



# Pneumatic: Push-to-Connect



## **Prestolok Metal**

*Swivels on Shaped Male Threads  
Pre-applied Sealant  
Inch & Metric Sizes  
Metal Bodies*



## **Prestolok Composite**

*Swivels on Shaped Male Threads  
Pre-applied Sealant  
Inch & Metric Sizes  
Composite Bodies*



## **Prestolok PLM**

*Materials conform to FDA  
Electroless Nickel Plated  
Inch & Metric Sizes  
Silicone Free*



## **Prestolok PLS**

*316L Stainless Body  
303L Stainless Collet  
Materials Conform to FDA  
Silicone Free*



## **Oscillating Elbows**

*Low Friction Washers  
Pre-applied Sealant  
Inch & Metric Sizes  
Stainless Steel Grab Ring*



|                                                                                                                                         |                                                                                                                                             |                                                                                                                                     |                                                                                                                                       |                                                                                                                                          |                                                                                                                                           |                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Tube to Male NPTF                                                                                                                       | <b>68PLPR</b><br>Male Connector<br>Round Body<br><br>p. A7 | <b>W169PLP</b><br>Male Elbow Swivel<br><br>p. A10  | <b>W169PLPNS</b><br>Male Elbow<br><br>p. A11         | <b>W171PLP</b><br>Male Run Tee Swivel<br><br>p. A12    | <b>W172PLP</b><br>Male Branch Tee Swivel<br><br>p. A13 | <b>W68PLP</b><br>Male Connector<br><br>p. A6        |
|                                                                                                                                         | <b>W68LF</b><br>Male Connector<br><br>p. A6                | Tube to Tube                                                                                                                        | <b>164PLP</b><br>Union Tee<br><br>p. A9              | <b>165PLP</b><br>Union Elbow<br><br>p. A10              | <b>62PLP</b><br>Union<br><br>p. A5                      | Tube to Female NPTF                                                                                                                    |
| Bulkhead Unions                                                                                                                         | <b>62PLPBH</b><br>Bulkhead Union<br><br>p. A5              |                                                                                                                                     | <b>66PLPBH</b><br>Female Bulkhead Union<br><br>p. A5 | Tube to Straight Thread                                                                                                                  | <b>68PLP</b><br>Male Connector<br><br>p. A6             |                                                                                                                                        |
|                                                                                                                                         | Tube to Male BSPT<br><br>p. A7                            | Tube to Male BSPP<br><br>p. A7                    | Metric Tube to Male BSPT<br><br>p. A12            |                                                                                                                                          | <b>C3PB</b><br>Male Elbow Swivel<br><br>p. A12        | <b>C63LPB</b><br>Extended Male Elbow<br><br>p. A12 |
| <b>C63PB</b><br>Male Elbow Swivel<br><br>p. A11      | <b>F23PB</b><br>Male Connector<br><br>p. A8              | <b>F3PB</b><br>Male Connector<br><br>p. A8       | <b>R63PB</b><br>Male Run Tee Swivel<br><br>p. A12  | <b>S63PB</b><br>Male Branch Tee Swivel<br><br>p. A13 | <b>W68LF</b><br>Male Connector<br><br>p. A8          |                                                                                                                                        |
| Metric Tube to Male BSPP                                                                                                                | <b>C64PB</b><br>Male Elbow Swivel<br><br>p. A11          | <b>C64SPB</b><br>Male Elbow Swivel<br><br>p. A11 | <b>F4PB</b><br>Male Connector<br><br>p. A9         | <b>R64PB</b><br>Male Run Tee Swivel<br><br>p. A13    | <b>S64PB</b><br>Male Branch Tee Swivel<br><br>p. A13 | <b>68LF</b><br>Male Connector<br><br>p. A9        |
|                                                                                                                                         | <b>G4PB</b><br>Female Connector<br><br>p. A6             | Metric Tube to Metric Straight Thread                                                                                               | <b>C68PB</b><br>Male Elbow Swivel<br><br>p. A11    | <b>C68SPB</b><br>Male Elbow Swivel<br><br>p. A12      | <b>F8PB</b><br>Male Connector<br><br>p. A8            | <b>F28PB</b><br>Male Connector<br><br>p. A9       |
| <b>S68PB</b><br>Male Branch Tee Swivel<br><br>p. A14 | <b>68LFR</b><br>Male Connector<br><br>p. A7              |                                                                                                                                     | Metric Tube to Metric Tube                                                                                                            | <b>EPB</b><br>Union Elbow<br><br>p. A10               | <b>HPB</b><br>Union<br><br>p. A5                      | <b>JPB</b><br>Union Tee<br><br>p. A10             |

|                                                                                                                                      |                                                                                                                                        |                                                                                                                            |                                                                                                                                          |                                                                                                                              |                                                                                                                                    |                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Metric Tube to Male NPTF                                                                                                             | <b>C6PB</b><br>Male Elbow<br><br>p. A11               | <b>FPB</b><br>Male Connector<br><br>p. A7 | <b>W68LF</b><br>Male Connector<br><br>p. A8             | Metric Bulkhead Unions                                                                                                       | <b>WBMPB</b><br>Bulkhead Union<br><br>p. A5     | <b>WE6PB</b><br>Bulkhead Elbow<br><br>p. A10     |
|                                                                                                                                      | <b>WG4PB</b><br>Female Bulkhead<br><br>p. A5          | Metric Banjo Fittings                                                                                                      | <b>COR8PB/<br/>COR4PB</b><br>Single Banjo<br><br>p. A14 |                                                                                                                              | <b>CORPB</b><br>Single Banjo Body<br><br>p. A14 | <b>CORPBD</b><br>Double Banjo body<br><br>p. A14 |
| <b>SC8U/SC4U</b><br>Single Banjo Bolt<br><br>p. A14 | <b>SC8UD/SC4UD</b><br>Double Banjo Bolt<br><br>p. A14 |                                                                                                                            | <b>FNPB</b><br>Plug<br><br>p. A15                       | <b>TEPB</b><br>Tube Expander<br><br>p. A15 | <b>TRPB</b><br>Tube Reducer<br><br>p. A15       |                                                                                                                                     |
|                                                                                                                                      |                                                                                                                                        | Metric Auxiliary Components                                                                                                |                                                                                                                                          |                                                                                                                              |                                                                                                                                    |                                                                                                                                     |
|                                                                                                                                      |                                                                                                                                        |                                                                                                                            |                                                                                                                                          |                                                                                                                              |                                                                                                                                    |                                                                                                                                     |
|                                                                                                                                      |                                                                                                                                        |                                                                                                                            |                                                                                                                                          |                                                                                                                              |                                                                                                                                    |                                                                                                                                     |
|                                                                                                                                      |                                                                                                                                        |                                                                                                                            |                                                                                                                                          |                                                                                                                              |                                                                                                                                    |                                                                                                                                     |
|                                                                                                                                      |                                                                                                                                        |                                                                                                                            |                                                                                                                                          |                                                                                                                              |                                                                                                                                    |                                                                                                                                     |



# Prestolok Metal Fittings

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| MATERIALS OF CONSTRUCTION |                                                |
|---------------------------|------------------------------------------------|
| NICKEL PLATED BODIES:     | NICKEL PLATED BRASS                            |
| O-RING:                   | NITRILE (OTHER COMPOUNDS AVAILABLE ON REQUEST) |
| RELEASE BUTTON:           | POLYACETAL                                     |
| GRAB RING:                | STAINLESS STEEL                                |
| NOTE:                     | FOR BRASS BODY PRESTOLOK REPLACE PLP WITH PLN  |

| NOMENCLATURE        |                              |
|---------------------|------------------------------|
| EXAMPLE: W68PLP-4-2 | ATTRIBUTE:                   |
| W                   | WHITE ARCYLIC THREAD SEALANT |
| 68                  | MALE CONNECTOR               |
| PLP                 | PRESTOLOK                    |
| 4                   | 1/4" (4/16) TUBE O.D.        |
| 2                   | 1/8" (2/16) PIPE THREAD      |

| SPECIFICATIONS     |                                                                             |
|--------------------|-----------------------------------------------------------------------------|
| PRESSURE RANGE:    | UP TO 300 PSI DEPENDING ON TUBING                                           |
| TEMPERATURE RANGE: | 0° TO +200°F                                                                |
| NOTE:              | VACUUM APPLICATIONS ARE DEPENDENT UPON TEMPERATURE AND TYPE OF TUBING USED. |

| TUBING SIZES    |                                      |
|-----------------|--------------------------------------|
| TUBE O.D.:      | 1/8, 3/16, 5/32, 1/4, 5/16, 3/8, 1/2 |
| TUBE O.D. (MM): | 4,6,8,10,12,14                       |



A compact one-piece push-to-connect fitting. Designed for low pressure circuits where assembly, disassembly and reassembly is important. Stainless steel grab ring grips the tubing to provide retention. Swivels are featured on all male pipe threaded shapes for installation in tight places and for precise positioning. Prestolok should not be used for live swivel applications. Prestolok fittings come with a pre-applied white acrylic sealant.

## Recommended Tubing

Prestolok nickel plated and composite fittings are designed to be used with the following Parker Hannifin Parflex Division tubing.

| TUBING SERIES | TUBING MATERIAL                       |
|---------------|---------------------------------------|
| E             | LINEAR LOW DENSITY POLYETHYLENE       |
| PP            | POLYPROPYLENE                         |
| N             | PLASTICIZED POLYAMIDE (NYLON)         |
| NR            | UNPLASTICIZED POLYAMIDE (RIGID NYLON) |
| U             | POLYURETHANE 90 DUROMETER SHORE A     |
| HU            | POLYURETHANE 95 DUROMETER SHORE A     |

Other materials for Prestolok inch sized nickel plated fittings: Polyurethane 85 Durometer Shore A

**CAUTION:** All current manufacturers of 85A PU tubing do not approve the use of push-to-connect fittings with their product.

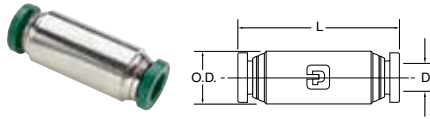
Testing has shown acceptable use with certain O.D – I.D. combinations. Applications and service conditions vary and therefore the use of a tube support may be required for any 85A PU tubing.

The following commercially available O.D. – I.D. 85A tubing sizes require the use of a tube support regardless of application.

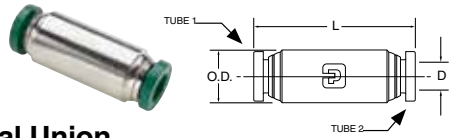
|               |              |              |              |
|---------------|--------------|--------------|--------------|
| 5/32" – 3/32" | 3/16" – 1/8" | 1/4" - .170" | 1/4" – 3/16" |
| 5/16" – 1/4"  | 3/8" – 5/16" | 1/2" – 3/8"  |              |

## Assembly Instructions

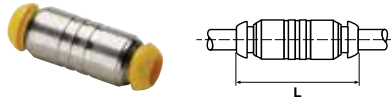
1. Cut thermoplastic tubing squarely, using Parker Tube Cutter PTC-001. Be certain the port or mating part is clean and free of debris.
2. Insert tubing into fitting until it bottoms. A slight twisting motion will ease the insertion. Pull on tubing to verify it is properly retained in the fitting.
3. To disassemble, simply push the release button against the body and remove tubing.
4. It is recommended to trim the tubing after every disassembly to insure a proper seal.

**62PLP Union**

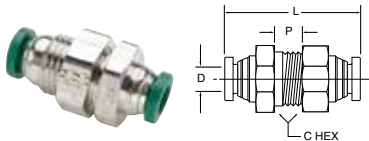
| PART NO.   | TUBE SIZE | O.D. | L    | FLOW DIA. D |
|------------|-----------|------|------|-------------|
| 62PLP-2    | 1/8       | .375 | 1.40 | .094        |
| 62PLP-3    | 3/16      | .437 | 1.41 | .156        |
| 62PLP-5/32 | 5/32      | .375 | 1.41 | .125        |
| 62PLP-4    | 1/4       | .500 | 1.43 | .188        |
| 62PLP-5    | 5/16      | .562 | 1.65 | .250        |
| 62PLP-6    | 3/8       | .625 | 1.66 | .312        |
| 62PLP-8    | 1/2       | .750 | 1.82 | .375        |

**62PLP Unequal Union**

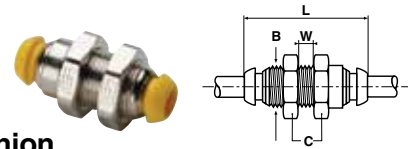
| PART NO.     | TUBE 1 SIZE (IN) | TUBE 2 SIZE (IN) | O.D. | L    | FLOW DIA. D |
|--------------|------------------|------------------|------|------|-------------|
| 62PLP-5/32-2 | 5/32             | 1/8              | .375 | 1.41 | .094        |
| 62PLP-4-2    | 1/4              | 1/8              | .500 | 1.43 | .094        |
| 62PLP-4-5/32 | 1/4              | 5/32             | .500 | 1.43 | .125        |
| 62PLP-4-6    | 1/4              | 3/8              | .625 | 1.66 | .188        |
| 62PLP-6-8    | 3/8              | 1/2              | .750 | 1.82 | .312        |

**HPB Equal Union**

| PART NO. | TUBE SIZE (MM) | L    |
|----------|----------------|------|
| HPB4     | 4              | 33.0 |
| HPB5     | 5              | 34.5 |
| HPB6     | 6              | 36.0 |
| HPB8     | 8              | 38.0 |
| HPB10    | 10             | 48.0 |
| HPB12    | 12             | 48.0 |
| HPB14    | 14             | 54.0 |

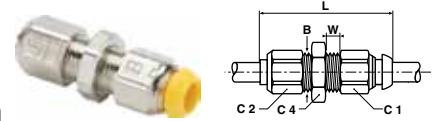
**62PLPBH Bulkhead Union**

| PART NO.     | TUBE SIZE (IN) | BULKHEAD HOLE DIA. B | C HEX | P MAX. | L    | D    |
|--------------|----------------|----------------------|-------|--------|------|------|
| 62PLPBH-2    | 1/8            | 7/16                 | 9/16  | .39    | 1.40 | .094 |
| 62PLPBH-5/32 | 5/32           | 7/16                 | 9/16  | .39    | 1.41 | .125 |
| 62PLPBH-4    | 1/4            | 9/16                 | 11/16 | .29    | 1.43 | .188 |
| 62PLPBH-5    | 5/16           | 5/8                  | 3/4   | .60    | 1.65 | .250 |
| 62PLPBH-6    | 3/8            | 3/4                  | 7/8   | .54    | 1.66 | .312 |
| 62PLPBH-8    | 1/2            | 7/8                  | 1     | .66    | 2.04 | .375 |

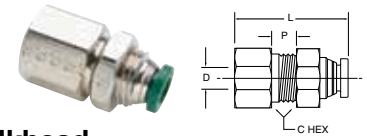
**WPB Bulkhead Union**

| PART NO. | TUBE SIZE (MM) | B-MM THREAD | C HEX | L  | W  | BULKHEAD HOLE DIA. |
|----------|----------------|-------------|-------|----|----|--------------------|
| WPB4     | 4              | M11X0.75    | 16    | 33 | 6  | 11MM               |
| WPB6     | 6              | M13X1       | 19    | 35 | 6  | 13MM               |
| WPB8     | 8              | M15X1.25    | 22    | 36 | 6  | 16MM               |
| WPB10    | 10             | M18X1       | 22    | 43 | 8  | 18MM               |
| WPB12    | 12             | M23X1.5     | 27    | 46 | 10 | 23MM               |
| WPB14    | 14             | M24X1.5     | 30    | 52 | 10 | 24MM               |

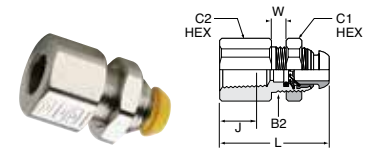
Jam nut is supplied loose in box

**WBMPB Mixed Bulkhead Union**

| PART NO. | TUBE 1 SIZE (MM) | TUBE 2 SIZE (MM) | B-MM THREAD | C1 | C2 | C4 | L  | W | BULKHEAD HOLE DIA. |
|----------|------------------|------------------|-------------|----|----|----|----|---|--------------------|
| WBMPB4   | 4                | 4                | M8X1        | 10 | 10 | 12 | 34 | 5 | 8MM                |
| WBMPB6   | 6                | 6                | M10X1       | 12 | 10 | 12 | 37 | 5 | 10MM               |
| WBMPB8   | 8                | 8                | M12X1       | 14 | 14 | 16 | 39 | 5 | 12MM               |
| WBMPB10  | 10               | 10               | M14X1       | 17 | 17 | 19 | 45 | 5 | 14MM               |
| WBMPB12  | 12               | 12               | M16X1       | 22 | 19 | 22 | 49 | 5 | 16MM               |

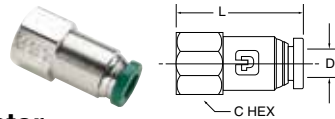
**66PLPBH Female Bulkhead**

| PART NO.       | TUBE SIZE (IN) | PIPE THD (NPTF) | C HEX | P MAX. | L    | FLOW DIA. D | BKHD HOLE DIA. |
|----------------|----------------|-----------------|-------|--------|------|-------------|----------------|
| 66PLPBH-5/32-4 | 5/32           | 1/4             | 11/16 | .19    | 1.39 | .125        | 1/2            |
| 66PLPBH-4-4    | 1/4            | 1/4             | 11/16 | .24    | 1.35 | .188        | 9/16           |
| 66PLPBH-6-6    | 3/8            | 3/8             | 1     | .22    | 1.47 | .312        | 7/8            |
| 66PLPBH-8-6    | 1/2            | 3/8             | 1     | .35    | 1.56 | .344        | 7/8            |

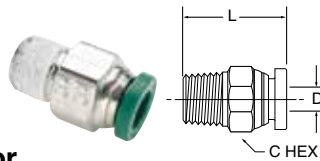
**WG4PB Bulkhead Union Female BSPP**

| PART NUMBER   | TUBE SIZE (MM) | BSPP | C1 HEX | C2 HEX | J  | L    | W    |
|---------------|----------------|------|--------|--------|----|------|------|
| WG4PB4-1/8    | 4              | 1/8  | 14     | 14     | 8  | 25.0 | 6    |
| WG4PB6-1/8    | 6              | 1/8  | 17     | 17     | 8  | 25.0 | 6    |
| WG4PB6-1/4    | 6              | 1/4  | 17     | 19     | 12 | 29.5 | 6    |
| WG4PB8-1/4    | 8              | 1/4  | 19     | 19     | 12 | 30.0 | 6    |
| WG4PB10-3/8   | 10             | 3/8  | 22     | 22     | 12 | 34.0 | 8    |
| WG4PB12-3/8   | 12             | 3/8  | 27     | 24     | 12 | 35.0 | 10   |
| WG4PB12-1/2   | 12             | 1/2  | 27     | 27     | 14 | 40.0 | 10   |
| 66LFBH-16M-6G | 16             | 3/8  | 29     | 29     | 12 | 45   | 10.5 |
| 66LFBH-16M-8G | 16             | 1/2  | 28     | 29     | 15 | 49.5 | 10.5 |

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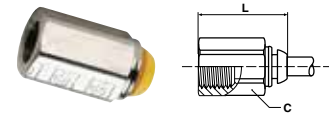
**66PLP Female Connector**

| PART NO.     | TUBE SIZE | PIPE THREAD (NPTF) | C HEX | L    | FLOW DIA. D |
|--------------|-----------|--------------------|-------|------|-------------|
| 66PLP-2-2    | 1/8       | 1/8                | 9/16  | 1.17 | .094        |
| 66PLP-2-4    | 1/8       | 1/4                | 11/16 | 1.34 | .094        |
| 66PLP-3-2    | 3/16      | 1/8                | 9/16  | 1.13 | .156        |
| 66PLP-5/32-2 | 5/32      | 1/8                | 9/16  | 1.17 | .125        |
| 66PLP-5/32-4 | 5/32      | 1/4                | 11/16 | 1.38 | .125        |
| 66PLP-4-2    | 1/4       | 1/8                | 9/16  | 1.17 | .188        |
| 66PLP-4-4    | 1/4       | 1/4                | 11/16 | 1.38 | .188        |
| 66PLP-5-2    | 5/16      | 1/8                | 9/16  | 1.25 | .250        |
| 66PLP-5-4    | 5/16      | 1/4                | 11/16 | 1.45 | .250        |
| 66PLP-6-4    | 3/8       | 1/4                | 11/16 | 1.46 | .312        |
| 66PLP-6-6    | 3/8       | 3/8                | 13/16 | 1.51 | .312        |

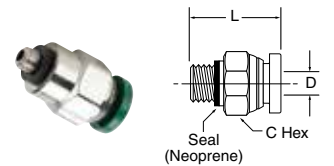
**W68PLP Male Connector**

| PART NO.        | TUBE SIZE (IN) | PIPE THD (NPTF) | C HEX | L    | FLOW DIA. D |
|-----------------|----------------|-----------------|-------|------|-------------|
| W68PLP-2-1      | 1/8            | 1/16            | 3/8   | .79  | .094        |
| W68PLP-2-2      | 1/8            | 1/8             | 7/16  | .79  | .094        |
| W68PLP-2-4      | 1/8            | 1/4             | 9/16  | 1.02 | .094        |
| W68PLP-3-2      | 3/16           | 1/8             | 7/16  | .85  | .156        |
| W68PLP-3-4      | 3/16           | 1/4             | 9/16  | 1.01 | .156        |
| W68PLP-5/32-1   | 5/32           | 1/16            |       | .88  | .940        |
| W68PLP-5/32-2   | 5/32           | 1/8             | 7/16  | .80  | .125        |
| W68PLP-5/32-4   | 5/32           | 1/4             | 9/16  | 1.03 | .125        |
| W68PLP-4-1      | 1/4            | 1/16            | 1/2   | 1.07 | .141        |
| W68PLP-4-2      | 1/4            | 1/8             | 1/2   | .89  | .188        |
| W68PLP-4-4      | 1/4            | 1/4             | 9/16  | 1.00 | .188        |
| W68PLP-4-6      | 1/4            | 3/8             | 3/4   | 1.04 | .188        |
| W68PLP-5-2      | 5/16           | 1/8             | 9/16  | 1.18 | .250        |
| W68PLP-5-4      | 5/16           | 1/4             | 9/16  | 1.04 | .250        |
| W68PLP-5-6      | 5/16           | 3/8             | 11/16 | 1.04 | .250        |
| W68PLP-6-2      | 3/8            | 1/8             | 5/8   | 1.21 | .250        |
| W68PLP-6-4      | 3/8            | 1/4             | 5/8   | 1.08 | .312        |
| W68PLP-6-6      | 3/8            | 3/8             | 11/16 | 1.02 | .312        |
| W68PLP-6-8      | 3/8            | 1/2             | 7/8   | 1.28 | .312        |
| W68PLP-8-4      | 1/2            | 1/4             | 13/16 | 1.44 | .344        |
| W68PLP-8-6      | 1/2            | 3/8             | 13/16 | 1.24 | .344        |
| W68PLP-8-8      | 1/2            | 1/2             | 7/8   | 1.35 | .375        |
| 68PLP-5/32-4LT* | 5/32           | 1/4-28          | 7/16  | .88  | .093        |

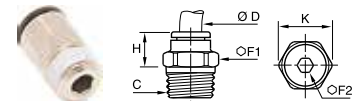
\*SAE-LTThreads

**G4PB Female Connector BSPP**

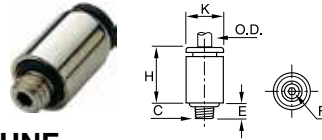
| PART NO.    | TUBE SIZE (MM) | BSPP | C HEX | L    |
|-------------|----------------|------|-------|------|
| G4PB4-1/8   | 4              | 1/8  | 14    | 26.0 |
| G4PB6-1/8   | 6              | 1/8  | 14    | 27.5 |
| G4PB6-1/4   | 6              | 1/4  | 17    | 33.0 |
| G4PB8-1/8   | 8              | 1/8  | 17    | 29.0 |
| G4PB8-1/4   | 8              | 1/4  | 17    | 33.0 |
| 66LF-16M-8G | 16             | 1/2  | 27    | 49   |

**68PLP-X-0 Male Connector**

| PART NO.     | TUBE SIZE (IN) | PIPE THREAD (NPTF) | C HEX | L   | FLOW DIA. D |
|--------------|----------------|--------------------|-------|-----|-------------|
| 68PLP-2-0    | 1/8            | 10X32              | 3/8   | .92 | .094        |
| 68PLP-5/32-0 | 5/32           | 10X32              | 3/8   | .90 | .090        |
| 68PLP-4-0    | 1/4            | 10X32              | 1/2   | .96 | .094        |

**W68LF Male Connector Tube to NPT**

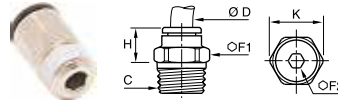
| PART NO.     | TUBE SIZE | C NPT | F1 MM | F2 IN | H IN  | K IN |
|--------------|-----------|-------|-------|-------|-------|------|
| W68LF-2-1    | 1/8       | 1/16  | 10    | .07   | .413  | .433 |
| W68LF-2-2    | 1/8       | 1/8   | 11    | .07   | .283  | .472 |
| W68LF-2-4    | 1/8       | 1/4   | 14    | .07   | .315  | .591 |
| W68LF-5/32-2 | 5/32      | 1/8   | 11    | .11   | .334  | .472 |
| W68LF-5/32-4 | 5/32      | 1/4   | 14    | .11   | .275  | .590 |
| W68LF-3-2    | 3/16      | 1/8   | 11    | .12   | .610  | .510 |
| W68LF-3-4    | 3/16      | 1/4   | 14    | .16   | .590  | .650 |
| W68LF-4-2    | 1/4       | 1/8   | 11    | .16   | .472  | .472 |
| W68LF-4-4    | 1/4       | 1/4   | 14    | .16   | .374  | .590 |
| W68LF-4-6    | 1/4       | 3/8   | 18    | .19   | .295  | .767 |
| W68LF-5-2    | 5/16      | 1/8   | 13    | .19   | .787  | .551 |
| W68LF-5-4    | 5/16      | 1/4   | 14    | .25   | .661  | .590 |
| W68LF-5-6    | 5/16      | 3/8   | 18    | .25   | .464  | .767 |
| W68LF-6-2    | 3/8       | 1/8   | 16    | .16   | .894  | .689 |
| W68LF-6-4    | 3/8       | 1/4   | 16    | .28   | .807  | .689 |
| W68LF-6-6    | 3/8       | 3/8   | 18    | .28   | .689  | .767 |
| W68LF-6-8    | 3/8       | 1/2   | 22    | .28   | .610  | .945 |
| W68LF-8-4    | 1/2       | 1/4   | 22    | .25   | 1.100 | .945 |
| W68LF-8-6    | 1/2       | 3/8   | 22    | .28   | 1.100 | .945 |
| W68LF-8-8    | 1/2       | 1/2   | 22    | .28   | 1.100 | .945 |

**68LFR Male Connector UNF**

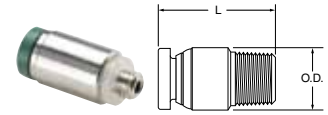
| PART NO.     | TUBE SIZE | C UNF | E IN | F MM | H IN | K IN |
|--------------|-----------|-------|------|------|------|------|
| 68LFR-2-0    | 1/8       | 10-32 | .13  | 2.0  | .49  | .32  |
| 68LFR-5/32-0 | 5/32      | 10-32 | .13  | 2.0  | .54  | .34  |
| 68LFR-4-1    | 1/4       | 1/16  | -    | 3.0  | .63  | .42  |
| 68LFR-4-0    | 1/4       | 10-32 | .13  | 2.0  | .64  | .46  |
| 68LFR-4-M5   | 1/4       | M5    | .14  | 2.5  | .65  | .41  |
| 68LFR-4-M7   | 1/4       | M7    | .18  | 4.0  | .65  | .41  |

**68LFR Male Connector Metric Straight Thread**

| PART NO.    | TUBE SIZE | C UNF | E MM | F MM | H MM | K MM |
|-------------|-----------|-------|------|------|------|------|
| 68LFR-4M-M7 | 4         | M7X1  | 4.6  | 3    | 14   | 9.95 |
| 68LFR-6M-M7 | 6         | M7X1  | 4.6  | 3    | 16   | 9.90 |

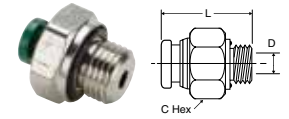
**W68LF Male Connector BSPT**

| PART NO.      | TUBE SIZE | C BSPT | F1 MM | F2 MM | H IN  | K IN  |
|---------------|-----------|--------|-------|-------|-------|-------|
| W68LF-2-2R    | 1/8       | 1/8    | 10    | 2     | .335  | .433  |
| W68LF-5/32-2R | 5/32      | 1/8    | 10    | 3     | .370  | .430  |
| W68LF-5/32-4R | 5/32      | 1/4    | 14    | 3     | .260  | .590  |
| W68LF-3-2R    | 3/16      | 1/8    | 11    | 3     | .610  | .510  |
| W68LF-3-4R    | 3/16      | 1/4    | 14    | 3     | .590  | .650  |
| W68LF-4-2R    | 1/4       | 1/8    | 11    | 4     | .472  | .472  |
| W68LF-4-4R    | 1/4       | 1/4    | 14    | 4     | .374  | .591  |
| W68LF-5-2R    | 5/16      | 1/8    | 13    | 5     | .790  | .550  |
| W68LF-5-4R    | 5/16      | 1/4    | 14    | 6     | .670  | .590  |
| W68LF-5-6R    | 5/16      | 3/8    | 17    | 6     | .510  | .730  |
| W68LF-5-8R    | 5/16      | 1/2    | 21    | 6     | .470  | .910  |
| W68LF-6-4R    | 3/8       | 1/4    | 16    | 7     | .807  | .689  |
| W68LF-6-6R    | 3/8       | 3/8    | 17    | 7     | .650  | .728  |
| W68LF-6-8R    | 3/8       | 1/2    | 21    | 7     | .551  | .906  |
| W68LF-8-4R    | 1/2       | 1/4    | 22    | 6     | 1.060 | .945  |
| W68LF-8-6R    | 1/2       | 3/8    | 22    | 7     | 1.020 | .945  |
| W68LF-8-8R    | 1/2       | 1/2    | 24    | 7     | .807  | 1.020 |

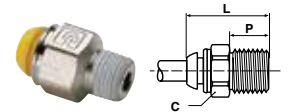
**68PLPR Round Body Male Connector**

| PART NO.       | TUBE SIZE | THREAD SIZE NPTF | INTERNAL HEX BROACH | BODY DIA. O.D. | L    | FLOW DIA. |
|----------------|-----------|------------------|---------------------|----------------|------|-----------|
| 68PLPR-2-0*    | 1/8       | 10-32            | 3/32                | 3/8"           | .89  | .094      |
| 68PLPR-5/32-0* | 5/32      | 10-32            | 3/32                | 3/8"           | .91  | .094      |
| 68PLPR-4-0*    | 1/4       | 10-32            | 3/32                | 1/2"           | .95  | .094      |
| W68PLPR-5/32-1 | 5/32      | 1/16             | 1/8                 | 7/16"          | .87  | .125      |
| W68PLPR-5/32-2 | 5/32      | 1/8              | 1/8                 | 7/16"          | .79  | .125      |
| W68PLPR-4-1    | 1/4       | 1/16             | 5/32                | 1/2"           | 1.06 | .156      |
| W68PLPR-4-2    | 1/4       | 1/8              | 3/16                | 1/2"           | .88  | .188      |
| W68PLPR-4-4    | 1/4       | 1/4              | 3/16                | 5/8"           | .99  | .188      |

\*10-32 seal is neoprene

**PLPHBF4-B Male Connector BSPP**

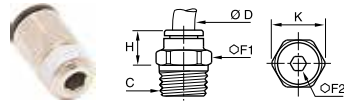
| PART NO.       | TUBE SIZE (IN) | PIPE THD BSPP | C HEX  | L    | FLOW DIA. D |
|----------------|----------------|---------------|--------|------|-------------|
| 3-1/8PLPHBF4-B | 3/16           | 1/8-28        | 11/16  | .96  | .156        |
| 3-1/4PLPHBF4-B | 3/16           | 1/4-19        | 3/4    | .97  | .156        |
| 4-1/8PLPHBF4-B | 1/4            | 1/8-28        | 11/16  | 1.13 | .188        |
| 4-1/4PLPHBF4-B | 1/4            | 1/4-19        | 3/4    | 1.13 | .188        |
| 4-3/8PLPHBF4-B | 1/4            | 3/8-19        | 7/8    | 1.13 | .188        |
| 6-1/4PLPHBF4-B | 3/8            | 1/4-19        | 3/4    | 1.26 | .256        |
| 6-3/8PLPHBF4-B | 3/8            | 3/8-19        | 7/8    | 1.26 | .312        |
| 6-1/2PLPHBF4-B | 3/8            | 1/2-14        | 1-1/16 | 1.26 | .312        |
| 8-3/8PLPHBF4-B | 1/2            | 3/8-19        | 7/8    | 1.41 | .452        |
| 8-1/2PLPHBF4-B | 1/2            | 1/2-14        | 1-1/16 | 1.37 | .452        |

**FPB Male Connector NPT**

| PART NO.       | TUBE SIZE (MM) | NPT    | C HEX | L    | P    | INT. HEX |
|----------------|----------------|--------|-------|------|------|----------|
| W68PLP-5/32-2* | 4              | 1/8-27 | 7/16" | 21.7 | 9.7  | -        |
| W68PLP-5/32-4* | 4              | 1/4-18 | 9/16" | 28.1 | 14.2 | -        |
| FPB6-1/8       | 6              | 1/8-27 | 14    | 26.0 | 10.1 | 4        |
| FPB6-1/4       | 6              | 1/4-18 | 14    | 28.5 | 14.6 | 4        |
| FPB10-1/4      | 10             | 1/4-18 | 19    | 40.0 | 14.6 | 8        |
| FPB10-3/8      | 10             | 3/8-18 | 19    | 34.0 | 14.6 | 8        |
| FPB12-3/8      | 12             | 3/8-18 | 22    | 36.5 | 14.6 | 10       |

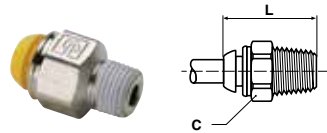
\*Comes with green release button

A



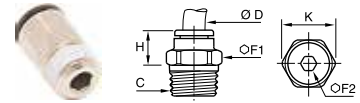
### W68LF Male Connector Metric Tube to NPT

| PART NO.    | TUBE SIZE (MM) | C NPT | F1 MM | F2 IN | H IN | K IN |
|-------------|----------------|-------|-------|-------|------|------|
| W68LF-4M-2  | 4              | 1/8   | 11    | 3     | .33  | .47  |
| W68LF-4M-4  | 4              | 1/4   | 14    | 3     | .28  | .59  |
| W68LF-6M-2  | 6              | 1/8   | 11    | 4     | .45  | .47  |
| W68LF-6M-4  | 6              | 1/4   | 14    | 4     | .33  | .59  |
| W68LF-8M-2  | 8              | 1/8   | 13    | 5     | .79  | .55  |
| W68LF-8M-4  | 8              | 1/4   | 14    | 6     | .66  | .59  |
| W68LF-8M-6  | 8              | 3/8   | 18    | 6     | .46  | .77  |
| W68LF-10M-4 | 10             | 1/4   | 16    | 7     | .79  | .69  |
| W68LF-10M-6 | 10             | 3/8   | 18    | 8     | .65  | .77  |
| W68LF-10M-8 | 10             | 1/2   | 22    | 8     | .55  | .95  |
| W68LF-12M-6 | 12             | 3/8   | 19    | 9     | .95  | .83  |
| W68LF-12M-8 | 12             | 1/2   | 22    | 10    | .77  | .95  |



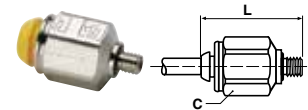
### F3PB Male Connector BSPT

| PART NO.   | TUBE SIZE (MM) | BSPT | C HEX | L    |
|------------|----------------|------|-------|------|
| F3PB4-1/8  | 4              | 1/8  | 10    | 18.4 |
| F3PB4-1/4  | 4              | 1/4  | 14    | 20.0 |
| F3PB5-1/8  | 5              | 1/8  | 11    | 22.0 |
| F3PB5-1/4  | 5              | 1/4  | 14    | 23.0 |
| F3PB6-1/8  | 6              | 1/8  | 12    | 20.7 |
| F3PB6-1/4  | 6              | 1/4  | 14    | 20.8 |
| F3PB8-1/8  | 8              | 1/8  | 14    | 27.5 |
| F3PB8-1/4  | 8              | 1/4  | 14    | 26.5 |
| F3PB8-3/8  | 8              | 3/8  | 17    | 22.5 |
| F3PB10-1/4 | 10             | 1/4  | 17    | 32.3 |
| F3PB10-3/8 | 10             | 3/8  | 17    | 26.3 |
| F3PB10-1/2 | 10             | 1/2  | 22    | 26.3 |
| F3PB12-1/4 | 12             | 1/4  | 20    | 34.3 |
| F3PB12-3/8 | 12             | 3/8  | 20    | 29.3 |
| F3PB12-1/2 | 12             | 1/2  | 22    | 27.3 |
| F3PB14-3/8 | 14             | 3/8  | 22    | 38.0 |
| F3PB14-1/2 | 14             | 1/2  | 22    | 33.0 |



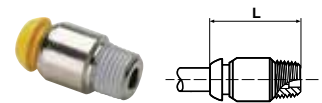
### W68LF Male Connector Metric Tube to BSPT

| PART NO.     | TUBE SIZE (MM) | C BSPT | F1 MM | F2 MM | H MM | K MM |
|--------------|----------------|--------|-------|-------|------|------|
| W68LF-4M-2R  | 4              | 1/8    | 10    | 3     | 9.5  | 11.0 |
| W68LF-4M-4R  | 4              | 1/4    | 14    | 3     | 6.5  | 15.0 |
| W68LF-4M-6R  | 4              | 3/8    | 17    | 3     | 8.0  | 18.5 |
| W68LF-6M-2R  | 6              | 1/8    | 11    | 4     | 11.5 | 11.0 |
| W68LF-6M-4R  | 6              | 1/4    | 14    | 4     | 8.5  | 15.0 |
| W68LF-6M-6R  | 6              | 3/8    | 17    | 4     | 8.5  | 18.5 |
| W68LF-6M-8R  | 6              | 1/2    | 21    | 4     | 9.0  | 23.0 |
| W68LF-8M-2R  | 8              | 1/8    | 13    | 5     | 20.0 | 14.0 |
| W68LF-8M-4R  | 8              | 1/4    | 14    | 6     | 17.0 | 15.0 |
| W68LF-8M-6R  | 8              | 3/8    | 17    | 6     | 13.0 | 18.5 |
| W68LF-8M-8R  | 8              | 1/2    | 21    | 6     | 12.0 | 23.0 |
| W68LF-10M-2R | 10             | 1/8    | 16    | 5     | 22.5 | 17.5 |
| W68LF-10M-4R | 10             | 1/4    | 16    | 7     | 20.0 | 17.5 |
| W68LF-10M-6R | 10             | 3/8    | 17    | 8     | 16.5 | 18.5 |
| W68LF-10M-8R | 10             | 1/2    | 21    | 8     | 14.0 | 23.0 |
| W68LF-12M-4R | 12             | 1/4    | 19    | 7     | 26.5 | 21.0 |
| W68LF-12M-6R | 12             | 3/8    | 19    | 9     | 24.0 | 21.0 |
| W68LF-12M-8R | 12             | 1/2    | 21    | 9     | 19.5 | 23.0 |
| W68LF-14M-6R | 14             | 3/8    | 22    | 9     | 28.5 | 24.0 |
| W68LF-14M-8R | 14             | 1/2    | 24    | 10    | 23.5 | 26.0 |



### F8PB Male Connector Metric Straight Thread

| PART NO. | TUBE SIZE (MM) | MM THREAD | C HEX | L    |
|----------|----------------|-----------|-------|------|
| F8PB4M5  | 4              | M5X0.8    | 10    | 26.6 |
| F8PB4M10 | 4              | M10X1     | 14    | 24.0 |
| F8PB6M5  | 6              | M5X0.8    | 12    | 27.8 |
| F8PB6M10 | 6              | M10X1     | 14    | 28.0 |
| F8PB6M12 | 6              | M12X1.5   | 17    | 23.5 |
| F8PB8M12 | 8              | M12X1.5   | 17    | 27.0 |
| F8PB8M16 | 8              | M16X1.5   | 22    | 28.0 |
| F8PB8M22 | 8              | M22X1.5   | 27    | 30.0 |



### F23PB Male Connector BSPT

| PART NO.   | TUBE SIZE (MM) | BSPT | L  |
|------------|----------------|------|----|
| F23PB4-1/8 | 4              | 1/8  | 21 |
| F23PB6-1/8 | 6              | 1/8  | 24 |
| F23PB6-1/4 | 6              | 1/4  | 28 |
| F23PB8-1/8 | 8              | 1/8  | 28 |
| F23PB8-1/4 | 8              | 1/4  | 28 |

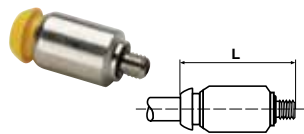
This fitting has been designed for use where space is at a premium. It is assembled using the internal hexagon and an allen key.

