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# Fluid System Connectors

Quick reference guide

Bulletin 3500-QRG

Parker

ENGINEERING YOUR SUCCESS.

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# INCREASING PERFORMANCE, STANDARDIZING INVENTORY IN FACTORY / PROCESS AUTOMATION

**Connecting you to increased efficiency, improved throughput, and bottom line benefits**

## MARKET APPLICATIONS

Processing | Transferring | Pneumatic Circuits | Cooling | Measuring

## PERFORMANCE EXPECTATIONS

- Compact design
- Weld spatter resistance
- Robustness
- Vacuum performance
- High reliability
- Mechanical resistance
- Installation flexibility

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## FITTINGS

**Prestolok® PLP Metal Fittings**
Compact push-to-connect nickel-plated brass fittings with excellent corrosion resistance. Nitrile seal; stainless steel grab ring. Compatible with a wide array of tubing.

**Prestolok® PLP Composite Fittings**
Glass-reinforced nylon 6.6 push-to-connect fittings provide high corrosion and chemical resistance. Nitrile seal; stainless steel grab ring.

**Prestolok® PLM Metal Fittings**
High phosphorous, FDA-compliant, chemical-resistant, nickel-plated collet and body push-to-connect fittings. Corrosion- and abrasion-resistant. FKM seal.

**Prestolok® PLS Stainless Steel Fittings**
With FKM seals, offer excellent resistance to aggressive environments and fluids. Smooth surface design reduces retention zones for safe and easy cleaning.

## FLOW CONTROLS

**Compact Flow Control**
Excellent flow. Small size for reduced spaces.

**Miniature Flow Control**
For very small-sized pneumatic applications.

**Swivel Outlet Flow Control**
Allows a vertical or angled tube exit where access is tight.

**Plug-in Flow Control**
Mountable into existing fittings; allows very compact installations.

**In-line Flow Control**
Splices into the existing cylinder port line.

**Compact Metal Flow Control**
For severe conditions (temperatures, sparks, abrasion, etc.).

**Stainless Steel Flow Control**
Regulates the speed of a cylinder rod; regulates flow in environments with high mechanical or chemical constraints.

## OTHER APPLICABLE PRODUCTS

**Threshold Sensor**
Detects pressure absence and converts it to a high-pressure pneumatic output.

**Tubing**
Flexible nylon or kink-resistant polyurethane in assorted colors and durometers.

**Cartridges**
Guarantee the integrity of the sealing system before and after assembly in non-threaded cavities. Compact design of our one-piece cartridges enables automation and improves system reliability.

**3100 Carstick® Cartridge**
Available in brass or nickel-plated brass.

**PLMC Cartridge**
Available in brass or nickel-plated brass.

**PLSC Cartridge**
Available in metric sizing.

## VALVES

**Check Valve**
Allows air to pass in one direction while blocking flow in the other.

**Stainless Steel Check Valve**
Provides unidirectional flow. Ideally suited for harsh environments as well as conveying industrial fluids.

**Pilot Operated Check Valve**
Designed to protect installations by locking the air supply to the cylinder to keep it in position if the compressed air supply is removed.

**Blocking Valve**
Prevents equipment damage in the event of a pressure loss.

**Slow Start Valve**
Controls the introduction of supply pressure after system has been vented.

**Pneumatic Slide Valve**
Affects an immediate isolation of the air line by venting the system to atmosphere.

**Exhaust Valve**
Increases the return speed of the cylinder rod by allowing the exhaust to pass directly to atmosphere.

RoHS 2002/95/EC

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# HOW TO ORDER
## PRESTOLOK® PLM, PLS, PLP Metal, and PLP Composite Fittings

**INCHES** PRESTOLOK® PLM, PLS, PLP, AND COMPOSITE FITTINGS

| W | 3 | 69 | PLP | BJ | -4 | -2 |
|---|---|---|---|---|---|---|
| A | B | C | D | E | F | G |

**METRIC** PRESTOLOK® PLM, PLS, PLP, AND COMPOSITE FITTINGS

| W | 3 | 69 | PLP | X | 6M | 2 | R |
|---|---|---|---|---|---|---|---|
| A | B | C | D | E | F | G | G |

### A Thread Sealant

| | |
|---|---|
| W | White Acrylic |
| VS | Vibra Seal |
| Blank | No Sealant |

### B Body Material

| | |
|---|---|
| 1 | Metal Forging |
| 3 | Composite |

### C Fitting Configuration

| | |
|---|---|
| 62 | Union Y |
| 66 | Female Connector |
| 68 | Male Connector |
| 70 | Female Elbow |
| 64 | Union Tee |
| 65 | Union Elbow |
| 69 | Male Elbow |
| 71 | Male Run Tee |
| 72 | Male Branch Tee |
| 47 | Cross |
| 79 | 45° Elbow |
| 22 | Barbed Connector |
| 32 | Union |
| 24 | Multiple Tee |
| 67 | Tube Reducer |
| 639 | Plug |

### D Fitting Series

| | |
|---|---|
| PLP | Prestolok Plus & Prestolok Composite |
| PLM | Prestolok All Metal |
| PLS | Prestolok Stainless Steel |

### E Fitting Description

| | |
|---|---|
| X | Extended Male Elbow |
| SP | Standpipe |
| PD | Double Y |
| BJ | Banjo |
| TJ | Twin Banjo |
| DJ | Double Banjo |
| BH | Bulkhead Union |
| DSP | Plug-in Multiple Y |
| RC | Rail Connector |
| DRC | Double Rail Connector |
| BHP | Plug-in Bulkhead |

### F Tube Size

| Inches | | Metric | |
|---|---|---|---|
| 2 | 1/8 | 4M | 4mm |
| 3 | 3/16 | 6M | 6mm |
| 5/32 | 5/32 | 8M | 8mm |
| 4 | 1/4 | 10M | 10mm |
| 5 | 5/16 | 12M | 12mm |
| 6 | 3/8 | 14M | 14mm |
| 8 | 1/2 | | |

