7/8 | 1.875 | .618 | .618 |
| P12HPN6 | N12HPN6 | 3/4 | 3/8 | 1-1/8 | 1.703 | .750 | .408 |
| P12HPN8 | N12HPN8 | 3/4 | 1/2 | 1-1/8 | 1.891 | .750 | .618 |
| P10HPN12 | N10HPN12 | 3/4 | 3/4 | 1-1/8 | 1.932 | .750 | .750 |

*P2UCB2, P2TUB2, P12HPN6 are not FDA compliant.

NOTE: PPL refers to Polypropylene. FCB refers to Fluorocarbon.





MCB - Male Connector Adapter

| BLACK HIGH DENSITY LINEAR POLYETHYLENE PART NUMBER | WHITE NYLON PART NUMBER | TUBE OR HOSE I.D. | NPTF PIPE THD SIZE | O.D. | C HEX | L | D FLOW DIA. |
|--|-------------------------|-------------------|--------------------|------|-------|-------|-------------|
| P3MCB2 | N3MCB2 | 3/16 | 1/8 | .245 | 7/16 | 1.530 | .106 |
| P3MCB4 | N3MCB4 | 3/16 | 1/4 | .245 | 9/16 | 1.750 | .106 |
| P3MCB8 | N3MCB8 | 3/16 | 1/2 | .245 | 7/8 | 1.970 | .106 |
| P4MCB2 | N4MCB2 | 1/4 | 1/8 | .308 | 7/16 | 1.530 | .153 |
| P4MCB4 | N4MCB4 | 1/4 | 1/4 | .308 | 9/16 | 1.750 | .153 |
| P4MCB6 | N4MCB6 | 1/4 | 3/8 | .308 | 11/16 | 1.780 | .153 |
| P4MCB8 | N4MCB8 | 1/4 | 1/2 | .308 | 7/8 | 1.970 | .153 |
| P4MCB12 | N4MCB12 | 1/4 | 3/4 | .308 | 1-1/8 | 1.980 | .153 |
| P5MCB2 | N5MCB2 | 5/16 | 1/8 | .361 | 7/16 | 1.530 | .215 |
| P5MCB4 | N5MCB4 | 5/16 | 1/4 | .361 | 9/16 | 1.750 | .215 |
| P5MCB6 | N5MCB6 | 5/16 | 3/8 | .361 | 11/16 | 1.780 | .215 |
| P6MCB2 | N6MCB2 | 3/8 | 1/8 | .425 | 7/16 | 1.530 | .187 |
| P6MCB4 | N6MCB4 | 3/8 | 1/4 | .425 | 9/16 | 1.750 | .247 |
| P6MCB6 | N6MCB6 | 3/8 | 3/8 | .425 | 11/16 | 1.780 | .247 |
| P6MCB8 | N6MCB8 | 3/8 | 1/2 | .425 | 7/8 | 1.970 | .247 |
| P6MCB12 | N6MCB12 | 3/8 | 3/4 | .425 | 1-1/8 | 1.980 | .247 |
| P8MCB4 | N8MCB4 | 1/2 | 1/4 | .550 | 9/16 | 1.750 | .372 |
| P8MCB6 | N8MCB6 | 1/2 | 3/8 | .550 | 11/16 | 1.780 | .372 |
| P8MCB8 | N8MCB8 | 1/2 | 1/2 | .550 | 7/8 | 1.970 | .372 |
| P8MCB12 | N8MCB12 | 1/2 | 3/4 | .550 | 1-1/8 | 1.980 | .372 |
| P10MCB6 | N10MCB6 | 5/8 | 3/8 | .644 | 11/16 | 1.780 | .465 |
| P10MCB8 | N10MCB8 | 5/8 | 1/2 | .644 | 7/8 | 1.970 | .465 |
| P10MCB12 | N10MCB12 | 5/8 | 3/4 | .644 | 1-1/8 | 1.980 | .465 |
| P12MCB8 | N12MCB8 | 3/4 | 1/2 | .788 | 7/8 | 1.970 | .606 |
| P12MCB12 | N12MCB12 | 3/4 | 3/4 | .788 | 1-1/8 | 1.980 | .606 |

D

NOTE: PPL refers to Polypropylene. FCB refers to Fluorocarbon.