### F4PB Compact Male Connector BSPP



| PART NO.   | TUBE SIZE (MM) | BSPP | C HEX | J   | L    |
|------------|----------------|------|-------|-----|------|
| F4PB4-1/8  | 4              | 1/8  | 13    | 4.7 | 19.9 |
| F4PB4-1/4  | 4              | 1/4  | 16    | 6.0 | 20.3 |
| F4PB6-1/8  | 6              | 1/8  | 13    | 4.7 | 23.4 |
| F4PB6-1/4  | 6              | 1/4  | 16    | 6.0 | 22.2 |
| F4PB8-1/4  | 8              | 1/4  | 16    | 6.0 | 23.8 |
| F4PB8-1/8  | 8              | 1/8  | 14    | 4.7 | 25.1 |
| F4PB8-3/8  | 8              | 3/8  | 20    | 6.5 | 23.5 |
| F4PB10-1/4 | 10             | 1/4  | 17    | 6.0 | 31.3 |
| F4PB10-3/8 | 10             | 3/8  | 20    | 6.5 | 26.8 |
| F4PB10-1/2 | 10             | 1/2  | 24    | 7.5 | 26.1 |
| F4PB12-1/4 | 12             | 1/4  | 20    | 6.0 | 31.9 |
| F4PB12-3/8 | 12             | 3/8  | 20    | 6.5 | 31.8 |
| F4PB12-1/2 | 12             | 1/2  | 24    | 7.5 | 27.8 |
| F4PB14-3/8 | 14             | 3/8  | 22    | 6.5 | 35.0 |
| F4PB14-1/2 | 14             | 1/2  | 24    | 7.5 | 30.0 |

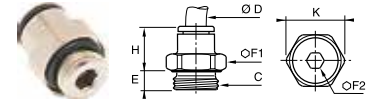
### F28PB Male Connector Metric Straight Thread



| PART NO. | TUBE SIZE (MM) | MM THREAD | L  |
|----------|----------------|-----------|----|
| F28PB4M3 | 4              | M3X0.5    | 24 |
| F28PB4M5 | 4              | M5X0.8    | 25 |
| F28PB6M5 | 6              | M5X0.8    | 25 |

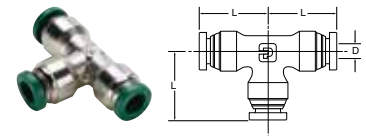
This fitting has been designed for use where space is at a premium. It is assembled using the internal hexagon and an allen key.

### 68LF Male Connector Metric Tube to BSPP



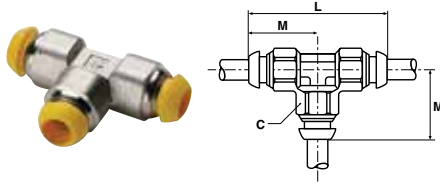
| PART NO.    | TUBE SIZE (MM) | C BSPP  | E MM | F1 MM | F2 MM | H MM | K MM |
|-------------|----------------|---------|------|-------|-------|------|------|
| 68LF 3M-M3  | 3              | M3X0.5  | 2.50 | 8     | -     | 12.5 | 8.5  |
| 68LF-3M-M5  | 3              | M5X0.8  | 3.50 | 8     | 2.5   | 12.5 | 8.5  |
| 68LF-4M-M3  | 4              | M3X0.5  | 2.50 | 8     | -     | 14.5 | 8.5  |
| 68LF-4M-M5  | 4              | M5X0.8  | 3.50 | 8     | 2.5   | 14.0 | 8.5  |
| 68LF-4M-M7  | 4              | M7X1    | 5.00 | 10    | 2.5   | 14.0 | 11.0 |
| 68LF-4M-2G  | 4              | 1/8     | 4.50 | 13    | 3.0   | 11.5 | 14.0 |
| 68LF-4M-4G  | 4              | 1/4     | 5.50 | 16    | 3.0   | 10.5 | 17.5 |
| 68LF-6M-M5  | 6              | M5X0.8  | 3.50 | 10    | 2.5   | 16.0 | 11.0 |
| 68LF-6M-M7  | 6              | M7X1    | 5.00 | 10    | 3.0   | 16.0 | 11.0 |
| 68LF-6M-M10 | 6              | M10X1   | 5.00 | 13    | 4.0   | 13.0 | 14.0 |
| 68LF-6M-M12 | 6              | M12X1.5 | 5.50 | 15    | 4.0   | 13.0 | 16.0 |
| 68LF-6M-2G  | 6              | 1/8     | 4.50 | 13    | 4.0   | 13.0 | 14.0 |
| 68LF-6M-4G  | 6              | 1/4     | 5.50 | 16    | 4.0   | 12.5 | 17.5 |
| 68LF-6M-6G  | 6              | 3/8     | 5.50 | 20    | 4.0   | 13.0 | 22.0 |
| 68LF-6M-8G  | 6              | 1/2     | 7.50 | 24    | 4.0   | 20.0 | 26.0 |
| 68LF-8M-M10 | 8              | M10X1   | 5.00 | 13    | 5.0   | 21.0 | 14.0 |
| 68LF-8M-M12 | 8              | M12X1.5 | 5.50 | 15    | 5.0   | 21.0 | 16.0 |
| 68LF-8M-2G  | 8              | 1/8     | 4.50 | 13    | 5.0   | 20.5 | 14.0 |
| 68LF-8M-4G  | 8              | 1/4     | 5.50 | 16    | 6.0   | 19.5 | 17.5 |
| 68LF-8M-6G  | 8              | 3/8     | 5.50 | 20    | 6.0   | 18.0 | 22.0 |
| 68LF-8M-8G  | 8              | 1/2     | 7.50 | 24    | 6.0   | 16.5 | 26.0 |
| 68LF-10M-4G | 10             | 1/4     | 5.50 | 16    | 7.0   | 23.0 | 17.5 |
| 68LF-10M-6G | 10             | 3/8     | 5.50 | 20    | 8.0   | 19.5 | 22.0 |
| 68LF-10M-8G | 10             | 1/2     | 7.50 | 24    | 8.0   | 18.5 | 26.0 |
| 68LF-12M-4G | 12             | 1/4     | 5.50 | 19    | 7.0   | 27.5 | 21.0 |
| 68LF-12M-6G | 12             | 3/8     | 5.50 | 20    | 9.0   | 27.0 | 22.0 |
| 68LF-12M-8G | 12             | 1/2     | 7.00 | 24    | 10.0  | 22.5 | 26.0 |
| 68LF-14M-6G | 14             | 3/8     | 5.50 | 22    | 9.0   | 29.5 | 24.0 |
| 68LF-14M-8G | 14             | 1/2     | 7.00 | 24    | 11.0  | 28.0 | 26.0 |

### 164PLP Union Tee

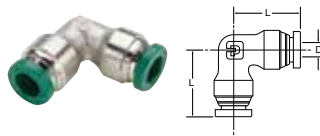


| PART NO.    | TUBE SIZE (IN) | L    | FLOW DIA. D |
|-------------|----------------|------|-------------|
| 164PLP-2    | 1/8            | .74  | .094        |
| 164PLP-3    | 3/16           | .82  | .156        |
| 164PLP-5/32 | 5/32           | .77  | .125        |
| 164PLP-4    | 1/4            | .85  | .188        |
| 164PLP-5    | 5/16           | .97  | .250        |
| 164PLP-6    | 3/8            | 1.01 | .250        |
| 164PLP-8    | 1/2            | 1.15 | .375        |

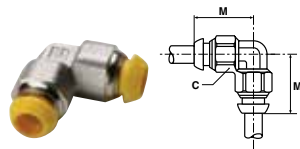
A

**JPB Union Tee**

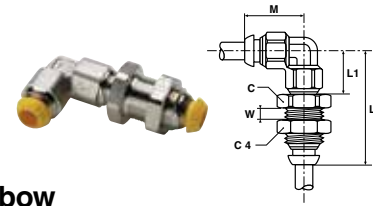
| PART NO. | TUBE SIZE (MM) | C  | L  | M  |
|----------|----------------|----|----|----|
| JPB4     | 4              | 10 | 36 | 18 |
| JPB5     | 5              | 12 | 41 | 21 |
| JPB6     | 6              | 12 | 40 | 20 |
| JPB8     | 8              | 14 | 44 | 22 |
| JPB10    | 10             | 17 | 56 | 28 |
| JPB12    | 12             | 22 | 60 | 30 |
| JPB14    | 14             | 25 | 68 | 34 |

**165PLP Union Elbow**

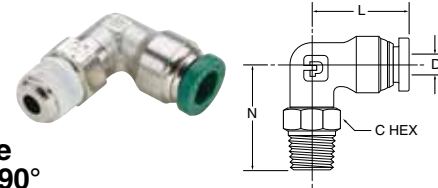
| PART NO.    | TUBE SIZE (IN) | L    | FLOW DIA. D |
|-------------|----------------|------|-------------|
| 165PLP-2    | 1/8            | .74  | .094        |
| 165PLP-5/32 | 5/32           | .77  | .125        |
| 165PLP-4    | 1/4            | .85  | .188        |
| 165PLP-5    | 5/16           | .97  | .250        |
| 165PLP-6    | 3/8            | 1.01 | .312        |
| 165PLP-8    | 1/2            | 1.15 | .375        |

**EPB 90° Union Elbow**

| PART NO. | TUBE SIZE (MM) | C HEX | M    |
|----------|----------------|-------|------|
| EPB4     | 4              | 10    | 18.0 |
| EPB5     | 5              | 12    | 20.5 |
| EPB6     | 6              | 12    | 20.0 |
| EPB8     | 8              | 14    | 22.0 |
| EPB10    | 10             | 17    | 28.0 |
| EPB12    | 12             | 22    | 30.0 |
| EPB14    | 14             | 25    | 35.0 |

**WE6PB Adjustable Bulkhead Union Elbow**

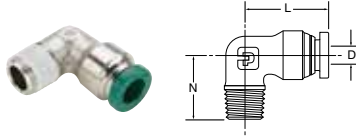
| PART NO. | TUBE SIZE (MM) | THREAD B (MM) | C HEX | C4 HEX | L  | L1   | M    | W  | BKHD HOLE DIA. |
|----------|----------------|---------------|-------|--------|----|------|------|----|----------------|
| WE6PB4   | 4              | M11X0.75      | 14    | 16     | 37 | 18.0 | 18.0 | 6  | 11MM           |
| WE6PB6   | 6              | M13X1         | 17    | 17     | 39 | 19.5 | 20.5 | 6  | 13MM           |
| WE6PB8   | 8              | M15X1.25      | 19    | 19     | 43 | 21.5 | 22.5 | 6  | 15MM           |
| WE6PB10  | 10             | M18X1         | 22    | 22     | 54 | 22.8 | 28.5 | 8  | 18MM           |
| WE6PB12  | 12             | M23X1.5       | 27    | 27     | 59 | 30.0 | 30.0 | 10 | 23MM           |

**W169PLP Male Elbow Swivel 90°**

| PART NO.       | TUBE SIZE (IN) | PIPE THREAD (NPTF) | C HEX | L    | N    | FLOW DIA. D |
|----------------|----------------|--------------------|-------|------|------|-------------|
| W169PLP-2-1    | 1/8            | 1/16               | 3/8   | .74  | .93  | .160        |
| W169PLP-2-2    | 1/8            | 1/8                | 7/16  | .74  | .92  | .094        |
| 169PLP-2-0*    | 1/8            | 10-32              | 3/8   | .74  | .74  | .080        |
| W169PLP-2-4    | 1/8            | 1/4                | 9/16  | .74  | 1.10 | .094        |
| W169PLP-3-2    | 3/16           | 1/8                | 7/16  | .82  | .92  | .156        |
| W169PLP-5/32-1 | 5/32           | 1/16               | 3/8   | .84  | .93  | .160        |
| W169PLP-5/32-2 | 5/32           | 1/8                | 7/16  | .77  | .92  | .125        |
| W169PLP-5/32-4 | 5/32           | 1/4                | 9/16  | .77  | 1.10 | .125        |
| 169PLP-5/32-0* | 5/32           | 10-32              | 3/8   | .85  | .74  | .080        |
| W169PLP-4-1    | 1/4            | 1/16               | 3/8   | .84  | .93  | .160        |
| W169PLP-4-2    | 1/4            | 1/8                | 7/16  | .85  | .92  | .156        |
| W169PLP-4-4    | 1/4            | 1/4                | 9/16  | .85  | 1.10 | .156        |
| W169PLP-4-6    | 1/4            | 3/8                | 11/16 | .85  | 1.19 | .156        |
| 169PLP-4-0*    | 1/4            | 10-32              | 3/8   | .85  | .74  | .080        |
| W169PLP-5-2    | 5/16           | 1/8                | 9/16  | .97  | 1.02 | .250        |
| W169PLP-5-4    | 5/16           | 1/4                | 9/16  | .97  | 1.24 | .250        |
| W169PLP-6-2    | 3/8            | 1/8                | 9/16  | 1.01 | 1.02 | .250        |
| W169PLP-6-4    | 3/8            | 1/4                | 9/16  | 1.01 | 1.24 | .250        |
| W169PLP-6-6    | 3/8            | 3/8                | 11/16 | 1.01 | 1.24 | .250        |
| W169PLP-6-8    | 3/8            | 1/2                | 7/8   | 1.01 | 1.48 | .250        |
| W169PLP-8-4    | 1/2            | 1/4                | 9/16  | 1.15 | 1.28 | .312        |
| W169PLP-8-6    | 1/2            | 3/8                | 11/16 | 1.15 | 1.31 | .312        |
| W169PLP-8-8    | 1/2            | 1/2                | 7/8   | 1.15 | 1.52 | .312        |

\*10-32 seal is neoprene

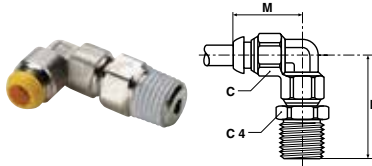
### W169PLPNS Male Elbow 90°



| PART NO.         | TUBE (IN) | PIPE THD (NPTF) | L    | N    | FLOW DIA. D |
|------------------|-----------|-----------------|------|------|-------------|
| W169PLPNS-2-2    | 1/8       | 1/8             | .74  | .67  | .094        |
| W169PLPNS5/32-2  | 5/32      | 1/8             | .77  | .67  | .125        |
| W169PLPNS5/32-4  | 5/32      | 1/4             | .77  | .87  | .125        |
| W169PLPNS-4-2    | 1/4       | 1/8             | .85  | .67  | .188        |
| W169PLPNS-4-4    | 1/4       | 1/4             | .85  | .87  | .188        |
| W169PLPNS-5-2    | 5/16      | 1/8             | .97  | .75  | .234        |
| W169PLPNS-5-4    | 5/16      | 1/4             | .97  | .94  | .250        |
| W169PLPNS-6-4    | 3/8       | 1/4             | 1.01 | .94  | .312        |
| W169PLPNS-6-6    | 3/8       | 3/8             | 1.01 | 1.01 | .312        |
| W169PLPNS-6-8    | 3/8       | 1/2             | 1.01 | 1.27 | .312        |
| W169PLPNS-8-6    | 1/2       | 3/8             | 1.15 | 1.00 | .375        |
| W169PLPNS-8-8    | 1/2       | 1/2             | 1.15 | 1.27 | .375        |
| 169PLPNS532-4LT* | 5/32      | 1/4-28          | .60  | .48  | .090        |

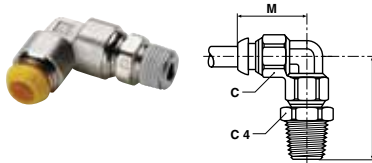
\* SAE-LT Threads

### C6PB Adjustable Male Elbow NPT



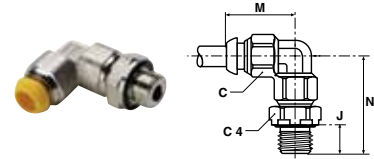
| PART NO.   | TUBE SIZE (MM) | NPT    | C HEX | C4 HEX | M  | N    |
|------------|----------------|--------|-------|--------|----|------|
| C6PB6-1/4  | 6              | 1/4-18 | 12    | 14     | 20 | 36.0 |
| C6PB6-3/8  | 6              | 3/8-18 | 12    | 19     | 20 | 36.5 |
| C6PB10-1/4 | 10             | 1/4-18 | 17    | 16     | 28 | 41.5 |
| C6PB10-3/8 | 10             | 3/8-18 | 17    | 19     | 28 | 41.5 |
| C6PB12-1/2 | 12             | 1/2-14 | 22    | 22     | 30 | 47.5 |

### C63PB Adjustable Male Elbow BSPT



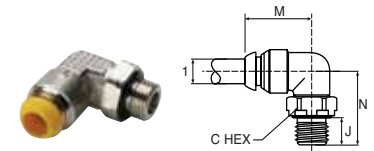
| PART NO.    | TUBE SIZE (MM) | BSPT | C HEX | C4 HEX | M  | N    |
|-------------|----------------|------|-------|--------|----|------|
| C63PB4-1/8  | 4              | 1/8  | 10    | 10     | 18 | 26.5 |
| C63PB4-1/4  | 4              | 1/4  | 10    | 14     | 18 | 30.0 |
| C63PB6-1/8  | 6              | 1/8  | 12    | 11     | 20 | 28.0 |
| C63PB6-1/4  | 6              | 1/4  | 12    | 14     | 20 | 31.0 |
| C63PB8-1/8  | 8              | 1/8  | 14    | 14     | 22 | 30.0 |
| C63PB8-1/4  | 8              | 1/4  | 14    | 14     | 22 | 33.0 |
| C63PB8-3/8  | 8              | 3/8  | 14    | 17     | 22 | 34.5 |
| C63PB10-1/4 | 10             | 1/4  | 17    | 17     | 28 | 40.0 |
| C63PB10-3/8 | 10             | 3/8  | 17    | 17     | 28 | 39.0 |
| C63PB12-1/4 | 12             | 1/4  | 22    | 19     | 30 | 42.0 |
| C63PB12-3/8 | 12             | 3/8  | 22    | 19     | 30 | 41.0 |
| C63PB12-1/2 | 12             | 1/2  | 22    | 22     | 30 | 44.5 |
| C63PB14-3/8 | 14             | 3/8  | 25    | 22     | 34 | 46.0 |
| C63PB14-1/2 | 14             | 1/2  | 25    | 22     | 34 | 48.5 |

### C64PB Adjustable Male Elbow BSPP



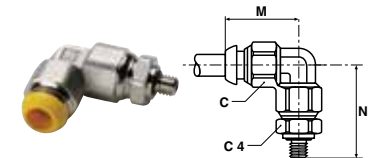
| PART NO.    | TUBE SIZE (MM) | BSPP | C HEX | C4 HEX | J   | M  | N    |
|-------------|----------------|------|-------|--------|-----|----|------|
| C64PB4-1/8  | 4              | 1/8  | 10    | 13     | 4.7 | 18 | 23.4 |
| C64PB4-1/4  | 4              | 1/4  | 10    | 16     | 6.0 | 18 | 25.2 |
| C64PB6-1/8  | 6              | 1/8  | 12    | 13     | 4.7 | 20 | 26.1 |
| C64PB6-1/4  | 6              | 1/4  | 12    | 16     | 6.0 | 20 | 26.4 |
| C64PB8-1/8  | 8              | 1/8  | 14    | 13     | 4.7 | 22 | 28.1 |
| C64PB8-1/4  | 8              | 1/4  | 14    | 16     | 6.0 | 22 | 28.4 |
| C64PB8-3/8  | 8              | 3/8  | 14    | 20     | 6.5 | 22 | 30.6 |
| C64PB10-1/4 | 10             | 1/4  | 17    | 16     | 6.0 | 28 | 34.9 |
| C64PB10-3/8 | 10             | 3/8  | 17    | 20     | 6.5 | 28 | 37.4 |
| C64PB12-1/4 | 12             | 1/4  | 22    | 19     | 6.0 | 30 | 36.5 |
| C64PB12-3/8 | 12             | 3/8  | 22    | 22     | 6.5 | 30 | 39.0 |
| C64PB12-1/2 | 12             | 1/2  | 22    | 24     | 7.5 | 30 | 38.5 |
| C64PB14-3/8 | 14             | 3/8  | 25    | 22     | 6.5 | 34 | 44.7 |
| C64PB14-1/2 | 14             | 1/2  | 25    | 24     | 7.5 | 34 | 44.3 |

### C64SPB Compact Adjustable Male Elbow BSPP



| PART NUMBER  | TUBE SIZE (MM) | BSPP | C HEX | J   | M  | N    |
|--------------|----------------|------|-------|-----|----|------|
| C64SPB4-1/8  | 4              | 1/8  | 13    | 4.7 | 17 | 17.3 |
| C64SPB6-1/8  | 6              | 1/8  | 13    | 4.7 | 22 | 17.3 |
| C64SPB6-1/4  | 6              | 1/4  | 16    | 6.0 | 22 | 19.1 |
| C64SPB8-1/8  | 8              | 1/8  | 13    | 4.7 | 24 | 16.9 |
| C64SPB8-1/4  | 8              | 1/4  | 16    | 6.0 | 24 | 18.7 |
| C64SPB8-3/8  | 8              | 3/8  | 20    | 6.5 | 24 | 20.7 |
| C64SPB10-1/4 | 10             | 1/4  | 16    | 6.0 | 29 | 20.5 |
| C64SPB10-3/8 | 10             | 3/8  | 20    | 6.5 | 29 | 22.5 |
| C64SPB12-1/4 | 12             | 1/4  | 16    | 6.0 | 31 | 20.5 |
| C64SPB12-3/8 | 12             | 3/8  | 20    | 6.5 | 31 | 23.2 |
| C64SPB12-1/2 | 12             | 1/2  | 24    | 7.5 | 31 | 25.2 |

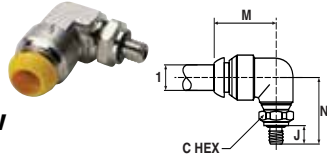
### C68PB Adjustable Male Elbow Metric Straight Thread



| PART NO. | TUBE SIZE (MM) | THREAD (MM) | C HEX | C4 HEX | M  | N  |
|----------|----------------|-------------|-------|--------|----|----|
| C68PB4M5 | 4              | M5X0.8      | 11    | 10     | 17 | 18 |
| C68PB6M5 | 6              | M5X0.8      | 11    | 10     | 17 | 18 |

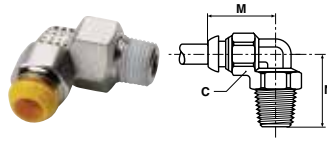
A

### C68SPB Compact Adjustable Male Elbow Metric Straight Thread

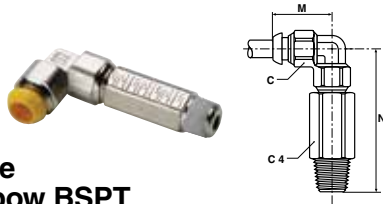


| PART NUMBER | TUBE SIZE (MM) | THREAD (MM) | C HEX | J | M  | N  |
|-------------|----------------|-------------|-------|---|----|----|
| C68SPB4M5   | 4              | M5X0.8      | 12.5  | 5 | 17 | 18 |
| C68SPB6M5   | 6              | M5X0.8      | 12.5  | 5 | 17 | 18 |

### C3PB Compact Elbow BSPT



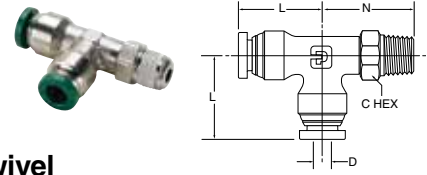
| PART NO.   | TUBE SIZE (MM) | BSPT | C HEX | M  | N  |
|------------|----------------|------|-------|----|----|
| C3PB4-1/8  | 4              | 1/8  | 14    | 18 | 21 |
| C3PB6-1/8  | 6              | 1/8  | 14    | 20 | 21 |
| C3PB6-1/4  | 6              | 1/4  | 14    | 20 | 21 |
| C3PB8-1/8  | 8              | 1/8  | 14    | 22 | 23 |
| C3PB8-1/4  | 8              | 1/4  | 14    | 22 | 23 |
| C3PB10-1/4 | 10             | 1/4  | 17    | 28 | 26 |
| C3PB10-3/8 | 10             | 3/8  | 17    | 28 | 26 |
| C3PB12-3/8 | 12             | 3/8  | 17    | 30 | 27 |
| C3PB12-1/2 | 12             | 1/2  | 17    | 30 | 31 |



### C63LPB Adjustable Extended Male Elbow BSPT

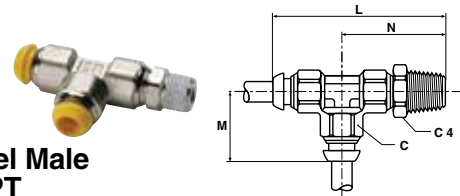
| PART NO.    | TUBE SIZE (MM) | BSPT | C HEX | C4 HEX | M  | N    |
|-------------|----------------|------|-------|--------|----|------|
| C63LPB4-1/8 | 4              | 1/8  | 10    | 10     | 18 | 42.0 |
| C63LPB4-1/4 | 4              | 1/4  | 10    | 14     | 18 | 46.0 |
| C63LPB6-1/8 | 6              | 1/8  | 12    | 11     | 20 | 45.5 |
| C63LPB6-1/4 | 6              | 1/4  | 12    | 14     | 20 | 49.5 |
| C63LPB8-1/8 | 8              | 1/8  | 14    | 14     | 22 | 50.0 |
| C63LPB8-1/4 | 8              | 1/4  | 14    | 14     | 22 | 52.5 |

### W171PLP Male Run Tee Swivel

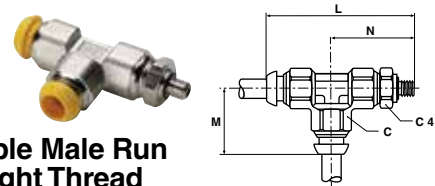


| PART NO.       | TUBE SIZE (IN) | PIPE THREAD (NPTF) | C HEX | L    | N    | FLOW DIA. D |
|----------------|----------------|--------------------|-------|------|------|-------------|
| W171PLP-2-2    | 1/8            | 1/8                | 7/16  | .74  | .92  | .094        |
| W171PLP-5/32-2 | 5/32           | 1/8                | 7/16  | .77  | .92  | .125        |
| W171PLP-4-2    | 1/4            | 1/8                | 7/16  | .85  | .92  | .156        |
| W171PLP-4-4    | 1/4            | 1/4                | 9/16  | .85  | 1.10 | .156        |
| W171PLP-4-6    | 1/4            | 3/8                | 11/16 | .85  | 1.24 | .156        |
| W171PLP-5-2    | 5/16           | 1/8                | 9/16  | .97  | 1.02 | .250        |
| W171PLP-5-4    | 5/16           | 1/4                | 9/16  | .97  | 1.24 | .250        |
| W171PLP-6-4    | 3/8            | 1/4                | 9/16  | 1.01 | 1.24 | .250        |
| W171PLP-6-6    | 3/8            | 3/8                | 11/16 | 1.01 | 1.24 | .250        |
| W171PLP-8-6    | 1/2            | 3/8                | 11/16 | 1.15 | 1.31 | .312        |
| W171PLP-8-8    | 1/2            | 1/2                | 7/8   | 1.15 | 1.52 | .312        |

### R63PB Swivel Male Run Tee BSPT

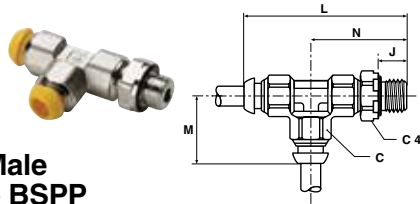


| PART NO.    | TUBE SIZE (MM) | BSPT | C HEX | C4 HEX | L    | M  | N    |
|-------------|----------------|------|-------|--------|------|----|------|
| R63PB4-1/8  | 4              | 1/8  | 10    | 10     | 44.5 | 18 | 26.5 |
| R63PB4-1/4  | 4              | 1/4  | 10    | 14     | 48.0 | 18 | 30.0 |
| R63PB6-1/8  | 6              | 1/8  | 12    | 11     | 48.0 | 20 | 28.0 |
| R63PB6-1/4  | 6              | 1/4  | 12    | 14     | 51.0 | 20 | 31.0 |
| R63PB8-1/8  | 8              | 1/8  | 14    | 14     | 52.0 | 22 | 30.0 |
| R63PB8-1/4  | 8              | 1/4  | 14    | 14     | 55.0 | 22 | 33.0 |
| R63PB8-3/8  | 8              | 3/8  | 14    | 17     | 56.5 | 22 | 34.5 |
| R63PB10-1/4 | 10             | 1/4  | 17    | 17     | 68.0 | 28 | 40.0 |
| R63PB10-3/8 | 10             | 3/8  | 17    | 17     | 67.0 | 28 | 39.0 |
| R63PB12-1/4 | 12             | 1/4  | 22    | 19     | 72.0 | 30 | 42.0 |
| R63PB12-3/8 | 12             | 3/8  | 22    | 19     | 71.0 | 30 | 41.0 |
| R63PB12-1/2 | 12             | 1/2  | 22    | 22     | 74.5 | 30 | 44.5 |
| R63PB14-3/8 | 14             | 3/8  | 25    | 22     | 80.0 | 34 | 46.0 |
| R63PB14-1/2 | 14             | 1/2  | 25    | 22     | 82.5 | 34 | 48.5 |



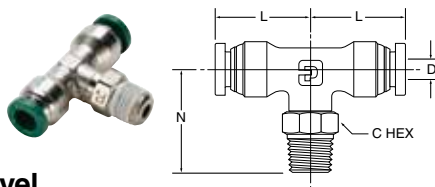
### R68PB Adjustable Male Run Tee Metric Straight Thread

| PART NO. | TUBE SIZE (MM) | THREAD (MM) | C HEX | C4 HEX | L    | M  | N    |
|----------|----------------|-------------|-------|--------|------|----|------|
| R68PB4M3 | 4              | M3X0.5      | 10    | 10     | 41.0 | 18 | 23.0 |
| R68PB4M5 | 4              | M5X0.8      | 10    | 10     | 42.5 | 18 | 24.5 |
| R68PB6M5 | 6              | M5X0.8      | 12    | 11     | 45.5 | 20 | 25.5 |



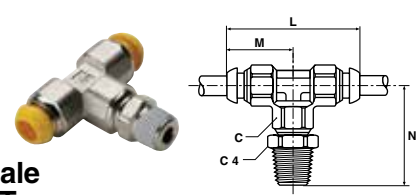
**R64PB Swivel Male  
Branch Run Tee BSPP**

| PART NO.    | TUBE SIZE (MM) | BSPP | C HEX | C4 HEX | J   | L    | M  | N    |
|-------------|----------------|------|-------|--------|-----|------|----|------|
| R64PB4-1/8  | 4              | 1/8  | 10    | 13     | 4.7 | 41.4 | 18 | 23.4 |
| R64PB4-1/4  | 4              | 1/4  | 10    | 16     | 6.0 | 43.2 | 18 | 25.2 |
| R64PB6-1/8  | 6              | 1/8  | 12    | 13     | 4.7 | 46.1 | 20 | 26.1 |
| R64PB6-1/4  | 6              | 1/4  | 12    | 16     | 6.0 | 46.4 | 20 | 26.4 |
| R64PB8-1/8  | 8              | 1/8  | 14    | 13     | 4.7 | 50.1 | 22 | 28.1 |
| R64PB8-1/4  | 8              | 1/4  | 14    | 16     | 6.0 | 50.4 | 22 | 28.4 |
| R64PB8-3/8  | 8              | 3/8  | 14    | 20     | 6.5 | 52.6 | 22 | 30.6 |
| R64PB10-1/4 | 10             | 1/4  | 17    | 16     | 6.0 | 62.9 | 28 | 34.9 |
| R64PB10-3/8 | 10             | 3/8  | 17    | 20     | 6.5 | 65.4 | 28 | 37.4 |
| R64PB12-1/4 | 12             | 1/4  | 22    | 19     | 6.0 | 65.5 | 29 | 36.5 |
| R64PB12-3/8 | 12             | 3/8  | 22    | 22     | 6.5 | 68.0 | 29 | 39.0 |
| R64PB14-1/2 | 14             | 1/2  | 25    | 24     | 7.5 | 78.3 | 34 | 44.3 |



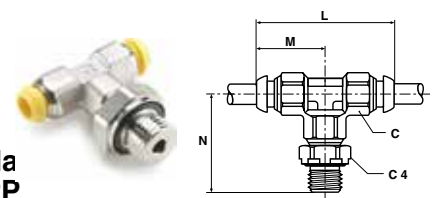
**W172PLP Male  
Branch Tee Swivel**

| PART NO.       | TUBE SIZE (IN) | PIPE THREAD (NPTF) | C HEX | L    | N    | FLOW DIA. D |
|----------------|----------------|--------------------|-------|------|------|-------------|
| W172PLP-2-2    | 1/8            | 1/8                | 7/16  | .74  | .92  | .094        |
| W172PLP-3-2    | 3/16           | 1/8                | 7/16  | .82  | .92  | .156        |
| W172PLP-5/32-2 | 5/32           | 1/8                | 7/16  | .77  | .92  | .125        |
| W172PLP-4-2    | 1/4            | 1/8                | 7/16  | .85  | .92  | .156        |
| W172PLP-4-4    | 1/4            | 1/4                | 9/16  | .85  | 1.10 | .156        |
| W172PLP-4-6    | 1/4            | 3/8                | 11/16 | .85  | 1.10 | .156        |
| W172PLP-5-2    | 5/16           | 1/8                | 9/16  | .97  | 1.02 | .250        |
| W172PLP-5-4    | 5/16           | 1/4                | 9/16  | .97  | 1.24 | .250        |
| W172PLP-6-4    | 3/8            | 1/4                | 9/16  | 1.01 | 1.24 | .250        |
| W172PLP-6-6    | 3/8            | 3/8                | 11/16 | 1.01 | 1.24 | .250        |
| W172PLP-6-8    | 3/8            | 1/2                | 7/8   | 1.00 | 1.48 | .250        |
| W172PLP-8-4    | 1/2            | 1/4                | 9/16  | 1.15 | 1.30 | .312        |
| W172PLP-8-6    | 1/2            | 3/8                | 11/16 | 1.15 | 1.31 | .312        |
| W172PLP-8-8    | 1/2            | 1/2                | 7/8   | 1.15 | 1.52 | .312        |



**S63PB Swivel Male  
Branch Tee BSPT**

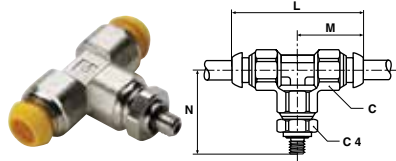
| PART NO.    | TUBE SIZE (MM) | BSPT | C HEX | C4 HEX | L  | M  | N    |
|-------------|----------------|------|-------|--------|----|----|------|
| S63PB4-1/8  | 4              | 1/8  | 10    | 10     | 36 | 18 | 26.5 |
| S63PB4-1/4  | 4              | 1/4  | 10    | 14     | 36 | 18 | 30.0 |
| S63PB6-1/8  | 6              | 1/8  | 12    | 11     | 40 | 20 | 28.0 |
| S63PB6-1/4  | 6              | 1/4  | 12    | 14     | 40 | 20 | 31.0 |
| S63PB8-1/8  | 8              | 1/8  | 14    | 14     | 44 | 22 | 30.0 |
| S63PB8-1/4  | 8              | 1/4  | 14    | 14     | 44 | 22 | 33.0 |
| S63PB8-3/8  | 8              | 3/8  | 14    | 17     | 44 | 22 | 34.5 |
| S63PB10-1/4 | 10             | 1/4  | 17    | 17     | 56 | 28 | 40.0 |
| S63PB10-3/8 | 10             | 3/8  | 17    | 17     | 56 | 28 | 39.0 |
| S63PB12-1/4 | 12             | 1/4  | 22    | 19     | 60 | 30 | 42.0 |
| S63PB12-3/8 | 12             | 3/8  | 22    | 19     | 60 | 30 | 41.0 |
| S63PB12-1/2 | 12             | 1/2  | 22    | 22     | 60 | 30 | 44.5 |
| S63PB14-3/8 | 14             | 3/8  | 25    | 22     | 68 | 34 | 46.0 |
| S63PB14-1/2 | 14             | 1/2  | 25    | 22     | 68 | 34 | 48.5 |



**S64PB Swivel Male  
Branch Tee BSPP**

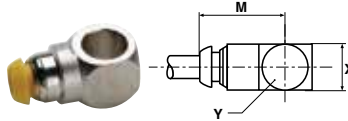
| PART NO.    | TUBE SIZE (MM) | BSPP | C HEX | C4 HEX | L  | M  | N    |
|-------------|----------------|------|-------|--------|----|----|------|
| S64PB4-1/8  | 4              | 1/8  | 10    | 13     | 36 | 18 | 23.4 |
| S64PB4-1/4  | 4              | 1/4  | 10    | 16     | 36 | 18 | 25.2 |
| S64PB6-1/8  | 6              | 1/8  | 12    | 13     | 40 | 20 | 26.1 |
| S64PB6-1/4  | 6              | 1/4  | 12    | 16     | 40 | 20 | 26.4 |
| S64PB8-1/8  | 8              | 1/8  | 14    | 13     | 44 | 22 | 28.1 |
| S64PB8-1/4  | 8              | 1/4  | 14    | 16     | 44 | 22 | 28.4 |
| S64PB8-3/8  | 8              | 3/8  | 14    | 20     | 44 | 22 | 30.6 |
| S64PB10-1/4 | 10             | 1/4  | 17    | 16     | 56 | 28 | 34.9 |
| S64PB10-3/8 | 10             | 3/8  | 17    | 20     | 56 | 28 | 37.4 |
| S64PB12-1/4 | 12             | 1/4  | 22    | 19     | 58 | 29 | 36.5 |
| S64PB12-3/8 | 12             | 3/8  | 22    | 22     | 58 | 29 | 39.0 |
| S64PB14-3/8 | 14             | 3/8  | 25    | 22     | 68 | 34 | 44.7 |
| S64PB14-1/2 | 14             | 1/2  | 25    | 24     | 68 | 34 | 44.3 |

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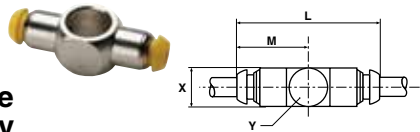
### S68PB Adjustable Male Branch Tee Metric Straight Thread

| PART NO. | TUBE SIZE (MM) | THREAD (MM) | C HEX | C4 HEX | L  | M  | N    |
|----------|----------------|-------------|-------|--------|----|----|------|
| S68PB4M3 | 4              | M3X0.5      | 10    | 10     | 36 | 18 | 23.0 |
| S68PB4M5 | 4              | M5X0.8      | 10    | 10     | 36 | 18 | 24.5 |
| S68PB6M5 | 6              | M5X0.8      | 12    | 11     | 40 | 20 | 25.5 |



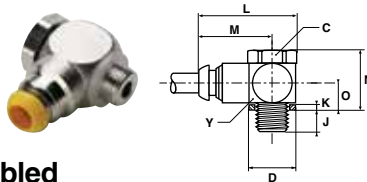
### CORPB Single Banjo Body Only

| PART NO.   | TUBE SIZE (MM) | SINGLE BOLT PART NO. | STACKING BOLT PN. | M    | X  | Y  |
|------------|----------------|----------------------|-------------------|------|----|----|
| CORPB4-5   | 4              | SC8UM5-4             | SC8UDM5-4         | 19.0 | 10 | 10 |
| CORPB4-10  | 4              | SC4U1/8-4            | SC4UD1/8-4        | 22.5 | 14 | 14 |
| CORPB6-10  | 6              | SC4U1/8-4            | SC4UD1/8-4        | 23.0 | 14 | 14 |
| CORPB6-13  | 6              | SC4U1/4-6            | SC4UD1/4-6        | 24.5 | 14 | 17 |
| CORPB8-10  | 8              | SC4U1/8-4            | SC4UD1/8-4        | 24.0 | 14 | 14 |
| CORPB8-13  | 8              | SC4U1/4-6            | SC4UD1/4-6        | 25.5 | 14 | 17 |
| CORPB10-17 | 10             | SC4U3/8-10           | SC4UD3/8-10       | 32.0 | 17 | 22 |



### CORPBD Double Banjo Body Only

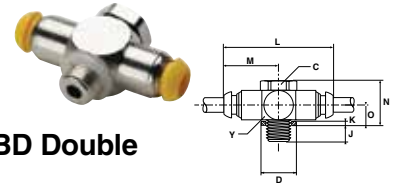
| PART NO.  | TUBE SIZE (MM) | SINGLE BOLT PN. | STACKING BOLT PN. | L  | M    | X  | Y  |
|-----------|----------------|-----------------|-------------------|----|------|----|----|
| CORPB4D5  | 4              | SC8UM5-4        | SC8UDM5-4         | 38 | 19.0 | 10 | 10 |
| CORPB4D10 | 4              | SC4U1/8-4       | SC4UD1/8-4        | 45 | 22.5 | 14 | 14 |
| CORPB6D13 | 6              | SC4U1/4-6       | SC4UD1/4-6        | 49 | 24.5 | 14 | 17 |
| CORPB8D10 | 8              | SC4U1/8-4       | SC4UD1/8-4        | 48 | 24.0 | 14 | 14 |



### COR8PB/COR4PB Single Banjo Assembled

| PART NO.     | TUBE (MM) | BSPP   | C HEX | D    | J   | K   | L    | M    | N    | O    | Y  |
|--------------|-----------|--------|-------|------|-----|-----|------|------|------|------|----|
| COR8PB4M5    | 4         | M5X0.8 | 8     | 8.2  | 4.5 | 1.0 | 24.0 | 19.0 | 13.5 | 6.0  | 10 |
| COR4PB4-1/8  | 4         | 1/8    | 14    | 14.4 | 6.0 | 1.5 | 29.5 | 22.5 | 19.5 | 8.5  | 14 |
| COR4PB6-1/8  | 6         | 1/8    | 14    | 14.4 | 6.0 | 1.5 | 30.0 | 23.0 | 19.5 | 8.5  | 14 |
| COR4PB6-1/4  | 6         | 1/4    | 17    | 18.4 | 9.0 | 2.0 | 33.0 | 24.5 | 21.0 | 9.0  | 17 |
| COR4PB8-1/8  | 8         | 1/8    | 14    | 14.4 | 6.0 | 1.5 | 31.0 | 34.0 | 19.5 | 8.5  | 14 |
| COR4PB8-1/4  | 8         | 1/4    | 17    | 18.4 | 9.0 | 2.0 | 34.0 | 25.5 | 21.0 | 9.0  | 17 |
| COR4PB10-3/8 | 10        | 3/8    | 22    | 21.6 | 9.0 | 2.5 | 43.0 | 32.0 | 25.5 | 11.0 | 22 |

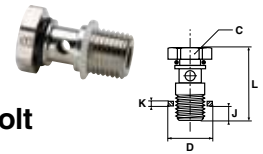
These parts are delivered complete with sealing washer.