### G Thread Size

| Inches | | Metric | |
|---|---|---|---|
| 0 | 10-32 | 2 | 1/8 |
| 1 | 1/16 | 4 | 1/4 |
| 2 | 1/8 | 6 | 3/8 |
| 4 | 1/4 | 8 | 1/2 |
| 6 | 3/8 | M3 | M3X0.5 |
| 8 | 1/2 | M5 | M5X0.8 |
| | | M7 | M7X1 |
| | | M10 | M10X1 |
| | | M12 | M12X1.5 |

### H Thread Type

| | |
|---|---|
| Metric | |
| R | BSPT |
| G | BSPP |

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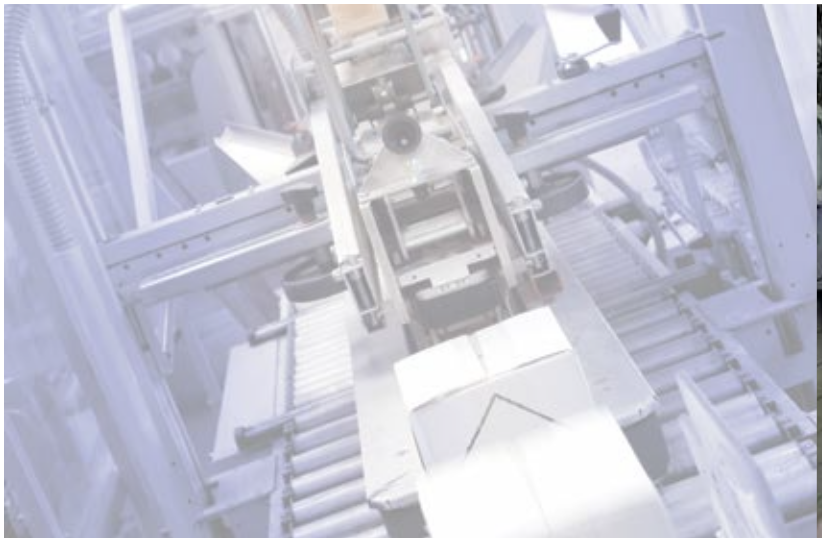
## PRODUCT SPECS

| | Temperature | 1/8" | 5/32" | 3/16" | 1/4" | 5/16" | 3/8" | 1/2" | 5/8" | 3/4" | 7/8" | 4mm | 6mm | 8mm | 10mm | 12mm | 14mm | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Prestolok Brass | 0°F to 200°F | 300 | 300 | 300 | 300 | 300 | 300 | 300 | — | — | — | 300 | 300 | 300 | 300 | 300 | 300 | Push-to-Connect |
| Prestolok Composite | -4°F to 175°F | 290 | 290 | 260 | 290 | 290 | 290 | 290 | — | — | — | 290 | 290 | 290 | 290 | 290 | 290 | |
| Prestolok PLM | -4°F to 250°F | — | 290 | — | 290 | 290 | 290 | 290 | — | — | — | 290 | 290 | 290 | 290 | 290 | 290 | |
| Prestolok PLS | -4°F to 245°F | — | 290 | 290 | 290 | 290 | 290 | 290 | 290 | 290 | 290 | 290 | 290 | 290 | 290 | 290 | — | |
| Flow Controls | 30°F to 160°F | 145 | 145 | — | 145 | 145 | 145 | 145 | — | — | — | — | 145 | 145 | 145 | 145 | — | Function |

Maximum working pressure (psi) by tube size at 73°F

## TUBING COMPATIBILITY

| | Polyethylene E & EB | Polyethylene PEFR | Polyethylene HDPE | Nylon N | Nylon NR | Polypropylene PP & PPB | Polyurethane HU & HUM (>95 Shore A) | Polyurethane HUFR (Weld Tubing) | FEP |
|---|---|---|---|---|---|---|---|---|---|
| Prestolok Brass | X | X | X | X | X | X | X | | |
| Prestolok Composite | X | | | X | X | | X | | X |
| Prestolok PLM | X | | | X | X | | X | X | X |
| Prestolok PLS | X | | | X | X | | X | X | X |
| Flow Controls | X | | | X | X | | X | | X |



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# IN WATER, FOOD AND BEVERAGE: KEEPING IT CLEAN, KEEPING IT SAFE

**Connecting you to leak-free innovation, smaller footprints, and faster assembly**

## MARKET APPLICATIONS

Filtration | Purification | Processing | Dispensing | Bottling | Treatment | Aeroponics

## PERFORMANCE EXPECTATIONS

- Manufactured from FDA-compliant materials
- Meet NSF-61 requirements for potable water contact
- Excellent chemical resistance
- Wide range of fluid compatibility
- Mechanical resistance
- Installation flexibility

## FITTINGS

**LIQUIfit™ Fittings**

An "eco-designed," innovative alternative; no fluid contamination occurs and environmental protection is guaranteed. Compact, push-to-connect, full-flow fittings offer high chemical resistance to such things as chlorine, cleaning agents, and UV. Also limits biofilm development. Suitable for water, potable liquids, and neutral gas applications.

**TrueSeal™ Thermoplastic Fittings**

Lightweight, field attachable, push-to-connect fittings manufactured from FDA compliant materials. Available in acetyl, polypropylene, and Kynar, TrueSeal fittings also offer NSF-51 compliance; NSF 61 compliance in gray acetyl. Widely used in water conditioning, filtration and reverse osmosis, as well as on water, soft drink, beer, wine, and condiment dispensing systems.

**Low Lead Fittings**

Cost-effective, low lead fittings for use on equipment that dispenses or conveys water for human consumption, including drinking and cooking. Meet California AB 1953 standards for potable water use. Suitable for high pressure beverage brewing and dispensing at temperatures up to 400°F without adversely affecting product flavor.

**Fast & Tite® Fittings**

A compression style fitting that installs in seconds without tools and provides a tight, sure, leak-proof seal without clamps or adjustments. Unique grab ring for tube retention, couples with a Nitrile O-ring, creates a positive seal and assures good tube retention with only hand tight assembly.

**Par-Barb® Fittings**

Multiple barb design generates the maximum gripping and sealing power when combined with a hose clamp. Fittings are injection molded from high strength, chemically inert thermoplastic materials.



