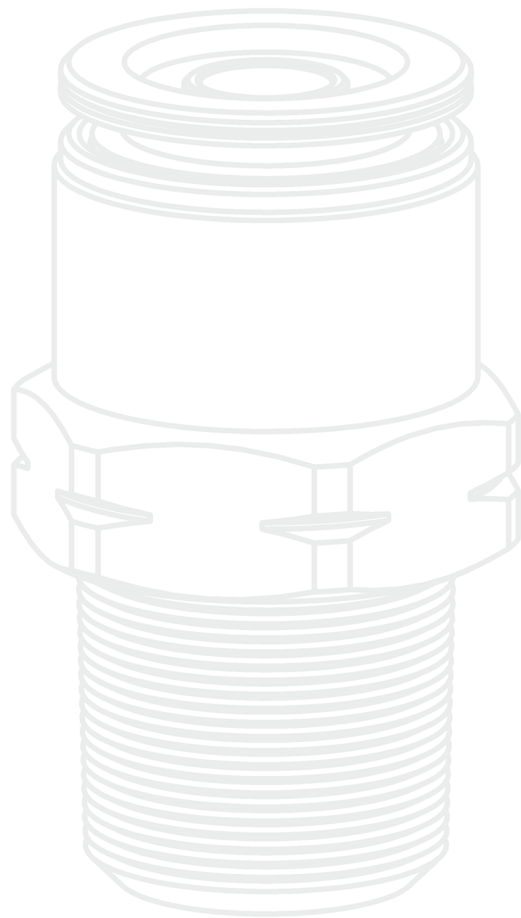




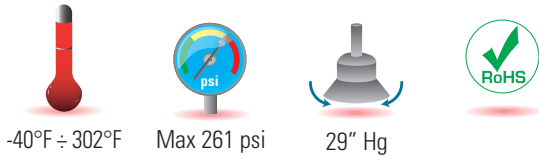
PT LINE

DOT Push-in Fittings, Inch/NPT

Push in fittings for Vehicles applications complying with DOT FMVSS 5571.106,
SAE J2493-3 e SAE J1131 specs.



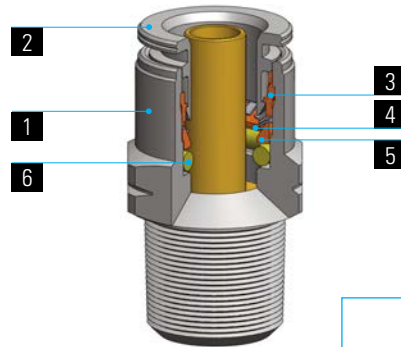
| 1 - 2 | 3 | 4 | 5 | 6 |
|--|--------------|--------------------------|-----------------|-------|
| Body and Release Ring | Holding Ring | Gripping collet | Protection Ring | Seals |
| Brass UNI EN 12164 CW614N UNI EN 12165 CW617N Nickel Plated | Resin (PEI) | Stainless Steel AISI 301 | Resin (PEI) | HNBR |



DATA SHEET

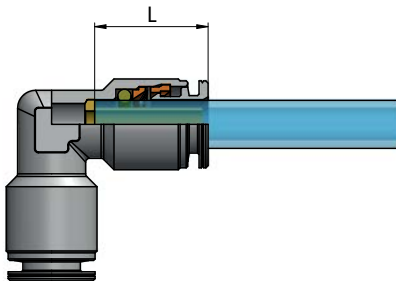
Recommended tubings:
PA Tubings complying with SAE (DOT).

Application fields:
Application Fields: Pneumatic circuits for truck and Trailers : Air Suspension, Braking Systems, Transmissions, locking doors and windows, Seat adjustment, Instrumentation, Air conditioning systems, horn, wiper motors, valves, cylinders and accessories.



| | 1/8 NPTF | 1/4 NPTF | 3/8 NPTF | 1/2 NPTF |
|-----|----------|----------|----------|----------|
| 1/4 | ● | ● | | |
| 3/8 | | ● | ● | |
| 1/2 | | | ● | ● |

Tubing insertion depth



| Tube OD | L |
|---------|------|
| 1/4 | .634 |
| 3/8 | .720 |
| 1/2 | .767 |

ASSEMBLY INSTRUCTIONS

1. Cut the tube square (by means of a hose cutter i.e. our PA 34) making sure that no burrs are left and that the tube is not oval.
2. Insert the tube into the fitting until it bottoms.