### COR8PBD/COR4PBD Double Banjo Assembled

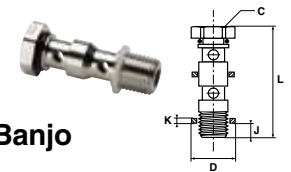
| PART NO.    | TUBE SIZE (MM) | BSPP   | C HEX | D    | J   | K   | L  | M    | N    | O   | Y  |
|-------------|----------------|--------|-------|------|-----|-----|----|------|------|-----|----|
| COR8PB4DM5  | 4              | M5X0.8 | 8     | 8.2  | 4.5 | 1.0 | 38 | 19.0 | 13.5 | 6.0 | 10 |
| COR4PB4D1/8 | 4              | 1/8    | 14    | 14.4 | 6.0 | 1.5 | 45 | 22.5 | 19.5 | 8.5 | 14 |
| COR4PB6D1/8 | 6              | 1/8    | 14    | 14.4 | 6.0 | 1.5 | 46 | 23.0 | 19.5 | 8.5 | 14 |
| COR4PB6D1/4 | 6              | 1/4    | 17    | 18.4 | 9.0 | 2.0 | 49 | 24.5 | 21.0 | 9.0 | 17 |
| COR4PB8D1/8 | 8              | 1/8    | 14    | 14.4 | 6.0 | 1.5 | 48 | 24.0 | 19.5 | 8.5 | 14 |

These parts are delivered complete with sealing washer.



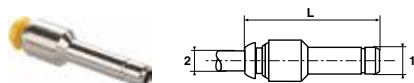
### SC8U/SC4U Single Banjo Bolt with Seals BSPP

| PART NO.   | BSPP   | C HEX | D    | J   | K   | L    |
|------------|--------|-------|------|-----|-----|------|
| SC8UM5-4   | M5X0.8 | 8     | 8.2  | 4.5 | 1.0 | 18.5 |
| SC4U1/8-4  | 1/8    | 14    | 14.4 | 6.0 | 1.5 | 25.5 |
| SC4U1/4-6  | 1/4    | 17    | 18.4 | 9.0 | 2.0 | 30.0 |
| SC4U3/8-10 | 3/8    | 22    | 21.6 | 9.0 | 2.5 | 34.5 |

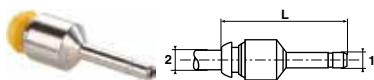


### SC8UD/SC4UD Stacking Banjo Bolt with Seals BSPP

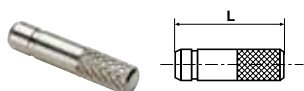
| PART NO.   | BSPP   | C HEX | D    | J   | K   | L    |
|------------|--------|-------|------|-----|-----|------|
| SC8UDM5-4  | M5X0.8 | 8     | 8.2  | 4.5 | 1.0 | 29.5 |
| SC4UD1/8-4 | 1/8    | 14    | 14.4 | 6.0 | 1.5 | 41.0 |
| SC4UD1/4-6 | 1/4    | 17    | 18.4 | 9.0 | 2.0 | 46.0 |

**TRPB Tube End Reducer**

| PART NO.  | TUBE 1 SIZE (MM) | TUBE 2 SIZE (MM) | L    |
|-----------|------------------|------------------|------|
| TRPB6-4   | 6                | 4                | 40.0 |
| TRPB8-4   | 8                | 4                | 39.5 |
| TRPB8-6   | 8                | 6                | 41.5 |
| TRPB10-4  | 10               | 4                | 37.0 |
| TRPB10-6  | 10               | 6                | 43.0 |
| TRPB10-8  | 10               | 8                | 47.5 |
| TRPB12-6  | 12               | 6                | 38.0 |
| TRPB12-8  | 12               | 8                | 44.0 |
| TRPB12-10 | 12               | 10               | 52.0 |
| TRPB14-8  | 14               | 8                | 41.0 |
| TRPB14-10 | 14               | 10               | 51.0 |
| TRPB14-12 | 14               | 12               | 55.0 |

**TEPB Tube End Expander**

| PART NO. | TUBE 1 SIZE (MM) | TUBE 2 SIZE (MM) | L  |
|----------|------------------|------------------|----|
| TEPB4-6  | 4                | 6                | 39 |

**FNPB Plug**

| PART NO. | TUBE SIZE (MM) | L  |
|----------|----------------|----|
| FNPB4    | 4              | 27 |
| FNPB6    | 6              | 27 |
| FNPB8    | 8              | 30 |
| FNPB10   | 10             | 30 |
| FNPB12   | 12             | 35 |
| FNPB14   | 14             | 36 |

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|                     |                                                                                                                                         |                                                                                                                                         |                                                                                                                                         |                                                                                                                                     |                                                                                                                                              |                                                                                                                                               |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Tube to Male NPTF   | <b>W369PLP</b><br>Male Elbow<br><br>p. A20             | <b>W369PLPX</b><br>Extended Male Elbow<br><br>p. A21   | <b>W379PLP</b><br>45° Male Elbow<br><br>p. A22         | <b>W372PLP</b><br>Male Branch Tee<br><br>p. A23   | <b>W371PLP</b><br>Male Run Tee<br><br>p. A24              | <b>W368PLP</b><br>Male Y Connector<br><br>p. A26           |
|                     | <b>W369PLPBJ</b><br>Single Banjo<br><br>p. A27         | <b>W369PLPTJ</b><br>Twin Banjo<br><br>p. A29           | Tube to Male BSPT                                                                                                                       | <b>W369PLP</b><br>Male Elbow<br><br>p. A20         | <b>W372PLP</b><br>Male Branch Tee<br><br>p. A23            | <b>W369PLPBJ</b><br>Single Banjo<br><br>p. A27             |
| Tube to Female NPTF | <b>377PLP</b><br>Female Branch Tee<br><br>p. A24       | <b>370PLP</b><br>Female Elbow<br><br>p. A27            |                                                                                                                                         | Tube to Tube                                                                                                                        | <b>32PLP</b><br>Union<br><br>p. A30                        | <b>365PLP</b><br>Union Elbow<br><br>p. A30                 |
|                     | <b>362PLP</b><br>Union Y<br><br>p. A31                | <b>362PLPD</b><br>Double Y<br><br>p. A32              | <b>24PLP</b><br>Multiple Tee<br><br>p. A32            |                                                                                                                                     | <b>32PLP</b><br>Union<br><br>p. A30                        | <b>365PLP</b><br>Union Elbow<br><br>p. A30                 |
| Tube to Metric Tube | <b>362PLPD</b><br>Double Y<br><br>p. A32              | <b>24PLP</b><br>Multiple Tee<br><br>p. A32            | <b>24PLPD</b><br>Double Multiple Tee<br><br>p. A33    | <b>347PLP</b><br>Cross<br><br>p. A33             | <b>32PLPRC</b><br>Connector for 2 Tubes<br><br>p. A37    | <b>32PLPDRC</b><br>Connector for 3 Tubes<br><br>p. A37    |
|                     | <b>32PLP</b><br>Converter<br><br>p. A30              | Bulkhead Unions                                                                                                                         | <b>32PLPBH</b><br>Bulkhead Union<br><br>p. A32       | <b>365PLPBH</b><br>Bulkhead Elbow<br><br>p. A32 | <b>32PLPBHP</b><br>Plug-in Bulkhead Union<br><br>p. A38 |                                                                                                                                               |
| Standpipes          | <b>W68PLPSP</b><br>Male Standpipe NPTF<br><br>p. A25 | <b>W68PLPSP</b><br>Male Standpipe BSPT<br><br>p. A25 | <b>W68PLPSP</b><br>Male Standpipe BSPP<br><br>p. A25 | Plug-ins                                                                                                                            | <b>369PLPSP</b><br>Plug-In Elbow<br><br>p. A33          | <b>369PLPSPX</b><br>Extended Plug-In Elbow<br><br>p. A34 |
|                     | <b>379PLPSP</b><br>Plug-In 45° Elbow<br><br>p. A34   | <b>372PLPSP</b><br>Plug-In Branch Tee<br><br>p. A34  | <b>371PLPSP</b><br>Plug-In Run Tee<br><br>p. A34     |                                                                                                                                     | <b>32PLPSP</b><br>Tube Expander<br><br>p. A36           | <b>322PLPSP</b><br>Barbed Connector<br><br>p. A37        |
| Auxiliary Component | <b>63PLP</b><br>Double Male Union<br><br>p. A35      | <b>639PLP</b><br>Plug<br><br>p. A36                  | Metric Tube to Male BSPT                                                                                                                | <b>W369PLP</b><br>Male Elbow<br><br>p. A20      | <b>W369PLPX</b><br>Extended Male Elbow<br><br>p. A21    | <b>W379PLP</b><br>45° Male Elbow<br><br>p. A22           |
|                     |                                                                                                                                         |                                                                                                                                         |                                                                                                                                         |                                                                                                                                     |                                                                                                                                              |                                                                                                                                               |

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|                                                                                                                                          |                                                                                                                                       |                                                                                                                                             |                                                                                                                                            |                                                                                                                                         |                                                                                                                                       |                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>W372PLP</b><br>Male Branch Tee<br><br>p. A23         | <b>W371PLP</b><br>Male Run Tee<br><br>p. A24         | <b>W368PLP</b><br>Male Y Connector<br><br>p. A26           | <b>W368PLPD</b><br>Double Y Male Connector<br><br>p. A26  | <b>W369PLPBJ</b><br>Single Banjo<br><br>p. A27        |                                                                                                                                       |                                                                                                                                      |
| <b>Metric Tube to Male BSPP</b><br><br>p. A21           | <b>369PLP</b><br>Male Elbow<br><br>p. A22            | <b>369PLPX</b><br>Extended Male Elbow<br><br>p. A22        | <b>379PLP</b><br>45° Male Elbow<br><br>p. A22             | <b>372PLP</b><br>Male Branch Tee<br><br>p. A24        | <b>371PLP</b><br>Male Run Tee<br><br>p. A25        | <b>368PLP</b><br>Male Y Connector<br><br>p. A26   |
| <b>368PLPD</b><br>Double Y Male Connector<br><br>p. A27 | <b>Metric Tube to NPTF</b><br><br>p. A20             | <b>W369PLP</b><br>Male Elbow<br><br>p. A20                 | <b>W372PLP</b><br>Male Branch Tee<br><br>p. A23           | <b>Metric Tube to Female BSPP</b><br><br>p. A27      |                                                                                                                                       |                                                                                                                                      |
| <b>Metric Tube to Metric Tube</b><br><br>p. A30         | <b>32PLP</b><br>Union<br><br>p. A30                  | <b>365PLP</b><br>Union Elbow<br><br>p. A30                 | <b>364PLP</b><br>Union Tee<br><br>p. A31                  | <b>362PLP</b><br>Union Y<br><br>p. A31                | <b>362PLPD</b><br>Double Union Y<br><br>p. A32     | <b>24PLP</b><br>Multiple Tee<br><br>p. A32        |
| <b>24PLPD</b><br>Double Multiple Tee<br><br>p. A33    | <b>347PLP</b><br>Cross<br><br>p. A33               | <b>32PLPRC</b><br>Connector for 2 Tubes<br><br>p. A37    | <b>32PLPDRC</b><br>Connector for 3 Tubes<br><br>p. A37  | <b>Metric Bulkhead Unions</b><br><br>p. A32        | <b>32PLPBH</b><br>Bulkhead Union<br><br>p. A32   | <b>365PLPBH</b><br>Bulkhead Elbow<br><br>p. A32 |
| <b>Metric Plug-ins</b><br><br>p. A33                  | <b>369PLPSP</b><br>Plug-In Elbow<br><br>p. A33     | <b>369PLPSPX</b><br>Extended Plug-In Elbow<br><br>p. A34 | <b>379PLPSP</b><br>Plug-In 45° Male Elbow<br><br>p. A34 | <b>372PLPSP</b><br>Plug-In Branch Tee<br><br>p. A34 | <b>371PLPSP</b><br>Plug-In Run Tee<br><br>p. A35 | <b>362PLPSP</b><br>Plug-In Y<br><br>p. A35      |
| <b>362PLPSPD</b><br>Double Plug-In Y<br><br>p. A35    | <b>67PLP</b><br>Tube Reducer<br><br>p. A36         | <b>32PLPSP</b><br>Tube Expander<br><br>p. A36            | <b>32PLPSP</b><br>Tube Converter<br><br>p. A36          | <b>322PLPSP</b><br>Barbed Connector<br><br>p. A37   | <b>Metric Banjo Fittings</b><br><br>p. A28       | <b>369PLPBJ</b><br>Single Banjo<br><br>p. A28   |
| <b>369PLPBJB</b><br>Single Banjo Body<br><br>p. A28   | <b>32PLPDJB</b><br>Double Banjo Body<br><br>p. A28 | <b>369PLPTJB</b><br>Twin Banjo Body<br><br>p. A28        | <b>68BJB</b><br>Single Banjo Bolt<br><br>p. A28         | <b>68BJBD</b><br>Double Banjo Bolt<br><br>p. A29    | <b>68BJBT</b><br>Triple Banjo Bolt<br><br>p. A29 | <b>66BJB</b><br>Female Banjo Bolt<br><br>p. A29 |

A

**376PLPBJ**  
Banjo with Female Bolt



p. A29

**369PLPTJ**  
Twin Banjo



p. A29

**32PLPDJ**  
Double Banjo



p. A29

Auxiliary  
Component

**63PLP**  
Double Male Union



p. A35

**639PLP**  
Plug



p. A37



# Prestolok Composite Fittings

A

| MATERIALS OF CONSTRUCTION |                                                                                                     |
|---------------------------|-----------------------------------------------------------------------------------------------------|
| BODY:                     | GLASS REINFORCED NYLON 6.6                                                                          |
| COLLAR:                   | NYLON                                                                                               |
| GRIPPING RING:            | STAINLESS STEEL                                                                                     |
| D SEAL:                   | NITRILE                                                                                             |
| O-RINGS:                  | NITRILE                                                                                             |
| BASE:                     | NICKEL PLATED BRASS WITH THREAD SEALANT ON TAPERED COMPONENTS AND CAPTIVE SEAL ON PARALLEL THREADS. |

| NOMENCLATURE         |                         |
|----------------------|-------------------------|
| EXAMPLE: W369PLP-4-2 | ATTRIBUTE:              |
| W                    | WHITE THREAD SEALANT    |
| 3                    | COMPOSITE BODY          |
| 69                   | MALE ELBOW              |
| PLP                  | PRESTOLOK               |
| 4                    | 1/4" (4/16) TUBE O.D.   |
| 2                    | 1/8" (2/16) PIPE THREAD |

| PRESSURE AND TEMPERATURE RANGE       |                                                     |
|--------------------------------------|-----------------------------------------------------|
| GRIPPING RING:                       | -4°F TO +175°F AT UP TO 290 PSI DEPENDING ON TUBING |
| COLLET TECHNOLOGY (3/16" SIZE ONLY): | +5°F TO +155°F AT UP TO 260 PSI DEPENDING ON TUBING |
| VACUUM CAPABILITY:                   | 28" HG                                              |

| APPLICABLE TUBE |                                      |
|-----------------|--------------------------------------|
| TUBE O.D.:      | 1/8, 5/32, 3/16, 1/4, 5/16, 3/8, 1/2 |
| TUBE O.D. (MM): | 3, 4, 6, 8, 10, 12, 14               |



A compact one piece push-to-connect fitting. All items in the Prestolok composite range are silicone free. The stainless steel gripping ring ensures excellent tube retention while the D seal within the fitting provides a positive seal on the O.D. of the tube, in both static and dynamic positions, due to an optimized design of the fitting cavity. Prestolok composite should not be used for live swivel applications.

## Recommended Tubing

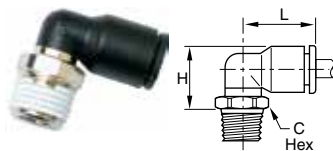
Prestolok composite fittings are designed to be used with the following tubing.

- Nylon Semi-Rigid
- Polyurethane
- Nylon
- Fluoropolymer

## Assembly Instructions

1. Achieve a square cut edge with a tube cutter
2. Simply push the tubing until it can go no further. Holding and sealing is accomplished instantaneously.
3. Pull on the tubing to verify gripping action
4. To disassemble make sure there is no air flow
5. Depress the manual push button, then pull the tube out.

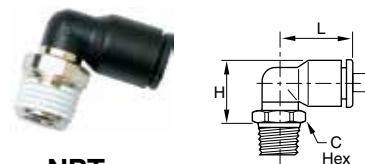
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**W369PLP Male Elbow Swivel 90° - NPT**

| PART NO.       | TUBE SIZE (IN) | THREAD NPT / UNF | C HEX (MM) | L    | H    |
|----------------|----------------|------------------|------------|------|------|
| 369PLP-2-0     | 1/8            | 10-32            | 8          | 0.57 | 0.52 |
| W369PLP-2-1    | 1/8            | 1/16             | 10         | 0.57 | 0.53 |
| W369PLP-2-2    | 1/8            | 1/8              | 11         | 0.57 | 0.53 |
| W369PLP-2-4    | 1/8            | 1/4              | 14         | 0.57 | 0.55 |
| 369PLP-5/32-0  | 5/32           | 10-32            | 8          | 0.55 | 0.53 |
| W369PLP-5/32-2 | 5/32           | 1/8              | 11         | 0.55 | 0.53 |
| W369PLP-5/32-4 | 5/32           | 1/4              | 14         | 0.55 | 0.55 |
| W369PLP-3-2    | 3/16           | 1/8              | 11         | 0.85 | 0.67 |
| 369PLP-4-0     | 1/4            | 10-32            | 11         | 0.71 | 0.63 |
| W369PLP-4-2    | 1/4            | 1/8              | 11         | 0.71 | 0.67 |
| W369PLP-4-4    | 1/4            | 1/4              | 14         | 0.71 | 0.63 |
| W369PLP-4-6    | 1/4            | 3/8              | 18         | 0.71 | 0.65 |
| W369PLP-5-2    | 5/16           | 1/8              | 11         | 0.91 | 0.75 |
| W369PLP-5-4    | 5/16           | 1/4              | 14         | 0.91 | 0.71 |
| W369PLP-5-6    | 5/16           | 3/8              | 18         | 0.91 | 0.73 |
| W369PLP-6-2    | 3/8            | 1/8              | 15         | 1.08 | 0.91 |
| W369PLP-6-4    | 3/8            | 1/4              | 15         | 1.08 | 0.91 |
| W369PLP-6-6    | 3/8            | 3/8              | 18         | 1.08 | 0.87 |
| W369PLP-6-8    | 3/8            | 1/2              | 22         | 1.08 | 0.91 |
| W369PLP-8-4    | 1/2            | 1/4              | 20         | 1.38 | 1.22 |
| W369PLP-8-6    | 1/2            | 3/8              | 20         | 1.38 | 1.22 |
| W369PLP-8-8    | 1/2            | 1/2              | 24         | 1.38 | 1.12 |

**W369PLP Male Elbow Swivel 90° - BSPT**

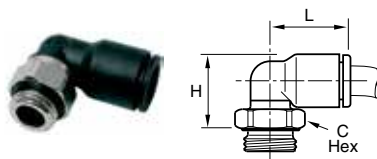
| PART NO.        | TUBE SIZE (IN) | THREAD BSPT | C HEX (MM) | L    | H    |
|-----------------|----------------|-------------|------------|------|------|
| W369PLP-2-2R    | 1/8            | 1/8         | 10         | 0.57 | 0.53 |
| W369PLP-5/32-2R | 5/32           | 1/8         | 10         | 0.55 | 0.53 |
| W369PLP-5/32-4R | 5/32           | 1/4         | 14         | 0.55 | 0.55 |
| W369PLP-3-2R    | 3/16           | 1/8         | 11         | 0.85 | 0.67 |
| W369PLP-4-2R    | 1/4            | 1/8         | 10         | 0.71 | 0.67 |
| W369PLP-4-4R    | 1/4            | 1/4         | 14         | 0.71 | 0.63 |
| W369PLP-5-2R    | 5/16           | 1/8         | 10         | 0.91 | 0.75 |
| W369PLP-5-4R    | 5/16           | 1/4         | 14         | 0.91 | 0.71 |
| W369PLP-5-6R    | 5/16           | 3/8         | 17         | 0.91 | 0.71 |
| W369PLP-5-8R    | 5/16           | 1/2         | 21         | 0.91 | 0.77 |
| W369PLP-6-4R    | 3/8            | 1/4         | 15         | 1.04 | 0.87 |
| W369PLP-6-6R    | 3/8            | 3/8         | 17         | 1.04 | 0.87 |
| W369PLP-8-4R    | 1/2            | 1/4         | 20         | 1.38 | 1.22 |
| W369PLP-8-6R    | 1/2            | 3/8         | 20         | 1.38 | 1.22 |
| W369PLP-8-8R    | 1/2            | 1/2         | 24         | 1.38 | 1.12 |

**W369PLP Male Elbow - NPT**

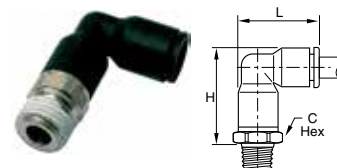
| PART NO.      | TUBE SIZE (MM) | THREAD NPT | C HEX (MM) | H    | L    |
|---------------|----------------|------------|------------|------|------|
| W369PLP-4M-2  | 4              | 1/8        | 11         | .53  | .55  |
| W369PLP-4M-4  | 4              | 1/4        | 14         | .55  | .55  |
| W369PLP-6M-2  | 6              | 1/8        | 11         | .61  | .63  |
| W369PLP-6M-4  | 6              | 1/4        | 14         | .63  | .63  |
| W369PLP-8M-2  | 8              | 1/8        | 11         | .75  | .91  |
| W369PLP-8M-4  | 8              | 1/4        | 14         | .71  | .91  |
| W369PLP-8M-6  | 8              | 3/8        | 18         | .73  | .91  |
| W369PLP-10M-4 | 10             | 1/4        | 15         | .91  | 1.04 |
| W369PLP-10M-6 | 10             | 3/8        | 18         | .87  | 1.04 |
| W369PLP-10M-8 | 10             | 1/2        | 22         | .91  | 1.04 |
| W369PLP-12M-6 | 12             | 3/8        | 18         | .98  | 1.22 |
| W369PLP-12M-8 | 12             | 1/2        | 22         | 1.02 | 1.22 |

**W369PLP Male Elbow - BSPT**

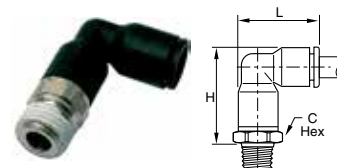
| PART NO.       | TUBE SIZE (MM) | THREAD BSPT | C HEX (MM) | H    | L    |
|----------------|----------------|-------------|------------|------|------|
| W369PLP-4M-2R  | 4              | 1/8         | 10         | 13.5 | 14.0 |
| W369PLP-4M-4R  | 4              | 1/4         | 14         | 14.0 | 14.0 |
| W369PLP-4M-6R  | 4              | 3/8         | 17         | 13.5 | 14.0 |
| W369PLP-6M-2R  | 6              | 1/8         | 10         | 15.5 | 16.0 |
| W369PLP-6M-4R  | 6              | 1/4         | 14         | 16.0 | 16.0 |
| W369PLP-6M-6R  | 6              | 3/8         | 17         | 16.0 | 16.0 |
| W369PLP-6M-8R  | 6              | 1/2         | 21         | 16.5 | 16.0 |
| W369PLP-8M-2R  | 8              | 1/8         | 10         | 19.0 | 23.0 |
| W369PLP-8M-4R  | 8              | 1/4         | 14         | 18.0 | 23.0 |
| W369PLP-8M-6R  | 8              | 3/8         | 17         | 18.0 | 23.0 |
| W369PLP-8M-8R  | 8              | 1/2         | 21         | 19.5 | 23.0 |
| W369PLP-10M-2R | 10             | 1/8         | 15         | 23.0 | 26.5 |
| W369PLP-10M-4R | 10             | 1/4         | 15         | 22.0 | 26.5 |
| W369PLP-10M-6R | 10             | 3/8         | 17         | 22.0 | 26.5 |
| W369PLP-10M-8R | 10             | 1/2         | 21         | 22.0 | 26.5 |
| W369PLP-12M-4R | 12             | 1/4         | 15         | 25.0 | 31.0 |
| W369PLP-12M-6R | 12             | 3/8         | 17         | 25.0 | 31.0 |
| W369PLP-12M-8R | 12             | 1/2         | 21         | 25.0 | 31.0 |
| W369PLP-14M-6R | 14             | 3/8         | 20         | 30.5 | 35.5 |
| W369PLP-14M-8R | 14             | 1/2         | 24         | 28.5 | 35.5 |
| W369PLP-16M-6R | 16             | 3/8         | 27         | 53   | 39.0 |
| W369PLP-16M-8R | 16             | 1/2         | 27         | 53   | 39.0 |

**369PLP Male Elbow - BSPP**

| PART NO.      | TUBE SIZE (MM) | BSPP / METRIC | C HEX (MM) | H    | L    |
|---------------|----------------|---------------|------------|------|------|
| 369PLP-3M-M3  | 3              | M3X0.5        | 8          | 15.0 | 14.5 |
| 369PLP-3M-M5  | 3              | M5X0.8        | 8          | 13.5 | 14.5 |
| 369PLP-4M-M3  | 4              | M3X0.5        | 8          | 15.0 | 14.5 |
| 369PLP-4M-M5  | 4              | M5X0.8        | 8          | 13.5 | 14.0 |
| 369PLP-4M-M7  | 4              | M7X1          | 10         | 15.0 | 14.0 |
| 369PLP-4M-2G  | 4              | 1/8           | 13         | 13.0 | 14.0 |
| 369PLP-4M-4G  | 4              | 1/4           | 16         | 13.0 | 14.0 |
| 369PLP-6M-M5  | 6              | M5X0.8        | 8          | 15.5 | 16.0 |
| 369PLP-6M-M7  | 6              | M7X1          | 10         | 17.5 | 16.0 |
| 369PLP-6M-M10 | 6              | M10X1         | 13         | 15.0 | 14.0 |
| 369PLP-6M-M12 | 6              | M12X1.5       | 15         | 15.0 | 16.0 |
| 369PLP-6M-2G  | 6              | 1/8           | 13         | 15.0 | 16.0 |
| 369PLP-6M-4G  | 6              | 1/4           | 16         | 15.0 | 16.0 |
| 369PLP-6M-6G  | 6              | 3/8           | 20         | 15.5 | 16.0 |
| 369PLP-6M-8G  | 6              | 1/2           | 24         | 16.0 | 16.0 |
| 369PLP-8M-M10 | 8              | M10X1         | 13         | 20.5 | 23.0 |
| 369PLP-8M-M12 | 8              | M12X1.5       | 15         | 19.5 | 23.0 |
| 369PLP-8M-2G  | 8              | 1/8           | 13         | 20.5 | 23.0 |
| 369PLP-8M-4G  | 8              | 1/4           | 16         | 18.5 | 23.0 |
| 369PLP-8M-6G  | 8              | 3/8           | 20         | 18.5 | 23.0 |
| 369PLP-8M-8G  | 8              | 1/2           | 24         | 19.0 | 23.0 |
| 369PLP-10M-4G | 10             | 1/4           | 16         | 23.5 | 26.5 |
| 369PLP-10M-6G | 10             | 3/8           | 20         | 22.0 | 26.5 |
| 369PLP-10M-8G | 10             | 1/2           | 24         | 22.0 | 26.5 |
| 369PLP-12M-4G | 12             | 1/4           | 16         | 26.5 | 31.0 |
| 369PLP-12M-6G | 12             | 3/8           | 20         | 25.0 | 31.0 |
| 369PLP-12M-8G | 12             | 1/2           | 24         | 25.0 | 31.0 |
| 369PLP-14M-6G | 14             | 3/8           | 20         | 32.5 | 35.5 |
| 369PLP-14M-8G | 14             | 1/2           | 24         | 27.0 | 35.5 |
| 369PLP-16M-6G | 16             | 3/8           | 27         | 54.5 | 39   |
| 369PLP-16M-8G | 16             | 1/2           | 27         | 54.5 | 39   |

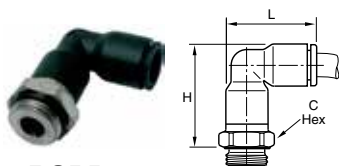
**W369PLPX Extended Male Elbow - NPT**

| PART NO.        | TUBE SIZE (IN) | THREAD NPT / UNF | C HEX (MM) | H    | L    |
|-----------------|----------------|------------------|------------|------|------|
| 369PLPX-2-0     | 1/8            | 10-32            | 8          | .91  | .75  |
| W369PLPX-2-2    | 1/8            | 1/8              | 11         | .91  | .75  |
| W369PLPX-2-4    | 1/8            | 1/4              | 14         | .93  | .75  |
| 369PLPX-5/32-0  | 5/32           | 10-32            | 8          | .91  | .75  |
| W369PLPX-5/32-2 | 5/32           | 1/8              | 11         | .91  | .75  |
| W369PLPX-5/32-4 | 5/32           | 1/4              | 14         | .93  | .75  |
| 369PLPX-4-0     | 1/4            | 10-32            | 11         | 1.10 | .93  |
| 369PLPX-4-M7    | 1/4            | M7               | 9          | 1.17 | .93  |
| W369PLPX-4-2    | 1/4            | 1/8              | 11         | 1.12 | .93  |
| W369PLPX-4-4    | 1/4            | 1/4              | 14         | 1.08 | .93  |
| W369PLPX-4-6    | 1/4            | 3/8              | 17         | 1.12 | .93  |
| W369PLPX-5-2    | 5/16           | 1/8              | 13         | 1.32 | 1.16 |
| W369PLPX-5-4    | 5/16           | 1/4              | 14         | 1.28 | 1.16 |
| W369PLPX-6-2    | 3/8            | 1/8              | 17         | 1.40 | 1.34 |
| W369PLPX-6-4    | 3/8            | 1/4              | 17         | 1.41 | 1.33 |
| W369PLPX-6-6    | 3/8            | 3/8              | 18         | 1.45 | 1.33 |

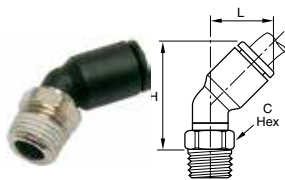
**W369PLPX Extended Male Elbow - BSPT**

| PART NO.        | TUBE SIZE (MM) | THREAD BSPT | C HEX (MM) | H    | L    |
|-----------------|----------------|-------------|------------|------|------|
| W369PLPX-4M-2R  | 4              | 1/8         | 10         | 23.0 | 19.0 |
| W369PLPX-4M-4R  | 4              | 1/4         | 14         | 23.5 | 19.0 |
| W369PLPX-6M-2R  | 6              | 1/8         | 10         | 27.0 | 22.5 |
| W369PLPX-6M-4R  | 6              | 1/4         | 14         | 27.5 | 22.5 |
| W369PLPX-8M-2R  | 8              | 1/8         | 13         | 34.5 | 29.5 |
| W369PLPX-8M-4R  | 8              | 1/4         | 14         | 32.5 | 29.5 |
| W369PLPX-8M-6R  | 8              | 3/8         | 17         | 33.0 | 29.5 |
| W369PLPX-10M-4R | 10             | 1/4         | 15         | 39.5 | 34.5 |
| W369PLPX-10M-6R | 10             | 3/8         | 17         | 39.5 | 34.5 |
| W369PLPX-10M-8R | 10             | 1/2         | 21         | 39.5 | 34.5 |
| W369PLPX-12M-4R | 12             | 1/4         | 19         | 45.5 | 40.5 |
| W369PLPX-12M-6R | 12             | 3/8         | 19         | 45.5 | 40.5 |
| W369PLPX-12M-8R | 12             | 1/2         | 21         | 45.5 | 40.5 |
| W369PLPX-14M-6R | 14             | 3/8         | 21         | 51.5 | 46.5 |
| W369PLPX-14M-8R | 14             | 1/2         | 21         | 51.5 | 46.5 |

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**369PLPX Male Elbow - BSPP**

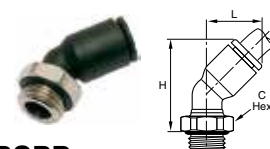
| PART NO.       | TUBE SIZE (MM) | BSPP / METRIC | C HEX (MM) | H    |
|----------------|----------------|---------------|------------|------|
| 369PLPX-4M-M5  | 4              | M5X0.8        | 8          | 23.0 |
| 369PLPX-4M-M7  | 4              | M7X1          | 10         | 22.5 |
| 369PLPX-4M-2G  | 4              | 1/8           | 13         | 22.5 |
| 369PLPX-4M-4G  | 4              | 1/4           | 16         | 22.5 |
| 369PLPX-6M-M5  | 6              | M5X0.8        | 10         | 27.5 |
| 369PLPX-6M-M7  | 6              | M7X1          | 10         | 26.0 |
| 369PLPX-6M-2G  | 6              | 1/8           | 13         | 27.0 |
| 369PLPX-6M-4G  | 6              | 1/4           | 16         | 27.0 |
| 369PLPX-8M-2G  | 8              | 1/8           | 13         | 36.0 |
| 369PLPX-8M-4G  | 8              | 1/4           | 16         | 33.0 |
| 369PLPX-8M-6G  | 8              | 3/8           | 20         | 33.0 |
| 369PLPX-10M-4G | 10             | 1/4           | 16         | 40.5 |
| 369PLPX-10M-6G | 10             | 3/8           | 20         | 40.5 |
| 369PLPX-10M-8G | 10             | 1/2           | 24         | 40.5 |
| 369PLPX-12M-4G | 12             | 1/4           | 19         | 44.5 |
| 369PLPX-12M-6G | 12             | 3/8           | 20         | 42.0 |
| 369PLPX-12M-8G | 12             | 1/2           | 24         | 42.0 |
| 369PLPX-14M-6G | 14             | 3/8           | 22         | 51.0 |
| 369PLPX-14M-8G | 14             | 1/2           | 24         | 48.5 |

**W379PLP Male Elbow 45° - NPT**

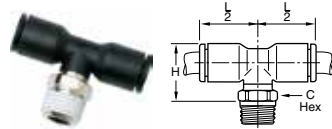
| PART NO.     | TUBE SIZE (IN) | THREAD NPT / UNF | C HEX (MM) | H    | L   |
|--------------|----------------|------------------|------------|------|-----|
| 379PLP-2-0   | 1/8            | 10-32            | 8          | .91  | .49 |
| W379PLP-2-2  | 1/8            | 1/8              | 11         | .81  | .49 |
| W379PLP-4-2  | 1/4            | 1/8              | 11         | .98  | .57 |
| W379PLP-4-4  | 1/4            | 1/4              | 14         | .98  | .57 |
| W379PLP-4-M7 | 1/4            | M7               | 9          | 1.14 | .57 |
| W379PLP-6-4  | 3/8            | 1/4              | 17         | 1.36 | .91 |
| W379PLP-6-6  | 3/8            | 3/8              | 18         | 1.36 | .91 |

**W379PLP 45° Male Elbow - BSPT**

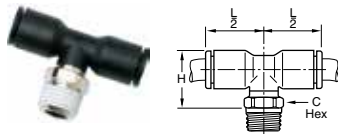
| PART NO.       | TUBE SIZE (MM) | BSPT | C HEX (MM) | H    | L    |
|----------------|----------------|------|------------|------|------|
| W379PLP-4M-2R  | 4              | 1/8  | 10         | 24.5 | 13.0 |
| W379PLP-6M-2R  | 6              | 1/8  | 10         | 28.0 | 14.5 |
| W379PLP-6M-4R  | 6              | 1/4  | 14         | 30.0 | 14.5 |
| W379PLP-8M-2R  | 8              | 1/8  | 10         | 33.5 | 19.5 |
| W379PLP-8M-4R  | 8              | 1/4  | 14         | 33.5 | 19.5 |
| W379PLP-8M-6R  | 8              | 3/8  | 17         | 33.5 | 19.5 |
| W379PLP-10M-4R | 10             | 1/4  | 15         | 38.5 | 23.0 |
| W379PLP-10M-6R | 10             | 3/8  | 17         | 39.0 | 23.0 |
| W379PLP-10M-8R | 10             | 1/2  | 21         | 40.5 | 23.0 |
| W379PLP-12M-4R | 12             | 1/4  | 15         | 44.0 | 26.0 |
| W379PLP-12M-6R | 12             | 3/8  | 17         | 44.0 | 26.0 |
| W379PLP-12M-8R | 12             | 1/2  | 21         | 46.0 | 26.0 |

**379PLP 45° Male Elbow - BSPP**

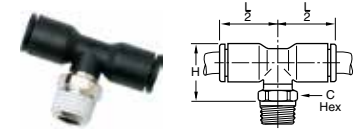
| PART NO.      | TUBE SIZE (MM) | BSPP / M5 | C HEX (MM) | H    | L    |
|---------------|----------------|-----------|------------|------|------|
| 379PLP-4M-M5  | 4              | M5X0.8    | 8          | 23.0 | 13.0 |
| 379PLP-4M-2G  | 4              | 1/8       | 13         | 25.0 | 13.0 |
| 379PLP-6M-M5  | 6              | M5X0.8    | 8          | 30.0 | 14.5 |
| 379PLP-6M-2G  | 6              | 1/8       | 13         | 28.5 | 14.5 |
| 379PLP-6M-4G  | 6              | 1/4       | 16         | 29.5 | 14.5 |
| 379PLP-8M-2G  | 8              | 1/8       | 13         | 36.0 | 19.5 |
| 379PLP-8M-4G  | 8              | 1/4       | 16         | 34.5 | 19.5 |
| 379PLP-8M-6G  | 8              | 3/8       | 20         | 34.5 | 19.5 |
| 379PLP-10M-4G | 10             | 1/4       | 16         | 40.5 | 23.0 |
| 379PLP-10M-6G | 10             | 3/8       | 20         | 39.0 | 23.0 |
| 379PLP-10M-8G | 10             | 1/2       | 24         | 41.0 | 23.0 |
| 379PLP-12M-4G | 12             | 1/4       | 16         | 46.0 | 26.0 |
| 379PLP-12M-6G | 12             | 3/8       | 20         | 44.5 | 26.0 |
| 379PLP-12M-8G | 12             | 1/2       | 24         | 46.0 | 26.0 |

**W372PLP Male Branch Tee Swivel - NPT**

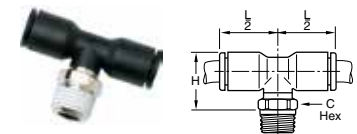
| PART NO.       | TUBE SIZE (IN) | THREAD NPT / UNF | C HEX (MM) | L/2  | H    |
|----------------|----------------|------------------|------------|------|------|
| W372PLP-2-0    | 1/8            | 10-32            | 8          | .57  | .61  |
| W372PLP-2-1    | 1/8            | 1/16             | 10         | .57  | .61  |
| W372PLP-2-2    | 1/8            | 1/8              | 11         | .57  | .61  |
| W372PLP-2-4    | 1/8            | 1/4              | 14         | .57  | .63  |
| W372PLP-5/32-0 | 5/32           | 10-32            | 8          | .55  | .71  |
| W372PLP-5/32-2 | 5/32           | 1/8              | 11         | .55  | .61  |
| W372PLP-5/32-4 | 5/32           | 1/4              | 14         | .55  | .63  |
| W372PLP-3-2    | 3/16           | 1/8              | 11         | .85  | .67  |
| W372PLP-4-2    | 1/4            | 1/8              | 11         | .71  | .67  |
| W372PLP-4-4    | 1/4            | 1/4              | 14         | .71  | .63  |
| W372PLP-4-6    | 1/4            | 3/8              | 18         | .71  | .65  |
| W372PLP-5-2    | 5/16           | 1/8              | 11         | .91  | .87  |
| W372PLP-5-4    | 5/16           | 1/4              | 14         | .91  | .83  |
| W372PLP-5-6    | 5/16           | 3/8              | 18         | .91  | .85  |
| W372PLP-6-2    | 3/8            | 1/8              | 15         | 1.04 | .99  |
| W372PLP-6-4    | 3/8            | 1/4              | 15         | 1.04 | .99  |
| W372PLP-6-6    | 3/8            | 3/8              | 18         | 1.04 | .95  |
| W372PLP-6-8    | 3/8            | 1/2              | 22         | 1.04 | .98  |
| W372PLP-8-4    | 1/2            | 1/4              | 20         | 1.38 | 1.22 |
| W372PLP-8-6    | 1/2            | 3/8              | 20         | 1.38 | 1.22 |
| W372PLP-8-8    | 1/2            | 1/2              | 24         | 1.38 | 1.21 |

**W372PLP Male Branch Tee - BSPT**

| PART NO.        | TUBE SIZE (IN) | THREAD BSPT | C HEX (MM) | L/2  | H    |
|-----------------|----------------|-------------|------------|------|------|
| W372PLP-2-2R    | 1/8            | 1/8         | 10         | .55  | .61  |
| W372PLP-5/32-2R | 5/32           | 1/8         | 10         | .55  | .61  |
| W372PLP-5/32-4R | 5/32           | 1/4         | 14         | .55  | .63  |
| W372PLP-3-2R    | 3/16           | 1/8         | 11         | .85  | .67  |
| W372PLP-3-4R    | 3/16           | 1/4         | 14         | .85  | .67  |
| W372PLP-4-2R    | 1/4            | 1/8         | 10         | .71  | .67  |
| W372PLP-4-4R    | 1/4            | 1/4         | 14         | .71  | .63  |
| W372PLP-5-2R    | 5/16           | 1/8         | 10         | .91  | .87  |
| W372PLP-5-4R    | 5/16           | 1/4         | 14         | .91  | .83  |
| W372PLP-5-6R    | 5/16           | 3/8         | 17         | .91  | .83  |
| W372PLP-6-4R    | 3/8            | 1/4         | 15         | 1.04 | .95  |
| W372PLP-6-6R    | 3/8            | 3/8         | 17         | 1.04 | .95  |
| W372PLP-8-4R    | 1/2            | 1/4         | 20         | 1.38 | 1.24 |
| W372PLP-8-6R    | 1/2            | 3/8         | 20         | 1.38 | 1.22 |