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## VALVES

**LIQUIfit™ Polypropylene Ball Valves**
With superior mechanical strength and chemical resistance, LIQUIfit ball valves meet all FDA and NSF-51 requirements for food contact. Built-in connection eliminates the need for a secondary fitting, reducing cost. Low profile design saves space. Full flow, self-cleaning ball maintains the cleanliness of the circuit.

**TrueSeal™ Ball Valves**
These polypropylene ball valves offer proven leak-free performance, as well as excellent corrosion resistance. Bidirectional flow maximizes productivity. Full stainless steel gripping ring eliminates the need for locking clips. Full flow, self-cleaning ball adds quality and durability.

**Par-Barb Ball Valves**
Injection molded from high strength, chemically inert, nylon thermoplastic. The multiple barb design generates the maximum gripping and sealing power when combined with a hose clamp. FDA and NSF 51 compliant.

**Check Valve**
One-way directional valve of acetal permits gases and liquids to flow in only one direction while blocking flow reversal.

**Stainless Steel Check Valve**
Provides unidirectional flow. Ideally suited for harsh environments as well as conveying industrial fluids.

## ANTIMICROBIAL TUBING

**Resists degradation from mildew, algae, fungi and biofilm**
Parker's Series EA polyethylene tubing is 100% treated without using expensive silver additives. Fully compounded into the tubing to provide built-in hygiene without odors or discoloration for continuous cleanliness. FDA, NSF-51, REACH and RoHS compliant.

## OTHER APPLICABLE PRODUCTS

**TrueSeal™ Cartridges**
Allow you to machine or mold a tube connection into your equipment or components, eliminating the need for threaded connections. Reduces material and assembly costs as well as potential leak paths. Withstands pressure up to 150 psi.

**LIQUIfit™ Cartridges**
Guarantees the integrity of the sealing system before and after assembly in non-threaded cavities. Compact, one-piece cartridges are available in brass and nickel-plated brass. Self-centering design. Withstands pressure up to 230 psi.

**Tubing**
Polyethylene for food contact and potable water applications. Kink-resistant polyurethane for food contact also exhibits excellent chemical resistance in chlorinated water applications. Assorted colors and durometers.

## HOW TO ORDER LIQUIFIT™ Fittings

**INCHES** LIQUIFIT™

| 6505 | 56 | 11 | W | P2 |
|---|---|---|---|---|
| A | B | C | D | E |

**METRIC** LIQUIFIT™

| 6509 | 06 | 13 | W | P2 |
|---|---|---|---|---|
| A | B | C | D | E |

### A Fitting Configuration

| | |
|---|---|
| 6505 | Male Connector |
| 6315 | Female Connector |
| 6306 | Union Connector |
| 6404 | Union Tee |
| 6316 | Bulkhead Union |
| 6579 | Fixed Elbow |
| 6353 | Faucet Connector |
| 6302 | Union Elbow |
| 6340 | Union Y Connector |
| 6366 | Reducer |
| 6388 | Plug-in Tee |
| 6307 | Cross |
| 6351 | End Stop |
| 6521 | Stem Adapter |
| 6509 | Swivel Elbow |
| 6508 | Swivel Branch Tee |
| 6382 | Plug-in Elbow |
| 6383 | Plug-in Run Tee |
| 6326 | Plug |
| 6322 | Stem to Hose Barb |
| 6503 | Swivel Run Tee |
| 6548 | Swivel Y Connector |
| 6380 | Plug-in 45° Elbow |

### B Tube/Stem Size

| Inches | | Metric | |
|---|---|---|---|
| 11 | 1/8 | 04 | 4mm |
| 56 | 1/4 | 06 | 6mm |
| 08 | 5/16 | 08 | 8mm |
| 60 | 3/8 | 10 | 10mm |
| 62 | 1/2 | 12 | 12mm |

### C Thread or Tube O.D.

| Inches | | Metric Cont. | |
|---|---|---|---|
| 00 | Same Size as Tube | 04 | 4mm |
| 11 | 1/8 | 06 | 6mm |
| 14 | 1/4 | 08 | 8mm |
| 18 | 3/8 | 10 | 1/8 |
| 22 | 1/2 | 12 | 12mm |
| 133 | 7/16-24 | 14 | 14mm |
| | | 13 | 1/4 |
| **Metric** | | 17 | 3/8 |
| 00 | Same Size as Tube | 21 | 1/2 |

### D Color Code

| | |
|---|---|
| W | White |
| G | Gray |

### E Packaging

| | |
|---|---|
| P2 | Standard Packaging |

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# HOW TO ORDER
## TRUESEAL™, Fast & Tite®, and Par-Barb® Fittings

### INCHES TRUESEAL™

| A | 4 | ME | 2 | -MG |
|---|---|---|---|---|
| A | B | C | D | E |

**A — Fitting Material**

| | |
|---|---|
| A | Acetal |
| PP | Polypropylene |
| F | Kynar |

**B — Tube Size**

| | | | |
|---|---|---|---|
| 4 | 1/4 | 6 | 3/8 |
| 5 | 5/16 | 8 | 1/2 |

**C — Fitting Configuration**

| | |
|---|---|
| MC | Male Connector |
| EU | Elbow Union |
| TU | Tee Union |
| WY | "Y" Union |
| MES | Male Elbow Swivel |
| MRS | Male Run Swivel |
| MTS | Male Tee Swivel |
| UC | Union |
| CU | Cross |
| FA | Faucet Adapter |
| FC | Female Connector |
| FF | 45° Female Flare |
| TMC | Tube Stem Adapter |
| BU | Bulkhead Union |
| TEU | Tube Elbow Union |
| RD | Tube Reducer |
| CAP | Tube Cap |
| FE | Female Elbow |
| ME | Male Elbow |
| ST | Straight Thread |
| TCB | Tube-to-Barb Stem |
| TEB | Tube Elbow Barb Connector |
| TPL | Plug |

**D — Thread Size**

| | | | |
|---|---|---|---|
| 2 | 1/8 | 7 | 7/16-24 |
| 4 | 1/4 | 8 | 1/2 |
| 6 | 3/8 | 9 | 9/16-18 |