Tube release

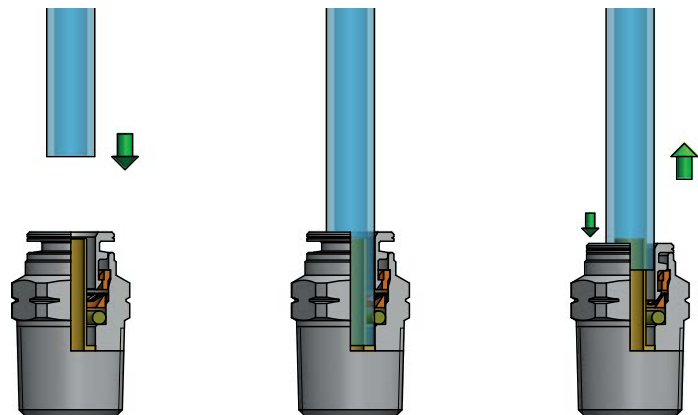
While pressing on the release ring, pull out the tube from the fitting.



Once the tubing is connected to the fitting, make sure that the tubing is not subject to any tensile strength and that the min. recommended bending radius stated in the tubing section of this catalogue is complied with (see page 100).

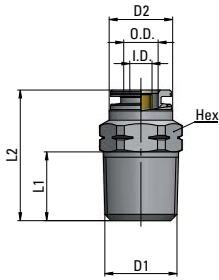
To prevent any accidental tube release, no components have to come in touch with the release ring and exercise any unwanted pressure on the same. Indeed however lateral, any load on the release ring may cause the tube disconnection.


To tighten threads, please check out our tightening torque chart illustrated at page 6.



PT 11

Taper Straight, male

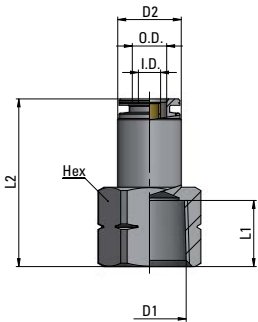



| Part Number | Tube OD | Tube ID | D1 NPTF | D2 | L1 | L2 | HEX | oz  |
|-------------|---------|---------|---------|------|------|-------|-------|--|
| 11 1/4 1/8 | 1/4 | .165 | 1/8 | .472 | .335 | .866 | 1/2 | - |
| 11 1/4 1/4 | 1/4 | .165 | 1/4 | .472 | .512 | .965 | 9/16 | - |
| 11 1/4 3/8 | 1/4 | .165 | 3/8 | .472 | .512 | 1.004 | 11/16 | - |
| 11 3/8 1/8 | 3/8 | .244 | 1/8 | .630 | .335 | 1.122 | 11/16 | - |
| 11 3/8 1/4 | 3/8 | .244 | 1/4 | .630 | .512 | 1.260 | 11/16 | - |
| 11 3/8 3/8 | 3/8 | .244 | 3/8 | .630 | .512 | 1.004 | 11/16 | - |
| 11 3/8 1/2 | 3/8 | .244 | 1/2 | .630 | .669 | 1.201 | 7/8 | - |
| 11 1/2 1/4 | 1/2 | .362 | 1/4 | .787 | .512 | 1.358 | 13/16 | - |
| 11 1/2 3/8 | 1/2 | .362 | 3/8 | .787 | .512 | 1.161 | 13/16 | - |
| 11 1/2 1/2 | 1/2 | .362 | 1/2 | .787 | .669 | 1.201 | 7/8 | - |

5/32 and 5/16 Tube OD fittings available upon request.

PT 13

Female Straight

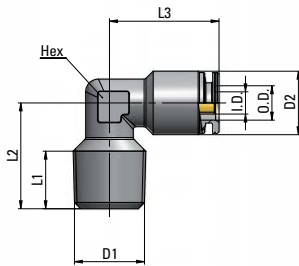



| Part Number | Tube OD | Tube ID | D1 NPTF | D2 | L1 | L2 | HEX | oz  |
|-------------|---------|---------|---------|------|------|-------|-------|--|
| 13 1/4 1/8 | 1/4 | .165 | 1/8 | .472 | .335 | 1.063 | 1/2 | - |
| 13 1/4 1/4 | 1/4 | .165 | 1/4 | .472 | .492 | 1.240 | 11/16 | - |
| 13 3/8 1/4 | 3/8 | .244 | 1/4 | .630 | .492 | 1.339 | 11/16 | - |
| 13 3/8 3/8 | 3/8 | .244 | 3/8 | .630 | .492 | 1.339 | 13/16 | - |

5/32 and 5/16 Tube OD fittings available upon request.