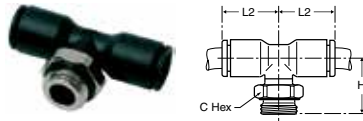
**W372PLP Male Branch Tee - NPT**

| PART NO.      | TUBE SIZE (MM) | NPT | C HEX (MM) | H    | L/2  |
|---------------|----------------|-----|------------|------|------|
| W372PLP-4M-2  | 4              | 1/8 | 11         | .61  | .55  |
| W372PLP-4M-4  | 4              | 1/4 | 14         | .63  | .55  |
| W372PLP-6M-2  | 6              | 1/8 | 11         | .69  | .63  |
| W372PLP-6M-4  | 6              | 1/4 | 14         | .71  | .63  |
| W372PLP-8M-2  | 8              | 1/8 | 11         | .87  | .91  |
| W372PLP-8M-4  | 8              | 1/4 | 14         | .83  | .91  |
| W372PLP-8M-6  | 8              | 3/8 | 18         | .85  | .91  |
| W372PLP-10M-4 | 10             | 1/4 | 15         | .98  | 1.04 |
| W372PLP-10M-6 | 10             | 3/8 | 18         | .95  | 1.04 |
| W372PLP-10M-8 | 10             | 1/2 | 22         | .98  | 1.04 |
| W372PLP-12M-6 | 12             | 3/8 | 18         | 1.06 | 1.22 |
| W372PLP-12M-8 | 12             | 1/2 | 22         | .98  | 1.22 |

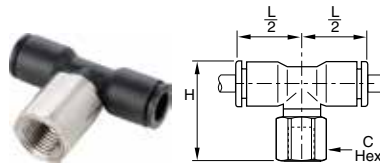
**W372PLP Male Branch Tee - BSPT**

| PART NO.       | TUBE SIZE (MM) | BSPT | C HEX (MM) | H    | L/2  |
|----------------|----------------|------|------------|------|------|
| W372PLP-4M-2R  | 4              | 1/8  | 10         | 15.5 | 14.0 |
| W372PLP-4M-4R  | 4              | 1/4  | 14         | 16.0 | 14.0 |
| W372PLP-6M-2R  | 6              | 1/8  | 10         | 17.5 | 16.0 |
| W372PLP-6M-4R  | 6              | 1/4  | 14         | 18.0 | 16.0 |
| W372PLP-8M-2R  | 8              | 1/8  | 10         | 22.0 | 23.0 |
| W372PLP-8M-4R  | 8              | 1/4  | 14         | 21.0 | 23.0 |
| W372PLP-8M-6R  | 8              | 3/8  | 17         | 21.0 | 23.0 |
| W372PLP-10M-4R | 10             | 1/4  | 15         | 24.0 | 26.5 |
| W372PLP-10M-6R | 10             | 3/8  | 17         | 24.0 | 26.5 |
| W372PLP-10M-8R | 10             | 1/2  | 21         | 24.0 | 26.5 |
| W372PLP-12M-4R | 12             | 1/4  | 15         | 27.0 | 31.0 |
| W372PLP-12M-6R | 12             | 3/8  | 17         | 27.0 | 31.0 |
| W372PLP-12M-8R | 12             | 1/2  | 21         | 27.0 | 31.0 |
| W372PLP-14M-6R | 14             | 3/8  | 20         | 30.5 | 35.5 |
| W372PLP-14M-8R | 14             | 1/2  | 24         | 28.5 | 35.5 |
| W372PLP-16M-6R | 16             | 3/8  | 27         | 53.0 | 38.5 |
| W372PLP-16M-8R | 16             | 1/2  | 27         | 53.0 | 38.5 |

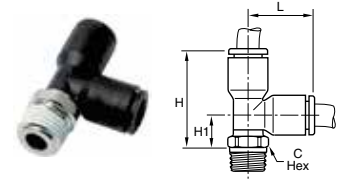
A

**372PLP Male Branch Tee - BSPP**

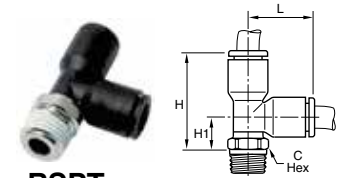
| PART NO.      | TUBE SIZE (MM) | BSPP / M5 | C HEX (MM) | H    | L/2  |
|---------------|----------------|-----------|------------|------|------|
| 372PLP-4M-M5  | 4              | M5X0.8    | 8          | 17.5 | 14.0 |
| 372PLP-4M-2G  | 4              | 1/8       | 13         | 15.0 | 14.0 |
| 372PLP-4M-4G  | 4              | 1/4       | 16         | 15.0 | 14.0 |
| 372PLP-6M-M5  | 6              | M5X0.8    | 8          | 19.5 | 16.0 |
| 372PLP-6M-2G  | 6              | 1/8       | 13         | 17.0 | 16.0 |
| 372PLP-6M-4G  | 6              | 1/4       | 16         | 17.0 | 16.0 |
| 372PLP-8M-2G  | 8              | 1/8       | 13         | 23.5 | 23.0 |
| 372PLP-8M-4G  | 8              | 1/4       | 16         | 21.5 | 23.0 |
| 372PLP-8M-6G  | 8              | 3/8       | 20         | 21.5 | 23.0 |
| 372PLP-10M-4G | 10             | 1/4       | 16         | 26.0 | 26.5 |
| 372PLP-10M-6G | 10             | 3/8       | 20         | 24.0 | 26.5 |
| 372PLP-10M-8G | 10             | 1/2       | 24         | 24.0 | 26.5 |
| 372PLP-12M-4G | 12             | 1/4       | 16         | 29.0 | 31.0 |
| 372PLP-12M-6G | 12             | 3/8       | 20         | 27.0 | 31.0 |
| 372PLP-12M-8G | 12             | 1/2       | 24         | 27.0 | 31.0 |
| 372PLP-14M-6G | 14             | 3/8       | 20         | 32.5 | 35.5 |
| 372PLP-14M-8G | 14             | 1/2       | 24         | 27.0 | 35.5 |
| 372PLP-16M-6G | 16             | 3/8       | 27         | 54.5 | 38.5 |
| 372PLP-16M-8G | 16             | 1/2       | 27         | 54.5 | 38.5 |

**377PLP Female Branch Tee Swivel - NPT**

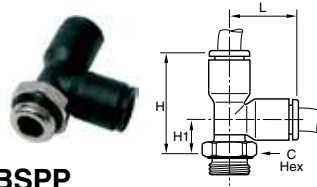
| PART NO.      | TUBE SIZE (IN) | THREAD NPT / UNF | C HEX (MM) | L/2  | H    |
|---------------|----------------|------------------|------------|------|------|
| 377PLP-2-2    | 1/8            | 1/8              | 13         | .57  | .99  |
| 377PLP-5/32-2 | 5/32           | 1/8              | 13         | .55  | .91  |
| 377PLP-5/32-4 | 5/32           | 1/4              | 16         | .55  | 1.08 |
| 377PLP-4-2    | 1/4            | 1/8              | 13         | .71  | 1.02 |
| 377PLP-4-4    | 1/4            | 1/4              | 16         | .71  | 1.18 |
| 377PLP-5-2    | 5/16           | 1/8              | 13         | .91  | 1.24 |
| 377PLP-5-4    | 5/16           | 1/4              | 16         | .91  | 1.40 |
| 377PLP-6-4    | 3/8            | 1/4              | 16         | 1.04 | 1.60 |
| 377PLP-8-6    | 1/2            | 3/8              | 22         | 1.38 | 1.88 |

**W371PLP Male Run Tee Swivel - NPT**

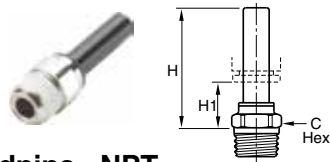
| PART NO.       | TUBE SIZE (IN) | THREAD NPT / UNF | C HEX (MM) | L    | H    | H1  |
|----------------|----------------|------------------|------------|------|------|-----|
| 371PLP-2-0     | 1/8            | 10-32            | 8          | .57  | .92  | .35 |
| W371PLP-2-1    | 1/8            | 1/16             | 10         | .57  | .93  | .35 |
| W371PLP-2-2    | 1/8            | 1/8              | 11         | .57  | .93  | .35 |
| 371PLP-5/32-0  | 5/32           | 10-32            | 8          | .57  | 1.02 | .45 |
| W371PLP-5/32-2 | 5/32           | 1/8              | 11         | .57  | .93  | .53 |
| W371PLP-5/32-4 | 5/32           | 1/4              | 14         | .57  | .94  | .37 |
| W371PLP-3-2    | 3/16           | 1/8              | 11         | .85  | 1.31 | .45 |
| W371PLP-4-2    | 1/4            | 1/8              | 11         | .69  | 1.16 | .45 |
| W371PLP-4-4    | 1/4            | 1/4              | 14         | .69  | 1.12 | .41 |
| W371PLP-4-6    | 1/4            | 3/8              | 18         | .69  | 1.14 | .43 |
| W371PLP-5-2    | 5/16           | 1/8              | 11         | .91  | 1.38 | .49 |
| W371PLP-5-4    | 5/16           | 1/4              | 14         | .91  | 1.34 | .45 |
| W371PLP-5-6    | 5/16           | 3/8              | 18         | .91  | 1.36 | .47 |
| W371PLP-6-2    | 3/8            | 1/8              | 15         | 1.04 | 1.63 | .60 |
| W371PLP-6-4    | 3/8            | 1/4              | 15         | 1.04 | 1.63 | .60 |
| W371PLP-6-6    | 3/8            | 3/8              | 18         | 1.04 | 1.60 | .55 |
| W371PLP-6-8    | 3/8            | 1/2              | 22         | 1.04 | 1.63 | .59 |
| W371PLP-8-4    | 1/2            | 1/4              | 20         | 1.38 | 2.17 | .79 |
| W371PLP-8-6    | 1/2            | 3/8              | 20         | 1.38 | 2.17 | .79 |
| W371PLP-8-8    | 1/2            | 1/2              | 24         | 1.38 | 2.07 | .79 |

**W371PLP Male run Tee - BSPT**

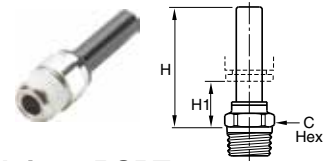
| PART NO.       | TUBE SIZE (MM) | THREAD BSPT | C HEX (MM) | H    | H1   | L    |
|----------------|----------------|-------------|------------|------|------|------|
| W371PLP-4M-2R  | 4              | 1/8         | 10         | 23.5 | 9.0  | 14.5 |
| W371PLP-4M-4R  | 4              | 1/4         | 14         | 24.0 | 9.5  | 14.5 |
| W371PLP-6M-2R  | 6              | 1/8         | 10         | 27.5 | 10.0 | 17.5 |
| W371PLP-6M-4R  | 6              | 1/4         | 14         | 28.0 | 10.5 | 17.5 |
| W371PLP-8M-2R  | 8              | 1/8         | 10         | 35.0 | 12.0 | 23.0 |
| W371PLP-8M-4R  | 8              | 1/4         | 14         | 34.0 | 11.0 | 23.0 |
| W371PLP-8M-6R  | 8              | 3/8         | 17         | 34.0 | 11.0 | 23.0 |
| W371PLP-10M-4R | 10             | 1/4         | 15         | 40.5 | 14.0 | 26.5 |
| W371PLP-10M-6R | 10             | 3/8         | 17         | 40.5 | 14.0 | 26.5 |
| W371PLP-10M-8R | 10             | 1/2         | 21         | 40.5 | 14.0 | 26.5 |
| W371PLP-12M-4R | 12             | 1/4         | 15         | 46.5 | 15.5 | 31.0 |
| W371PLP-12M-6R | 12             | 3/8         | 17         | 46.5 | 15.5 | 31.0 |
| W371PLP-12M-8R | 12             | 1/2         | 21         | 46.5 | 15.5 | 31.0 |
| W371PLP-14M-6R | 14             | 3/8         | 20         | 55.0 | 19.5 | 35.5 |
| W371PLP-14M-8R | 14             | 1/2         | 24         | 52.5 | 17.5 | 35.5 |
| W371PLP-16M-6R | 16             | 3/8         | 27         | 38.5 | 78   | 39.5 |
| W371PLP-16M-8R | 16             | 1/2         | 27         | 38.5 | 78   | 39.5 |

**371PLP Male Run Tee - BSPP**

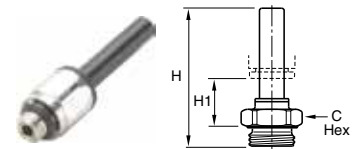
| PART NO.      | TUBE SIZE (MM) | BSPP / M5 | C HEX (MM) | H    | H1   | L    |
|---------------|----------------|-----------|------------|------|------|------|
| 371PLP-4M-M5  | 4              | M5X0.8    | 8          | 26.0 | 11.5 | 14.5 |
| 371PLP-4M-2G  | 4              | 1/8       | 13         | 23.0 | 8.5  | 14.5 |
| 371PLP-4M-4G  | 4              | 1/4       | 16         | 23.0 | 8.5  | 14.5 |
| 371PLP-6M-M5  | 6              | M5X0.8    | 8          | 29.5 | 12.5 | 17.5 |
| 371PLP-6M-2G  | 6              | 1/8       | 13         | 27.0 | 10.0 | 17.5 |
| 371PLP-6M-4G  | 6              | 1/4       | 16         | 27.0 | 10.0 | 17.5 |
| 371PLP-8M-2G  | 8              | 1/8       | 13         | 36.5 | 14.0 | 23.0 |
| 371PLP-8M-4G  | 8              | 1/4       | 16         | 34.5 | 12.0 | 23.0 |
| 371PLP-8M-6G  | 8              | 3/8       | 20         | 34.5 | 12.0 | 23.0 |
| 371PLP-10M-4G | 10             | 1/4       | 16         | 42.0 | 15.5 | 26.5 |
| 371PLP-10M-6G | 10             | 3/8       | 20         | 40.5 | 14.0 | 26.5 |
| 371PLP-10M-8G | 10             | 1/2       | 24         | 40.5 | 14.0 | 26.5 |
| 371PLP-12M-4G | 12             | 1/4       | 16         | 48.0 | 17.0 | 31.0 |
| 371PLP-12M-6G | 12             | 3/8       | 20         | 46.5 | 15.5 | 31.0 |
| 371PLP-12M-8G | 12             | 1/2       | 24         | 46.5 | 15.5 | 31.0 |
| 371PLP-14M-6G | 14             | 3/8       | 20         | 56.5 | 21.5 | 35.5 |
| 371PLP-14M-8G | 14             | 1/2       | 24         | 51.0 | 16.0 | 35.5 |
| 371PLP-16M-6G | 16             | 3/8       | 27         | 38.5 | 79.5 | 41   |
| 371PLP-16M-8G | 16             | 1/2       | 27         | 38.5 | 79.5 | 41   |

**W68PLPSP Male Standpipe - NPT**

| PART NO.        | TUBE SIZE (IN) | THREAD NPT / UNF | C HEX (MM) | H    | H1  |
|-----------------|----------------|------------------|------------|------|-----|
| 68PLPSP-5/32-0  | 5/32           | 10-32            | 8          | 1.24 |     |
| W68PLPSP-5/32-2 | 5/32           | 1/8              | 11         | 1.02 | .57 |
| W68PLPSP-5/32-4 | 5/32           | 1/4              | 14         | 1.04 | .59 |
| W68PLPSP-4-2    | 1/4            | 1/8              | 11         | 1.18 | .61 |
| W68PLPSP-4-4    | 1/4            | 1/4              | 14         | 1.12 | .57 |
| W68PLPSP-5-2    | 5/16           | 1/8              | 11         | 1.16 | .43 |
| W68PLPSP-5-4    | 5/16           | 1/4              | 14         | 1.12 | .39 |
| W68PLPSP-6-2    | 3/8            | 1/8              | 15         | 1.75 | .65 |
| W68PLPSP-6-4    | 3/8            | 1/4              | 15         | 1.42 | .67 |
| W68PLPSP-6-6    | 3/8            | 3/8              | 17         | 1.42 | .61 |
| W68PLPSP-8-6    | 1/2            | 3/8              | 17         | 1.44 | .37 |
| W68PLPSP-8-8    | 1/2            | 1/2              | 21         | 1.46 | .39 |

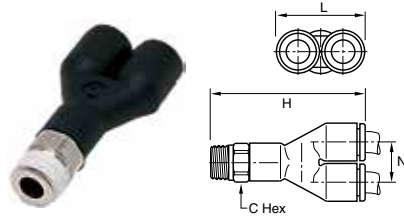
**W68PLPSP Male Standpipe - BSPT**

| PART NO.        | TUBE SIZE (MM) | BSPT | C HEX (MM) | H    | H1   |
|-----------------|----------------|------|------------|------|------|
| W68PLPSP-4M-2R  | 4              | 1/8  | 10         | 26.0 | 14.0 |
| W68PLPSP-4M-4R  | 4              | 1/4  | 14         | 26.5 | 14.5 |
| W68PLPSP-6M-2R  | 6              | 1/8  | 10         | 28.0 | 14.0 |
| W68PLPSP-6M-4R  | 6              | 1/4  | 14         | 28.5 | 14.5 |
| W68PLPSP-8M-2R  | 8              | 1/8  | 10         | 29.5 | 11.0 |
| W68PLPSP-8M-4R  | 8              | 1/4  | 14         | 28.5 | 10.0 |
| W68PLPSP-8M-6R  | 8              | 3/8  | 17         | 28.5 | 10.0 |
| W68PLPSP-10M-4R | 10             | 1/4  | 15         | 36.0 | 15.5 |
| W68PLPSP-10M-6R | 10             | 3/8  | 17         | 36.0 | 15.5 |
| W68PLPSP-10M-8R | 10             | 1/2  | 21         | 36.0 | 15.5 |
| W68PLPSP-12M-6R | 12             | 3/8  | 17         | 36.5 | 12.0 |
| W68PLPSP-12M-8R | 12             | 1/2  | 21         | 36.5 | 12.0 |
| W68PLPSP-14M-8R | 14             | 1/2  | 21         | 41.0 | 13.5 |

**68PLPSP Male Standpipe - BSPP**

| PART NO.       | TUBE SIZE (MM) | BSPP   | C HEX (MM) | H    | H1   |
|----------------|----------------|--------|------------|------|------|
| 68PLPSP-4M-M5  | 4              | M5X0.8 | 8          | 31.0 | 16.0 |
| 68PLPSP-4M-2G  | 4              | 1/8    | 13         | 30.0 | 13.5 |
| 68PLPSP-4M-4G  | 4              | 1/4    | 16         | 31.0 | 13.5 |
| 68PLPSP-6M-2G  | 6              | 1/8    | 13         | 32.0 | 13.5 |
| 68PLPSP-6M-4G  | 6              | 1/4    | 16         | 33.0 | 13.5 |
| 68PLPSP-8M-2G  | 8              | 1/8    | 13         | 35.5 | 12.5 |
| 68PLPSP-8M-4G  | 8              | 1/4    | 16         | 34.5 | 10.5 |
| 68PLPSP-8M-6G  | 8              | 3/8    | 20         | 34.5 | 10.5 |
| 68PLPSP-10M-4G | 10             | 1/4    | 16         | 43.5 | 17.5 |
| 68PLPSP-10M-6G | 10             | 3/8    | 20         | 41.5 | 15.5 |
| 68PLPSP-10M-8G | 10             | 1/2    | 24         | 41.5 | 15.5 |
| 68PLPSP-12M-6G | 12             | 3/8    | 20         | 42.0 | 12.0 |
| 68PLPSP-12M-8G | 12             | 1/2    | 24         | 43.5 | 12.0 |
| 68PLPSP-14M-6G | 14             | 3/8    | 20         | 46.5 | 14.0 |
| 68PLPSP-14M-8G | 14             | 1/2    | 24         | 48.0 | 13.5 |

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**W368PLP Male Y Connector - NPT**

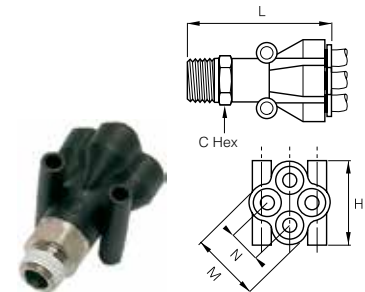
| PART NO.       | TUBE SIZE (IN) | THREAD NPT | C HEX (MM) | H    | L    | N   |
|----------------|----------------|------------|------------|------|------|-----|
| W368PLP-5/32-2 | 5/32           | 1/8        | 11         | 1.28 | .69  | .35 |
| W368PLP-5/32-4 | 5/32           | 1/4        | 14         | 1.30 | .69  | .35 |
| W368PLP-4-2    | 1/4            | 1/8        | 11         | 1.61 | .87  | .45 |
| W368PLP-4-4    | 1/4            | 1/4        | 14         | 1.56 | .87  | .45 |
| W368PLP-6-4    | 3/8            | 1/4        | 17         | 2.24 | 1.30 | .67 |
| W368PLP-6-6    | 3/8            | 3/8        | 18         | 2.28 | 1.30 | .67 |

**368PLP Male Y Connector - BSPP**

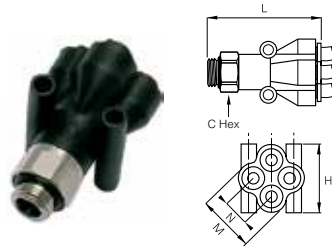
| PART NO.      | TUBE SIZE (MM) | BSPP / M5 | C HEX (MM) | H    | L    | N    |
|---------------|----------------|-----------|------------|------|------|------|
| 368PLP-4M-M5  | 4              | M5X0.8    | 8          | 32.5 | 17.5 | 9.0  |
| 368PLP-4M-2G  | 4              | 1/8       | 13         | 32.0 | 17.5 | 9.0  |
| 368PLP-4M-4G  | 4              | 1/4       | 16         | 32.0 | 17.5 | 9.0  |
| 368PLP-6M-M5  | 6              | M5X0.8    | 10         | 39.5 | 21.5 | 11.0 |
| 368PLP-6M-2G  | 6              | 1/8       | 13         | 39.0 | 21.5 | 11.0 |
| 368PLP-6M-4G  | 6              | 1/4       | 16         | 39.0 | 21.5 | 11.0 |
| 368PLP-8M-2G  | 8              | 1/8       | 13         | 56.0 | 28.0 | 14.5 |
| 368PLP-8M-4G  | 8              | 1/4       | 16         | 55.0 | 28.0 | 14.5 |
| 368PLP-8M-6G  | 8              | 3/8       | 19         | 54.0 | 28.0 | 14.5 |
| 368PLP-10M-4G | 10             | 1/4       | 16         | 63.5 | 33.0 | 17.0 |
| 368PLP-10M-6G | 10             | 3/8       | 20         | 63.5 | 33.0 | 17.0 |
| 368PLP-10M-8G | 10             | 1/2       | 20         | 65.0 | 33.0 | 17.0 |
| 368PLP-12M-6G | 12             | 3/8       | 19         | 68.0 | 39.0 | 20.0 |
| 368PLP-12M-8G | 12             | 1/2       | 24         | 70.0 | 39.0 | 20.0 |

**W368PLP Male Y Connector - BSPT**

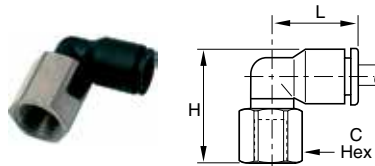
| PART NO.       | TUBE SIZE (MM) | BSPT | C HEX (MM) | H    | L    | N    |
|----------------|----------------|------|------------|------|------|------|
| W368PLP-4M-2R  | 4              | 1/8  | 10         | 32.5 | 17.5 | 9.0  |
| W368PLP-4M-4R  | 4              | 1/4  | 14         | 33.0 | 17.5 | 9.0  |
| W368PLP-6M-2R  | 6              | 1/8  | 10         | 39.5 | 21.5 | 1.0  |
| W368PLP-6M-4R  | 6              | 1/4  | 14         | 40.0 | 21.5 | 1.0  |
| W368PLP-8M-2R  | 8              | 1/8  | 13         | 56.5 | 28.0 | 14.5 |
| W368PLP-8M-4R  | 8              | 1/4  | 14         | 55.5 | 28.0 | 14.5 |
| W368PLP-8M-6R  | 8              | 3/8  | 16         | 48.5 | 28.0 | 14.5 |
| W368PLP-10M-4R | 10             | 1/4  | 14         | 60.0 | 39.0 | 20.0 |
| W368PLP-10M-6R | 10             | 3/8  | 16         | 60.5 | 39.0 | 20.0 |
| W368PLP-10M-8R | 10             | 1/2  | 24         | 61.0 | 39.0 | 20.0 |
| W368PLP-12M-6R | 12             | 3/8  | 19         | 66.0 | 39.0 | 20.0 |
| W368PLP-12M-8R | 12             | 1/2  | 21         | 66.0 | 39.0 | 20.0 |

**W368PLPD Double Y Male Connector - BSPT**

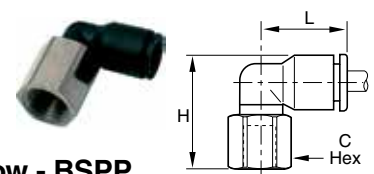
| PART NO.       | TUBE SIZE (MM) | BSPT | C HEX (MM) | H    | L    | M    | N    | MOUNTING HOLE DIA |
|----------------|----------------|------|------------|------|------|------|------|-------------------|
| W368PLPD-4M-2R | 4              | 1/8  | 13         | 25.5 | 41.5 | 21.0 | 10.0 | 3.7               |
| W368PLPD-4M-4R | 4              | 1/4  | 14         | 25.5 | 43.5 | 21.0 | 10.0 | 3.7               |
| W368PLPD-6M-2R | 6              | 1/8  | 19         | 31.5 | 54.5 | 26.5 | 12.0 | 3.7               |
| W368PLPD-6M-4R | 6              | 1/4  | 19         | 31.5 | 57.5 | 26.5 | 12.0 | 3.7               |

**368PLPD Double Y Male Connector - BSPP**

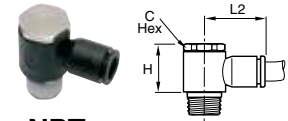
| PART NO.      | TUBE SIZE (MM) | BSPP | C HEX (MM) | H    | L    | M    | N    | MOUNTING HOLE DIA |
|---------------|----------------|------|------------|------|------|------|------|-------------------|
| 368PLPD-4M-2G | 4              | 1/8  | 13         | 25.5 | 41.0 | 21.0 | 10.0 | 3.7               |
| 368PLPD-4M-4G | 4              | 1/4  | 16         | 25.5 | 40.0 | 21.0 | 10.0 | 3.7               |
| 368PLPD-6M-2G | 6              | 1/8  | 19         | 31.5 | 52.5 | 26.5 | 12.0 | 3.7               |
| 368PLPD-6M-4G | 6              | 1/4  | 19         | 31.5 | 53.5 | 26.5 | 12.0 | 3.7               |

**370PLP Female Elbow Swivel - NPT**

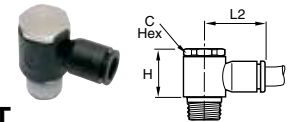
| PART NO.      | TUBE SIZE (IN) | THREAD NPT | C HEX (MM) | L    | H    |
|---------------|----------------|------------|------------|------|------|
| 370PLP-2-2    | 1/8            | 1/8        | 13         | .57  | .91  |
| 370PLP-5/32-2 | 5/32           | 1/8        | 13         | .55  | .91  |
| 370PLP-5/32-4 | 5/32           | 1/4        | 16         | .55  | 1.08 |
| 370PLP-4-2    | 1/4            | 1/8        | 13         | .71  | 1.02 |
| 370PLP-4-4    | 1/4            | 1/4        | 16         | .71  | 1.18 |
| 370PLP-5-2    | 5/16           | 1/8        | 13         | .91  | 1.12 |
| 370PLP-5-4    | 5/16           | 1/4        | 16         | .91  | 1.28 |
| 370PLP-6-4    | 3/8            | 1/4        | 16         | 1.04 | 1.52 |
| 370PLP-8-6    | 1/2            | 3/8        | 22         | 1.38 | 1.88 |

**370PLP Female Elbow - BSPP**

| PART NO.      | TUBE SIZE (MM) | BSPP | C HEX (MM) | H    | L    |
|---------------|----------------|------|------------|------|------|
| 370PLP-4M-2G  | 4              | 1/8  | 13         | 23.0 | 14.0 |
| 370PLP-4M-4G  | 4              | 1/4  | 16         | 27.0 | 14.0 |
| 370PLP-6M-2G  | 6              | 1/8  | 13         | 25.0 | 16.0 |
| 370PLP-6M-4G  | 6              | 1/4  | 16         | 29.0 | 16.0 |
| 370PLP-8M-2G  | 8              | 1/8  | 13         | 28.0 | 23.0 |
| 370PLP-8M-4G  | 8              | 1/4  | 16         | 32.0 | 23.0 |
| 370PLP-8M-6G  | 8              | 3/8  | 19         | 33.0 | 23.0 |
| 370PLP-10M-4G | 10             | 1/4  | 16         | 34.5 | 26.5 |
| 370PLP-10M-6G | 10             | 3/8  | 19         | 35.0 | 26.5 |
| 370PLP-10M-8G | 10             | 1/2  | 24         | 41.0 | 26.5 |
| 370PLP-12M-4G | 12             | 1/4  | 16         | 38.0 | 30.5 |
| 370PLP-12M-6G | 12             | 3/8  | 19         | 38.5 | 30.5 |
| 370PLP-12M-8G | 12             | 1/2  | 24         | 43.5 | 30.5 |

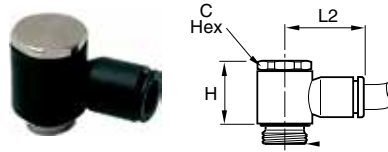
**W369PLPBJ Single Banjo - NPT**

| PART NO.         | TUBE SIZE (IN) | THREAD NPT / UNF | C HEX (MM) | H    | L2   |
|------------------|----------------|------------------|------------|------|------|
| 369PLPBJ-2-0     | 1/8            | 10-32            |            | .79  | .65  |
| 369PLPBJ-5/32-0  | 5/32           | 10-32            |            | .79  | .65  |
| W369PLPBJ-5/32-2 | 5/32           | 1/8              | 13         | .73  | .73  |
| 369PLPBJ-4-0     | 1/4            | 10-32            |            | .79  | .73  |
| W369PLPBJ-4-2    | 1/4            | 1/8              | 13         | .73  | .83  |
| W369PLPBJ-4-4    | 1/4            | 1/4              | 17         | .89  | .91  |
| W369PLPBJ-4-6    | 1/4            | 3/8              | 21         | 1.04 | 1.12 |
| W369PLPBJ-6-4    | 3/8            | 1/4              | 17         | .89  | 1.12 |
| W369PLPBJ-6-6    | 3/8            | 3/8              | 21         | 1.04 | 1.20 |

**W369PLPBJ Banjo - BSPT**

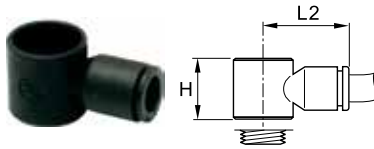
| PART NO.         | TUBE SIZE (MM) | BSPT | C HEX (MM) | H    | L2   |
|------------------|----------------|------|------------|------|------|
| W369PLPBJ-4M-2R  | 4              | 1/8  | 13         | 18.5 | 18.5 |
| W369PLPBJ-6M-2R  | 6              | 1/8  | 13         | 18.5 | 20.0 |
| W369PLPBJ-6M-4R  | 6              | 1/4  | 17         | 22.5 | 22.0 |
| W369PLPBJ-8M-2R  | 8              | 1/8  | 13         | 18.5 | 25.0 |
| W369PLPBJ-8M-4R  | 8              | 1/4  | 17         | 22.5 | 27.0 |
| W369PLPBJ-8M-6R  | 8              | 3/8  | 21         | 26.5 | 29.0 |
| W369PLPBJ-10M-4R | 10             | 1/4  | 17         | 22.5 | 29.0 |
| W369PLPBJ-10M-6R | 10             | 3/8  | 21         | 26.5 | 31.0 |
| W369PLPBJ-12M-4R | 12             | 1/4  | 21         | 26.5 | 34.5 |
| W369PLPBJ-12M-6R | 12             | 3/8  | 21         | 26.5 | 34.5 |
| W369PLPBJ-12M-8R | 12             | 1/2  | 25         | 30.0 | 37.0 |

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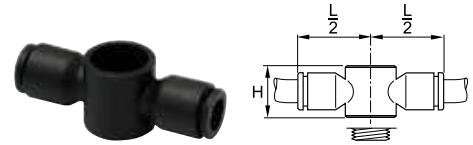
**369PLPBJ Banjo - BSPP**

| PART NO.        | TUBE SIZE (MM) | BSPP / METRIC | C HEX (MM) | H    | L2   |
|-----------------|----------------|---------------|------------|------|------|
| 369PLPBJ-3M-M3* | 3              | M3X0.5        |            | 13.0 | 16.0 |
| 369PLPBJ-3M-M5* | 3              | M5X0.8        |            | 13.0 | 16.0 |
| 369PLPBJ-4M-M5* | 4              | M5X0.8        |            | 13.0 | 16.0 |
| 369PLPBJ-4M-2G  | 4              | 1/8           | 13         | 17.0 | 18.5 |
| 369PLPBJ-6M-M5* | 6              | M5X0.8        |            | 13.0 | 18.5 |
| 369PLPBJ-6M-2G  | 6              | 1/8           | 13         | 17.0 | 20.0 |
| 369PLPBJ-6M-4G  | 6              | 1/4           | 17         | 21.0 | 22.0 |
| 369PLPBJ-8M-2G  | 8              | 1/8           | 13         | 16.5 | 25.0 |
| 369PLPBJ-8M-4G  | 8              | 1/4           | 17         | 21.0 | 27.0 |
| 369PLPBJ-8M-6G  | 8              | 3/8           | 20         | 24.5 | 29.0 |
| 369PLPBJ-10M-4G | 10             | 1/4           | 17         | 21.0 | 29.0 |
| 369PLPBJ-10M-6G | 10             | 3/8           | 20         | 24.5 | 31.0 |
| 369PLPBJ-10M-8G | 10             | 1/2           | 25         | 27.5 | 36.5 |
| 369PLPBJ-12M-6G | 12             | 3/8           | 20         | 24.5 | 34.5 |
| 369PLPBJ-12M-8G | 12             | 1/2           | 25         | 27.5 | 36.5 |

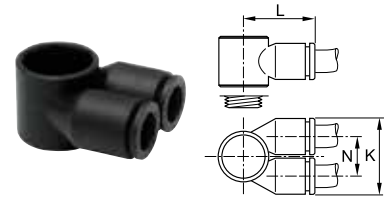
\*With screwdriver slot

**369PLPBJB Single Banjo Bodies**

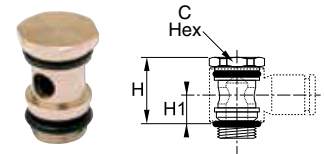
| PART NO.        | TUBE SIZE (MM) | BSPP / M5 | H    | L2   |
|-----------------|----------------|-----------|------|------|
| 369PLPBJB-3M-M5 | 3              | M5X0.8    | 13.0 | 16.0 |
| 369PLPBJB-4M-M5 | 4              | M5X0.8    | 13.0 | 16.0 |
| 369PLPBJB-4M-2G | 4              | 1/8       | 14.5 | 18.5 |
| 369PLPBJB-6M-M5 | 6              | M5X0.8    | 13.0 | 18.5 |
| 369PLPBJB-6M-2G | 6              | 1/8       | 14.5 | 20.0 |
| 369PLPBJB-6M-4G | 6              | 1/4       | 18.0 | 22.0 |
| 369PLPBJB-8M-2G | 8              | 1/8       | 14.5 | 25.0 |
| 369PLPBJB-8M-4G | 8              | 1/4       | 18.0 | 27.0 |
| 369PLPBJB-8M-6G | 8              | 3/8       | 21.5 | 29.0 |
| 369PLPBJB10M-4G | 10             | 1/4       | 18.0 | 29.0 |
| 369PLPBJB10M-6G | 10             | 3/8       | 21.5 | 31.0 |
| 369PLPBJB10M-8G | 10             | 1/2       | 22.5 | 36.5 |
| 369PLPBJB12M-6G | 12             | 3/8       | 21.5 | 34.5 |
| 369PLPBJB12M-8G | 12             | 1/2       | 22.5 | 36.5 |

**32PLPDJB Double Banjo Bodies**

| PART NO.        | TUBE SIZE (MM) | BSPP / M5 | H    | L/2  |
|-----------------|----------------|-----------|------|------|
| 32PLPDJB-4M-M5  | 4              | M5X0.8    | 13.0 | 16.0 |
| 32PLPDJB-4M-2G  | 4              | 1/8       | 14.4 | 20.0 |
| 32PLPDJB-6M-2G  | 6              | 1/8       | 14.4 | 20.0 |
| 32PLPDJB-6M-4G  | 6              | 1/4       | 18.0 | 26.0 |
| 32PLPDJB-8M-4G  | 8              | 1/4       | 18.0 | 27.0 |
| 32PLPDJB-8M-6G  | 8              | 3/8       | 21.5 | 30.5 |
| 32PLPDJB-10M-6G | 10             | 3/8       | 21.5 | 31.0 |

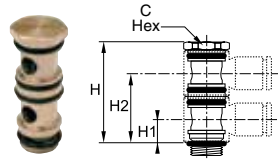
**369PLPTJB Twin Banjo Bodies**

| PART NO.        | TUBE SIZE (MM) | BSPP / M5 | K    | L    | N    |
|-----------------|----------------|-----------|------|------|------|
| 369PLPTJB-4M-M5 | 4              | M5X0.8    | 17.5 | 15.5 | 9.0  |
| 369PLPTJB-4M-2G | 4              | 1/8       | 22.5 | 20.0 | 12.0 |
| 369PLPTJB-4M-4G | 4              | 1/4       | 28.0 | 25.0 | 14.5 |
| 369PLPTJB-6M-2G | 6              | 1/8       | 22.5 | 20.5 | 12.0 |
| 369PLPTJB-6M-4G | 6              | 1/4       | 28.0 | 25.0 | 14.5 |
| 369PLPTJB-6M-6G | 6              | 3/8       | 33.0 | 28.5 | 17.0 |
| 369PLPTJB-8M-4G | 8              | 1/4       | 28.0 | 26.0 | 14.5 |
| 369PLPTJB-8M-6G | 8              | 3/8       | 33.0 | 29.5 | 17.0 |
| 369PLPTJB10M-6G | 10             | 3/8       | 33.0 | 29.5 | 17.0 |

**68BJB Single Banjo Bolt**

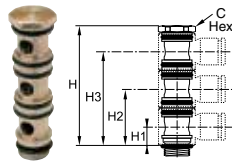
| PART NO.  | BSPP / M5 | C HEX (MM) | H    | H1   |
|-----------|-----------|------------|------|------|
| 68BJB-M5* | M5X0.8    |            | 17.0 | 7.5  |
| 68BJB-2G  | 1/8       | 13         | 17.0 | 7.5  |
| 68BJB-4G  | 1/4       | 17         | 21.0 | 9.5  |
| 68BJB-6G  | 3/8       | 20         | 24.5 | 11.0 |
| 68BJB-8G  | 1/2       | 25         | 27.5 | 11.5 |

\*With screwdriver slot

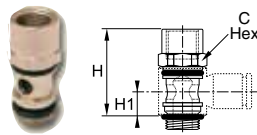
**68BJBD Double Banjo Bolt**

| PART NO.   | BSPP / M5 | C HEX (MM) | H    | H1   | H2   |
|------------|-----------|------------|------|------|------|
| 68BJBD-M5* | M5X0.8    |            | 24.5 | 7.5  | 18.5 |
| 68BJBD-2G  | 1/8       | 13         | 31.0 | 7.5  | 22.0 |
| 68BJBD-4G  | 1/4       | 17         | 39.0 | 9.5  | 27.5 |
| 68BJBD-6G  | 3/8       | 20         | 46.0 | 11.0 | 32.5 |

\*With screwdriver slot

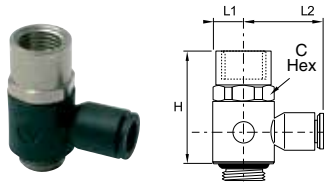
**68BJBT Triple Banjo Bolt**

| PART NO.  | BSPP | C HEX (MM) | H    | H1   | H2   | H3   |
|-----------|------|------------|------|------|------|------|
| 68BJBT-2G | 1/8  | 13         | 45.5 | 7.5  | 22.0 | 36.0 |
| 68BJBT-4G | 1/4  | 17         | 54.0 | 9.5  | 27.5 | 45.5 |
| 68BJBT-6G | 3/8  | 20         | 67.5 | 11.0 | 32.5 | 54.0 |

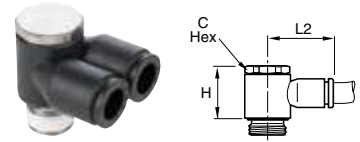
**66BJB Female Threaded Banjo Bolt**

| PART NO.  | 1 BSPP / M5 | 2 BSPP / M5 | C HEX (MM) | H    | H1   |
|-----------|-------------|-------------|------------|------|------|
| 66BJB-M5* | M5X0.8      | M5X0.8      | 8          | 17.0 | 7.5  |
| 66BJB-2G  | 1/8         | 1/8         | 13         | 24.5 | 7.5  |
| 66BJB-4G  | 1/4         | 1/4         | 17         | 33.0 | 9.5  |
| 66BJB-6G  | 3/8         | 3/8         | 20         | 37.5 | 11.0 |
| 66BJB-8G  | 1/2         | 1/2         | 25         | 42.0 | 11.5 |

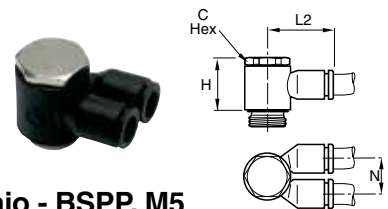
\*With screwdriver slot

**376PLPBJ Banjo with Female Bolt**

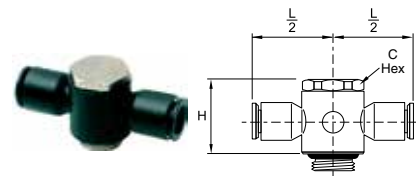
| PART NO.       | TUBE SIZE (MM) | BSPP / M5 | C HEX (MM) | H    | L1  | L2   |
|----------------|----------------|-----------|------------|------|-----|------|
| 376PLPBJ-4M-M5 | 4              | M5X0.8    | 8          | 19.0 | 5.0 | 16.0 |
| 376PLPBJ-4M-2G | 4              | 1/8       | 13         | 25.5 | 7.0 | 18.5 |
| 376PLPBJ-6M-4G | 6              | 1/4       | 17         | 33.0 | 9.0 | 22.0 |
| 376PLPBJ-8M-6G | 8              | 3/8       | 20         | 37.5 | 11  | 29.0 |