**E — Gripper Material**

| | |
|---|---|
| MG | Metal Gripper |
| Blank | Plastic Gripper |

### INCHES FAST & TITE®

| W | 4 | MC | 2 |
|---|---|---|---|
| A | B | C | D |

**A — Fitting Material**

| | |
|---|---|
| W | White Polypropylene |
| P | Black Polypropylene |
| N | White Nylon |

**B — Tube Size**

| | |
|---|---|
| 4 | 1/4 |
| 5 | 5/16 |
| 6 | 3/8 |
| 8 | 1/2 |
| 10 | 5/8 |

**C — Fitting Configuration**

| | |
|---|---|
| MC | Male Connector |
| UC | Union |
| ME | Male Elbow |
| EU | Union Elbow |
| BU | Bulkhead |
| FE | Female Elbow |
| FC | Female Connector |
| MR | Male Run Tee |
| TU | Union Tee |
| MT | Male Branch Tee |

**D — Thread Size**

| | |
|---|---|
| 2 | 1/8 |
| 4 | 1/4 |
| 6 | 3/8 |
| 8 | 1/2 |
| 12 | 3/4 |

### INCHES PAR-BARB FITTINGS®

| 325 | HB | -4 | -2 | PP |
|---|---|---|---|---|
| A | B | C | D | E |

**A — Fitting Configuration**

| | |
|---|---|
| 322 | Union |
| 364 | Union Tee |
| 365 | Union Elbow |
| 318 | Hex Plug |
| 309 | Reducer Bushing |
| 316 | Hex Nipple |
| 326 | Female Connector |
| 325 | Male Connector |
| 372 | Male Branch Tee |
| 370 | Female Elbow |
| 329 | Male Elbow |
| 362 | Union Y |
| 328 | Ball Nose Hose Barb Stem |
| 31 | Nut |
| 316 | Garden Hose Adapter |
| 325 | GH Swivel Hose Barb Stem |
| 313 | Garden Hose Cap |

**B — Fitting Type**

| | |
|---|---|
| HB | Hose Barb |
| GH | Garden Hose |
| P | Pipe |
| GHSV | Garden Hose Swivel |

**C — Tube/Hose I.D.**

| | | | |
|---|---|---|---|
| 3 | 3/16 | 10 | 5/8 |
| 4 | 1/4 | 12 | 3/4 |
| 5 | 5/16 | 16 | 1 |
| 6 | 3/8 | 20 | 1 1/4 |
| 8 | 1/2 | 24 | 1 1/2 |

**D — Thread Size**

| | | | |
|---|---|---|---|
| 2 | 1/8 | 12 | 3/4 |
| 4 | 1/4 | 16 | 1 |
| 6 | 3/8 | 20 | 1 1/4 |
| 8 | 1/2 | 24 | 1 1/2 |

**E — Fitting Material**

| | |
|---|---|
| PP | Black Polypropylene |
| N | White Nylon |



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## PRODUCT SPECS

| | Body Material | Working Pressure at 73°F (psi) (1/4 Burst Pressure) | | | | Temperature Range (°F) |
|---|---|---|---|---|---|---|
| | | 1/4" | 5/16" | 3/8" | 1/2" | |
| LIQUIfit Fractional Inch | High-Performance Nylon 11 | 230† | 230† | 190† | 160† | +35° to +200° |
| LIQUIfit Metric | High-Performance Nylon 11 | 4mm-6mm<br>230† | 8mm<br>230† | 10mm<br>190† | 12mm<br>160† | +35° to +200° |
| TrueSeal | Acetal<br>Polypropylene<br>Kynar | 300†<br>150†<br>300† | 300†<br>N/A<br>300† | 300†<br>150†<br>300† | 250†<br>150†<br>250† | -20° to +180°<br>0° to +225°<br>0° to +275° |
| Fast & Tite | Polypropylene<br>Nylon | 300†<br>300† | 300†<br>300† | 250†<br>250† | 200†<br>200† | 0° to +212°<br>-40° to +200° |
| Par-Barb | Polypropylene<br>Nylon | 125†<br>125† | 125†<br>125† | 125†<br>125† | 125†<br>125† | -65° to +190°<br>-40° to +200° |
| TrueSeal Ball Valves | Polypropylene | 150† | 150† | 150† | 150† | +35° to +200° |
| LIQUIfit Ball Valves | Polypropylene | 150† | 150† | 150† | 150† | +35° to +200° |
| Par-Barb Ball Valves | Polypropylene | 150† | NA | 150† | 150† | +35° to +200° |
| TrueSeal Check Valves | Acetal | 150† | 150† | 150† | 150† | +35° to +200° |
| Low Lead Brass | Low Lead Brass | † | † | † | † | 0° to +200° |

† Working pressure varies with application and temperature. Product specifications vary with fitting configurations.

## TUBING COMPATIBILITY

| | Copper | Polyethylene E & EB | Polyethylene PEFR | Polyethylene HDPE | Nylon N | Nylon PAT | Nylon NR | Polypropylene PP & PPB | Polyurethane U & UM (90 - 95 Shore A) | Polyurethane HU & HUM (>95 Shore A) | Clear Vinyl | PFA | FEP | PTFE | PVDF | GPH General Purpose |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LIQUIfit | | X | | | | | | | | | | | | | | |
| TrueSeal | X | X | | | X | X | X | X | X | X | X | X | X | X | X | |
| Fast & Tite | X | X | X | X | X | X | X | X | X | X | X | | | | | |
| Par-Barb | | | | | | | | | X | | X | | | | | X |

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# IN TRANSPORTATION: GLOBAL LOGISTICS AND VENDOR PARTNERSHIPS

**Connecting you to higher productivity, increased efficiencies, and improved inventory management**

## MARKET APPLICATIONS

Air Brakes | Cab Controls | Fuel System | Engine | Transmission | Cooling | Air Tanks

## PERFORMANCE EXPECTATIONS

- Compact design
- Impact resistance
- Meets DOT and SAE requirements
- Robustness
- Vibration resistance
- High reliability
- High temperature resistance
- Installation flexibility

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## FITTINGS

**Prestomatic Fittings**

Robust, all-brass push-to-connect fittings meet SAE J2494 and DOT specifications. Designed for all DOT truck and trailer applications. Reduce assembly time versus compression style fittings by 90%. Ideal for tight applications with difficult wrench clearance. Use with Parflex SAE J844 type A and B tubing.