PT 14

Taper Elbow Fitting, male

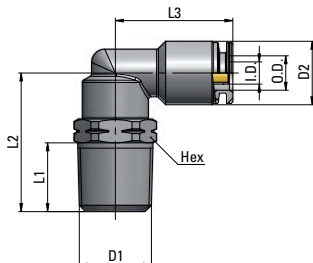



| Part Number | Tube OD | Tube ID | D1 NPTF | D2 | L1 | L2 | L3 | HEX (mm) | oz  |
|-------------|---------|---------|---------|------|------|------|------|----------|--|
| 14 1/4 1/8 | 1/4 | .165 | 1/8 | .472 | .335 | .630 | .807 | 10 | - |
| 14 1/4 1/4 | 1/4 | .165 | 1/4 | .472 | .433 | .787 | .807 | 10 | - |
| 14 3/8 1/4 | 3/8 | .244 | 1/4 | .630 | .472 | .886 | .984 | 14 | - |
| 14 3/8 3/8 | 3/8 | .244 | 3/8 | .630 | .433 | .886 | .984 | 14 | - |

5/32 and 5/16 Tube OD fittings available upon request.

PT 15

Taper Swivelling Elbow Fitting, male

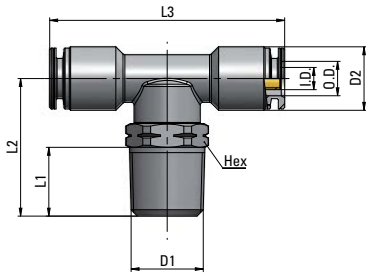



| Part Number | Tube OD | Tube ID | D1 NPTF | D2 | L1 | L2 | L3 | HEX | oz  |
|-------------|---------|---------|---------|------|------|-------|-------|-------|--|
| 15 1/4 1/8 | 1/4 | .165 | 1/8 | .472 | .335 | .827 | .866 | 1/2 | - |
| 15 1/4 1/4 | 1/4 | .165 | 1/4 | .472 | .512 | 1.024 | .866 | 9/16 | - |
| 15 1/4 3/8 | 1/4 | .165 | 3/8 | .472 | .512 | 1.043 | .866 | 11/16 | - |
| 15 3/8 1/8 | 3/8 | .244 | 1/8 | .630 | .335 | .945 | 1.024 | 11/16 | - |
| 15 3/8 1/4 | 3/8 | .244 | 1/4 | .630 | .512 | 1.122 | 1.024 | 11/16 | - |
| 15 3/8 3/8 | 3/8 | .244 | 3/8 | .630 | .512 | 1.122 | 1.024 | 11/16 | - |
| 15 3/8 1/2 | 3/8 | .244 | 1/2 | .630 | .669 | 1.339 | 1.024 | 7/8 | - |
| 15 1/2 1/4 | 1/2 | .362 | 1/4 | .787 | .512 | 1.260 | 1.122 | 13/16 | - |
| 15 1/2 3/8 | 1/2 | .362 | 3/8 | .787 | .512 | 1.260 | 1.122 | 13/16 | - |
| 15 1/2 1/2 | 1/2 | .362 | 1/2 | .787 | .669 | 1.437 | 1.122 | 7/8 | - |

5/32 and 5/16 Tube OD fittings available upon request.