**W369PLPTJ Twin Banjo - NPT**

| PART NO.         | TUBE SIZE (IN) | THREAD NPT / UNF | C HEX (MM) | H    | L2   |
|------------------|----------------|------------------|------------|------|------|
| 369PLPTJ-5/32-0  | 5/32           | 10-32            |            | .63  | .61  |
| W369PLPTJ-5/32-2 | 5/32           | 1/8              | 13         | .73  | .73  |
| W369PLPTJ-4-2    | 1/4            | 1/8              | 13         | .73  | .73  |
| W369PLPTJ-4-4    | 1/4            | 1/4              | 17         | .89  | 1.04 |
| W369PLPTJ-6-4    | 3/8            | 1/4              | 21         | 1.04 | 1.22 |
| W369PLPTJ-6-6    | 3/8            | 3/8              | 21         | 1.04 | 1.22 |

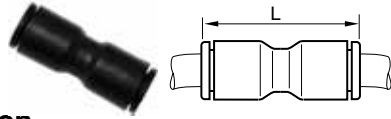
**369PLPTJ Twin Banjo - BSPP, M5**

| PART NO.        | TUBE SIZE (MM) | BSPP / M5 | C HEX (MM) | H    | L2   | N    |
|-----------------|----------------|-----------|------------|------|------|------|
| 369PLPTJ-4M-M5  | 4              | M5X0.8    |            | 13.0 | 16.0 | 9.0  |
| 369PLPTJ-4M-2G  | 4              | 1/8       | 13         | 16.5 | 18.5 | 11.5 |
| 369PLPTJ-6M-2G  | 6              | 1/8       | 13         | 16.5 | 18.5 | 11.5 |
| 369PLPTJ-6M-4G  | 6              | 1/4       | 17         | 21.0 | 27.0 | 14.5 |
| 369PLPTJ-8M-4G  | 8              | 1/4       | 17         | 21.0 | 27.0 | 14.5 |
| 369PLPTJ-8M-6G  | 8              | 3/8       | 20         | 24.5 | 31.0 | 17.0 |
| 369PLPTJ-10M-6G | 10             | 3/8       | 20         | 24.5 | 31.0 | 17.0 |

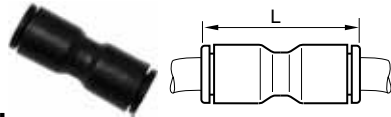
**32PLPDJ Double Banjo - BSPP, M5**

| PART NO.       | TUBE SIZE (MM) | BSPP / M5 | C HEX (MM) | H    | L/2  |
|----------------|----------------|-----------|------------|------|------|
| 32PLPDJ-4M-M5  | 4              | M5X0.8    |            | 13.0 | 16.0 |
| 32PLPDJ-4M-2G  | 4              | 1/8       | 13         | 17.0 | 20.0 |
| 32PLPDJ-6M-2G  | 6              | 1/8       | 13         | 17.0 | 20.0 |
| 32PLPDJ-6M-4G  | 6              | 1/4       | 17         | 21.0 | 26.5 |
| 32PLPDJ-8M-4G  | 8              | 1/4       | 17         | 21.0 | 27.0 |
| 32PLPDJ-8M-6G  | 8              | 3/8       | 20         | 24.5 | 30.5 |
| 32PLPDJ-10M-6G | 10             | 3/8       | 20         | 24.5 | 31.0 |

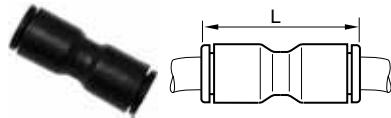
A

**32PLP Equal Union**

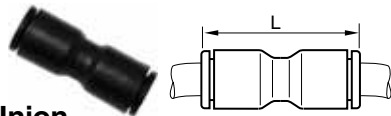
| PART NO.   | TUBE SIZE (IN) | L    |
|------------|----------------|------|
| 32PLP-2    | 1/8            | .97  |
| 32PLP-5/32 | 5/32           | .98  |
| 32PLP-3    | 3/16           | 1.44 |
| 32PLP-4    | 1/4            | 1.16 |
| 32PLP-5    | 5/16           | 1.50 |
| 32PLP-6    | 3/8            | 1.65 |
| 32PLP-8    | 1/2            | 2.17 |

**32PLP Unequal Union**

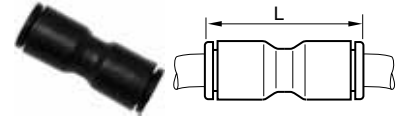
| PART NO.     | 1 TUBE SIZE (IN) | 2 TUBE SIZE (IN) | L    |
|--------------|------------------|------------------|------|
| 32PLP-5/32-2 | 5/32             | 1/8              | 0.96 |
| 32PLP-5/32-4 | 5/32             | 1/4              | 1.16 |
| 32PLP-4-2    | 1/4              | 1/8              | 1.32 |
| 32PLP-5-4    | 5/16             | 1/4              | 1.44 |
| 32PLP-6-4    | 3/8              | 1/4              | 1.61 |
| 32PLP-6-8    | 3/8              | 1/2              | 2.17 |

**32PLP Union**

| PART NO.  | TUBE SIZE (MM) | L    |
|-----------|----------------|------|
| 32PLP-3M  | 3              | 25.0 |
| 32PLP-4M  | 4              | 25.0 |
| 32PLP-6M  | 6              | 28.5 |
| 32PLP-8M  | 8              | 38.0 |
| 32PLP-10M | 10             | 42.0 |
| 32PLP-12M | 12             | 50.5 |
| 32PLP-14M | 14             | 56.0 |
| 32PLP-16M | 16             | 60.5 |

**32PLP Unequal Union**

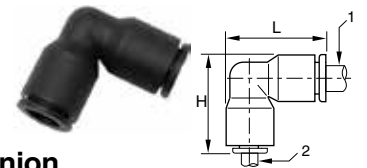
| PART NO.      | 1 TUBE SIZE (MM) | 2 TUBE SIZE (MM) | L    |
|---------------|------------------|------------------|------|
| 32PLP-3M-4M   | 3                | 4                | 25.0 |
| 32PLP-6M-4M   | 6                | 4                | 28.0 |
| 32PLP-8M-4M   | 8                | 4                | 28.0 |
| 32PLP-8M-6M   | 8                | 6                | 38.0 |
| 32PLP-10M-6M  | 10               | 6                | 42.0 |
| 32PLP-10M-8M  | 10               | 8                | 42.0 |
| 32PLP-12M-10M | 12               | 10               | 50.5 |
| 32PLP-12M-14M | 12               | 14               | 56.0 |
| 32PLP-12M-8M  | 12               | 8                | 50.5 |
| 32PLP-16M-12M | 16               | 12               | 61.0 |

**32PLP Converter**

| PART NO.    | TUBE SIZE (IN) | TUBE SIZE (MM) | L    |
|-------------|----------------|----------------|------|
| 32PLP-6M-4  | 1/4            | 6              | 1.18 |
| 32PLP-10M-6 | 3/8            | 10             | 1.99 |
| 32PLP-12M-8 | 1/2            | 12             | 2.25 |

**365PLP Union Elbow**

| PART NO.    | TUBE SIZE (IN) | L    |
|-------------|----------------|------|
| 365PLP-2    | 1/8            | .71  |
| 365PLP-5/32 | 5/32           | .75  |
| 365PLP-3    | 3/16           | 1.07 |
| 365PLP-4    | 1/4            | .93  |
| 365PLP-5    | 5/16           | 1.16 |
| 365PLP-6    | 3/8            | 1.33 |
| 365PLP-8    | 1/2            | 1.38 |

**365PLP Unequal Union**

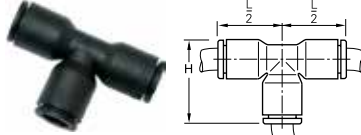
| PART NO.      | 1 TUBE SIZE (IN) | 2 TUBE SIZE (IN) | L    | H    |
|---------------|------------------|------------------|------|------|
| 365PLP-2-4    | 1/8              | 1/4              | .93  | .93  |
| 365PLP-5/32-4 | 5/32             | 1/4              | .93  | .93  |
| 365PLP-6-4    | 3/8              | 1/4              | 1.33 | 1.30 |
| 365PLP-6-8    | 3/8              | 1/2              | 1.81 | 1.81 |

**365PLP Union Elbow**

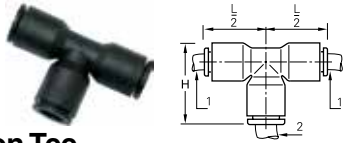
| PART NO.   | TUBE SIZE (MM) | L    |
|------------|----------------|------|
| 365PLP-4M  | 4              | 19.0 |
| 365PLP-6M  | 6              | 22.5 |
| 365PLP-8M  | 8              | 29.5 |
| 365PLP-10M | 10             | 34.5 |
| 365PLP-12M | 12             | 40.5 |
| 365PLP-14M | 14             | 46.5 |
| 365PLP-16M | 16             | 52.0 |

**365PLP Unequal Union Elbow**

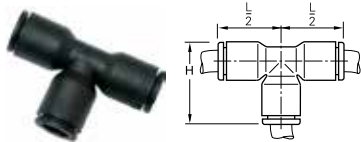
| PART NO.       | 1 TUBE SIZE (MM) | 2 TUBE SIZE (MM) | L    |
|----------------|------------------|------------------|------|
| 365PLP-4M-6M   | 4                | 6                | 22.5 |
| 365PLP-6M-8M   | 6                | 8                | 29.5 |
| 365PLP-8M-10M  | 8                | 10               | 34.5 |
| 365PLP-10M-12M | 10               | 12               | 40.5 |

**364PLP Union Tee**

| PART NO.    | TUBE SIZE (IN) | L/2  | H    |
|-------------|----------------|------|------|
| 364PLP-2    | 1/8            | .57  | .75  |
| 364PLP-5/32 | 5/32           | .57  | .75  |
| 364PLP-3    | 3/16           | .85  | 1.07 |
| 364PLP-4    | 1/4            | .93  | .89  |
| 364PLP-5    | 5/16           | .91  | 1.16 |
| 364PLP-6    | 3/8            | 1.02 | 1.34 |
| 364PLP-8    | 1/2            | 1.38 | 1.81 |

**364PLP Unequal Union Tee**

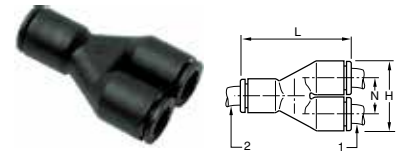
| PART NO.      | 1 TUBE SIZE (IN) | 2 TUBE SIZE (IN) | L/2  | H    |
|---------------|------------------|------------------|------|------|
| 364PLP-2-4    | 1/8              | 1/4              | .71  | .93  |
| 364PLP-5/32-4 | 5/32             | 1/4              | .71  | .93  |
| 364PLP-4-2    | 1/4              | 1/8              | .73  | .93  |
| 364PLP-4-5/32 | 1/4              | 5/32             | .73  | .93  |
| 364PLP-4-6    | 1/4              | 3/8              | .96  | 1.32 |
| 364PLP-6-4    | 3/8              | 1/4              | 1.00 | 1.28 |
| 364PLP-6-8    | 3/8              | 1/2              | 1.38 | 1.81 |
| 364PLP-8-4    | 1/2              | 1/4              | 1.38 | 1.81 |
| 364PLP-8-6    | 1/2              | 3/8              | 1.38 | 1.81 |

**364PLP Union Tee**

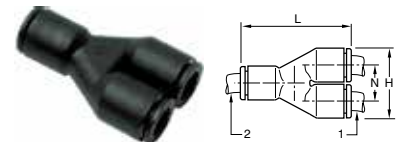
| PART NO.   | TUBE SIZE (MM) | H    | L/2  |
|------------|----------------|------|------|
| 364PLP-3M  | 3              | 19.0 | 14.5 |
| 364PLP-4M  | 4              | 19.0 | 14.5 |
| 364PLP-6M  | 6              | 23.5 | 18.0 |
| 364PLP-8M  | 8              | 29.5 | 23.0 |
| 364PLP-10M | 10             | 34.5 | 26.5 |
| 364PLP-12M | 12             | 40.5 | 31.0 |
| 364PLP-14M | 14             | 46.0 | 35.5 |
| 364PLP-16M | 16             | 52.0 | 39.0 |

**364PLP Unequal Union Tee**

| PART NO.       | 1 TUBE SIZE (MM) | 2 TUBE SIZE (MM) | H    | L/2  |
|----------------|------------------|------------------|------|------|
| 364PLP-4M-6M   | 4                | 6                | 22.5 | 17.5 |
| 364PLP-6M-4M   | 6                | 4                | 22.5 | 17.5 |
| 364PLP-6M-8M   | 6                | 8                | 29.5 | 23.0 |
| 364PLP-8M-6M   | 8                | 6                | 29.5 | 23.0 |
| 364PLP-8M-10M  | 8                | 10               | 34.5 | 26.5 |
| 364PLP-10M-12M | 10               | 12               | 34.5 | 26.5 |
| 364PLP-10M-8M  | 10               | 8                | 40.5 | 31.0 |
| 364PLP-12M-10M | 12               | 10               | 40.5 | 31.0 |
| 364PLP-14M-8M  | 14               | 8                | 46.0 | 35.5 |
| 364PLP-16M-12M | 16               | 12               | 39.0 |      |

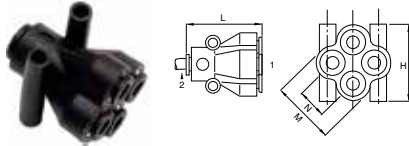
**362PLP Union Y Connector**

| PART NO.      | 1 TUBE SIZE (IN) | 2 TUBE SIZE (IN) | L    | H    | N   |
|---------------|------------------|------------------|------|------|-----|
| 362PLP-2      | 1/8              | 1/8              | 1.12 | .69  | .35 |
| 362PLP-2-4    | 1/8              | 1/4              | 1.42 | .87  | .45 |
| 362PLP-5/32   | 5/32             | 5/32             | 1.12 | .69  | .35 |
| 362PLP-5/32-4 | 5/32             | 1/4              | 1.42 | .87  | .45 |
| 362PLP-4      | 1/4              | 1/4              | 1.42 | .87  | .45 |
| 362PLP-4-6    | 1/4              | 3/8              | 1.31 | 1.30 | .67 |
| 362PLP-5      | 5/16             | 5/16             | 1.77 | 1.10 | .57 |
| 362PLP-6      | 3/8              | 3/8              | 2.09 | 1.30 | .67 |

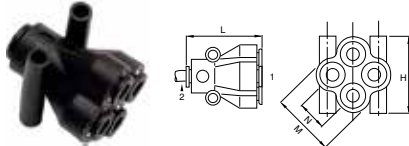
**362PLP Union Y Connector**

| PART NO.       | 1 TUBE SIZE (MM) | 2 TUBE SIZE (M) | H    | L    | N    |
|----------------|------------------|-----------------|------|------|------|
| 362PLP-4M      | 4                | 4               | 17.5 | 28.5 | 9.0  |
| 362PLP-6M      | 6                | 6               | 21.5 | 35.0 | 11.0 |
| 362PLP-8M      | 8                | 8               | 28.0 | 45.0 | 14.5 |
| 362PLP-10M     | 10               | 10              | 33.0 | 53.0 | 17.0 |
| 362PLP-12M     | 12               | 12              | 39.0 | 57.0 | 20.0 |
| 362PLP-4M-6M   | 4                | 6               | 17.5 | 33.0 | 9.0  |
| 362PLP-6M-8M   | 6                | 8               | 22.5 | 41.0 | 11.5 |
| 362PLP-8M-10M  | 8                | 10              | 28.0 | 47.0 | 14.5 |
| 362PLP-10M-12M | 10               | 12              | 33.0 | 57.0 | 17.0 |

A

**362PLPD Double Y Connector**

| PART NO.       | 1 TUBE SIZE (IN) | 2 TUBE SIZE (IN) | H    | L    | M   | N   | MOUNTING HOLE DIA. |
|----------------|------------------|------------------|------|------|-----|-----|--------------------|
| 362PLPD-5/32   | 5/32             | 5/32             | 1.00 | 1.20 | .83 | .39 | .15                |
| 362PLPD-5/32-4 | 5/32             | 1/4              | 1.00 | 1.18 | .83 | .39 | .15                |

**362PLPD Double Y Connector**

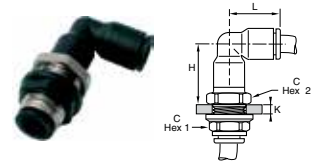
| PART NO.      | 1 TUBE SIZE (MM) | 2 TUBE SIZE (MM) | H    | L    | M    | N    | MOUNTING HOLE DIA. |
|---------------|------------------|------------------|------|------|------|------|--------------------|
| 362PLPD-4M    | 4                | 4                | 25.5 | 30.5 | 21.0 | 10.0 | 3.7                |
| 362PLPD-6M    | 6                | 6                | 31.5 | 37.5 | 26.5 | 12.0 | 3.7                |
| 362PLPD-4M-6M | 4                | 6                | 25.5 | 30.5 | 21.0 | 10.0 | 3.7                |
| 362PLPD-6M-8M | 6                | 8                | 31.5 | 38.0 | 26.5 | 12.0 | 3.7                |

**32PLPBH Bulkhead Union**

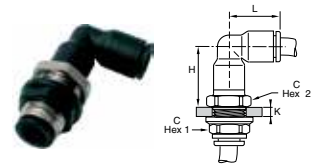
| PART NO.     | TUBE SIZE (IN) | C HEX (MM) | K MAX | L1  | L2   |
|--------------|----------------|------------|-------|-----|------|
| 32PLPBH-2    | 1/8            | 13         | .22   | .37 | .61  |
| 32PLPBH-5/32 | 5/32           | 13         | .22   | .59 | .39  |
| 32PLPBH-4    | 1/4            | 16         | .35   | .37 | .81  |
| 32PLPBH-5    | 5/16           | 18         | .57   | .98 | .53  |
| 32PLPBH-6    | 3/8            | 22         | .57   | .51 | 1.18 |
| 32PLPBH-8    | 1/2            | 29         | .81   | .67 | 1.61 |

**32PLPBH Bulkhead Union**

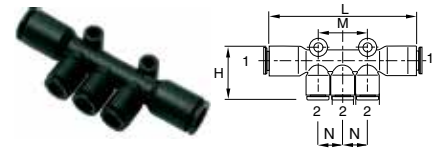
| PART NO.    | TUBE SIZE (MM) | C HEX (MM) | K MAX | L1   | L2   |
|-------------|----------------|------------|-------|------|------|
| 32PLPBH-4M  | 4              | 13         | 5.5   | 15.0 | 10.0 |
| 32PLPBH-6M  | 6              | 15         | 8.5   | 18.0 | 10.5 |
| 32PLPBH-8M  | 8              | 18         | 14.5  | 25.0 | 13.5 |
| 32PLPBH-10M | 10             | 22         | 14.5  | 27.5 | 15.5 |
| 32PLPBH-12M | 12             | 26         | 18.5  | 33.0 | 18.0 |
| 32PLPBH-14M | 14             | 29         | 20.5  | 37.5 | 20.5 |

**365PLPBH Equal Bulkhead Elbow**

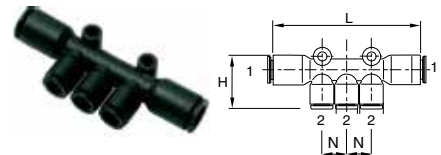
| PART NO.      | TUBE SIZE (IN) | C1 HEX | C2 HEX | K MAX | H    | L    |
|---------------|----------------|--------|--------|-------|------|------|
| 365PLPBH-2    | 1/8            | 13     | 13     | .28   | .71  | .57  |
| 365PLPBH-5/32 | 5/32           |        | 13     | .26   | .83  | .67  |
| 365PLPBH-4    | 1/4            | 18     | 17     | .32   | .87  | .71  |
| 365PLPBH-5    | 5/16           |        | 18     | .31   | 1.22 | .94  |
| 365PLPBH-6    | 3/8            | 22     | 22     | .33   | 1.08 | 1.00 |
| 365PLPBH-8    | 1/2            | 29     | 27     | .41   | 1.54 | 1.38 |

**365PLPBH Equal Bulkhead Elbow**

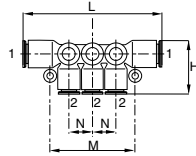
| PART NO.     | TUBE SIZE (MM) | C1 HEX | C2 HEX | K MAX | H    | L    |
|--------------|----------------|--------|--------|-------|------|------|
| 365PLPBH-4M  | 4              | 13     | 13     | 6.5   | 21.0 | 17.0 |
| 365PLPBH-6M  | 6              | 15     | 15     | 7.0   | 24.5 | 19.5 |
| 365PLPBH-8M  | 8              | 18     | 18     | 8.0   | 31.0 | 24.0 |
| 365PLPBH-10M | 10             | 22     | 22     | 8.5   | 36.0 | 28.0 |
| 365PLPBH-12M | 12             | 26     | 26     | 8.5   | 42.0 | 33.0 |

**24PLP Multiple Tee**

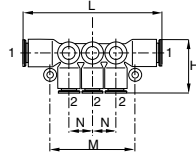
| PART NO.     | 1 TUBE SIZE (IN) | 2 TUBE SIZE (IN) | H    | L    | M    | N   | MOUNTING HOLE DIA. |
|--------------|------------------|------------------|------|------|------|-----|--------------------|
| 24PLP-4-5/32 | 1/4              | 5/32             | 0.97 | 2.81 | .90  | .45 | .17                |
| 24PLP-4-4    | 1/4              | 1/4              | 1.22 | 3.14 | 1.21 | .61 | .17                |
| 24PLP-5-5/32 | 5/16             | 5/32             | 0.96 | 2.91 |      | .45 | .17                |
| 24PLP-6-4    | 3/8              | 1/4              | 1.34 | 3.21 | 1.22 | .61 | .17                |

**24PLP Multiple Tee**

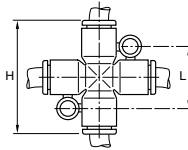
| PART NO.     | 1 TUBE SIZE (MM) | 2 TUBE SIZE (M) | H    | L  | N    | MOUNTING HOLE DIA. |
|--------------|------------------|-----------------|------|----|------|--------------------|
| 24PLP-6M-4M  | 6                | 4               | 24.5 | 74 | 11.5 | 4.2                |
| 24PLP-8M-4M  | 8                | 4               | 24.5 | 74 | 11.5 | 4.2                |
| 24PLP-8M-6M  | 8                | 6               | 24.5 | 74 | 11.5 | 4.2                |
| 24PLP-10M-6M | 10               | 6               | 36.0 | 81 | 14.5 | 4.2                |
| 24PLP-10M-8M | 10               | 8               | 36.0 | 81 | 14.5 | 4.2                |

**24PLPD Double Multiple Tee**

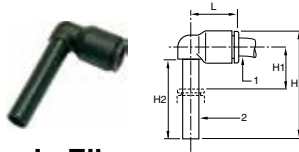
| PART NO.      | 1 TUBE SIZE (IN) | 2 TUBE SIZE (IN) | H   | L    | M    | N   | MOUNTING HOLE DIA. |
|---------------|------------------|------------------|-----|------|------|-----|--------------------|
| 24PLPD-4-5/32 | 1/4              | 5/32             | .73 | 2.84 | 1.69 | .45 | .17                |
| 24PLPD-4-4    | 1/4              | 1/4              | .73 | 2.84 | 1.69 | .45 | .17                |
| 24PLPD-5-5/32 | 5/16             | 5/32             | .77 | 2.87 | 1.69 | .45 | .17                |
| 24PLPD-6-4    | 3/8              | 1/4              | .91 | 3.31 | 2.05 | .57 | .17                |

**24PLPD Double Multiple Tee**

| PART NO.      | 1 TUBE SIZE (MM) | 2 TUBE SIZE (MM) | H    | L    | M    | N    | MOUNTING HOLE DIA. |
|---------------|------------------|------------------|------|------|------|------|--------------------|
| 24PLPD-6M-4M  | 6                | 4                | 18.5 | 72.0 | 43.0 | 11.5 | 4.2                |
| 24PLPD-8M-4M  | 8                | 4                | 18.5 | 73.0 | 43.0 | 11.5 | 4.2                |
| 24PLPD-8M-6M  | 8                | 6                | 18.5 | 73.0 | 43.0 | 11.5 | 4.2                |
| 24PLPD-10M-6M | 10               | 6                | 23.0 | 84.0 | 52.0 | 14.5 | 4.2                |
| 24PLPD-10M-8M | 10               | 8                | 23.5 | 84.0 | 52.0 | 14.5 | 4.2                |



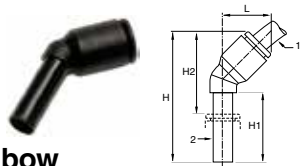
A

**369PLPSPX Extended Plug-In Elbow**

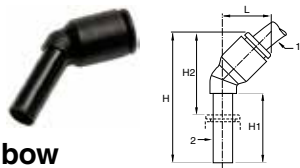
| PART NO.       | 1 TUBE SIZE (IN) | 2 TUBE SIZE (IN) | H    | H1   | H2   | L    |
|----------------|------------------|------------------|------|------|------|------|
| 369PLPSPX-2    | 1/8              | 1/8              | 1.26 | .65  | .98  | .57  |
| 369PLPSPX-5/32 | 5/32             | 5/32             | 1.28 | .61  | .98  | .55  |
| 369PLPSPX-4    | 1/4              | 1/4              | 1.56 | .77  | 1.18 | .71  |
| 369PLPSPX-5    | 5/16             | 5/16             | 1.93 | .93  | 1.46 | .91  |
| 369PLPSPX-6    | 3/8              | 3/8              | 2.19 | 1.02 | 1.63 | 1.02 |

**369PLPSPX Extended Plug-In Elbow**

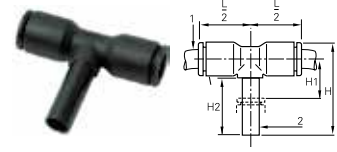
| PART NO.          | 1 TUBE SIZE (MM) | 2 TUBE SIZE (MM) | H    | H1   | H2   | L    |
|-------------------|------------------|------------------|------|------|------|------|
| 369PLPSPX-4M      | 4                | 4                | 32.5 | 15.5 | 25.0 | 14.0 |
| 369PLPSPX-6M      | 6                | 6                | 38.5 | 19.0 | 29.0 | 16.0 |
| 369PLPSPX-8M      | 8                | 8                | 49.0 | 23.5 | 37.0 | 23.0 |
| 369PLPSPX-10M     | 10               | 10               | 56.0 | 26.5 | 41.5 | 26.5 |
| 369PLPSPX-12M     | 12               | 12               | 62.5 | 28.0 | 45.5 | 31.0 |
| 369PLPSPX-4M-6M   | 4                | 6                | 38.5 | 19.0 | 29.0 | 16.0 |
| 369PLPSPX-6M-8M   | 6                | 8                | 49.0 | 23.5 | 37.0 | 23.0 |
| 369PLPSPX-8M-10M  | 8                | 10               | 56.0 | 26.5 | 41.5 | 26.5 |
| 369PLPSPX-10M-12M | 10               | 12               | 62.5 | 28.0 | 45.5 | 31.0 |

**379PLPSP 45° Plug-In Elbow**

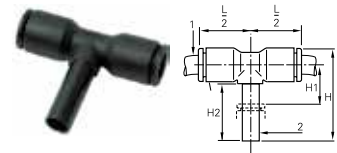
| PART NO.      | 1 TUBE SIZE (IN) | 2 TUBE SIZE (IN) | H    | H1  | H2   | L   |
|---------------|------------------|------------------|------|-----|------|-----|
| 379PLPSP-2    | 1/8              | 1/8              | 1.14 | .59 | .69  | .47 |
| 379PLPSP-5/32 | 5/32             | 5/32             | 1.32 | .75 | .83  | .51 |
| 379PLPSP-4    | 1/4              | 1/4              | 1.44 | .71 | .87  | .57 |
| 379PLPSP-5    | 5/16             | 5/16             | 1.73 | .85 | 1.00 | .77 |
| 379PLPSP-6    | 3/8              | 3/8              | 2.00 | .96 | 1.16 | .91 |

**379PLPSP 45° Plug-In Elbow**

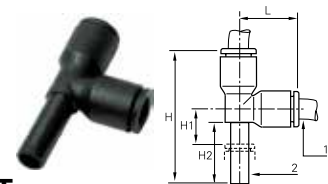
| PART NO.     | 1 TUBE SIZE (MM) | 2 TUBE SIZE (MM) | H    | H1   | H2   | L    |
|--------------|------------------|------------------|------|------|------|------|
| 379PLPSP-4M  | 4                | 4                | 33.5 | 19.0 | 21.0 | 13.0 |
| 379PLPSP-6M  | 6                | 6                | 39.0 | 21.0 | 25.0 | 14.5 |
| 379PLPSP-8M  | 8                | 8                | 44.0 | 21.5 | 25.5 | 19.5 |
| 379PLPSP-10M | 10               | 10               | 53.0 | 27.0 | 32.5 | 23.0 |
| 379PLPSP-12M | 12               | 12               | 58.5 | 27.5 | 34.0 | 26.5 |

**372PLPSP Plug-In Branch Tee**

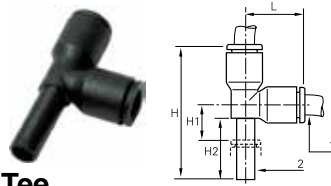
| PART NO.      | 1 TUBE SIZE (IN) | 2 TUBE SIZE (IN) | H    | H1  | H2   | L/2  |
|---------------|------------------|------------------|------|-----|------|------|
| 372PLPSP-2    | 1/8              | 1/8              | .95  | .26 | .59  | .57  |
| 372PLPSP-5/32 | 5/32             | 5/32             | .91  | .24 | .61  | .57  |
| 372PLPSP-4    | 1/4              | 1/4              | .98  | .43 | .77  | .73  |
| 372PLPSP-5    | 5/16             | 5/16             | 1.32 | .32 | .85  | .91  |
| 372PLPSP-6    | 3/8              | 3/8              | 1.61 | .35 | .96  | .98  |
| 372PLPSP-8    | 1/2              | 1/2              | 2.01 | .51 | 1.12 | 1.38 |

**372PLPSP Plug-In Branch Tee**

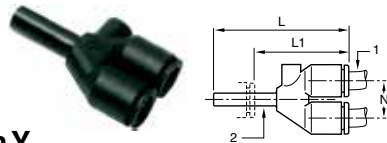
| PART NO.         | 1 TUBE SIZE (MM) | 2 TUBE SIZE (MM) | H    | H1   | H2   | L/2  |
|------------------|------------------|------------------|------|------|------|------|
| 372PLPSP-4M      | 4                | 4                | 23.0 | 6.0  | 15.5 | 14.5 |
| 372PLPSP-6M      | 6                | 6                | 26.5 | 7.0  | 17.0 | 16.0 |
| 372PLPSP-8M      | 8                | 8                | 33.5 | 8.0  | 21.5 | 23.0 |
| 372PLPSP-10M     | 10               | 10               | 39.0 | 9.5  | 24.5 | 26.5 |
| 372PLPSP-12M     | 12               | 12               | 44.5 | 10.0 | 27.5 | 31.0 |
| 372PLPSP-4M-6M   | 4                | 6                | 26.5 | 7.0  | 17.0 | 16.0 |
| 372PLPSP-6M-8M   | 6                | 8                | 33.5 | 8.0  | 21.5 | 23.0 |
| 372PLPSP-8M-10M  | 8                | 10               | 39.0 | 9.5  | 24.5 | 26.5 |
| 372PLPSP-10M-12M | 10               | 12               | 44.5 | 10.0 | 27.5 | 31.0 |

**371PLPSP Plug-In Run Tee**

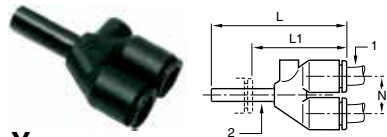
| PART NO.      | 1 TUBE SIZE (IN) | 2 TUBE SIZE (IN) | H    | H1  | H2   | L    |
|---------------|------------------|------------------|------|-----|------|------|
| 371PLPSP-5/32 | 5/32             | 5/32             | 1.30 | .24 | .61  | .57  |
| 371PLPSP-4    | 1/4              | 1/4              | 1.69 | .43 | .83  | .73  |
| 371PLPSP-5    | 5/16             | 5/16             | 1.93 | .32 | .85  | .91  |
| 371PLPSP-6    | 3/8              | 3/8              | 2.23 | .33 | .96  | 1.00 |
| 371PLPSP-8    | 1/2              | 1/2              | 2.86 | .51 | 1.12 | 1.38 |

**371PLPSP Plug-In Run Tee**

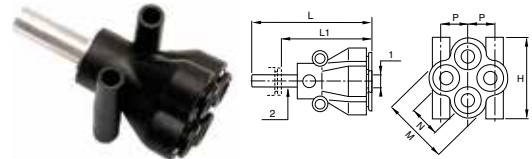
| PART NO.        | 1 TUBE SIZE (MM) | 2 TUBE SIZE (MM) | H    | H1   | H2   | L    |
|-----------------|------------------|------------------|------|------|------|------|
| 371PLPSP-4M     | 4                | 4                | 33.0 | 6.0  | 15.5 | 14.5 |
| 371PLPSP-6M     | 6                | 6                | 38.5 | 7.0  | 17.0 | 17.5 |
| 371PLPSP-8M     | 8                | 8                | 49.0 | 8.0  | 21.5 | 23.0 |
| 371PLPSP-10M    | 10               | 10               | 57.0 | 10.5 | 24.5 | 26.5 |
| 371PLPSP-12M    | 12               | 12               | 65.5 | 10.5 | 27.5 | 31.0 |
| 371PLPSP-4M-6M  | 4                | 6                | 10.5 | 7.0  | 17.0 | 17.5 |
| 371PLPSP-6M-8M  | 6                | 8                | 13.5 | 8.0  | 21.5 | 23.0 |
| 371PLPSP-8M-10M | 8                | 10               | 16.0 | 10.5 | 24.5 | 26.5 |
| 371PLPSP-1012M  | 10               | 12               | 19.0 | 10.5 | 27.5 | 31.0 |

**362PLPSP Plug-In Y**

| PART NO.      | 1 TUBE SIZE (IN) | 2 TUBE SIZE (IN) | L    | L1   | N   |
|---------------|------------------|------------------|------|------|-----|
| 362PLPSP-2    | 1/8              | 1/8              | 1.36 | 1.00 | .35 |
| 362PLPSP-5/32 | 5/32             | 5/32             | 1.34 | .85  | .35 |
| 362PLPSP-4    | 1/4              | 1/4              | 1.60 | 1.02 | .45 |
| 362PLPSP-5    | 5/16             | 5/16             | 2.00 | 1.26 | .57 |
| 362PLPSP-6    | 3/8              | 3/8              | 2.23 | 1.42 | .67 |

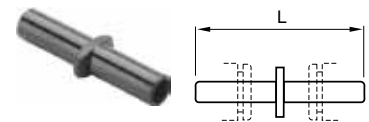
**362PLPSP Plug-In Y**

| PART NO.        | 1 TUBE SIZE (MM) | 2 TUBE SIZE (M) | L    | L1   | N    |
|-----------------|------------------|-----------------|------|------|------|
| 362PLPSP-4M     | 4                | 4               | 34.0 | 21.5 | 9.0  |
| 362PLPSP-6M     | 6                | 6               | 39.5 | 25.5 | 11.0 |
| 362PLPSP-8M     | 8                | 8               | 50.5 | 32.0 | 14.5 |
| 362PLPSP-10M    | 10               | 10              | 57.5 | 36.0 | 17.0 |
| 362PLPSP-12M    | 12               | 12              | 66.0 | 41.0 | 20.0 |
| 362PLPSP-4M-6M  | 4                | 6               | 35.5 | 21.5 | 9.0  |
| 362PLPSP-6M-8M  | 6                | 8               | 44.0 | 25.5 | 11.0 |
| 362PLPSP-8M-10M | 8                | 10              | 53.5 | 32.0 | 14.5 |
| 362PLPSP10M-12M | 10               | 12              | 60.0 | 35.0 | 17.0 |

**362PLPDSP Plug-In Multiple Y**

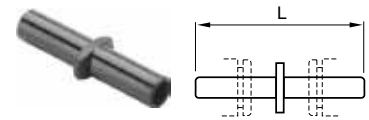
| PART NO.        | 1 TUBE SIZE (MM) | 2 TUBE SIZE (M) | H    | L    | L1   | M    | N    |
|-----------------|------------------|-----------------|------|------|------|------|------|
| 362PLPDSP-6M-4M | 4                | 6               | 25.5 | 45.0 | 31.0 | 21.0 | 10.0 |
| 362PLPDSP-8M-4M | 4                | 8               | 25.5 | 49.5 | 31.0 | 21.0 | 10.0 |
| 362PLPDSP-8M-6M | 6                | 8               | 31.5 | 59.5 | 41.0 | 26.5 | 12.0 |

\*Aluminum tail piece

**63PLP Double Male Union**

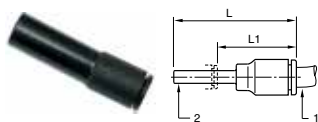
| PART NO.   | TUBE SIZE (IN) | L    |
|------------|----------------|------|
| 63PLP-5/32 | 5/32           | 1.36 |
| 63PLP-4    | 1/4            | 1.52 |
| 63PLP-5    | 5/16           | 1.61 |
| 63PLP-6    | 3/8            | 2.03 |
| 63PLP-8*   | 1/2            | 2.13 |

\*Nickel-plated brass

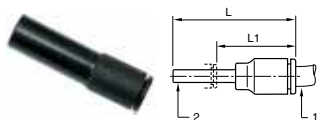
**63PLP Double Male Union**

| PART NO.  | TUBE SIZE (MM) | L      |
|-----------|----------------|--------|
| 63PLP-4M  | 4              | 34 1/2 |
| 63PLP-6M  | 6              | 38 1/2 |
| 63PLP-8M  | 8              | 41     |
| 63PLP-10M | 10             | 51 1/2 |
| 63PLP-12M | 12             | 60     |
| 63PLP-14M | 14             | 69 1/2 |

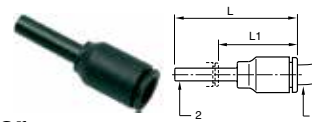
A

**67PLP Tube End Reducer**

| PART NO.     | 1 TUBE SIZE (IN) | 2 TUBE SIZE (IN) | L    | L1   |
|--------------|------------------|------------------|------|------|
| 67PLP-2-5/32 | 1/8              | 5/32             | 1.79 | 1.32 |
| 67PLP-2-3    | 1/8              | 3/16             | 1.79 | 1.14 |
| 67PLP-2-4    | 1/8              | 1/4              | 1.79 | 1.22 |
| 67PLP-5/32-3 | 5/32             | 3/16             | 1.48 | .83  |
| 67PLP-5/32-4 | 5/32             | 1/4              | 1.48 | .91  |
| 67PLP-5/32-5 | 5/32             | 5/16             | 1.48 | .75  |
| 67PLP-5/32-6 | 5/32             | 3/8              | 1.61 | .81  |
| 67PLP-3-5    | 3/16             | 5/16             | 1.79 | 1.06 |
| 67PLP-3-4    | 3/16             | 1/4              | 1.79 | 1.22 |
| 67PLP-4-5    | 1/4              | 5/16             | 1.61 | .89  |
| 67PLP-4-6    | 1/4              | 3/8              | 1.61 | .81  |
| 67PLP-4-8    | 1/4              | 1/2              | 1.97 | .98  |
| 67PLP-5-6    | 5/16             | 3/8              | 1.93 | 1.12 |
| 67PLP-5-8    | 5/16             | 1/2              | 2.01 | 1.02 |
| 67PLP-6-8    | 3/8              | 1/2              | 2.01 | 1.04 |

**67PLP Tube Reducer**

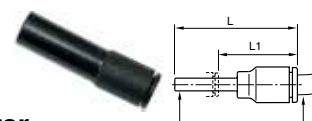
| PART NO.      | 1 TUBE SIZE (MM) | 2 TUBE SIZE (MM) | L    | L1   |
|---------------|------------------|------------------|------|------|
| 67PLP-6M-4M   | 4                | 6                | 37.5 | 23.5 |
| 67PLP-8M-4M   | 4                | 8                | 37.5 | 19.0 |
| 67PLP-8M-6M   | 6                | 8                | 36.0 | 20.5 |
| 67PLP-10M-4M  | 4                | 10               | 44.0 | 22.5 |
| 67PLP-10M-6M  | 6                | 10               | 38.0 | 17.5 |
| 67PLP-10M-8M  | 8                | 10               | 49.0 | 28.5 |
| 67PLP-12M-10M | 10               | 12               | 56.5 | 33.5 |
| 67PLP-12M-6M  | 6                | 12               | 46.0 | 23.0 |
| 67PLP-12M-8M  | 8                | 12               | 49.0 | 24.5 |
| 67PLP-14M-10M | 10               | 14               | 58.5 | 33.5 |
| 67PLP-14M-12M | 12               | 14               | 58.5 | 33.5 |
| 67PLP-14M-6M  | 6                | 14               | 48.0 | 23.0 |
| 67PLP-14M-8M  | 8                | 14               | 48.0 | 23.0 |

**32PLPSP Tube Expander**

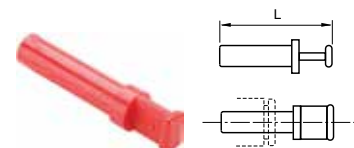
| PART NO.       | 1 TUBE SIZE (IN) | 2 TUBE SIZE (IN) | L    | L1   |
|----------------|------------------|------------------|------|------|
| 32PLPSP-4-2    | 1/4              | 1/8              | 1.61 | 1.16 |
| 32PLPSP-4-6M   | 1/4              | 6M               | 1.75 | 1.02 |
| 32PLPSP-4-5/32 | 1/4              | 5/32             | 1.61 | 1.14 |
| 32PLPSP-4-3    | 1/4              | 3/16             | 1.61 | 1.00 |
| 32PLPSP-6-4    | 3/8              | 1/4              | 1.58 | 1.00 |

**32PLPSP Tube Expander**

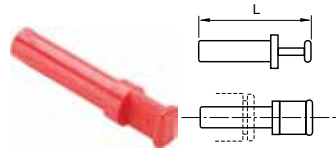
| PART NO.        | 1 TUBE SIZE (MM) | 2 TUBE SIZE (MM) | L    | L1   |
|-----------------|------------------|------------------|------|------|
| 32PLPSP-6M-4M   | 6                | 4                | 35.0 | 23.0 |
| 32PLPSP-8M-6M   | 8                | 6                | 45.0 | 31.5 |
| 32PLPSP-10M-8M  | 10               | 8                | 42.5 | 21.0 |
| 32PLPSP-12M-10M | 12               | 10               | 49.0 | 24.5 |

**32PLPSP Tube Converter**

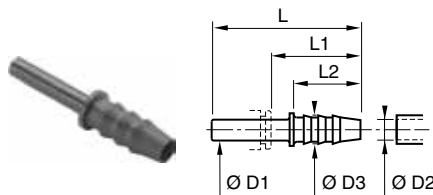
| PART NO.     | 1 TUBE SIZE (IN) | 2 TUBE SIZE (MM) | L    | L1   |
|--------------|------------------|------------------|------|------|
| 32PLPSP-4M-2 | 1/8              | 4M               | 1.61 | 1.16 |
| 32PLPSP-8M-4 | 1/4              | 8M               | 1.58 | 1.00 |

**639PLP Plug**

| PART NO.    | TUBE SIZE (IN) | L    |
|-------------|----------------|------|
| 639PLP-2    | 1/8            | 1.30 |
| 639PLP-5/32 | 5/32           | 1.18 |
| 639PLP-3    | 3/16           | 1.36 |
| 639PLP-4    | 1/4            | 1.44 |
| 639PLP-5    | 5/16           | 1.38 |
| 639PLP-6    | 3/8            | 1.67 |
| 639PLP-8    | 1/2            | 1.91 |

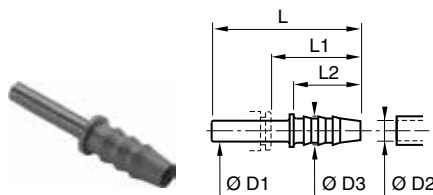
**639PLP Plug**

| PART NO.   | TUBE SIZE (MM) | L  |
|------------|----------------|----|
| 639PLP-3M  | 3              | 25 |
| 639PLP-4M  | 4              | 30 |
| 639PLP-6M  | 6              | 33 |
| 639PLP-8M  | 8              | 33 |
| 639PLP-10M | 10             | 42 |
| 639PLP-12M | 12             | 45 |
| 639PLP-14M | 14             | 49 |
| 639PLP-16M | 16             | 57 |

**322PLPSP Barbed Connector**

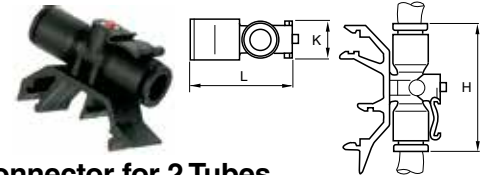
| PART NO.         | OD 1 | OD 2 | OD 3 | L    | L1   | L2  |
|------------------|------|------|------|------|------|-----|
| 322PLPSP-2-5/32  | 5/32 | .12  | .20  | 1.46 | .98  | .67 |
| 322PLPSP-5M-5/32 | 5/32 | .20  | .28  | 1.46 | .98  | .67 |
| 322PLPSP-3-4*    | 1/4  | 3/16 |      | 1.65 | 1.00 |     |
| 322PLPSP-4-5     | 5/16 | .25  | .34  | 1.55 | .83  | .67 |
| 322PLPSP-5-5     | 5/16 | .32  | .39  | 1.75 | 1.02 | .87 |
| 322PLPSP-5-6     | 3/8  | .32  | .39  | 1.97 | 1.16 | .87 |

\*Nickel-plated brass. Dimensions for OD2 are I.D. of the tube.