**Transmission Fittings**

For pressure-protected pneumatic transmission applications. Offer a specially designed slotted sleeve to help eliminate notch stress related to over-torque. Electroless nickel-plated bodies work with bio-biesel. Use with SAE J844 type A nylon tubing.

**NTA Fittings**

The most economical air brake solution, meeting DOT and SAE specifications. Also excellent for diesel fuel applications. Utilize a ribbed sleeve for compression and positive grip. Electroless nickel-plated bodies work with bio-diesel.

**PTC Fittings**

Lightweight, composite push-to-connect fittings meet SAE J2494 and DOT specifications. Designed for all DOT truck and trailer applications. Reduce assembly time versus compression style fittings by 90%. Use with Parflex SAE J844 type A and B tubing.

**Vibra-Lok Fittings**

Excellent for high vibration, high heat, mechanical shock, or tube movement applications. The sleeve cushions the tubing, permitting it to flex back and forth in the fitting. Seal design compensates for tube misalignment and tube surface defects. Use with seamed or seamless metal tubing: copper, aluminum, steel (Bundy), stainless steel, and glass.

**Air Brake Hose End Fittings**

Parker's Air Brake Hose fittings are field attachable and engineered for use with Parker 271 Air Brake Hose. Easy to assemble and disassemble, the fittings utilize a slotted sleeve for compression and positive grip. They meet DOT FMVSS571.106 when used with SAE J1402 Air Brake Hose.

**PMH Fittings**

These push-to-connect hydraulic fittings are designed to speed up assembly, especially in difficult-to-reach areas such as hydraulic joystick ports. They feature excellent corrosion resistance, a compact envelope, fewer potential leak points, and light weight. When partnered with XDT Tubing from Parker's Parflex Division, Parker PMH Fittings are perfect for use with low-pressure hydraulics (<435 psi) in the industrial and mobile hydraulic markets.

## VALVES

**Truck Valves**

Brass valves with metal-to-metal seats and fine-thread screw-down for positive sealing up to the valve's capacity. Available with pipe, flare, NTA and hose barb end configurations.

**Lanyard Valve**

Compact brass valve designed for releasing condensate from air tanks. Specially formulated low temperature seal remains elastic down to -40°F.

## OTHER APPLICABLE PRODUCTS

**Prestomatic Cartridges**

SAE encapsulated cartridges guarantee the integrity of the sealing system before and after assembly in non-threaded cavities. Compact, one-piece cartridges are available in brass and nickel-plated brass. Self-centering design. Withstands pressure up to 250 psi.

**Manifolds**

Provide multiple tube junction connections in truck air applications. Brass and glass filled nylon bodies. Contact us for custom designs.

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# HOW TO ORDER
## NTA, Air Brake and Transmission

### INCHES NTA, AB, TRANSMISSION FITTINGS

| VS | 2 | 69 | NTA | -4 | -2 |
|---|---|---|---|---|---|
| A | B | C | D | E | F |

**A Thread Sealant**

| | |
|---|---|
| VS | Vibra Seal |

**D Product Series**

| | |
|---|---|
| NTA | NTA |
| AB | Air Brake |
| TF | Transmission |
| VL | Vibra-Lok |

**F Thread Size**

| | |
|---|---|
| 1 | 1/16 |
| 2 | 1/8 |
| 4 | 1/4 |
| 6 | 3/8 |
| 8 | 1/2 |
| 12 | 3/4 |

**B Body Material**

| | |
|---|---|
| 1 | Forged Brass |
| 2 | Extruded Brass |

**E Tube Size**

| | |
|---|---|
| 2 | 1/8 |
| 3 | 3/16 |
| 5/32 | 5/32 |
| 4 | 1/4 |
| 6 | 3/8 |
| 8 | 1/2 |
| 10 | 5/8 |
| 12 | 3/4 |

**C Fitting Configuration**

| | |
|---|---|
| 60 | Sleeve |
| 61 | Nut |
| 62 | Union |
| 63 | Tube Insert |
| 64 | Union Tee |
| 65 | Union Elbow |
| 66 | Female Connector |
| 68 | Male Connector |
| 69 | Male Elbow |
| 70 | Female Elbow |
| 71 | Male Run Tee |
| 72 | Male Branch Tee |
| 79 | 45° Male Elbow |

### INCHES PTC, PRESTOMATIC, PMH, VIBRA-LOK FITTINGS

| 1 | 69 | PMT | NS | -4 | -2 |
|---|---|---|---|---|---|
| A | B | C | D | E | F |

**A Body Material**

| | |
|---|---|
| 1 | Brass |
| 3 | Composite |

**C Fitting Series**

| | |
|---|---|
| PMT | Prestomatic |
| PTC | PTC Composite |
| PMH | PMH |
| VL | Vibra-Lok |

**D Fitting Description**

| | |
|---|---|
| SP | Plug-in |
| BHR | Retaining Ring Bulkhead |
| BH | Bulkhead |
| NS | Non-swivel |
| L | Long rigid |
| R | Positional |

**B Fitting Configuration**

| | |
|---|---|
| 32 | Union |
| 37 | Adapter |
| 62 | Union |
| 64 | Union Tee |
| 65 | Union Elbow |
| 66 | Female Connector |
| 68 | Male Connector |
| 69 | Male Elbow |
| 70 | Female Elbow |
| 71 | Male Run Tee |
| 72 | Male Branch Tee |
| 77 | Female Branch Tee |
| 79 | 45° Male Elbow |
| 89 | Dual Port Male Elbow |
| 685 | Male Connector Straight Thread |
| 695 | Male Elbow Straight Thread |
| 715 | Male Run Tee Straight Thread |
| 725 | Male Branch Tee Straight Thread |