PT 20

Swivelling Tee fitting, taper

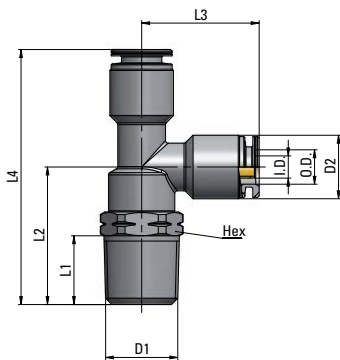



| Part Number | Tube OD | Tube ID | D1 NPTF | D2 | L1 | L2 | L3 | HEX1 | oz  |
|-------------|---------|---------|---------|------|------|-------|-------|-------|--|
| 20 1/4 1/8 | 1/4 | .165 | 1/8 | .472 | .335 | .827 | 1.732 | 1/2 | - |
| 20 1/4 1/4 | 1/4 | .165 | 1/4 | .472 | .512 | 1.024 | 1.732 | 9/16 | - |
| 20 3/8 1/4 | 3/8 | .244 | 1/4 | .630 | .512 | 1.122 | 2.047 | 11/16 | - |
| 20 3/8 3/8 | 3/8 | .244 | 3/8 | .630 | .512 | 1.122 | 2.047 | 11/16 | - |
| 20 1/2 3/8 | 1/2 | .362 | 3/8 | .787 | .512 | 1.260 | 2.244 | 13/16 | - |
| 20 1/2 1/2 | 1/2 | .362 | 1/2 | .787 | .669 | 1.437 | 2.244 | 7/8 | - |

5/32 and 5/16 Tube OD fittings available upon request.

PT 23

Lateral Swivelling Tee fitting, taper

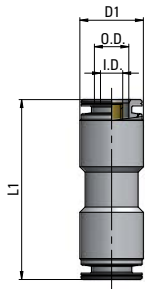



| Part Number | Tube OD | Tube ID | D1 NPTF | D2 | L1 | L2 | L3 | L4 | HEX | oz  |
|-------------|---------|---------|---------|------|------|-------|-------|-------|-------|--|
| 23 1/4 1/8 | 1/4 | .165 | 1/8 | .472 | .335 | .827 | .866 | 1.693 | 1/2 | - |
| 23 1/4 1/4 | 1/4 | .165 | 1/4 | .472 | .512 | 1.024 | .866 | 1.890 | 9/16 | - |
| 23 3/8 1/4 | 3/8 | .244 | 1/4 | .630 | .512 | 1.122 | 1.024 | 2.146 | 11/16 | - |
| 23 3/8 3/8 | 3/8 | .244 | 3/8 | .630 | .512 | 1.122 | 1.024 | 2.146 | 11/16 | - |
| 23 1/2 3/8 | 1/2 | .362 | 3/8 | .787 | .512 | 1.260 | 1.122 | 2.382 | 13/16 | - |
| 23 1/2 1/2 | 1/2 | .362 | 1/2 | .787 | .669 | 1.437 | 1.122 | 2.559 | 7/8 | - |

5/32 and 5/16 Tube OD fittings available upon request.

PT 26

Union

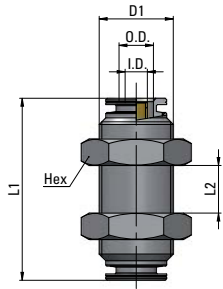


| Part Number | Tube OD | Tube ID | D2 | L1 | oz  |
|-------------|---------|---------|------|-------|--|
| 26 1/4 1/4 | 1/4 | .165 | .472 | 1.323 | - |
| 26 3/8 3/8 | 3/8 | .244 | .630 | 1.520 | - |
| 26 1/2 1/2 | 1/2 | .362 | .787 | 1.614 | - |

5/32 and 5/16 Tube OD fittings available upon request.

PT 27

Bulkhead union

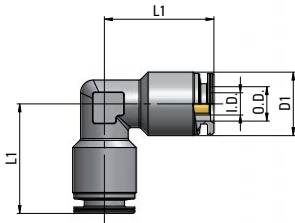


| Part Number | Tube OD | Tube ID | D1 | L1 | L2 | HEX (mm) | oz |
|-------------|---------|---------|---------|-------|------|----------|----|
| 27 1/4 1/4 | 1/4 | .165 | M14x1 | 1.339 | .571 | 18 | - |
| 27 3/8 3/8 | 3/8 | .244 | M18x1 | 1.535 | .689 | 22 | - |
| 27 1/2 1/2 | 1/2 | .362 | M22x1.5 | 1.614 | .728 | 26 | - |

5/32 and 5/16 Tube OD fittings available upon request.