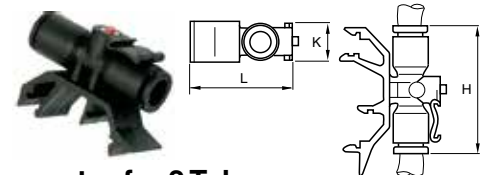
**322PLPSP Barbed Connector**

| PART NO.        | OD 1 | OD 2 | OD 3 | L    | L1   | L2   |
|-----------------|------|------|------|------|------|------|
| 322PLPSP-3M-4M  | 4    | 3.2  | 5.0  | 37.0 | 25.0 | 17.0 |
| 322PLPSP-5M-4M  | 4    | 5.0  | 7.0  | 37.0 | 25.0 | 17.0 |
| 322PLPSP-5M-6M  | 6    | 5.0  | 7.0  | 39.0 | 25.0 | 17.0 |
| 322PLPSP-6M-8M  | 8    | 6.3  | 8.5  | 39.5 | 21.0 | 17.0 |
| 322PLPSP-8M-8M  | 8    | 8.0  | 10.0 | 44.5 | 26.0 | 22.0 |
| 322PLPSP-6M-10M | 10   | 6.3  | 8.0  | 45.0 | 24.5 | 17.0 |
| 322PLPSP-8M-10M | 10   | 8.0  | 10.0 | 50.0 | 29.5 | 22.0 |
| 322PLPSP-8M-12M | 12   | 8.0  | 10.0 | 50.0 | 26.0 | 22.0 |
| 322PLPSP-1012M  | 12   | 10.0 | 12.0 | 48.5 | 25.5 | 22.5 |
| 322PLPSP-1212M  | 12   | 12.5 | 14.5 | 57.0 | 34.0 | 22.5 |
| 322PLPSP-1214M  | 14   | 12.5 | 14.5 | 59.5 | 34.5 | 22.5 |
| 322PLPSP-1414M* | 14   | 14.0 | 16.0 | 59.5 | 34.5 | 22.5 |

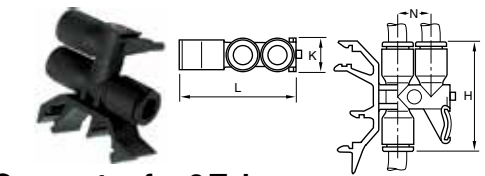
\*Nickel-plated brass. Dimensions for OD2 are I.D. of the tube.

**32PLPRC Connector for 2 Tubes**

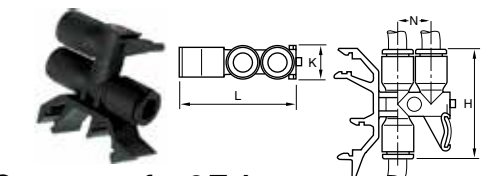
| PART NO.     | TUBE SIZE (IN) | H    | K   | L    |
|--------------|----------------|------|-----|------|
| 32PLPRC-5/32 | 5/32           | 1.44 | .47 | 1.18 |
| 32PLPRC-4    | 1/4            | 1.44 | .47 | 1.18 |
| 32PLPRC-5    | 5/16           | 1.81 | .51 | 1.28 |

**32PLPRC Connector for 2 Tubes**

| PART NO.   | TUBE SIZE (MM) | H    | K    | L    |
|------------|----------------|------|------|------|
| 32PLPRC-4M | 4              | 36.5 | 11.0 | 39.5 |
| 32PLPRC-6M | 6              | 36.5 | 11.0 | 39.5 |
| 32PLPRC-8M | 8              | 46.0 | 13.0 | 44.5 |

**32PLPDRC Connector for 3 Tubes**

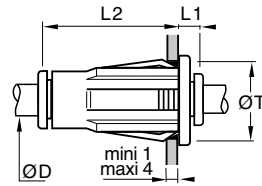
| PART NO.      | TUBE SIZE (IN) | H    | K   | L    | N   |
|---------------|----------------|------|-----|------|-----|
| 32PLPDRC-5/32 | 5/32           | 1.44 | .43 | 1.56 | .45 |
| 32PLPDRC-5    | 5/16           | 1.81 | .51 | 1.75 | .57 |

**32PLPDRC Connector for 3 Tubes**

| PART NO.    | TUBE SIZE (MM) | H    | K    | L    | N |
|-------------|----------------|------|------|------|---|
| 32PLPDRC-4M | 4              | 36.5 | 11.0 | 39.5 |   |
| 32PLPDRC-6M | 6              | 36.5 | 11.0 | 39.5 |   |
| 32PLPDRC-8M | 8              | 46.0 | 13.0 | 14.5 |   |

### 32PLPBHP Plug-in Bulkhead Union

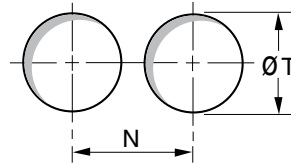
| PART NO.      | TUBE SIZE (IN) | L1  | L2    | ØT   |
|---------------|----------------|-----|-------|------|
| 32PLPBHP-5/32 | 5/32           | .26 | 1.080 | .62  |
| 32PLPBHP-4    | 1/4            | .26 | 1.240 | .75  |
| 32PLPBHP-5    | 5/16           | .30 | 1.280 | .87  |
| 32PLPBHP-6    | 3/8            | .30 | 1.630 | 1.12 |
| 32PLPBHP-8    | 1/2            | .30 | 1.710 | 1.25 |



### Fixing Hole

| D |        | 5/32  | 1/4   | 5/16  | 3/8    | 1/2    |
|---|--------|-------|-------|-------|--------|--------|
| T | inches | 5/8"  | 3/4"  | 7/8"  | 1 1/8" | 1 1/4" |
|   | mm     | 15.87 | 19.05 | 22.22 | 28.57  | 31.75  |
| N | in     | .89   | 1.00  | 1.08  | 1.34   | 1.50   |

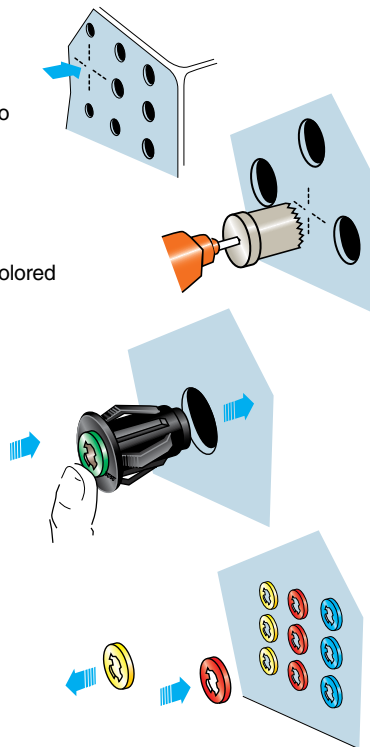
Tolerance T: +0.3 -0.1



Minimum distance between fittings.  
Diameter of fixing hole.

### Installation

1. Mark out the fixing hole
2. Make hole in panel
3. Simply push the fitting into place
4. To complete the installation
5. To identify circuits simply remove the black release button and replace with colored one



A

|                                                                                                                                    |                                                                                                                                   |                                                                                                                                      |                                                                                                                                       |                                                                                                                                  |                                                                                                                                    |                                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Tube to Male NPT                                                                                                                   | <b>68PLM</b><br>Male Connector<br><br>p. A41     | <b>169PLM</b><br>Male Elbow<br><br>p. A42           | <b>171PLM</b><br>Male Run Tee<br><br>p. A43          | <b>172PLM</b><br>Male Branch Tee<br><br>p. A44 | Tube to Tube                                                                                                                       | <b>62PLM</b><br>Union<br><br>p. A45                    |
|                                                                                                                                    | <b>165PLM</b><br>Union Elbow<br><br>p. A46       | <b>164PLM</b><br>Union Tee<br><br>p. A46            | Bulkhead Union<br><br>p. A45                         |                                                                                                                                  |                                                                                                                                    | <b>68PLMSP</b><br>Male Standpipe to BSPT<br><br>p. A42 |
| Metric Tube to Male BSPT                                                                                                           | <b>68PLM</b><br>Male Connector<br><br>p. A41     | <b>169PLM</b><br>Male Elbow<br><br>p. A42           | <b>169PLMX</b><br>Extended Male Elbow<br><br>p. A43  | <b>171PLM</b><br>Male Run Tee<br><br>p. A44    | <b>172PLM</b><br>Male Branch Tee<br><br>p. A44  |                                                                                                                                           |
|                                                                                                                                    | <b>68PLM</b><br>Male Connector<br><br>p. A41    | <b>169PLM</b><br>Male Elbow<br><br>p. A43          | <b>169PLMX</b><br>Extended Male Elbow<br><br>p. A43 | <b>171PLM</b><br>Male Run Tee<br><br>p. A44   | <b>172PLM</b><br>Male Branch Tee<br><br>p. A45 |                                                                                                                                           |
| Metric Tube to Male BSPP                                                                                                           | <b>68PLM</b><br>Male Connector<br><br>p. A41    | <b>169PLM</b><br>Male Elbow<br><br>p. A43          | <b>169PLMX</b><br>Extended Male Elbow<br><br>p. A43 | <b>171PLM</b><br>Male Run Tee<br><br>p. A44   | <b>172PLM</b><br>Male Branch Tee<br><br>p. A45 |                                                                                                                                           |
|                                                                                                                                    | <b>66PLM</b><br>Female Connector<br><br>p. A41 | Metric Tube to Metric Tube<br><br>p. A45          |                                                                                                                                       | <b>165PLM</b><br>Union Elbow<br><br>p. A46   | <b>164PLM</b><br>Union Tee<br><br>p. A46      |                                                                                                                                           |
| Metric Bulkhead Unions                                                                                                             | <b>62PLMBH</b><br>Bulkhead Union<br><br>p. A45 | <b>66PLMBH</b><br>Female Bulkhead<br><br>p. A45   | <b>165PLMBH</b><br>Bulkhead Union<br><br>p. A46    | Metric Plug-in<br><br>p. A46                |                                                                                                                                    | <b>62PLMSP</b><br>Tube Expander<br><br>p. A47        |
|                                                                                                                                    | <b>62PLMSP</b><br>Tube Converter<br><br>p. A47 | <b>122PLMSP</b><br>Barbed Connector<br><br>p. A47 | <b>169PLMBJ</b><br>Single Banjo<br><br>p. A47      | Metric Auxiliary Components<br><br>p. A47   |                                                                                                                                    | <b>PLMC</b><br>Cartridge<br><br>p. A47               |
| <b>63PLM</b><br>Double Male Union<br><br>p. A47 |                                                                                                                                   |                                                                                                                                      |                                                                                                                                       |                                                                                                                                  |                                                                                                                                    |                                                                                                                                           |

# Prestolok PLM All Metal Push-to-Connect Fittings

| MATERIALS OF CONSTRUCTION |                                                  |
|---------------------------|--------------------------------------------------|
| BODIES:                   | HIGH PHOSPHORUS FDA CHEMICAL NICKEL-PLATED BRASS |
| O-RING:                   | FKM (FPM) FLUOROELASTOMER                        |
| Backup Washer:            | HIGH PHOSPHORUS FDA CHEMICAL NICKEL-PLATED BRASS |
| Collet:                   |                                                  |
| Base:                     |                                                  |

| NOMENCLATURE           |                     |
|------------------------|---------------------|
| EXAMPLE:<br>169PLM-4-6 | ATTRIBUTE:          |
| 169                    | MALE ELBOW          |
| PLM                    | PLM PUSH-TO-CONNECT |
| 4                      | 1/4 TUBE SIZE       |
| 6                      | 3/8 THREAD SIZE     |

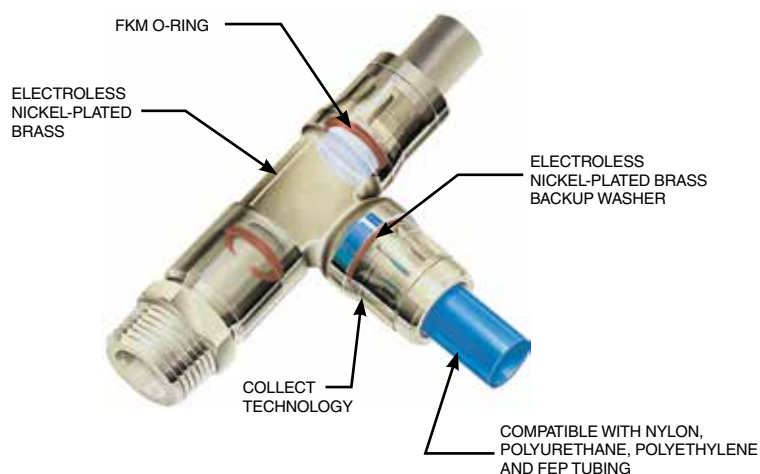
| APPLICABLE TUBE |                           |
|-----------------|---------------------------|
| TUBE O.D.:      | 5/32, 1/4, 5/16, 3/8, 1/2 |
| TUBE O.D. (MM): | 4, 6, 8, 10, 12, 14       |

| SPECIFICATIONS                                        |                |
|-------------------------------------------------------|----------------|
| WORKING PRESSURE                                      | 7 TO 290 PSI . |
| TEMPERATURE                                           | -4° TO 250° F  |
| NOTE: MAX. PRESSURE AND TEMP. DEPEND ON THE TUBE USED |                |

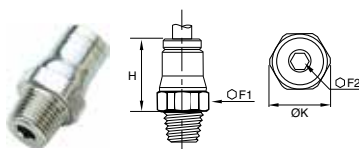


PLM push-to-connect forged fittings are nickel-plated and have an FKM seal making them suitable for use with liquids and gaseous fluids compatible with these components. PLM fittings are plated with a high phosphorus FDA nickel-plate allowing these fittings to be used in applications where exposure to aggressive environments is present.

The high phosphorus FDA nickel-plate is resistant to water, harsh detergents and other aggressive fluids and environments resulting in a superior chemical, corrosion and abrasive resistant push-to-connect fitting line. All items in the PLM range are silicone free.

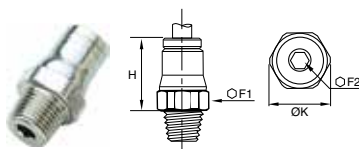


| MAXIMUM TIGHTENING TORQUE FOR, BSPP THREADS AND M5 WITH 0602 SEALING WASHER. |        |      |      |      |      |
|------------------------------------------------------------------------------|--------|------|------|------|------|
| PARALLEL THREAD                                                              | M5X0.8 | G1/8 | G1/4 | G3/8 | G1/2 |
| IN. LB                                                                       | 14     | 70   | 100  | 266  | 300  |



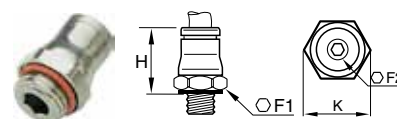
### 68PLM Male Connector Inch Tube to NPT/UNF

| PART NO.     | TUBE SIZE IN | NPT/UNF | F1 MM | F2 MM | H IN | K IN |
|--------------|--------------|---------|-------|-------|------|------|
| 68PLM-5/32-0 | 5/32         | 10-32   | 10    | 2.5   | .61  | .43  |
| 68PLM-5/32-2 | 5/32         | 1/8     | 11    | 3.0   | .59  | .47  |
| 68PLM-5/32-4 | 5/32         | 1/4     | 14    | 3.0   | .59  | .59  |
| 68PLM-4-0    | 1/4          | 10-32   | 13    | 2.5   | .75  | .55  |
| 68PLM-4-2    | 1/4          | 1/8     | 13    | 4.0   | .67  | .55  |
| 68PLM-4-4    | 1/4          | 1/4     | 14    | 4.0   | .67  | .59  |
| 68PLM-4-6    | 1/4          | 3/8     | 18    | 5.0   | .67  | .77  |
| 68PLM-6-2    | 3/8          | 1/8     | 18    | 4.0   | .97  | .77  |
| 68PLM-6-4    | 3/8          | 1/4     | 18    | 7.0   | .95  | .77  |
| 68PLM-6-6    | 3/8          | 3/8     | 18    | 8.0   | .91  | .77  |
| 68PLM-6-8    | 3/8          | 1/2     | 22    | 8.0   | .95  | .94  |
| 68PLM-8-6    | 1/2          | 3/8     | 22    | 9.0   | .95  | .94  |
| 68PLM-8-8    | 1/2          | 1/2     | 22    | 10.0  | .95  | .94  |



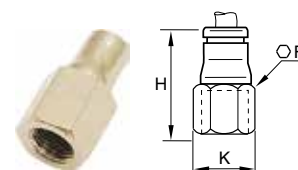
### 68PLM Male Connector Metric Tube to BSPT

| PART NO.     | TUBE SIZE MM | BSPT | F1 MM | F2 MM | H MM  | K MM  |
|--------------|--------------|------|-------|-------|-------|-------|
| 68PLM-4M-2R  | 4            | 1/8  | 10    | 3     | 15.00 | 11.00 |
| 68PLM-4M-4R  | 4            | 1/4  | 14    | 3     | 15.00 | 15.00 |
| 68PLM-6M-2R  | 6            | 1/8  | 13    | 4     | 17.00 | 14.00 |
| 68PLM-6M-4R  | 6            | 1/4  | 14    | 4     | 17.00 | 15.00 |
| 68PLM-8M-2R  | 8            | 1/8  | 15    | 5     | 19.00 | 16.00 |
| 68PLM-8M-4R  | 8            | 1/4  | 15    | 6     | 18.00 | 16.00 |
| 68PLM-8M-6R  | 8            | 3/8  | 17    | 6     | 18.50 | 18.50 |
| 68PLM-10M-4R | 10           | 1/4  | 18    | 7     | 23.00 | 19.50 |
| 68PLM-10M-6R | 10           | 3/8  | 18    | 8     | 22.50 | 19.50 |
| 68PLM-10M-8R | 10           | 1/2  | 22    | 8     | 22.50 | 24.00 |
| 68PLM-12M-4R | 12           | 1/4  | 20    | 7     | 25.50 | 22.00 |
| 68PLM-12M-6R | 12           | 3/8  | 20    | 9     | 24.00 | 22.00 |
| 68PLM-12M-8R | 12           | 1/2  | 22    | 10    | 23.00 | 24.00 |
| 68PLM-14M-6R | 14           | 3/8  | 22    | 9     | 27.00 | 24.00 |
| 68PLM-14M-8R | 14           | 1/2  | 24    | 11    | 26.00 | 26.00 |



### 68PLM Male Connector Tube to UNF, BSPP or Metric

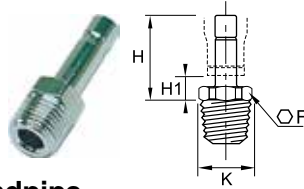
| PART NO.     | TUBE SIZE MM | BSPP/METRIC | F1 MM | F2 MM | H MM  | K MM  |
|--------------|--------------|-------------|-------|-------|-------|-------|
| 68PLM-4M-M5  | 4            | M5X0.8      | 10    | 2.50  | 15.50 | 11.00 |
| 68PLM-4M-M6  | 4            | M6X1        | 13    | 3.00  | 14.50 | 14.00 |
| 68PLM-4M-2G  | 4            | 1/8         | 10    | 3.00  | 16.00 | 11.00 |
| 68PLM-4M-4G  | 4            | 1/4         | 16    | 3.00  | 14.50 | 17.50 |
| 68PLM-4M-M8  | 4            | M8X1        | 11    | 3.00  | 14.50 | 12.00 |
| 68PLM-6M-M5  | 6            | M5X0.8      | 13    | 2.50  | 19.00 | 14.00 |
| 68PLM-6M-2G  | 6            | 1/8         | 13    | 4.00  | 17.50 | 14.00 |
| 68PLM-6M-M10 | 6            | M10X1       | 13    | 4.00  | 17.50 | 14.00 |
| 68PLM-6M-4G  | 6            | 1/4         | 16    | 4.00  | 17.00 | 17.50 |
| 68PLM-8M-2G  | 8            | 1/8         | 15    | 5.00  | 20.00 | 16.00 |
| 68PLM-8M-4G  | 8            | 1/4         | 16    | 6.00  | 18.00 | 17.50 |
| 68PLM-8M-6G  | 8            | 3/8         | 20    | 6.00  | 19.00 | 22.00 |
| 68PLM-10M-4G | 10           | 1/4         | 18    | 7.00  | 25.00 | 19.50 |
| 68PLM-10M-6G | 10           | 3/8         | 20    | 8.00  | 22.50 | 22.00 |
| 68PLM-10M-8G | 10           | 1/2         | 24    | 8.00  | 22.50 | 26.00 |
| 68PLM-12M-4G | 12           | 1/4         | 20    | 7.00  | 27.00 | 22.00 |
| 68PLM-12M-6G | 12           | 3/8         | 20    | 9.00  | 26.00 | 22.00 |
| 68PLM-12M-8G | 12           | 1/2         | 24    | 10.00 | 23.50 | 26.00 |
| 68PLM-14M-6G | 14           | 3/8         | 22    | 9.00  | 28.00 | 24.00 |
| 68PLM-14M-8G | 14           | 1/2         | 24    | 11.00 | 26.50 | 26.00 |



### 66PLM Female Connector Metric Tube to BSPP or M5

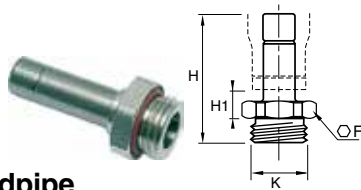
| PART NO.     | TUBE SIZE MM | BSPP/M5 | F MM | H MM  | K MM  |
|--------------|--------------|---------|------|-------|-------|
| 66PLM-4M-M5  | 4            | M5X0.8  | 10   | 22.00 | 11.00 |
| 66PLM-4M-2G  | 4            | 1/8     | 14   | 25.00 | 15.00 |
| 66PLM-4M-4G  | 4            | 1/4     | 17   | 29.00 | 18.50 |
| 66PLM-6M-2G  | 6            | 1/8     | 14   | 27.50 | 15.00 |
| 66PLM-6M-4G  | 6            | 1/4     | 17   | 31.50 | 18.50 |
| 66PLM-8M-2G  | 8            | 1/8     | 15   | 28.50 | 16.00 |
| 66PLM-8M-4G  | 8            | 1/4     | 17   | 32.50 | 18.50 |
| 66PLM-10M-6G | 10           | 3/8     | 22   | 38.00 | 24.00 |
| 66PLM-12M-6G | 12           | 3/8     | 22   | 39.00 | 24.00 |
| 66PLM-12M-8G | 12           | 1/2     | 24   | 43.50 | 26.00 |

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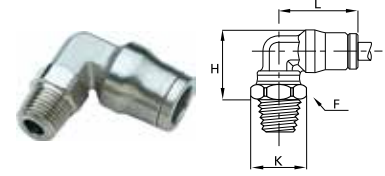
### 68PLMSP Male Stud Standpipe Metric Tube to BSPT

| PART NO.       | TUBE SIZE MM | BSPT | F MM | H MM  | H1 MM | K MM  |
|----------------|--------------|------|------|-------|-------|-------|
| 68PLMSP-4M-2R  | 4            | 1/8  | 10   | 21.00 | 7.00  | 11.00 |
| 68PLMSP-6M-2R  | 6            | 1/8  | 10   | 23.50 | 6.50  | 11.00 |
| 68PLMSP-6M-4R  | 6            | 1/4  | 10   | 23.50 | 6.50  | 15.00 |
| 68PLMSP-8M-2R  | 8            | 1/8  | 10   | 24.00 | 6.50  | 11.00 |
| 68PLMSP-8M-4R  | 8            | 1/4  | 14   | 24.00 | 6.50  | 15.00 |
| 68PLMSP-10M-4R | 10           | 1/4  | 14   | 22.00 | 6.50  | 15.00 |
| 68PLMSP-10M-6R | 10           | 3/8  | 17   | 30.00 | 7.50  | 18.50 |
| 68PLMSP-12M-6R | 12           | 3/8  | 17   | 31.00 | 7.50  | 18.50 |
| 68PLMSP-12M-8R | 12           | 1/2  | 22   | 38.00 | 7.50  | 24.00 |
| 68PLMSP-14M-8R | 14           | 1/2  | 22   | 33.00 | 8.00  | 24.00 |



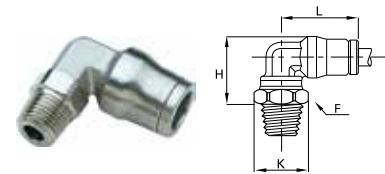
### 68PLMSP Male Standpipe Metric Tube to BSPP or M5

| PART NO.       | TUBE SIZE MM | BSPP/M5 | F MM | H MM  | H1 MM | K MM  |
|----------------|--------------|---------|------|-------|-------|-------|
| 68PLMSP-4M-M5  | 4            | M5X0.8  | 13   | 25.50 | 7.00  | 14.00 |
| 68PLMSP-4M-2G  | 4            | 1/8     | 16   | 26.50 | 7.00  | 17.50 |
| 68PLMSP-4M-4G  | 4            | 1/4     | 8    | 25.00 | 7.50  | 8.70  |
| 68PLMSP-6M-2G  | 6            | 1/8     | 13   | 28.00 | 6.50  | 14.00 |
| 68PLMSP-6M-4G  | 6            | 1/4     | 16   | 29.00 | 6.50  | 17.50 |
| 68PLMSP-8M-2G  | 8            | 1/8     | 13   | 28.50 | 6.50  | 14.00 |
| 68PLMSP-8M-4G  | 8            | 1/4     | 16   | 29.50 | 6.50  | 17.50 |
| 68PLMSP-8M-6G  | 8            | 3/8     | 20   | 30.50 | 7.50  | 22.00 |
| 68PLMSP-10M-4G | 10           | 1/4     | 16   | 34.50 | 6.50  | 17.50 |
| 68PLMSP-10M-6G | 10           | 3/8     | 20   | 35.50 | 7.50  | 22.00 |
| 68PLMSP-10M-8G | 10           | 1/2     | 24   | 37.00 | 7.50  | 26.00 |
| 68PLMSP-12M-6G | 12           | 3/8     | 20   | 36.50 | 7.50  | 22.00 |
| 68PLMSP-12M-8G | 12           | 1/2     | 24   | 38.00 | 7.50  | 26.00 |
| 68PLMSP-14M-8G | 14           | 1/2     | 24   | 40.00 | 8.00  | 26.00 |



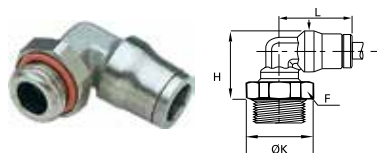
### 169PLM Male Elbow Inch Tube to NPT, UNF

| PART NO.      | TUBE SIZE IN | NPT/UNF | F MM | H IN | K IN | L IN |
|---------------|--------------|---------|------|------|------|------|
| 169PLM-5/32-0 | 5/32         | 10-32   | 10   | 0.71 | 0.43 | .71  |
| 169PLM-5/32-2 | 5/32         | 1/8     | 11   | .59  | .47  | .71  |
| 169PLM-5/32-4 | 5/32         | 1/4     | 14   | .67  | .60  | .71  |
| 169PLM-4-2    | 1/4          | 1/8     | 11   | .69  | .47  | .87  |
| 169PLM-4-4    | 1/4          | 1/4     | 14   | .75  | .60  | .87  |
| 169PLM-4-6    | 1/4          | 3/8     | 18   | .75  | .77  | .87  |
| 169PLM-6-4    | 3/8          | 1/4     | 15   | .93  | .63  | 1.14 |
| 169PLM-6-6    | 3/8          | 3/8     | 18   | 1.02 | .77  | 1.14 |
| 169PLM-6-8    | 3/8          | 1/2     | 22   | 1.06 | .94  | 1.14 |
| 169PLM-8-6    | 1/2          | 3/8     | 18   | 1.14 | .77  | 1.22 |
| 169PLM-8-8    | 1/2          | 1/2     | 22   | 1.14 | .94  | 1.22 |

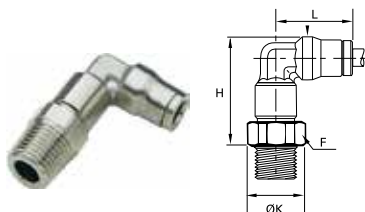


### 169PLM Male Elbow Metric Tube to BSPT

| PART NO.      | TUBE SIZE MM | BSPT | F MM | H MM  | K MM  | L MM  |
|---------------|--------------|------|------|-------|-------|-------|
| 169PLM-4M-2R  | 4            | 1/8  | 11   | 15.00 | 12.00 | 18.00 |
| 169PLM-4M-4R  | 4            | 1/4  | 14   | 17.00 | 15.00 | 18.00 |
| 169PLM-6M-2R  | 6            | 1/8  | 11   | 17.50 | 12.00 | 21.50 |
| 169PLM-6M-4R  | 6            | 1/4  | 14   | 19.00 | 15.00 | 21.50 |
| 169PLM-8M-2R  | 8            | 1/8  | 11   | 19.50 | 12.00 | 23.50 |
| 169PLM-8M-4R  | 8            | 1/4  | 14   | 21.00 | 15.00 | 23.50 |
| 169PLM-8M-6R  | 8            | 3/8  | 17   | 21.00 | 18.50 | 23.50 |
| 169PLM-10M-4R | 10           | 1/4  | 15   | 23.50 | 16.00 | 29.00 |
| 169PLM-10M-6R | 10           | 3/8  | 17   | 25.50 | 18.50 | 29.00 |
| 169PLM-12M-4R | 12           | 1/4  | 15   | 26.00 | 16.00 | 31.00 |
| 169PLM-12M-6R | 12           | 3/8  | 17   | 28.50 | 18.50 | 31.00 |
| 169PLM-12M-8R | 12           | 1/2  | 21   | 28.50 | 23.00 | 31.00 |
| 169PLM-14M-6R | 14           | 3/8  | 19   | 29.00 | 21.00 | 34.00 |
| 169PLM-14M-8R | 14           | 1/2  | 24   | 30.00 | 26.00 | 34.00 |

**169PLM Male Elbow Tube to BSPP, Metric**

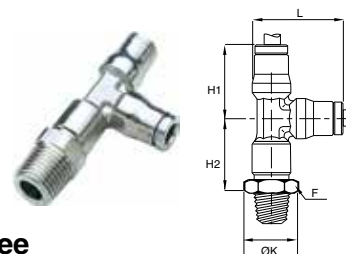
| PART NO.      | TUBE SIZE MM | BSPP/METRIC | F MM | H MM  | K MM  | L MM  |
|---------------|--------------|-------------|------|-------|-------|-------|
| 169PLM-4M-M5  | 4            | M5X0.8      | 10   | 18.00 | 11.00 | 18.00 |
| 169PLM-4M-2G  | 4            | 1/8         | 13   | 17.00 | 14.00 | 18.00 |
| 169PLM-4M-M6  | 4            | M6X1        | 10   | 18.00 | 11.00 | 18.00 |
| 169PLM-4M-4G  | 4            | 1/4         | 16   | 17.50 | 17.50 | 18.00 |
| 169PLM-4M-M8  | 4            | M8X1        | 11   | 18.00 | 12.00 | 18.00 |
| 169PLM-6M-2G  | 6            | 1/8         | 13   | 19.00 | 14.00 | 21.50 |
| 169PLM-6M-M10 | 6            | M10X1       | 13   | 19.00 | 14.00 | 21.50 |
| 169PLM-6M-4G  | 6            | 1/4         | 16   | 19.50 | 17.50 | 21.50 |
| 169PLM-8M-2G  | 8            | 1/8         | 13   | 20.50 | 14.00 | 23.50 |
| 169PLM-8M-4G  | 8            | 1/4         | 16   | 21.50 | 17.50 | 23.50 |
| 169PLM-8M-6G  | 8            | 3/8         | 20   | 21.50 | 22.00 | 23.50 |
| 169PLM-10M-4G | 10           | 1/4         | 16   | 27.00 | 17.50 | 29.00 |
| 169PLM-10M-6G | 10           | 3/8         | 20   | 25.50 | 22.00 | 29.00 |
| 169PLM-12M-4G | 12           | 1/4         | 16   | 29.50 | 17.50 | 31.00 |
| 169PLM-12M-6G | 12           | 3/8         | 20   | 28.50 | 22.00 | 31.00 |
| 169PLM-12M-8G | 12           | 1/2         | 24   | 28.50 | 26.00 | 31.00 |
| 169PLM-14M-6G | 14           | 3/8         | 20   | 29.00 | 22.00 | 34.00 |
| 169PLM-14M-8G | 14           | 1/2         | 24   | 29.50 | 26.00 | 34.00 |

**169PLMX Extended Male Elbow Metric Tube to BSPT**

| PART NO.       | TUBE SIZE MM | BSPT | F MM | H MM  | K MM  | L MM  |
|----------------|--------------|------|------|-------|-------|-------|
| 169PLMX-4M-2R  | 4            | 1/8  | 10   | 24.50 | 11.00 | 18.00 |
| 169PLMX-6M-2R  | 6            | 1/8  | 13   | 29.50 | 14.00 | 21.50 |
| 169PLMX-6M-4R  | 6            | 1/4  | 14   | 30.50 | 15.00 | 21.50 |
| 169PLMX-8M-2R  | 8            | 1/8  | 14   | 32.50 | 15.00 | 23.50 |
| 169PLMX-8M-4R  | 8            | 1/4  | 14   | 34.00 | 15.00 | 23.50 |
| 169PLMX-10M-4R | 10           | 1/4  | 18   | 39.00 | 19.50 | 29.00 |

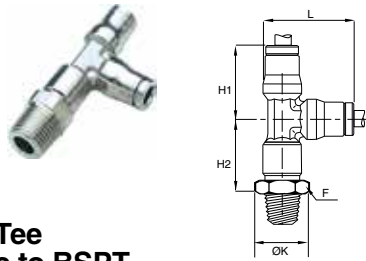
**169PLMX Extended Male Elbow Metric Tube to BSPP or M5**

| PART NO.       | TUBE SIZE MM | BSPP/M5 | F MM | H MM  | K MM  | L MM  |
|----------------|--------------|---------|------|-------|-------|-------|
| 169PLMX-4M-M5  | 4            | M5X0.8  | 10   | 27.50 | 11.00 | 18.00 |
| 169PLMX-4M-2G  | 4            | 1/8     | 13   | 25.50 | 14.00 | 18.00 |
| 169PLMX-6M-2G  | 6            | 1/8     | 13   | 31.00 | 14.00 | 18.00 |
| 169PLMX-6M-4G  | 6            | 1/4     | 16   | 30.50 | 17.50 | 21.50 |
| 169PLMX-8M-2G  | 8            | 1/8     | 14   | 33.50 | 15.00 | 23.50 |
| 169PLMX-8M-4G  | 8            | 1/4     | 16   | 34.00 | 17.50 | 23.50 |
| 169PLMX-10M-4G | 10           | 1/4     | 18   | 42.00 | 19.50 | 29.00 |
| 169PLMX-10M-6G | 10           | 3/8     | 20   | 41.00 | 22.00 | 29.00 |
| 169PLMX-12M-4G | 12           | 1/4     | 20   | 47.00 | 22.00 | 31.00 |
| 169PLMX-12M-6G | 12           | 3/8     | 20   | 46.00 | 22.00 | 31.00 |
| 169PLMX-14M-8G | 14           | 1/2     | 24   | 49.00 | 26.00 | 34.00 |

**171PLM Male Run Tee Inch Tube to Tube to NPT, UNF**

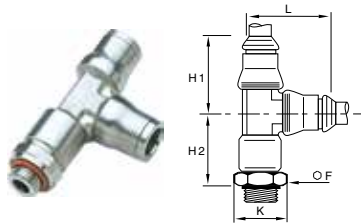
| PART NO.      | TUBE SIZE IN | NPT/UNF | F MM | H1 IN | H2 IN | K IN | L IN |
|---------------|--------------|---------|------|-------|-------|------|------|
| 171PLM-5/32-0 | 5/32         | 10-32   | 10   |       |       | .47  | .91  |
| 171PLM-5/32-2 | 5/32         | 1/8     | 11   | .71   | .77   | .47  | .91  |
| 171PLM-5/32-4 | 5/32         | 1/4     | 14   | .71   | .85   | .59  | .91  |
| 171PLM-4-2    | 1/4          | 1/8     | 13   | .87   | .93   | .55  | 1.12 |
| 171PLM-4-4    | 1/4          | 1/4     | 14   | .87   | .97   | .59  | 1.12 |
| 171PLM-6-4    | 3/8          | 1/4     | 18   | 1.14  | 1.20  | .77  | 1.48 |
| 171PLM-6-6    | 3/8          | 3/8     | 18   | 1.14  | 1.28  | .77  | 1.48 |
| 171PLM-6-8    | 3/8          | 1/2     | 22   | 1.14  | 1.28  | .94  | 1.48 |
| 171PLM-8-6    | 1/2          | 3/8     | 22   | 1.22  | 1.46  | .94  | 1.61 |
| 171PLM-8-8    | 1/2          | 1/2     | 22   | 1.22  | 1.50  | .94  | 1.61 |

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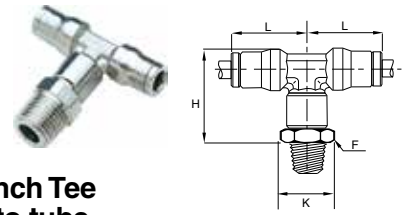
### 171PLM Male Run Tee Metric Tube To Tube to BSPT

| PART NO.      | TUBE SIZE MM | BSPT | F MM | H1 MM | H2 MM | K MM  | L MM  |
|---------------|--------------|------|------|-------|-------|-------|-------|
| 171PLM-4M-2R  | 4            | 1/8  | 10   | 18.00 | 19.50 | 11.00 | 23.00 |
| 171PLM-6M-2R  | 6            | 1/8  | 13   | 21.50 | 23.50 | 14.00 | 28.00 |
| 171PLM-6M-4R  | 6            | 1/4  | 14   | 21.50 | 24.50 | 15.00 | 28.00 |
| 171PLM-8M-2R  | 8            | 1/8  | 14   | 23.50 | 25.00 | 15.00 | 31.00 |
| 171PLM-8M-4R  | 8            | 1/4  | 14   | 23.50 | 26.50 | 15.00 | 31.00 |
| 171PLM-10M-4R | 10           | 1/4  | 18   | 29.00 | 30.50 | 19.50 | 37.50 |
| 171PLM-10M-6R | 10           | 3/8  | 18   | 29.00 | 32.50 | 19.50 | 37.50 |
| 171PLM-12M-6R | 12           | 3/8  | 21   | 31.00 | 36.50 | 23.00 | 40.50 |
| 171PLM-14M-8R | 14           | 1/2  | 22   | 34.00 | 40.00 | 24.00 | 45.00 |