**E Tube Size**

| | |
|---|---|
| 4 | 1/4 |
| 6 | 3/8 |
| 8 | 1/2 |
| 10 | 5/8 |
| 12 | 3/4 |

**F Thread Size**

| | |
|---|---|
| 2 | 1/8 |
| 4 | 1/4 |
| 6 | 3/8 |
| 8 | 1/2 |
| 12 | 3/4 |

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## PRODUCT SPECS

| | Temperature | 1/8" | 5/32" | 3/16" | 1/4" | 5/16" | 3/8" | 1/2" | 5/8" | 3/4" | 7/8" | 4mm | 6mm | 8mm | 10mm | 12mm | 16mm | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PTC | -40°F to 200°F | — | — | — | 250 | — | 250 | 250 | 250 | 250 | — | — | — | — | — | — | — | Push-to-Connect |
| Prestomatic | -40°F to 200°F | — | 250 | — | 250 | — | 250 | 250 | 250 | 250 | — | — | 250 | 250 | 250 | 250 | 250 | |
| SAE Cartridges | -40°F to 200°F | — | 250 | — | 250 | — | 250 | 250 | 250 | 250 | — | — | — | — | — | — | — | |
| Manifolds | Pressure and temperature dependent upon manifold configuration | | | | | | | | | | | | | | | | | |
| NTA | -40°F to 200°F | — | — | 150 | 150 | — | 150 | 150 | 150 | 150 | — | — | — | — | — | — | — | Compression |
| Air Brake | -65°F to 250°F | — | — | — | 400 | — | 400 | 400 | 400 | 400 | — | — | — | — | — | — | — | |
| Transmission Fittings | -40°F to 200°F | 150 | 150 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Vibra-Lok | -30°F to 275°F | — | — | 1,000 | 1,000 | 900 | 700 | 500 | 400 | — | — | — | — | — | — | — | — | |
| Air Brake Hose | -65°F to 250°F | — | — | — | — | — | 400 | 400 | — | — | — | — | — | — | — | — | — | |
| Truck Valves | -30°F to 250°F | — | — | — | — | — | 150 | 150 | 150 | 150 | — | — | — | — | — | — | — | Valve |
| Lanyard Valve | -40°F to 200°F | — | — | — | 150 | — | — | — | — | — | — | — | — | — | — | — | — | |
| Drain Cocks | -65°F to 250°F | 150 | — | — | 150 | — | 150 | — | — | — | — | — | — | — | — | — | — | |

Maximum working pressure (psi) by tube size at 73°F

## TUBING COMPATIBILITY

| | Copper | Aluminum | Steel | Nylon N | Nylon PAT | PFT Air Brake (SAE J844) Inch | Air Brake DIN 74324 (Nylon 12) | PFT Diesel Fuel | HTFL Diesel Fuel | Parker 271Hose (SAE J1402) |
|---|---|---|---|---|---|---|---|---|---|---|
| PTC | | | | | | X | | X | | |
| Prestomatic | | | | | | X | X | X | | |
| SAE Cartridges | | | | | | X | | X | | |
| NTA | | | | X | X | X | | X | X | |
| Air Brake | X | | | | | X | | | | |
| Transmission Fittings | | | | X | | | | | | |
| Vibra-Lok | X | X | X | | | | | | | |
| Air Brake Hose | | | | | | | | | | X |

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## COMPRESSION FITTINGS

**Compression Fittings**

An economical choice that works with thermoplastic, copper, and aluminum tubing. Fittings require no tube flaring, soldering, or other tube prep before assembly.

**Compress-Align® Fittings**

Pre-assembled with a captive sleeve, always oriented for a faster installation. Commonly used in pneumatic systems and plumbing applications, these fittings align to seal even out-of-round tubing.

**Brass Metric Compression**

An economical, all-brass compression fitting with numerous connection options for a wide variety of tube materials. No need for flaring, soldering, or other tube preparation before assembly.

**Poly-Tite Fittings**

Compact, pre-assembled compression style fittings designed for fast assembly. An exclusive acetal copolymer sleeve offers superior resilience to resist creeping and stress caused by compression.

**Hi-Duty Flareless Fittings**

Preassembled with the sleeve machined into the nut. During assembly the sleeve breaks away from the nut to create a seal on the tubing. Rated to a much higher pressure rating than compression fittings, Hi-Duty will work with seamless steel tubing as well as copper, brass, and thermoplastic tubing.

## FLARED FITTINGS

**45º Flared Fittings**

An economical choice for a metal-to-metal seal that resists mechanical pullout; ideal for refrigerants, natural gas, propane, fuels, and other "hard to hold" liquids and gases. Common applications include flammable liquids and gases and hydraulic brakes. Meets functional requirements of SAE J512 and SAE J513.

**Inverted Flared Fittings**

Offer similar performance to 45º flared fittings, except the metal-to-metal seal is internal to the fitting for tighter tube bends. Ideal for flammable liquids and gases and plumbing applications. These fittings are listed with UL and meet the functional requirements of SAE J512.

## BARBED FITTINGS

**Dubl-Barb® Fittings**

An economical, one-piece, push-on brass barbed fitting that does not require any type of clamp. Applications include pneumatic systems and climate control. These compact fittings are a quick way to connect polyethylene tubing.

**Hose Barb Fittings**

An economical choice for general-purpose fluid handling and pneumatics. Manufactured in both regular hose barb and beaded hose barb styles. Intended for use with 97HC hose clamps, similar type of clamps or a crimped ferrule.

## OTHER FITTINGS

**Pipe Fittings**

These all-brass fittings meet all functional requirements of SAE J530 and SAE J531. Fitting threads are made to dryseal standards. Both forged and extruded fittings are available.

**Garden Hose Fittings**

Connect garden hose to other garden hose, to pipe, or to tubing. Swivel connections allow hose to twist without kinking. All-brass construction; high flow.

**ISO Port Adapters**

Parker's ISO Port Adapters are ideal for systems with high pressure and cycling, providing reliable, long-term sealing. Since a fluorocarbon O-ring is standard, no thread sealant is needed. This helps reduce maintenance and component replacement costs caused by contamination and damage from sealants. Our ISO port adapters meet dimensional requirements of ISO 6149-3 and SAE 2244-3.