PT 28

Union Elbow

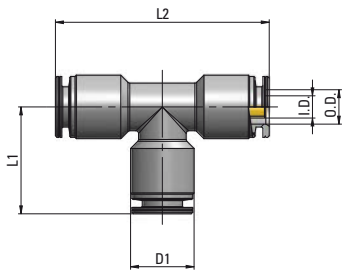


| Part Number | Tube OD | Tube ID | D2 | L1 | oz |
|-------------|---------|---------|------|-------|----|
| 28 1/4 1/4 | 1/4 | .165 | .472 | .807 | - |
| 28 3/8 3/8 | 3/8 | .244 | .630 | .984 | - |
| 28 1/2 1/2 | 1/2 | .362 | .787 | 1.063 | - |

5/32 and 5/16 Tube OD fittings available upon request.

PT 29

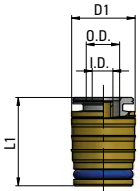
Union Tee



| Part Number | Tube OD | Tube ID | D2 | L1 | L2 | oz |
|-------------|---------|---------|------|-------|-------|----|
| 29 1/4 1/4 | 1/4 | .165 | .472 | .787 | 1.575 | - |
| 29 3/8 3/8 | 3/8 | .244 | .630 | .965 | 1.929 | - |
| 29 1/2 1/2 | 1/2 | .362 | .787 | 1.063 | 2.126 | - |

5/32 and 5/16 Tube OD fittings available upon request.

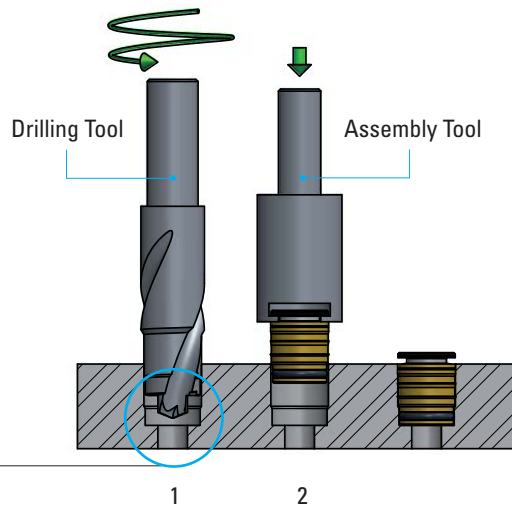
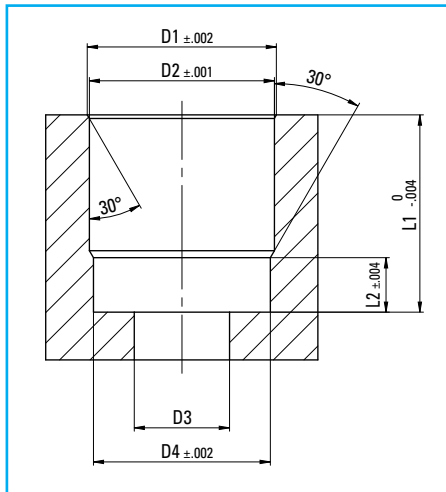
The new construction features of the cartridge PT10 allow for one single cartridge version to be assembled in plastic, aluminium as well as brass bodies.



| Part Number | Tube OD | Tube ID | D ₁ | L ₁ | oz |
|-------------|---------|---------|----------------|----------------|------|
| 10 5/32 00 | 5/32 | .087 | .366 | .571 | .127 |
| 10 1/4 00 | 1/4 | .165 | .472 | .650 | .212 |
| 10 5/16 00 | 5/16 | .205 | .539 | .669 | .279 |
| 10 3/8 00 | 3/8 | .244 | .602 | .748 | .364 |

Cartridge seat drilling plan

| Tube OD | D ₁ | D ₂ | D ₃ | D ₄ | L ₁ | L ₂ |
|---------|----------------|----------------|----------------|----------------|----------------|----------------|
| 5/32 | .374 | .362 | .118 | .339 | .472 | .126 |
| 1/4 | .480 | .469 | .217 | .445 | .551 | .157 |
| 5/16 | .547 | .535 | .276 | .512 | .571 | .157 |
| 3/8 | .610 | .598 | .335 | .575 | .630 | .157 |



- 1 Drill the cartridge seat , following the instructions given
- 2 Manually press the cartridge into the seat and by means of the Assembly tool push it all the way down until it bottoms ; this will guarantee the proper cartridge assembly.

Drilling and Assembly Tool "available upon request .