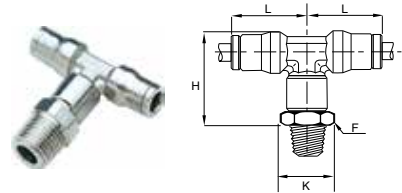
### 171PLM Male Run Tee Tube To Tube to BSPP or M5

| PART NO.      | TUBE SIZE MM | BSPP/M5 | F MM | H1 MM | H2 MM | K MM  | L MM  |
|---------------|--------------|---------|------|-------|-------|-------|-------|
| 171PLM-4M-M5  | 4            | M5X0.8  | 10   | 18.00 | 22.50 | 11.00 | 23.00 |
| 171PLM-4M-2G  | 4            | 1/8     | 13   | 18.00 | 20.50 | 14.00 | 23.00 |
| 171PLM-6M-2G  | 6            | 1/8     | 13   | 21.50 | 25.00 | 14.00 | 28.00 |
| 171PLM-6M-4G  | 6            | 1/4     | 16   | 21.50 | 24.50 | 17.50 | 28.00 |
| 171PLM-8M-2G  | 8            | 1/8     | 14   | 23.50 | 26.50 | 15.00 | 31.00 |
| 171PLM-8M-4G  | 8            | 1/4     | 16   | 23.50 | 26.50 | 17.50 | 31.00 |
| 171PLM-10M-4G | 10           | 1/4     | 18   | 29.00 | 33.00 | 19.50 | 37.50 |
| 171PLM-12M-6G | 12           | 3/8     | 21   | 31.00 | 36.50 | 23.00 | 40.50 |
| 171PLM-14M-8G | 14           | 1/2     | 24   | 34.00 | 38.50 | 26.00 | 45.00 |



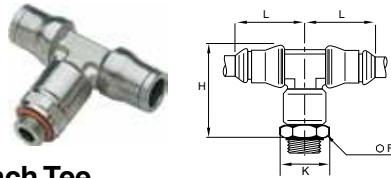
### 172PLM Male Branch Tee Inch Tube to NPT to tube

| PART NO.      | TUBE SIZE IN | NPT/UNF | F MM  | H IN | K IN | L IN |
|---------------|--------------|---------|-------|------|------|------|
| 172PLM-5/32-0 | 5/32         | 10-32   | 10.00 | 1.00 | .47  | .71  |
| 172PLM-5/32-2 | 5/32         | 1/8     | 11    | .87  | .47  | .71  |
| 172PLM-5/32-4 | 5/32         | 1/4     | 14    | 1.04 | .59  | .71  |
| 172PLM-4-2    | 1/4          | 1/8     | 13    | 1.18 | .55  | .87  |
| 172PLM-4-4    | 1/4          | 1/4     | 14    | 1.22 | .59  | .87  |
| 172PLM-4-6    | 1/4          | 3/8     | 18    | 1.22 | .77  | .87  |
| 172PLM-6-4    | 3/8          | 1/4     | 18    | 1.54 | .77  | 1.14 |
| 172PLM-6-6    | 3/8          | 3/8     | 18    | 1.61 | .77  | 1.14 |
| 172PLM-6-8    | 3/8          | 1/2     | 22    | 1.61 | .94  | 1.14 |
| 172PLM-8-6    | 1/2          | 3/8     | 22    | 1.85 | .94  | 1.22 |
| 172PLM-8-8    | 1/2          | 1/2     | 22    | 1.89 | .94  | 1.22 |



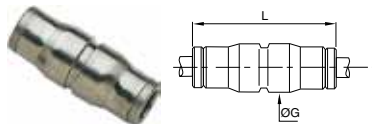
### 172PLM Male Branch Tee Metric Tube to BSPT

| PART NO.      | TUBE SIZE MM | BSPT | F MM | H MM  | K MM  | L MM  |
|---------------|--------------|------|------|-------|-------|-------|
| 172PLM-4M-2R  | 4            | 1/8  | 10   | 24.50 | 11.00 | 18.00 |
| 172PLM-6M-2R  | 6            | 1/8  | 13   | 29.50 | 14.00 | 21.50 |
| 172PLM-6M-4R  | 6            | 1/4  | 14   | 30.50 | 15.00 | 21.50 |
| 172PLM-8M-2R  | 8            | 1/8  | 14   | 32.50 | 15.00 | 23.50 |
| 172PLM-8M-4R  | 8            | 1/4  | 14   | 34.00 | 15.00 | 23.50 |
| 172PLM-10M-4R | 10           | 1/4  | 18   | 39.00 | 19.50 | 29.00 |
| 172PLM-10M-6R | 10           | 3/8  | 18   | 41.00 | 19.50 | 29.00 |
| 172PLM-12M-6R | 12           | 3/8  | 21   | 46.50 | 23.00 | 31.00 |
| 172PLM-14M-8R | 14           | 1/2  | 22   | 50.50 | 24.00 | 34.00 |



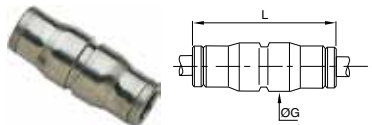
**172PLM Male Branch Tee**  
Tube to BSPP or M5

| PART NO.      | TUBE SIZE MM | BSPP/M5 | F MM | H MM  | K MM  | L MM  |
|---------------|--------------|---------|------|-------|-------|-------|
| 172PLM-4M-M5  | 4            | M5X0.8  | 10   | 27.50 | 11.00 | 18.00 |
| 172PLM-4M-2G  | 4            | 1/8     | 13   | 25.50 | 14.00 | 18.00 |
| 172PLM-6M-2G  | 6            | 1/8     | 13   | 31.00 | 14.00 | 21.50 |
| 172PLM-6M-4G  | 6            | 1/4     | 16   | 30.50 | 17.50 | 21.50 |
| 172PLM-8M-2G  | 8            | 1/8     | 14   | 33.50 | 15.00 | 23.50 |
| 172PLM-8M-4G  | 8            | 1/4     | 16   | 34.00 | 17.50 | 23.50 |
| 172PLM-10M-4G | 10           | 1/4     | 18   | 42.00 | 19.50 | 29.00 |
| 172PLM-12M-6G | 12           | 3/8     | 21   | 46.00 | 23.00 | 31.00 |
| 172PLM-14M-8G | 14           | 1/2     | 24   | 49.00 | 26.00 | 34.00 |



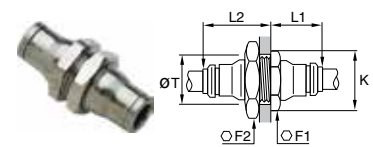
**62PLM Straight Union**  
Inch Tube to Tube

| PART NO.   | TUBE SIZE IN | G IN | L IN |
|------------|--------------|------|------|
| 62PLM-5/32 | 5/32         | .39  | 1.20 |
| 62PLM-4    | 1/4          | .49  | 1.44 |
| 62PLM-5    | 5/16         | .59  | 1.48 |
| 62PLM-6    | 3/8          | .67  | 1.87 |
| 62PLM-8    | 1/2          | .79  | 1.89 |



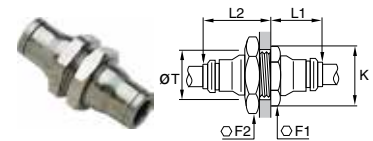
**62PLM Straight Union**  
Metric Tube to Tube

| PART NO.  | TUBE SIZE MM | G MM  | L MM  |
|-----------|--------------|-------|-------|
| 62PLM-4M  | 4            | 10.00 | 30.50 |
| 62PLM-6M  | 6            | 12.00 | 36.50 |
| 62PLM-8M  | 8            | 15.00 | 37.50 |
| 62PLM-10M | 10           | 17.50 | 47.50 |
| 62PLM-12M | 12           | 19.50 | 50.00 |
| 62PLM-14M | 14           | 21.50 | 52.50 |



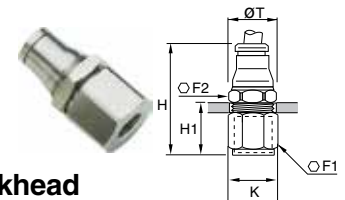
**62PLMBH Bulkhead Connector**  
Inch Tube to Tube

| PART NO.     | TUBE SIZE IN | F1 MM | F2 MM | K IN | L1 IN | L2 IN | T IN |
|--------------|--------------|-------|-------|------|-------|-------|------|
| 62PLMBH-5/32 | 5/32         | 13    | 14    | .55  | .55   | .79   | .49  |
| 62PLMBH-4    | 1/4          | 16    | 17    | .69  | .67   | .89   | .59  |
| 62PLMBH-5    | 5/16         | 18    | 19    | .77  | .73   | .93   | .67  |
| 62PLMBH-6    | 3/8          | 22    | 27    | .95  | .87   | 1.10  | .85  |
| 62PLMBH-8    | 1/2          | 24    | 24    | 1.16 | .89   | 1.14  | 1.04 |



**62PLMBH Bulkhead Connector**  
Metric Tube to Tube

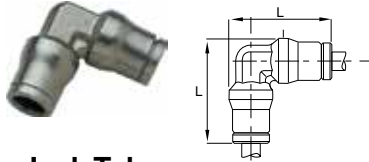
| PART NO.    | TUBE SIZE MM | F1 MM | F2 MM | K MM  | L1 MM | L2 MM | T MM  |
|-------------|--------------|-------|-------|-------|-------|-------|-------|
| 62PLMBH-4M  | 4            | 13    | 14    | 14.00 | 14.00 | 20.00 | 12.50 |
| 62PLMBH-6M  | 6            | 16    | 17    | 17.50 | 17.00 | 22.00 | 15.00 |
| 62PLMBH-8M  | 8            | 18    | 19    | 19.50 | 18.50 | 23.50 | 17.00 |
| 62PLMBH-10M | 10           | 22    | 27    | 24.00 | 21.50 | 26.50 | 21.00 |
| 62PLMBH-12M | 12           | 24    | 24    | 26.00 | 23.00 | 27.00 | 23.00 |
| 62PLMBH-14M | 14           | 27    | 27    | 29.50 | 25.50 | 29.50 | 25.00 |



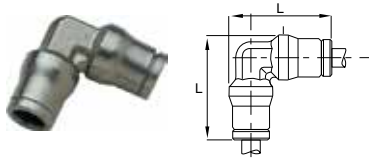
**66PLMBH Female Bulkhead Connector**  
Metric Tube to BSPP

| PART NO.       | TUBE SIZE MM | BSPP | F1 MM | F2 MM | H MM  | H1 MM | K MM  | T MM |
|----------------|--------------|------|-------|-------|-------|-------|-------|------|
| 66PLMBH-4M-2G  | 4            | 1/8  | 14    | 14    | 30.50 | 11.00 | 15.00 | 13   |
| 66PLMBH-6M-2G  | 6            | 1/8  | 17    | 17    | 32.50 | 11.00 | 18.50 | 15   |
| 66PLMBH-6M-4G  | 6            | 1/4  | 17    | 17    | 37.00 | 15.00 | 18.50 | 15   |
| 66PLMBH-8M-2G  | 8            | 1/8  | 19    | 19    | 34.00 | 10.50 | 21.00 | 17   |
| 66PLMBH-8M-4G  | 8            | 1/4  | 19    | 19    | 38.00 | 14.50 | 21.00 | 17   |
| 66PLMBH-10M-6G | 10           | 3/8  | 22    | 27    | 42.50 | 16.00 | 24.00 | 21   |
| 66PLMBH-12M-6G | 12           | 3/8  | 24    | 24    | 43.00 | 16.00 | 26.00 | 23   |
| 66PLMBH-12M-8G | 12           | 1/2  | 27    | 24    | 48.50 | 21.50 | 29.50 | 23   |

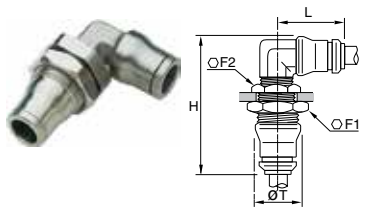
A

**165PLM Union Elbow Inch Tube**

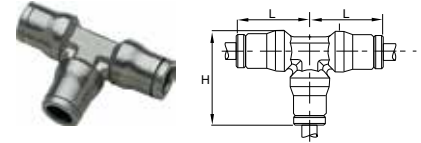
| PART NO.    | TUBE SIZE IN | L IN |
|-------------|--------------|------|
| 165PLM-5/32 | 5/32         | .91  |
| 165PLM-4    | 1/4          | 1.12 |
| 165PLM-5    | 5/16         | 1.22 |
| 165PLM-6    | 3/8          | 1.48 |
| 165PLM-8    | 1/2          | 1.61 |

**165PLM Union Elbow Metric Tube**

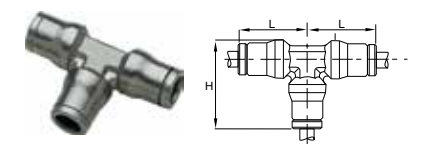
| PART NO.   | TUBE SIZE MM | L MM  |
|------------|--------------|-------|
| 165PLM-4M  | 4            | 23.00 |
| 165PLM-6M  | 6            | 28.00 |
| 165PLM-8M  | 8            | 31.00 |
| 165PLM-10M | 10           | 37.50 |
| 165PLM-12M | 12           | 40.50 |
| 165PLM-14M | 14           | 45.00 |

**165PLMBH Bulkhead Elbow Metric Tube**

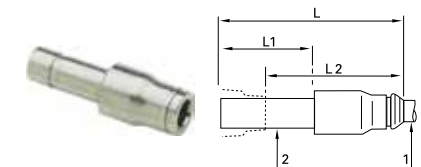
| PART NO.     | TUBE SIZE MM | F1 MM | F2 MM | H MM  | L MM  | T MM  |
|--------------|--------------|-------|-------|-------|-------|-------|
| 165PLMBH-4M  | 4            | 13    | 14    | 35.00 | 18.00 | 12.50 |
| 165PLMBH-6M  | 6            | 16    | 17    | 40.50 | 21.50 | 15.00 |
| 165PLMBH-8M  | 8            | 18    | 19    | 44.00 | 23.50 | 17.00 |
| 165PLMBH-10M | 10           | 22    | 27    | 51.00 | 29.00 | 21.00 |
| 165PLMBH-12M | 12           | 24    | 24    | 55.00 | 31.00 | 23.00 |
| 165PLMBH-14M | 14           | 27    | 27    | 59.00 | 34.00 | 25.00 |

**164PLM Union Tee Inch Tube**

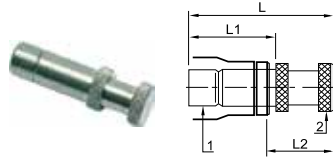
| PART NO.    | TUBE SIZE IN | H IN | L IN |
|-------------|--------------|------|------|
| 164PLM-5/32 | 5/32         | .91  | .71  |
| 164PLM-4    | 1/4          | 1.12 | .87  |
| 164PLM-5    | 5/16         | 1.22 | .93  |
| 164PLM-6    | 3/8          | 1.48 | 1.14 |
| 164PLM-8    | 1/2          | 1.61 | 1.22 |

**164PLM Union Tee Metric Tube**

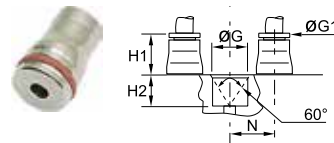
| PART NO.   | TUBE SIZE MM | H MM  | L MM  |
|------------|--------------|-------|-------|
| 164PLM-4M  | 4            | 23.00 | 18.00 |
| 164PLM-6M  | 6            | 28.00 | 21.50 |
| 164PLM-8M  | 8            | 31.00 | 23.50 |
| 164PLM-10M | 10           | 37.50 | 29.00 |
| 164PLM-12M | 12           | 40.50 | 31.00 |
| 164PLM-14M | 14           | 45.00 | 34.00 |

**67PLM Plug-In Reducer Metric**

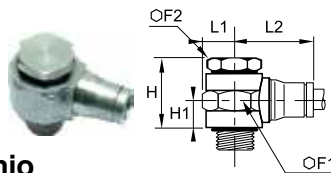
| PART NO.      | TUBE 1 SIZE MM | TUBE 2 SIZE MM | L MM  | L1 MM | L2 MM |
|---------------|----------------|----------------|-------|-------|-------|
| 67PLM-4M-6M   | 4              | 6              | 34.50 | 19.00 | 17.50 |
| 67PLM-4M-8M   | 4              | 8              | 35.50 | 20.00 | 18.00 |
| 67PLM-6M-8M   | 6              | 8              | 37.00 | 20.00 | 19.50 |
| 67PLM-6M-10M  | 6              | 10             | 43.50 | 25.00 | 21.00 |
| 67PLM-8M-10M  | 8              | 10             | 44.00 | 25.00 | 21.50 |
| 67PLM-8M-12M  | 8              | 12             | 45.00 | 26.00 | 21.50 |
| 67PLM-10M-12M | 10             | 12             | 50.00 | 26.00 | 26.50 |
| 67PLM-12M-14M | 12             | 14             | 53.00 | 28.00 | 28.50 |

**639PLM Plug Metric**

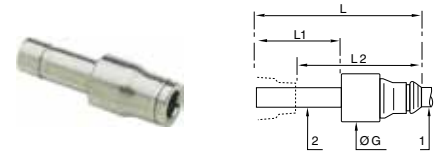
| PART NO.   | TUBE 1 SIZE<br>MM | TUBE 2 SIZE<br>MM | L<br>MM | L1<br>MM | L2<br>MM |
|------------|-------------------|-------------------|---------|----------|----------|
| 639PLM-4M  | 4                 | 6                 | 25.50   | 17.00    | 11.50    |
| 639PLM-6M  | 6                 | 8                 | 30.50   | 19.50    | 13.50    |
| 639PLM-8M  | 8                 | 10                | 33.00   | 20.00    | 16.00    |
| 639PLM-10M | 10                | 12                | 40.00   | 25.00    | 18.00    |
| 639PLM-12M | 12                | 14                | 43.00   | 26.00    | 20.00    |
| 639PLM-14M | 14                | 16                | 47.00   | 28.00    | 22.50    |

**PLMC Cartridge**

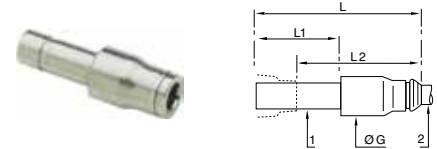
| PART NO. | TUBE SIZE<br>MM | G<br>+ .1 - 0 | H1<br>MM | H2<br>MM | N<br>MM |
|----------|-----------------|---------------|----------|----------|---------|
| PLMC-4M  | 4               | 10.00         | 9.00     | 8.50     | 11.00   |
| PLMC-6M  | 6               | 12.00         | 11.00    | 8.50     | 13.50   |
| PLMC-8M  | 8               | 15.00         | 12.50    | 8.50     | 16.00   |
| PLMC-10M | 10              | 17.50         | 14.50    | 10.50    | 20.00   |
| PLMC-12M | 12              | 19.50         | 15.00    | 10.50    | 22.50   |
| PLMC-14M | 14              | 21.50         | 16.50    | 12.00    | 25.00   |

**169PLMBJ Single Banjo  
Metric Tube to BSPP or M5**

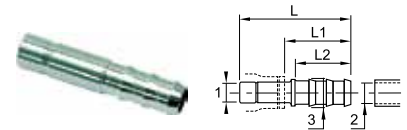
| PART NO.        | TUBE<br>SIZE<br>MM | BSPP/<br>M5 | F1<br>MM | F2<br>MM | H<br>MM | H1<br>MM | L1<br>MM | L2<br>MM |
|-----------------|--------------------|-------------|----------|----------|---------|----------|----------|----------|
| 169PLMBJ-4M-M5  | 4                  | M5X0.8      | 10       | 8        | 14.50   | 6.50     | 6.00     | 18.50    |
| 169PLMBJ-4M-2G  | 4                  | G1/8        | 17       | 14       | 23.00   | 9.50     | 10.00    | 20.50    |
| 169PLMBJ-6M-M5  | 6                  | M5X0.8      | 10       | 8        | 15.00   | 7.00     | 6.00     | 22.50    |
| 169PLMBJ-6M-2G  | 6                  | G1/8        | 17       | 14       | 23.00   | 9.50     | 10.00    | 23.50    |
| 169PLMBJ-6M-4G  | 6                  | G1/4        | 22       | 17       | 22.00   | 9.00     | 13.00    | 25.50    |
| 169PLMBJ-8M-2G  | 8                  | G1/8        | 17       | 14       | 23.00   | 9.50     | 10.00    | 26.00    |
| 169PLMBJ-8M-4G  | 8                  | G1/4        | 22       | 17       | 22.00   | 9.00     | 13.00    | 27.50    |
| 169PLMBJ-10M-6G | 10                 | G3/8        | 22       | 22       | 33.00   | 14.00    | 13.00    | 32.00    |

**62PLMSP Plug-In Expander Metric**

| PART NO.    | TUBE 1<br>SIZE MM | TUBE 2<br>SIZE MM | G<br>MM | L<br>MM | L1<br>MM | L2<br>MM |
|-------------|-------------------|-------------------|---------|---------|----------|----------|
| 62PLMSP-4-6 | 6                 | 4                 | 17      | 42      | 22       | 28       |

**62PLMSP Plug-In Metric/Inch Adapter**

| PART NO.      | TUBE 1<br>SIZE IN | TUBE 2<br>SIZE IN | G<br>MM | L<br>MM | L1<br>MM | L2<br>MM |
|---------------|-------------------|-------------------|---------|---------|----------|----------|
| 62PLMSP-6M-4  | 6                 | 1/4               | 12.50   | 38.00   | 19.00    | 20.50    |
| 62PLMSP-10M-6 | 10                | 3/8               | 17.00   | 49.50   | 25.00    | 27.00    |
| 62PLMSP-12M-8 | 12                | 1/2               | 20.00   | 51.00   | 26.00    | 27.50    |

**122PLMSP Plug-In Barbed Connector Metric**

| PART NO.        | TUBE 1<br>SIZE<br>MM | TUBE 2<br>SIZE<br>MM | TUBE 3<br>SIZE<br>MM | L<br>MM | L1<br>MM | L2<br>MM |
|-----------------|----------------------|----------------------|----------------------|---------|----------|----------|
| 122PLMSP-4M-3M  | 4                    | 3.20                 | 5.00                 | 40.50   | 27.00    | 22.50    |
| 122PLMSP-4M-5M  | 4                    | 5.00                 | 7.00                 | 40.50   | 27.00    | 22.50    |
| 122PLMSP-6M-5M  | 6                    | 5.00                 | 7.00                 | 43.00   | 27.00    | 22.50    |
| 122PLMSP-8M-6M  | 8                    | 6.30                 | 8.30                 | 42.00   | 25.00    | 22.50    |
| 122PLMSP-8M-8M  | 8                    | 8.00                 | 10.00                | 44.00   | 27.00    | 22.50    |
| 122PLMSP-10M-6M | 10                   | 6.30                 | 10.00                | 47.50   | 25.50    | 22.50    |
| 122PLMSP-10M-8M | 10                   | 8.00                 | 8.30                 | 47.50   | 25.50    | 22.50    |
| 122PLMSP-12M-8M | 12                   | 8.00                 | 10.00                | 48.50   | 25.50    | 22.50    |
| 122PLMSP-12M10M | 12                   | 10.00                | 12.00                | 48.50   | 25.50    | 22.50    |
| 122PLMSP-12M12M | 12                   | 12.50                | 14.50                | 57.00   | 34.00    | 29.50    |
| 122PLMSP-14M12M | 14                   | 12.50                | 14.50                | 57.50   | 33.00    | 29.50    |
| 122PLMSP-14M14M | 14                   | 14.00                | 16.00                | 59.50   | 35.00    | 29.50    |

**63PLM Double Male Union Metric**

| PART NO.  | TUBE SIZE<br>MM | L<br>MM | L1<br>MM |
|-----------|-----------------|---------|----------|
| 63PLM-4M  | 4               | 31.00   | 14.00    |
| 63PLM-6M  | 6               | 36.50   | 17.00    |
| 63PLM-8M  | 8               | 37.50   | 17.50    |
| 63PLM-10M | 10              | 47.50   | 22.50    |
| 63PLM-12M | 12              | 49.50   | 23.50    |
| 63PLM-14M | 14              | 53.00   | 25.00    |

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|                            |                                                                                                                                          |                                                                                                                                           |                                                                                                                                           |                                                                                                                                  |                                                                                                                                     |                                                                                                                                     |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Tube to Male NPT           | <b>68PLS</b><br>Male Connector<br><br>p. A50            | <b>169PLS</b><br>Male Elbow<br><br>p. A52                | <b>171PLS</b><br>Male Run Tee<br><br>p. A53              | <b>172PLS</b><br>Male Branch Tee<br><br>p. A54 | Tube to Tube                                                                                                                        | <b>62PLS</b><br>Union<br><br>p. A55              |
|                            | <b>165PLS</b><br>Union Elbow<br><br>p. A56              | <b>164PLS</b><br>Union Tee<br><br>p. A56                 | Bulkhead Union                                                                                                                            |                                                                                                                                  |                                                                                                                                     | <b>68PLSSP</b><br>Male Standpipe<br><br>p. A51   |
| Metric Tube to Male BSPT   | <b>68PLS</b><br>Male Connector<br><br>p. A50            | <b>169PLS</b><br>Male Elbow<br><br>p. A52                | <b>169PLSX</b><br>Extended Male Elbow<br><br>p. A53      | <b>171PLS</b><br>Male Run Tee<br><br>p. A54    | <b>172PLS</b><br>Male Branch Tee<br><br>p. A55   |                                                                                                                                     |
|                            | <b>68PLS</b><br>Male Connector<br><br>p. A50           | <b>169PLS</b><br>Male Elbow<br><br>p. A52               | <b>169PLSX</b><br>Extended Male Elbow<br><br>p. A53     | <b>171PLS</b><br>Male Run Tee<br><br>p. A54   | <b>172PLS</b><br>Male Branch Tee<br><br>p. A55  |                                                                                                                                     |
| Metric Tube to Male BSPP   | <b>68PLS</b><br>Male Connector<br><br>p. A50          | <b>169PLS</b><br>Male Elbow<br><br>p. A52              | <b>169PLSX</b><br>Extended Male Elbow<br><br>p. A53    | <b>171PLS</b><br>Male Run Tee<br><br>p. A54  | <b>172PLS</b><br>Male Branch Tee<br><br>p. A55 |                                                                                                                                     |
|                            | <b>68PLS</b><br>Male Connector<br><br>p. A50          | <b>169PLS</b><br>Male Elbow<br><br>p. A52              | <b>169PLSX</b><br>Extended Male Elbow<br><br>p. A53    | <b>171PLS</b><br>Male Run Tee<br><br>p. A54  | <b>172PLS</b><br>Male Branch Tee<br><br>p. A55 |                                                                                                                                     |
| Metric Tube to Male NPT    | <b>68PLS</b><br>Male Connector<br><br>p. A50          | <b>169PLS</b><br>Male Elbow<br><br>p. A52              | <b>169PLSX</b><br>Extended Male Elbow<br><br>p. A53    | <b>171PLS</b><br>Male Run Tee<br><br>p. A54  | <b>172PLS</b><br>Male Branch Tee<br><br>p. A55 |                                                                                                                                     |
|                            | <b>62PLS</b><br>Union<br><br>p. A55                   | <b>165PLS</b><br>Union Elbow<br><br>p. A56             | <b>164PLS</b><br>Union Tee<br><br>p. A56               | Metric Bulkhead Union                                                                                                            |                                                                                                                                     | <b>62PLSBH</b><br>Bulkhead Union<br><br>p. A56 |
| Metric Tube to Metric Tube | <b>68PLSSP</b><br>Male Standpipe to NPT<br><br>p. A51 | <b>68PLSSP</b><br>Male Standpipe to BSPT<br><br>p. A51 | <b>68PLSSP</b><br>Male Standpipe to BSPP<br><br>p. A51 | Metric Plugin                                                                                                                    |                                                                                                                                     |                                                                                                                                     |
|                            | <b>67PLS</b><br>Tube Reducer<br><br>p. A57          |                                                                                                                                           |                                                                                                                                           |                                                                                                                                  |                                                                                                                                     |                                                                                                                                     |
| Metric Standpipes          | <b>639PLS</b><br>Plug<br><br>p. A57                   | <b>PLSC</b><br>Cartridge<br><br>p. A57                 |                                                                                                                                           |                                                                                                                                  |                                                                                                                                     |                                                                                                                                     |
|                            | Metric Auxiliary Components                                                                                                              |                                                                                                                                           |                                                                                                                                           |                                                                                                                                  |                                                                                                                                     |                                                                                                                                     |

# Prestolok PLS Push-to-Connect

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| MATERIALS OF CONSTRUCTION |                      |
|---------------------------|----------------------|
| BODY:                     | STAINLESS STEEL 316L |
| WASHER:                   | STAINLESS STEEL 316L |
| COLLET:                   | STAINLESS STEEL 303L |
| "O"-RING:                 | FKM                  |
| BASE:                     | STAINLESS STEEL 316F |

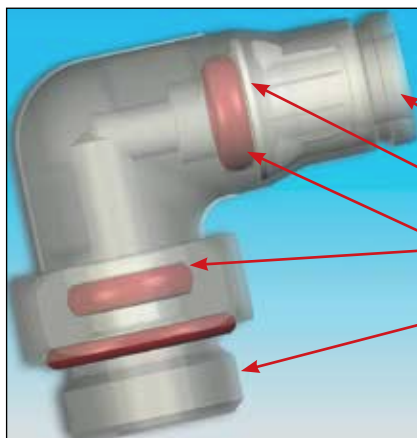
| NOMENCLATURE           |                         |
|------------------------|-------------------------|
| EXAMPLE:<br>169PLS-4-2 | ATTRIBUTE:              |
| 169                    | MALE ELBOW              |
| PLS                    | PRESTOLOK STAINLESS     |
| 4                      | 1/4" (4/16) TUBE SIZE   |
| 2                      | 1/8" (2/16) THREAD SIZE |

| APPLICABLE TUBING |                                 |
|-------------------|---------------------------------|
| TUBE O.D.:        | 5/32, 3/16, 1/4, 5/16, 3/8, 1/2 |
| TUBE O.D. MM:     | 4, 6, 8, 10, 12                 |

| SPECIFICATIONS     |                                                      |
|--------------------|------------------------------------------------------|
| PRESSURE RANGE:    | UP TO 290 PSI DEPENDING ON TUBE                      |
| TEMPERATURE RANGE: | -4° TO +245°F DEPENDING ON THE TYPE AND SIZE OF TUBE |
| VACUUM:            | 99% 28" HG                                           |

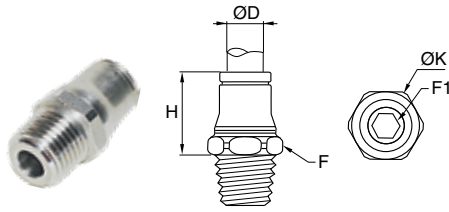


The all stainless steel construction of the Prestolok PLS fittings with FKM seals offer excellent resistance to aggressive environments and fluids. The nutriment grade materials and USDA NSF H1 grease conforming to FDA and 1934/2004 standards permits permanent contact with food. The smooth surface design of the PLS fitting is aimed at reducing retention zones for safe and easy cleaning. The Prestolok PLS fittings are suitable for applications in markets such as chemical, food, packaging and medical. All items in the PLS range are silicone free.



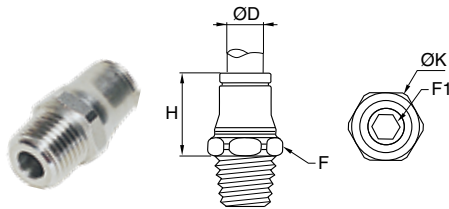
- Collet in stainless steel 303L
- Protection washer in stainless steel 316L
- FKM seals
- Sub-base in stainless steel 316L

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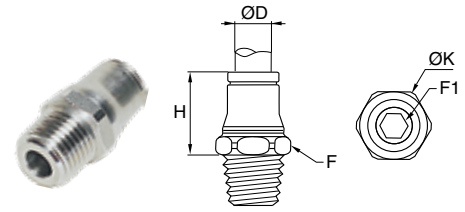
### 68PLS Male Connector - Inch Tube to NPT, UNF

| PART NO.     | TUBE SIZE IN | NPT / UNF | F MM | F1 MM | H IN | K IN |
|--------------|--------------|-----------|------|-------|------|------|
| 68PLS-5/32-0 | 5/32         | 10-32     | 10   | 2.5   | .59  | .43  |
| 68PLS-5/32-2 | 5/32         | 1/8       | 10   | 3     | .61  | .43  |
| 68PLS-3-2    | 3/16         | 1/8       | 10   | 3     | .61  | .43  |
| 68PLS-3-4    | 3/16         | 1/4       | 14   | 3     | .61  | .59  |
| 68PLS-4-2    | 1/4          | 1/8       | 13   | 4     | .75  | .55  |
| 68PLS-4-4    | 1/4          | 1/4       | 14   | 4     | .69  | .59  |
| 68PLS-5-2    | 5/16         | 1/8       | 15   | 4     | .79  | .65  |
| 68PLS-5-4    | 5/16         | 1/4       | 15   | 6     | .79  | .65  |
| 68PLS-6-4    | 3/8          | 1/4       | 19   | 6     | .98  | .83  |
| 68PLS-6-6    | 3/8          | 3/8       | 19   | 7     | .94  | .83  |
| 68PLS-8-4    | 1/2          | 1/4       | 22   | 7     | 1.02 | .94  |
| 68PLS-8-6    | 1/2          | 3/8       | 22   | 8     | .98  | .94  |
| 68PLS-8-8    | 1/2          | 1/2       | 22   | 10    | .98  | .94  |



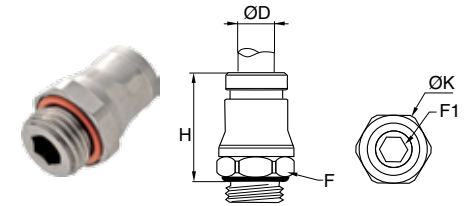
### 68PLS Male Connector - Metric Tube to NPT

| PART NO.    | TUBE SIZE MM | NPT | F MM | F1 MM | H MM  | K MM  |
|-------------|--------------|-----|------|-------|-------|-------|
| 68PLS-4M-2  | 4            | 1/8 | 11   | 3     | 14.50 | 12.00 |
| 68PLS-6M-2  | 6            | 1/8 | 13   | 4     | 18.00 | 14.00 |
| 68PLS-6M-4  | 6            | 1/4 | 14   | 4     | 16.50 | 15.00 |
| 68PLS-8M-2  | 8            | 1/8 | 15   | 5     | 19.00 | 16.50 |
| 68PLS-8M-4  | 8            | 1/4 | 15   | 6     | 18.00 | 16.50 |
| 68PLS-10M-4 | 10           | 1/4 | 19   | 6     | 24.00 | 21.00 |
| 68PLS-10M-6 | 10           | 3/8 | 19   | 7     | 22.50 | 21.00 |
| 68PLS-12M-4 | 12           | 1/4 | 22   | 7     | 25.00 | 24.00 |
| 68PLS-12M-6 | 12           | 3/8 | 22   | 8     | 24.00 | 24.00 |
| 68PLS-12M-8 | 12           | 1/2 | 22   | 10    | 23.00 | 24.00 |



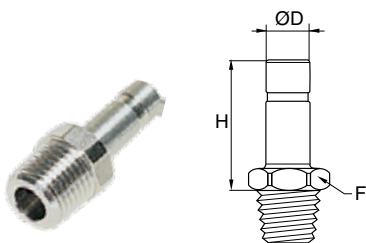
### 68PLS Male Connector - Metric Tube to BSPT

| PART NO.     | TUBE SIZE MM | BSPT | F MM | F1 MM | H MM  | K MM  |
|--------------|--------------|------|------|-------|-------|-------|
| 68PLS-4M-2R  | 4            | 1/8  | 10   | 3     | 14.50 | 11.00 |
| 68PLS-4M-4R  | 4            | 1/4  | 14   | 3     | 14.50 | 15.00 |
| 68PLS-6M-2R  | 6            | 1/8  | 13   | 4     | 18.00 | 14.00 |
| 68PLS-6M-4R  | 6            | 1/4  | 14   | 4     | 16.50 | 15.00 |
| 68PLS-8M-2R  | 8            | 1/8  | 15   | 5     | 20.50 | 16.50 |
| 68PLS-8M-4R  | 8            | 1/4  | 15   | 5     | 19.00 | 16.50 |
| 68PLS-8M-6R  | 8            | 3/8  | 17   | 6     | 19.00 | 18.50 |
| 68PLS-10M-4R | 10           | 1/4  | 19   | 6     | 24.00 | 21.00 |
| 68PLS-10M-6R | 10           | 3/8  | 19   | 7     | 22.50 | 21.00 |
| 68PLS-12M-4R | 12           | 1/4  | 22   | 7     | 25.00 | 24.00 |
| 68PLS-12M-6R | 12           | 3/8  | 22   | 8     | 24.00 | 24.00 |
| 68PLS-12M-8R | 12           | 1/2  | 22   | 10    | 23.00 | 24.00 |

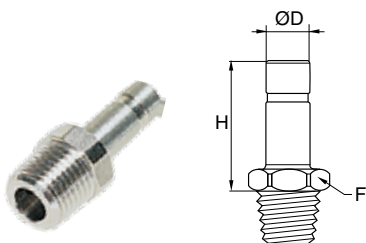


### 68PLS Male Connector - Metric Tube to BSPP, M5

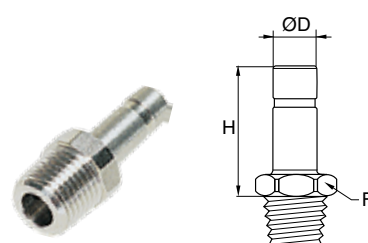
| PART NO.     | TUBE SIZE MM | BSPP / M5 | F MM | F1 MM | H MM  | K MM  |
|--------------|--------------|-----------|------|-------|-------|-------|
| 68PLS-4M-M5  | 4            | M5X0.8    | 10   | 2.5   | 16.00 | 11.00 |
| 68PLS-4M-2G  | 4            | 1/8       | 13   | 3     | 15.00 | 14.00 |
| 68PLS-6M-M5  | 6            | M5X0.8    | 13   | 2.5   | 20.50 | 14.00 |
| 68PLS-6M-2G  | 6            | 1/8       | 13   | 4     | 18.00 | 14.00 |
| 68PLS-6M-4G  | 6            | 1/4       | 17   | 4     | 18.00 | 18.50 |
| 68PLS-8M-2G  | 8            | 1/8       | 15   | 5     | 19.00 | 16.50 |
| 68PLS-8M-4G  | 8            | 1/4       | 17   | 5     | 20.50 | 18.50 |
| 68PLS-8M-6G  | 8            | 3/8       | 21   | 6     | 20.00 | 23.00 |
| 68PLS-10M-4G | 10           | 1/4       | 18   | 7     | 25.00 | 19.50 |
| 68PLS-10M-6G | 10           | 3/8       | 21   | 7     | 25.00 | 23.00 |
| 68PLS-12M-4G | 12           | 1/4       | 21   | 7     | 27.00 | 23.00 |
| 68PLS-12M-6G | 12           | 3/8       | 21   | 9     | 26.50 | 23.00 |

**68PLSSP Male Standpipe - Inch Tube to NPT**

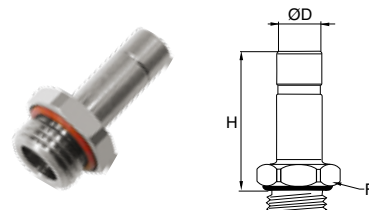
| PART NO.       | TUBE SIZE IN | NPT | F IN | H IN |
|----------------|--------------|-----|------|------|
| 68PLSSP-5/32-2 | 5/32         | 1/8 | 0.39 | 0.98 |
| 68PLSSP-3-2    | 3/16         | 1/8 | 0.39 | 0.98 |
| 68PLSSP-4-2    | 1/4          | 1/8 | 0.39 | 1.02 |
| 68PLSSP-4-4    | 1/4          | 1/4 | 0.55 | 1.06 |
| 68PLSSP-5-2    | 5/16         | 1/8 | 0.43 | 1.06 |
| 68PLSSP-5-4    | 5/16         | 1/4 | 0.55 | 1.06 |
| 68PLSSP-6-4    | 3/8          | 1/4 | 0.75 | 1.26 |
| 68PLSSP-6-6    | 3/8          | 3/8 | 0.75 | 1.26 |
| 68PLSSP-8-4    | 1/2          | 1/4 | 0.75 | 1.42 |
| 68PLSSP-8-6    | 1/2          | 3/8 | 0.75 | 1.46 |
| 68PLSSP-8-8    | 1/2          | 1/2 | 0.87 | 1.46 |

**68PLSSP Male Standpipe - Metric Tube to NPT**

| PART NO.      | TUBE SIZE MM | NPT | F MM | H MM |
|---------------|--------------|-----|------|------|
| 68PLSSP-4M-2  | 4            | 1/8 | 11   | 21   |
| 68PLSSP-6M-2  | 6            | 1/8 | 11   | 23   |
| 68PLSSP-6M-4  | 6            | 1/4 | 14   | 24   |
| 68PLSSP-8M-2  | 8            | 1/8 | 14   | 24   |
| 68PLSSP-8M-4  | 8            | 1/4 | 14   | 25   |
| 68PLSSP-10M-4 | 10           | 1/4 | 14   | 30   |
| 68PLSSP-10M-6 | 10           | 3/8 | 17   | 30   |
| 68PLSSP-12M-4 | 12           | 1/4 | 14   | 31   |
| 68PLSSP-12M-6 | 12           | 3/8 | 17   | 31   |
| 68PLSSP-12M-8 | 12           | 1/2 | 22   | 32   |