**Metric Adapters**

A comprehensive range of forged and extruded brass and nickel-plated adapters for NPT, BSPT, BSPP and metric pipe threads. Robust design is reusable.

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## VALVES

**Axial Valves**
Incorporate both the valve and actuation function. With pneumatic or electro-pneumatic control, these valves avoid many of the restrictions associated with traditional actuators.

**Access Valves**
Designed to offer convenient, low cost access ports for refrigeration service. Access valves may be installed in any position on either the high or low side for quick testing, pressure checking, purging, or charging.

**Ball Valves**
Available in brass, stainless steel, carbon steel and polypropylene in sizes from 1/8" to 3". Includes 90º valves, straight thread O-ring valves, solder ends, panel mount valves, 3-way and 4-way valves, miniature and micro valves. Options include tee, oval, padlocking wedge and lever handles, actuators, and stainless steel componentry.

**Ground Plug Shutoff Valves**
Manufactured with cast or forged bodies for extra strength. Hand tightening provides a metal-to-metal seal. Available with pipe, flare and compression ends.

## ACCESSORIES

**Blow Guns and Nozzles**
Wide range of assorted controlled pressure and full pressure blow guns with both thumb and pistol grip actuation. Vented nozzles in assorted styles and lengths prevent pressure buildup when dead ending occurs up to 150 psi.

**Silencers**
Bronze, polyethylene, and stainless steel silencers are available in threaded, miniature, plug-in, and flow control styles in a range of working pressures and temperatures.

**Tubing**
Polyethylene, flexible nylon or kink-resistant polyurethane in assorted colors and durometers; FEP or grooved stainless steel or copper.

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# HOW TO ORDER

## Compression, Compress-Align®, Poly-Tite, Hi-Duty, 45° Flared, Inverted Flared, and Hose Barb Fittings

### INCHES

| VS | 1 | 69 | CA | BH | -4 | -2 |
|---|---|---|---|---|---|---|
| A | B | C | D | E | F | G |

**A Prefix**

| | |
|---|---|
| VS | Vibra Seal |
| W | White Acrylic |
| NI | Nickel Plating |
| ENI | Electroless Nickel Plating |
| OX | Oxygen Cleaned |

**B Body Material**

| | |
|---|---|
| 1 | Metal Forging |
| 2 | Metal Extrusion |
| 3 | Composite |

**C Fitting Configuration**

| | |
|---|---|
| 60 | Sleeve |
| 61/41 | Nut/Nut & Sleeve |
| 62/42 | Union |
| 66/46 | Female Connector |
| 68/48 | Male Connector |
| 64/44 | Union Tee |
| 65/55 | Union Elbow |
| 69/49 | Male Elbow |
| 70/50 | Female Elbow |
| 71/51 | Male Run Tee |
| 72/45 | Male Branch Tee |
| 76/56 | Adapter Tee |
| 77 | Female Branch Tee |
| 79/59 | 45° Elbow |
| 639 | Plug |

**D Fitting Series**

| | |
|---|---|
| C | Compression |
| CA | Compress-Align |
| P | Poly-Tite |
| HD | Hi-Duty |
| F | 45° Flare |
| IF | Inverted Flare |
| HB | Hose Barb |

**E Suffix**

| | |
|---|---|
| BH | Bulkhead |
| NS | Non-swivel |
| S | Swivel |
| SS | Stainless Steel |

**F Tube Size**

| Inches | |
|---|---|
| -2 | 1/8 |
| -3 | 3/16 |
| -4 | 1/4 |
| -5 | 5/16 |
| -6 | 3/8 |
| -7 | 7/16 |
| -8 | 1/2 |
| -10 | 5/8 |
| -12 | 3/4 |
| -14 | 7/8 |
| -16 | 1 |

**G Thread Size**

| Inches | |
|---|---|
| -1 | 1/16 |
| -2 | 1/8 |
| -4 | 1/4 |
| -6 | 3/8 |
| -8 | 1/2 |
| -12 | 3/4 |

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## PRODUCT SPECS

### Compression, Compress-Align®, Poly-Tite, Hi-Duty, 45º Flared, Inverted Flared, and Hose Barb Fittings

| | Temperature | 1/8" | 5/32" | 3/16" | 1/4" | 5/16" | 3/8" | 1/2" | 5/8" | 3/4" | 7/8" | 1" | Metric (millimeter) 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compress-Align* | -65°F to 250°F | 2,800 | — | 1,900 | 1,400 | 1,200 | 1,000 | 750 | 650 | 550 | 450 | — | — | — | — | — | — | — | — | — | — | — | Compression |
| Compression | -65°F to 250°F | 400 | — | 400 | 300 | 300 | 200 | 200 | 150 | 100 | 75 | 350 | 3,335 | 2,175 | 1,450 | 1,087 | 797 | 652 | 580 | 536 | 507 | 435 | |
| Poly-Tite | 0°F to 150°F | 150 | — | 150 | 150 | 150 | 150 | 150 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Hi-Duty | -65°F to 250°F | 4,300 | — | 2,850 | 2,100 | 1,800 | 1,500 | 1,150 | 1,000 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| 45 Degree Flare | -65°F to 250°F | 2,800 | — | 1,900 | 1,400 | 1,200 | 1,000 | 750 | 650 | 550 | 450 | — | — | — | — | — | — | — | — | — | — | — | Flare |
| Inverted Flare | -65°F to 250°F | 2,800 | — | 1,900 | 1,400 | 1,200 | 1,000 | 750 | 650 | 550 | — | — | — | — | — | — | — | — | — | — | — | — | |
| Access Valves | -20°F to 220°F | 500 | — | 500 | 500 | 500 | 500 | 500 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Dubl-Barb | -65°F to 90°F | — | 150 | — | 150 | — | 150 | 100 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | Barb |
| Hose Barb[1] | -40°F to 160°F | — | — | 150 | 150 | 150 | 150 | 150 | 150 | 150 | — | — | — | — | — | — | — | — | — | — | — | — | |
| Pipe | -65°F to 250°F | 1,000 | — | — | 1,000 | — | 1,000 | 1,000 | — | 1,000 | — | — | — | — | — | — | — | — | — | — | — | — | Adapter |
| Garden Hose[1] | 35°F to 100°F | — | — | 150 | 150 | — | 150 | 150 | 150 | 150 | — | — | — | — | — | — | — | — | — | — | — | — | |
| Metric Adapters | -65°F to 250°F | 1,000 | — | — | 1,000 | — | 1,000 | 1,000 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Ground Plug Shutoff | 32°F to 125°F | 30 | — | — | 30 | — | 30 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | Valve |

Maximum working pressure (psi) by tube size at 73°F

* Up to 1" tube size ** Up to 22 mm tube size [1] Hose size based on I.D.