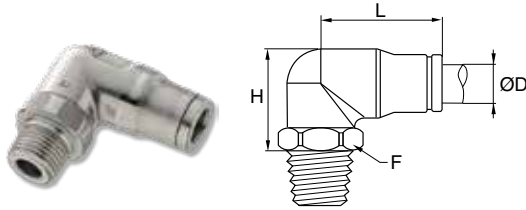
**68PLSSP Male Standpipe - Metric Tube to BSPT**

| PART NO.       | TUBE SIZE MM | BSPT | F MM | H MM |
|----------------|--------------|------|------|------|
| 68PLSSP-4M-2R  | 4            | 1/8  | 10   | 21   |
| 68PLSSP-6M-2R  | 6            | 1/8  | 10   | 23   |
| 68PLSSP-6M-4R  | 6            | 1/4  | 14   | 24   |
| 68PLSSP-8M-2R  | 8            | 1/8  | 10   | 24   |
| 68PLSSP-8M-4R  | 8            | 1/4  | 14   | 25   |
| 68PLSSP-10M-4R | 10           | 1/4  | 14   | 30   |
| 68PLSSP-10M-6R | 10           | 3/8  | 17   | 30   |
| 68PLSSP-12M-4R | 12           | 1/4  | 14   | 31   |
| 68PLSSP-12M-6R | 12           | 3/8  | 17   | 31   |
| 68PLSSP-12M-8R | 12           | 1/2  | 22   | 32   |

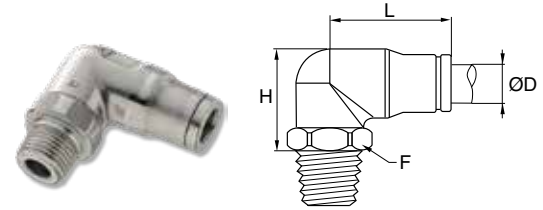
**68PLSSP Male Standpipe - Metric Tube to BSPP, M5**

| PART NO.       | TUBE SIZE MM | BSPP / M5 | F MM | H MM  |
|----------------|--------------|-----------|------|-------|
| 68PLSSP-4M-M5  | 4            | M5X0.8    | 7    | 23.50 |
| 68PLSSP-4M-2G  | 4            | 1/8       | 13   | 22.00 |
| 68PLSSP-6M-2G  | 6            | 1/8       | 13   | 24.00 |
| 68PLSSP-6M-4G  | 6            | 1/4       | 17   | 24.00 |
| 68PLSSP-8M-2G  | 8            | 1/8       | 13   | 25.00 |
| 68PLSSP-8M-4G  | 8            | 1/4       | 17   | 27.00 |
| 68PLSSP-8M-6G  | 8            | 3/8       | 21   | 27.00 |
| 68PLSSP-10M-4G | 10           | 1/4       | 17   | 32.00 |
| 68PLSSP-10M-6G | 10           | 3/8       | 21   | 27.00 |
| 68PLSSP-12M-4G | 12           | 1/4       | 17   | 33.00 |
| 68PLSSP-12M-6G | 12           | 3/8       | 21   | 33.00 |

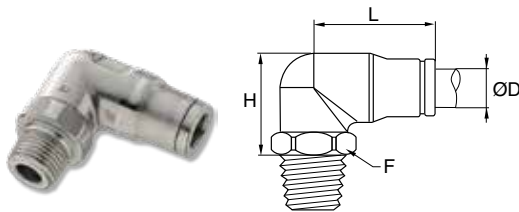
A

**169PLS Male Elbow - Inch Tube to NPT, UNF**

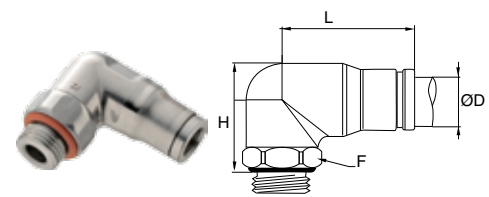
| PART NO.      | TUBE SIZE IN | NPT / UNF | F MM | H IN | L IN |
|---------------|--------------|-----------|------|------|------|
| 169PLS-5/32-0 | 5/32         | 10-32     | 10   | .98  | .77  |
| 169PLS-5/32-2 | 5/32         | 1/8       | 13   | .77  | .77  |
| 169PLS-3-2    | 3/16         | 1/8       | 10   | .81  | .77  |
| 169PLS-3-4    | 3/16         | 1/4       | 14   | .81  | .77  |
| 169PLS-4-2    | 1/4          | 1/8       | 13   | .85  | .91  |
| 169PLS-4-4    | 1/4          | 1/4       | 14   | .85  | .91  |
| 169PLS-5-2    | 5/16         | 1/8       | 15   | 1.00 | .98  |
| 169PLS-5-4    | 5/16         | 1/4       | 15   | 1.00 | .98  |
| 169PLS-6-4    | 3/8          | 1/4       | 17   | 1.12 | 1.20 |
| 169PLS-6-6    | 3/8          | 3/8       | 19   | 1.12 | 1.20 |
| 169PLS-8-4    | 1/2          | 1/4       | 22   | 1.34 | 1.30 |
| 169PLS-8-6    | 1/2          | 3/8       | 22   | 1.34 | 1.30 |
| 169PLS-8-8    | 1/2          | 1/2       | 22   | 1.34 | 1.30 |

**169PLS Male Elbow - Metric Tube to BSPT**

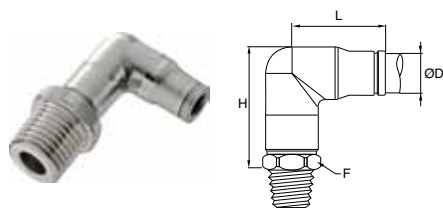
| PART NO.      | TUBE SIZE MM | BSPT | F MM | H MM  | L MM  |
|---------------|--------------|------|------|-------|-------|
| 169PLS-4M-2R  | 4            | 1/8  | 13   | 18.00 | 19.00 |
| 169PLS-4M-4R  | 4            | 1/4  | 14   | 18.00 | 19.00 |
| 169PLS-6M-2R  | 6            | 1/8  | 13   | 20.00 | 24.00 |
| 169PLS-6M-4R  | 6            | 1/4  | 14   | 20.00 | 23.00 |
| 169PLS-8M-2R  | 8            | 1/8  | 13   | 24.50 | 32.00 |
| 169PLS-8M-4R  | 8            | 1/4  | 14   | 23.50 | 24.00 |
| 169PLS-8M-6R  | 8            | 3/8  | 19   | 23.00 | 25.00 |
| 169PLS-10M-4R | 10           | 1/4  | 17   | 27.00 | 31.00 |
| 169PLS-10M-6R | 10           | 3/8  | 19   | 26.00 | 31.00 |
| 169PLS-12M-4R | 12           | 1/4  | 22   | 31.50 | 33.00 |
| 169PLS-12M-6R | 12           | 3/8  | 22   | 32.50 | 33.00 |
| 169PLS-12M-8R | 12           | 1/2  | 22   | 27.50 | 33.00 |

**169PLS Male Elbow - Metric Tube to NPT**

| PART NO.     | TUBE SIZE MM | NPT | F MM | H MM  | L MM  |
|--------------|--------------|-----|------|-------|-------|
| 169PLS-4M-2  | 4            | 1/8 | 13   | 17.50 | 19.00 |
| 169PLS-6M-2  | 6            | 1/8 | 13   | 20.00 | 22.50 |
| 169PLS-6M-4  | 6            | 1/4 | 14   | 20.00 | 22.50 |
| 169PLS-8M-2  | 8            | 1/8 | 13   | 25.00 | 24.00 |
| 169PLS-8M-4  | 8            | 1/4 | 14   | 24.00 | 24.00 |
| 169PLS-10M-4 | 10           | 1/4 | 17   | 27.50 | 27.50 |
| 169PLS-10M-6 | 10           | 3/8 | 19   | 28.50 | 26.50 |
| 169PLS-12M-4 | 12           | 1/4 | 22   | 31.50 | 32.50 |
| 169PLS-12M-6 | 12           | 3/8 | 22   | 32.50 | 32.50 |
| 169PLS-12M-8 | 12           | 1/2 | 22   | 27.50 | 32.50 |

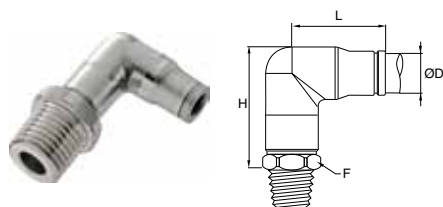
**169PLS Male Elbow - Metric Tube to BSPP**

| PART NO.      | TUBE SIZE MM | BSPP | F MM | H MM | L MM |
|---------------|--------------|------|------|------|------|
| 169PLS-4M-2G  | 4            | 1/8  | 10   | 22   | 19   |
| 169PLS-4M-4G  | 4            | 1/4  | 17   | 20   | 19   |
| 169PLS-6M-2G  | 6            | 1/8  | 13   | 24   | 24   |
| 169PLS-6M-4G  | 6            | 1/4  | 17   | 22   | 24   |
| 169PLS-8M-2G  | 8            | 1/8  | 13   | 25   | 25   |
| 169PLS-8M-4G  | 8            | 1/4  | 17   | 25   | 25   |
| 169PLS-8M-6G  | 8            | 3/8  | 21   | 23   | 25   |
| 169PLS-10M-4G | 10           | 1/4  | 18   | 43   | 31   |
| 169PLS-10M-6G | 10           | 3/8  | 21   | 40   | 31   |
| 169PLS-12M-4G | 12           | 1/4  | 17   | 33   | 33   |
| 169PLS-12M-6G | 12           | 3/8  | 21   | 33   | 33   |
| 169PLS-12M-8G | 12           | 1/2  | 24   | 30   | 33   |



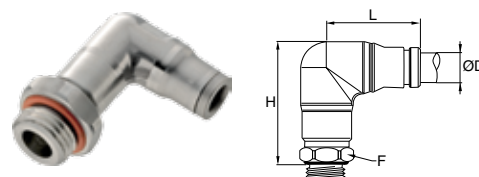
### 169PLSX Extended Male Elbow - Metric Tube to NPT

| PART NO.      | TUBE<br>SIZE<br>MM | NPT | F<br>MM | H<br>MM | L<br>MM |
|---------------|--------------------|-----|---------|---------|---------|
| 169PLSX-4M-2  | 4                  | 1/8 | 11      | 25.5    | 18.5    |
| 169PLSX-6M-2  | 6                  | 1/8 | 13      | 29      | 22.5    |
| 169PLSX-6M-4  | 6                  | 1/4 | 14      | 29      | 22.5    |
| 169PLSX-8M-2  | 8                  | 1/8 | 14      | 34      | 24      |
| 169PLSX-8M-4  | 8                  | 1/4 | 14      | 34      | 24      |
| 169PLSX-10M-4 | 10                 | 1/4 | 19      | 39.5    | 30      |
| 169PLSX-10M-6 | 10                 | 3/8 | 19      | 39.5    | 30      |



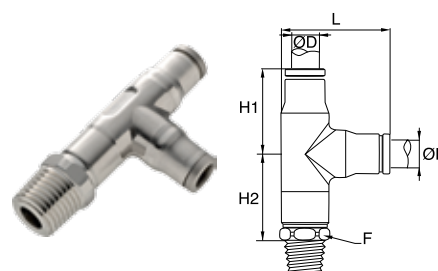
### 169PLSX Extended Male Elbow - Metric Tube to BSPT

| PART NO.       | TUBE<br>SIZE<br>MM | BSPT | F<br>MM | H<br>MM | L<br>MM |
|----------------|--------------------|------|---------|---------|---------|
| 169PLSX-4M-2R  | 4                  | 1/8  | 10      | 25      | 19.00   |
| 169PLSX-4M-4R  | 4                  | 1/4  | 14      | 26      | 19.00   |
| 169PLSX-6M-2R  | 6                  | 1/8  | 13      | 30      | 24.00   |
| 169PLSX-6M-4R  | 6                  | 1/4  | 14      | 30      | 24.00   |
| 169PLSX-8M-2R  | 8                  | 1/8  | 14      | 34      | 24.90   |
| 169PLSX-8M-4R  | 8                  | 1/4  | 14      | 34      | 24.90   |
| 169PLSX-10M-4R | 10                 | 1/4  | 19      | 39      | 31.00   |
| 169PLSX-10M-6R | 10                 | 3/8  | 19      | 39      | 31.00   |



### 169PLSX Extended Male Elbow - Metric Tube to BSPP, M5

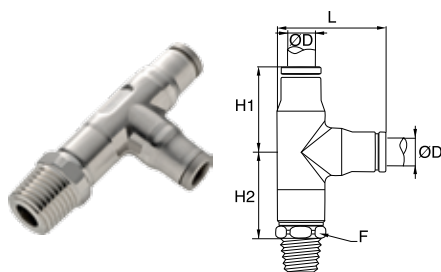
| PART NO.       | TUBE<br>SIZE<br>MM | BSPP / M5 | F<br>MM | H<br>MM | L<br>MM |
|----------------|--------------------|-----------|---------|---------|---------|
| 169PLSX-4M-M5  | 4                  | M5X0.8    | 10      | 27.00   | 19      |
| 169PLSX-4M-2G  | 4                  | 1/8       | 13      | 27.00   | 19      |
| 169PLSX-4M-4G  | 4                  | 1/4       | 17      | 27.00   | 19      |
| 169PLSX-6M-M5  | 6                  | M5X0.8    | 13      | 33.00   | 24      |
| 169PLSX-6M-2G  | 6                  | 1/8       | 13      | 33.00   | 24      |
| 169PLSX-6M-4G  | 6                  | 1/4       | 17      | 32.00   | 24      |
| 169PLSX-8M-2G  | 8                  | 1/8       | 14      | 35.00   | 25      |
| 169PLSX-8M-4G  | 8                  | 1/4       | 17      | 35.00   | 25      |
| 169PLSX-8M-6G  | 8                  | 3/8       | 21      | 34.50   | 25      |
| 169PLSX-10M-4G | 10                 | 1/4       | 18      | 43.00   | 31      |
| 169PLSX-10M-6G | 10                 | 3/8       | 21      | 42.00   | 31      |



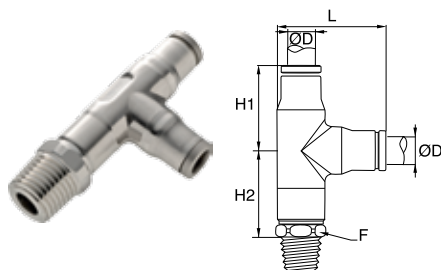
### 171PLS Male Run Tee - Inch Tube to NPT

| PART NO.      | TUBE<br>SIZE<br>IN | NPT | F<br>MM | H1<br>IN | H2<br>IN | L<br>IN |
|---------------|--------------------|-----|---------|----------|----------|---------|
| 171PLS-5/32-2 | 5/32               | 1/8 | 10      | .69      | .71      | .89     |
| 171PLS-5-2    | 5/16               | 1/8 | 14      | .94      | 1.04     | 1.20    |
| 171PLS-5-4    | 5/16               | 1/4 | 14      | .94      | 1.04     | 1.20    |

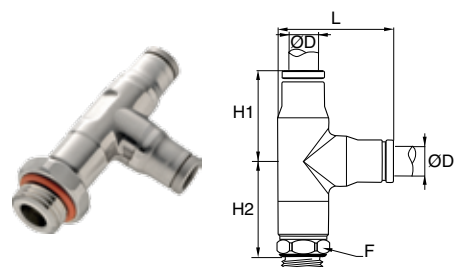
A

**171PLS Male Run Tee - Metric Tube to NPT**

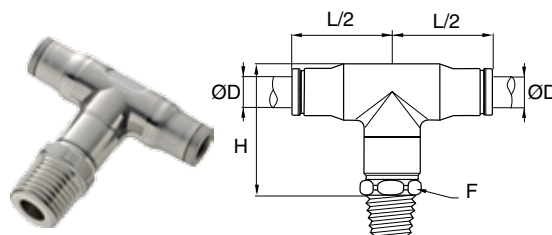
| PART NO.     | TUBE SIZE MM | NPT | F MM | H1 MM | H2 MM | L MM  |
|--------------|--------------|-----|------|-------|-------|-------|
| 171PLS-4M-2  | 4            | 1/8 | 11   | 19.00 | 21.00 | 25.00 |
| 171PLS-6M-2  | 6            | 1/8 | 13   | 21.00 | 24.00 | 27.00 |
| 171PLS-6M-4  | 6            | 1/4 | 14   | 21.00 | 24.00 | 27.50 |
| 171PLS-8M-2  | 8            | 1/8 | 14   | 24.00 | 26.50 | 30.50 |
| 171PLS-8M-4  | 8            | 1/4 | 14   | 24.00 | 26.50 | 30.50 |
| 171PLS-10M-4 | 10           | 1/4 | 19   | 29.50 | 31.00 | 37.50 |
| 171PLS-10M-6 | 10           | 3/8 | 19   | 29.50 | 31.00 | 37.50 |

**171PLS Male Run Tee - Metric Tube to BSPT**

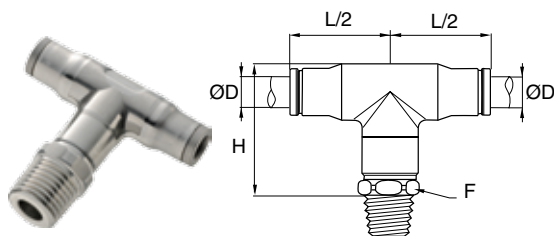
| PART NO.      | TUBE SIZE MM | BSPT | F MM | H1 MM | H2 MM | L MM  |
|---------------|--------------|------|------|-------|-------|-------|
| 171PLS-4M-2R  | 4            | 1/8  | 10   | 19.00 | 20.00 | 24.50 |
| 171PLS-4M-4R  | 4            | 1/4  | 14   | 19.00 | 20.00 | 26.50 |
| 171PLS-6M-2R  | 6            | 1/8  | 13   | 24.00 | 24.00 | 30.00 |
| 171PLS-6M-4R  | 6            | 1/4  | 14   | 24.00 | 24.00 | 30.00 |
| 171PLS-8M-2R  | 8            | 1/8  | 14   | 25.00 | 27.00 | 32.00 |
| 171PLS-8M-4R  | 8            | 1/4  | 14   | 25.00 | 27.00 | 32.00 |
| 171PLS-8M-6R  | 8            | 3/8  | 19   | 25.00 | 26.00 | 34.50 |
| 171PLS-10M-4R | 10           | 1/4  | 19   | 31.00 | 31.00 | 39.00 |
| 171PLS-10M-6R | 10           | 3/8  | 19   | 31.00 | 31.00 | 39.00 |

**171PLS Male Run Tee - Metric Tube to BSPP, M5**

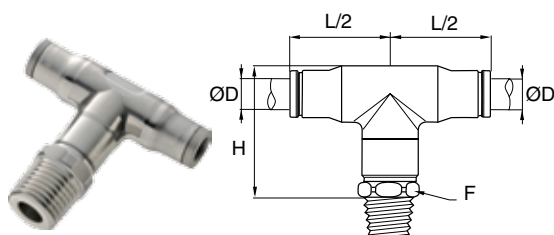
| PART NO.      | TUBE SIZE MM | BSPP / M5 | F MM | H1 MM | H2 MM | L MM  |
|---------------|--------------|-----------|------|-------|-------|-------|
| 171PLS-4M-M5  | 4            | M5X0.8    | 10   | 19.00 | 21.50 | 24.50 |
| 171PLS-4M-2G  | 4            | 1/8       | 13   | 19.00 | 21.50 | 25.50 |
| 171PLS-4M-4G  | 4            | 1/4       | 17   | 19.00 | 21.50 | 28.30 |
| 171PLS-6M-2G  | 6            | 1/8       | 13   | 24.00 | 26.50 | 30.00 |
| 171PLS-6M-4G  | 6            | 1/4       | 17   | 24.00 | 25.90 | 32.00 |
| 171PLS-8M-2G  | 8            | 1/8       | 14   | 25.00 | 27.50 | 32.00 |
| 171PLS-8M-4G  | 8            | 1/4       | 17   | 25.00 | 28.20 | 33.50 |
| 171PLS-8M-6G  | 8            | 3/8       | 21   | 25.00 | 27.30 | 35.50 |
| 171PLS-10M-4G | 10           | 1/4       | 18   | 31.00 | 35.60 | 39.60 |
| 171PLS-10M-6G | 10           | 3/8       | 21   | 31.00 | 33.60 | 41.00 |

**172PLS Male Branch Tee - Inch Tube to NPT**

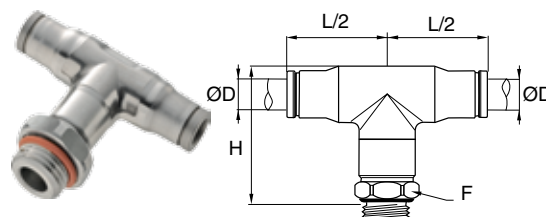
| PART NO.      | TUBE SIZE IN | NPT | F MM | H IN | L/2 IN |
|---------------|--------------|-----|------|------|--------|
| 172PLS-5/32-2 | 5/32         | 1/8 | 10   | .91  | .69    |
| 172PLS-5-2    | 5/16         | 1/8 | 14   | 1.34 | .94    |
| 172PLS-5-4    | 5/16         | 1/4 | 14   | 1.34 | .94    |

**172PLS Male Branch Tee - Metric Tube to NPT**

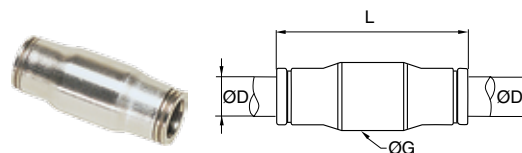
| PART NO.     | TUBE SIZE MM | NPT | F MM | H MM  | L/2 MM |
|--------------|--------------|-----|------|-------|--------|
| 172PLS-4M-2  | 4            | 1/8 | 11   | 22.00 | 19.50  |
| 172PLS-6M-2  | 6            | 1/8 | 13   | 30.00 | 22.50  |
| 172PLS-6M-4  | 6            | 1/4 | 14   | 30.00 | 22.50  |
| 172PLS-8M-2  | 8            | 1/8 | 14   | 34.00 | 24.00  |
| 172PLS-8M-4  | 8            | 1/4 | 14   | 34.00 | 24.00  |
| 172PLS-10M-4 | 10           | 1/4 | 19   | 40.00 | 29.50  |
| 172PLS-10M-6 | 10           | 3/8 | 19   | 40.00 | 29.50  |

**172PLS Male Branch Tee - Metric Tube to BSPT**

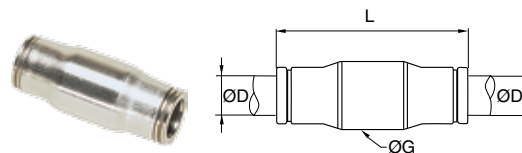
| PART NO.      | TUBE SIZE MM | BSPT | F MM | H MM  | L/2 MM |
|---------------|--------------|------|------|-------|--------|
| 172PLS-4M-2R  | 4            | 1/8  | 11   | 25.00 | 19.00  |
| 172PLS-4M-4R  | 4            | 1/4  | 14   | 26.00 | 19.00  |
| 172PLS-6M-2R  | 6            | 1/8  | 13   | 30.00 | 24.00  |
| 172PLS-6M-4R  | 6            | 1/4  | 14   | 30.00 | 24.00  |
| 172PLS-8M-2R  | 8            | 1/8  | 14   | 34.00 | 25.00  |
| 172PLS-8M-4R  | 8            | 1/4  | 14   | 34.00 | 25.00  |
| 172PLS-8M-6R  | 8            | 3/8  | 19   | 33.00 | 25.00  |
| 172PLS-10M-4R | 10           | 1/4  | 19   | 39.00 | 31.00  |
| 172PLS-10M-6R | 10           | 3/8  | 19   | 39.00 | 31.00  |

**172PLS Male Branch Tee - Metric Tube to BSPP, M5**

| PART NO.      | TUBE SIZE MM | BSPP / M5 | F MM | H MM  | L/2 MM |
|---------------|--------------|-----------|------|-------|--------|
| 172PLS-4M-M5  | 4            | M5X0.8    | 10   | 26.80 | 19     |
| 172PLS-4M-2G  | 4            | 1/8       | 13   | 27.30 | 19     |
| 172PLS-4M-4G  | 4            | 1/4       | 17   | 27.30 | 19     |
| 172PLS-6M-M5  | 6            | M5X0.8    | 13   | 33.50 | 24     |
| 172PLS-6M-2G  | 6            | 1/8       | 13   | 32.70 | 24     |
| 172PLS-6M-4G  | 6            | 1/4       | 17   | 32.00 | 24     |
| 172PLS-8M-2G  | 8            | 1/8       | 14   | 34.80 | 25     |
| 172PLS-8M-4G  | 8            | 1/4       | 17   | 35.00 | 25     |
| 172PLS-8M-6G  | 8            | 3/8       | 21   | 34.50 | 25     |
| 172PLS-10M-4G | 10           | 1/4       | 18   | 43.20 | 31     |
| 172PLS-10M-6G | 10           | 3/8       | 21   | 41.20 | 31     |

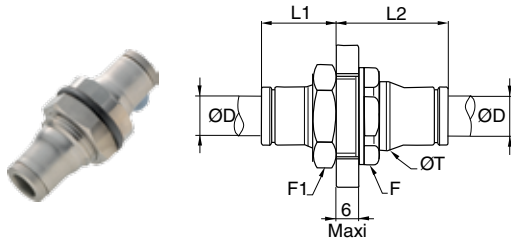
**62PLS Union - Inch Tube**

| PART NO.   | TUBE SIZE IN | G IN | H IN |
|------------|--------------|------|------|
| 62PLS-5/32 | 5/32         | .39  | 1.18 |
| 62PLS-3    | 3/16         | .39  | 1.18 |
| 62PLS-4    | 1/4          | .47  | 1.38 |
| 62PLS-5    | 5/16         | .59  | 1.46 |
| 62PLS-6    | 3/8          | .69  | 1.81 |
| 62PLS-8    | 1/2          | .79  | 1.89 |

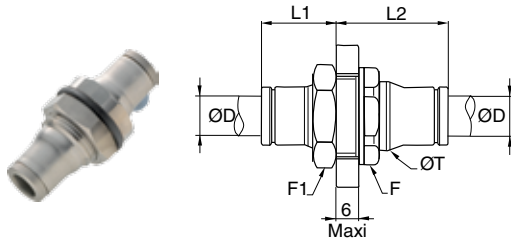
**62PLS Union - Metric Tube**

| PART NO.  | TUBE SIZE MM | G MM  | H MM  |
|-----------|--------------|-------|-------|
| 62PLS-4M  | 4            | 10.00 | 30.00 |
| 62PLS-6M  | 6            | 12.00 | 37.00 |
| 62PLS-8M  | 8            | 15.00 | 38.00 |
| 62PLS-10M | 10           | 17.00 | 49.00 |
| 62PLS-12M | 12           | 19.50 | 49.50 |

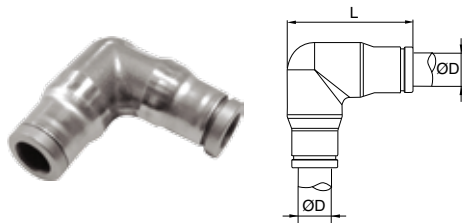
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**62PLSBH Bulkhead Union - Inch Tube**

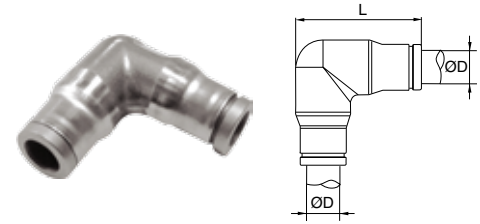
| PART NO.     | TUBE SIZE IN | F MM | F1 MM | L1 IN | L2 IN | T IN |
|--------------|--------------|------|-------|-------|-------|------|
| 62PLSBH-5/32 | 5/32         | 13   | 14    | .59   | .83   | .49  |
| 62PLSBH-3    | 3/16         | 17   | 13    | .59   | .83   | .49  |
| 62PLSBH-4    | 1/4          | 19   | 17    | .67   | .89   | .57  |
| 62PLSBH-5    | 5/16         | 19   | 19    | .75   | .94   | .65  |
| 62PLSBH-6    | 3/8          | 27   | 22    | .87   | 1.08  | .81  |
| 62PLSBH-8    | 1/2          | 27   | 27    | .94   | 1.14  | .79  |

**62PLSBH Bulkhead Union - Metric Tube**

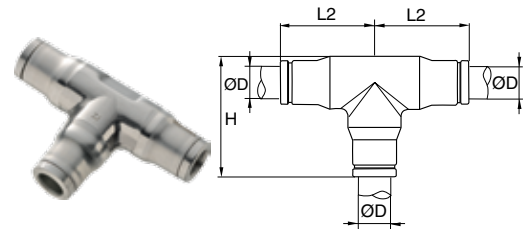
| PART NO.    | TUBE SIZE MM | F MM | F1 MM | L1 MM | L2 MM | T MM |
|-------------|--------------|------|-------|-------|-------|------|
| 62PLSBH-4M  | 4            | 14   | 13    | 15    | 18    | 13   |
| 62PLSBH-6M  | 6            | 17   | 17    | 19    | 21    | 15   |
| 62PLSBH-8M  | 8            | 19   | 19    | 20    | 22    | 17   |
| 62PLSBH-10M | 10           | 22   | 22    | 24    | 26    | 21   |
| 62PLSBH-12M | 12           | 24   | 24    | 25    | 26    | 23   |

**165PLS Union Elbow - Inch Tube**

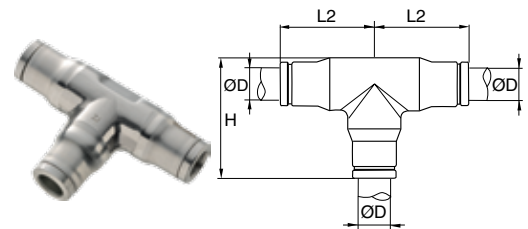
| PART NO.    | TUBE SIZE IN | L IN |
|-------------|--------------|------|
| 165PLS-5/32 | 5/32         | .96  |
| 165PLS-3    | 3/16         | .96  |
| 165PLS-4    | 1/4          | 1.14 |
| 165PLS-5    | 5/16         | 1.28 |
| 165PLS-6    | 3/8          | 1.56 |
| 165PLS-8    | 1/2          | 1.61 |

**165PLS Union Elbow - Metric Tube**

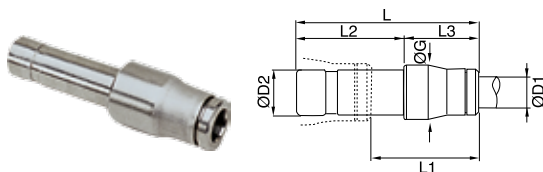
| PART NO.   | TUBE SIZE MM | L MM  |
|------------|--------------|-------|
| 165PLS-4M  | 4            | 24.00 |
| 165PLS-6M  | 6            | 30.00 |
| 165PLS-8M  | 8            | 32.20 |
| 165PLS-10M | 10           | 39.00 |
| 165PLS-12M | 12           | 43.00 |

**164PLS Union Tee - Inch Tube**

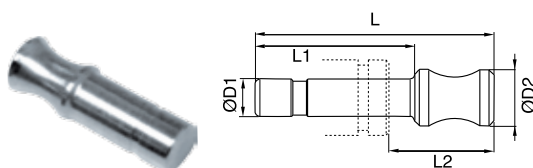
| PART NO.    | TUBE SIZE IN | H IN | L2 IN |
|-------------|--------------|------|-------|
| 164PLS-5/32 | 5/32         | .89  | .69   |
| 164PLS-3    | 3/16         | .89  | .69   |
| 164PLS-4    | 1/4          | 1.06 | .83   |
| 164PLS-5    | 5/16         | 1.20 | .91   |
| 164PLS-6    | 3/8          | 1.48 | 1.12  |
| 164PLS-8    | 1/2          | 1.61 | 1.22  |

**164PLS Union Tee - Metric Tube**

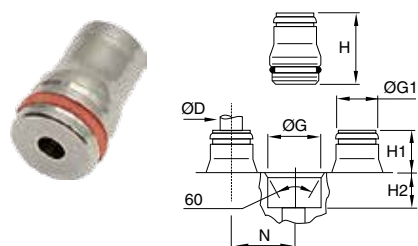
| PART NO.   | TUBE SIZE MM | H MM | L2 MM |
|------------|--------------|------|-------|
| 164PLS-4M  | 4            | 24   | 19    |
| 164PLS-6M  | 6            | 30   | 24    |
| 164PLS-8M  | 8            | 32   | 25    |
| 164PLS-10M | 10           | 39   | 31    |
| 164PLS-12M | 12           | 43   | 33    |

**67PLS Tube Reducer - Metric**

| PART NO.      | TUBE 1<br>SIZE<br>MM | TUBE 2<br>SIZE<br>MM | G<br>MM | L<br>MM | L1<br>MM | L2<br>MM | L3<br>MM |
|---------------|----------------------|----------------------|---------|---------|----------|----------|----------|
| 67PLS-4M-6M   | 4                    | 6                    | 10      | 35      | 19.0     | 19       | 16       |
| 67PLS-4M-8M   | 4                    | 8                    | 10      | 34      | 17.0     | 20       | 14       |
| 67PLS-6M-8M   | 6                    | 8                    | 12      | 42      | 24.0     | 23       | 19       |
| 67PLS-6M-10M  | 6                    | 10                   | 12      | 42      | 19.0     | 25       | 17       |
| 67PLS-8M-10M  | 8                    | 10                   | 15      | 45      | 22.5     | 25       | 19       |
| 67PLS-8M-12M  | 8                    | 12                   | 15      | 43      | 20.0     | 26       | 17       |
| 67PLS-10M-12M | 10                   | 12                   | 17      | 51      | 23.0     | 26       | 25       |

**639PLS Plug - Metric**

| PART NO.   | TUBE 1<br>SIZE<br>MM | TUBE 2<br>SIZE<br>MM | L<br>MM | L1<br>MM | L2<br>MM |
|------------|----------------------|----------------------|---------|----------|----------|
| 639PLS-4M  | 4                    | 6                    | 25.40   | 17.00    | 11.10    |
| 639PLS-6M  | 6                    | 8                    | 30.40   | 19.50    | 13.50    |
| 639PLS-8M  | 8                    | 10                   | 33.00   | 20.00    | 14.40    |
| 639PLS-10M | 10                   | 12                   | 40.00   | 25.00    | 17.00    |
| 639PLS-12M | 12                   | 14                   | 43.00   | 26.00    | 18.70    |

**PLSC Cartridge - Metric**

| PART NO. | TUBE<br>SIZE<br>MM | G<br>+ .1 - 0<br>MM | G1<br>MM | H<br>MM | H1<br>MM | H2<br>MM | N<br>MM |
|----------|--------------------|---------------------|----------|---------|----------|----------|---------|
| PLSC-4M  | 4                  | 9.80                | 8        | 18.00   | 9.50     | 8.50     | 11.00   |
| PLSC-6M  | 6                  | 12.10               | 10       | 20.00   | 11.50    | 8.50     | 13.50   |
| PLSC-8M  | 8                  | 14.80               | 13       | 22.00   | 13.50    | 8.50     | 16.00   |
| PLSC-10M | 10                 | 17.50               | 15       | 25.50   | 15.00    | 10.50    | 20.00   |
| PLSC-12M | 12                 | 20.00               | 17       | 26.00   | 15.50    | 10.50    | 22.50   |

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Tube to Male  
NPT

**W369PLPO**  
Male Elbow



p. A60

Metric Tube  
to Male BSPT

**W369PLPO**  
Male Elbow



p. A60

Metric Tube  
to Male BSPP

**369PLPO**  
Male Elbow



p. A60

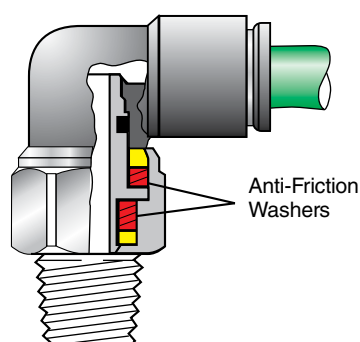
# Oscillating Elbows

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| MATERIALS OF CONSTRUCTION |                              |
|---------------------------|------------------------------|
| BODY:                     | "GLASS REINFORCED NYLON 6.6" |
| COLLAR:                   | NYLON                        |
| GRIPPING RING:            | STAINLESS STEEL              |
| D SEAL:                   | NITRILE                      |
| O-RING:                   | NITRILE                      |
| BASE:                     | NICKEL PLATED BRASS          |

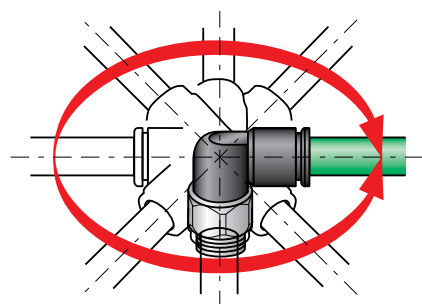
| NOMENCLATURE             |                  |
|--------------------------|------------------|
| EXAMPLE:<br>W369PLPO-4-4 | ATTRIBUTE:       |
| W                        | THREAD SEALANT   |
| 3                        | COMPOSITE BODY   |
| 69                       | MALE ELBOW       |
| PLP                      | PRESTOLOK        |
| O                        | OSCILLATING      |
| 4                        | 1/4" TUBE O.D.   |
| 4                        | 1/4" PIPE THREAD |

| SPECIFICATIONS |                |
|----------------|----------------|
| PRESSURE       | 290 PSI        |
| TEMPERATURE    | -4°F TO +175°F |



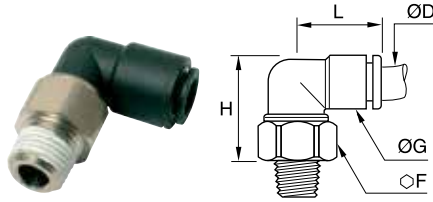
Parker oscillating fittings are designed to satisfy the requirements of industrial automation and robotics. The oscillating fitting features low-friction washers enabling the fitting to rotate in conjunction with the stroke of the cylinder piston. This prevents premature tube wear due to excessive flexing.

To achieve longevity of the tubing the tube should be designed to move in the same plane as the tube-exit from the fitting. Recoil tubing should not be used with this fitting.

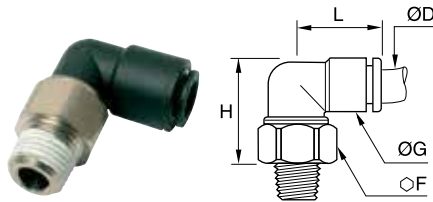


| O.D. Tube Inch & mm                       | 5/32 & 4 | 1/4 & 6 | 8   | 10 | 12 |
|-------------------------------------------|----------|---------|-----|----|----|
| "Maximum rotation speed in radian/second" | 190      | 160     | 120 | 90 | 80 |

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**W369PLPO Oscillating Compact Elbow - NPT**

| PART NO.        | TUBE SIZE (IN) | NPT | F  | G   | H    | L   |
|-----------------|----------------|-----|----|-----|------|-----|
| W369PLPO-5/32-2 | 5/32           | 1/8 | 12 | .43 | .85  | .69 |
| W369PLPO-4-2    | 1/4            | 1/8 | 14 | .55 | 1.04 | .81 |
| W369PLPO-4-4    | 1/4            | 1/4 | 14 | .55 | 1.04 | .81 |

**W369PLPO Oscillating Compact Elbow - BSPT**

| PART NO.        | TUBE SIZE (MM) | BSPT | F  | G    | H    | L    |
|-----------------|----------------|------|----|------|------|------|
| W369PLPO-4M-2R  | 4              | 1/8  | 12 | 11.0 | 22.0 | 17.5 |
| W369PLPO-6M-2R  | 6              | 1/8  | 14 | 14.0 | 26.5 | 20.5 |
| W369PLPO-6M-4R  | 6              | 1/4  | 14 | 14.0 | 23.5 | 20.5 |
| W369PLPO-8M-2R  | 8              | 1/8  | 17 | 16.0 | 32.0 | 23.5 |
| W369PLPO-8M-4R  | 8              | 1/4  | 17 | 16.0 | 29.0 | 23.5 |
| W369PLPO-8M-6R  | 8              | 3/8  | 17 | 16.0 | 25.0 | 23.5 |
| W369PLPO-10M-4R | 10             | 1/4  | 19 | 19.5 | 37.5 | 29.0 |
| W369PLPO-10M-6R | 10             | 3/8  | 19 | 19.5 | 33.5 | 29.0 |
| W369PLPO-12M-4R | 12             | 1/4  | 21 | 22.0 | 44.5 | 33.5 |
| W369PLPO-12M-6R | 12             | 3/8  | 21 | 22.0 | 41.0 | 33.5 |

**369PLPO Oscillating Compact Elbow - BSPP, M5**

| PART NO.       | TUBE SIZE (MM) | M5/ BSPP | E   | F  | G    | H    | L    |
|----------------|----------------|----------|-----|----|------|------|------|
| 369PLPO-4M-M5  | 4              | M5X0.8   | 3.0 | 12 | 11.0 | 24.5 | 17.5 |
| 369PLPO-4M-2G  | 4              | 1/8      | 5.0 | 13 | 11.0 | 23.0 | 17.5 |
| 369PLPO-6M-M5  | 6              | M5X0.8   | 3.0 | 12 | 14.0 | 27.5 | 20.5 |
| 369PLPO-6M-2G  | 6              | 1/8      | 5.0 | 14 | 14.0 | 27.0 | 20.5 |
| 369PLPO-6M-4G  | 6              | 1/4      | 5.5 | 16 | 14.0 | 25.5 | 20.5 |
| 369PLPO-8M-2G  | 8              | 1/8      | 5.0 | 17 | 16.0 | 33.5 | 23.5 |
| 369PLPO-8M-4G  | 8              | 1/4      | 5.5 | 17 | 16.0 | 31.0 | 23.5 |
| 369PLPO-8M-6G  | 8              | 3/8      | 5.5 | 20 | 16.0 | 29.5 | 23.5 |
| 369PLPO-10M-4G | 10             | 1/4      | 5.5 | 19 | 19.5 | 50.0 | 29.0 |
| 369PLPO-10M-6G | 10             | 3/8      | 5.5 | 20 | 19.5 | 37.0 | 29.0 |
| 369PLPO-12M-4G | 12             | 1/4      | 5.5 | 21 | 22.0 | 46.5 | 33.5 |
| 369PLPO-12M-6G | 12             | 3/8      | 5.5 | 21 | 22.0 | 45.5 | 33.5 |