## PRODUCT SPECS

### Industrial Ball Valves

| | Type | Body Material | Temperature MIN. | Temperature MAX. | Maximum Pressure PSI | Maximum Pressure BAR |
|---|---|---|---|---|---|---|
| 500 Series | Female/Female | Brass | 0˚F (-18˚C) | 350˚F (176˚C) | 600 | 41 |
| 501 Series | Female/Male | Brass | 0˚F (-18˚C) | 350˚F (176˚C) | 600 | 41 |
| 502 Series | Panel Mounted | Brass | 0˚F (-18˚C) | 350˚F (176˚C) | 600 | 41 |
| 506 Series | Straight Thread | Brass | 0˚F (-18˚C) | 350˚F (176˚C) | 600 | 41 |
| 509 Series | Solder Ends | Brass | — | — | — | — |
| 510 Series | Male/Female Straight Thread | Brass | 0˚F (-18˚C) | 350˚F (176˚C) | 600 | 41 |
| 520 Series | Female/Female | Brass | 0˚F (-18˚C) | 350˚F (176˚C) | 600 | 41 |
| 533 Series | 3-Way Diversion | Brass | -20˚F (-29˚C) | 350˚F (176˚C) | 400 | 27 |
| 540 Series | 4-Way | Brass | -20˚F (-29˚C) | 350˚F (176˚C) | 400 | 27 |
| 590/591 Series | Right Angle | Brass | -50˚F (-45˚C) | 350˚F (176˚C) | 250 | 17 |
| 500HB Series | Hose Barb | Brass | 0˚F (-18˚C) | 350˚F (176˚C) | 150 | 10 |
| 600 Series | Six Port Diversion | Brass | 0˚F (-18˚C) | 250˚F (121˚C) | 150 | 10 |
| 500CS/502CS Series | Female/Female | Carbon Steel | -20˚F (-29˚C) | 425˚F (218˚C) | 2,000 (1/4 - 1)<br>1,500 (1 1/4 - 2) | 137 (1/4 - 1)<br>103 (1 1/4 - 2) |



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## PRODUCT SPECS CONT.

### Industrial Ball Valves (continued)

| | Type | Body Material | Temperature | | Maximum Pressure | |
|---|---|---|---|---|---|---|
| | | | MIN. | MAX. | PSI | BAR |
| 506CS Series | Straight Thread | Carbon Steel | -20˚F (-29˚C) | 425˚F (218˚C) | 3,000 | 206 |
| 500HP/506HP Series | High Pressure | Carbon Steel | -10˚F (-23˚C) | 210˚F (99˚C) | 6,000 | 413 |
| 501SS | Male/Female | Stainless Steel | 0˚F (-18˚C) | 400˚F (204˚C) | 2,000 | 137 |
| 502SS | Female/Female | Stainless Steel | 0˚F (-18˚C) | 400˚F (204˚C) | 2,000 (1/4 - 1)<br>1,500 (1 1/4 - 2) | 137 (1/4 - 1)<br>103 (1 1/4 - 2) |
| 708 Series | Male/Female | Brass | -35˚F (-37˚C) | 300˚F (148˚C) | 500 | 34 |
| 709 Series | Female/Female | Brass | -35˚F (-37˚C) | 300˚F (148˚C) | 500 | 34 |
| 200 Series | Female/Female | Chrome Plated Brass | 0˚F (-18˚C) | 200˚F (93˚C) | 200 | 13 |
| 608 Series | Male/Female | Brass | 0˚F (-18˚C) | 200˚F (93˚C) | 450 | 31 |
| 609 Series | Female/Female | Brass | 0˚F (-18˚C) | 200˚F (93˚C) | 450 | 31 |

### Plug Valves

| | Type | Body Material | Temperature | | Maximum Pressure | |
|---|---|---|---|---|---|---|
| | | | MIN. | MAX. | PSI | BAR |
| 607 Series | Male/Male | Brass | -40˚F (-40˚C) | 175˚F (79˚C) | 250 | 17 |
| 608 Series | Male/Female | Brass | -40˚F (-40˚C) | 175˚F (79˚C) | 250 | 17 |
| 609 Series | Female/Female | Brass | -40˚F (-40˚C) | 175˚F (79˚C) | 250 | 17 |

## TUBING COMPATIBILITY

| | Copper | Aluminum | Steel | Polyethylene E & EB | Polyethylene PERF | Polyethylene HPDE | Nylon N | Nylon PAT | Nylon NR | Polyethylene PP & PPB | Clear Vinyl | PFA | FEP | PTFE | PVDF | GPH General Purpose |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compress-Align | X | X | | X | X | X | X | X | X | X | | X | X | X | X | |
| Compression | X | X | | X | X | X | X | X | X | X | | X | X | X | X | |
| Poly-Tite | X | | | X | | | X | | | X | X | | | | | |
| Hi-Duty | X | X | X | X | X | X | X | X | X | X | | | | | | |
| 45 Degree Flare | X | X | X | | | | | | | | | | | | | |
| Inverted Flare | X | X | X | | | | | | | | | | | | | |
| Dubl-Barb | | | | X | X | | | | | | | | | | | |
| Hose Barb | | | | | | | | | | | X | | | | | X |
| Garden Hose | | | | | | | | | | | X | | | | | X |



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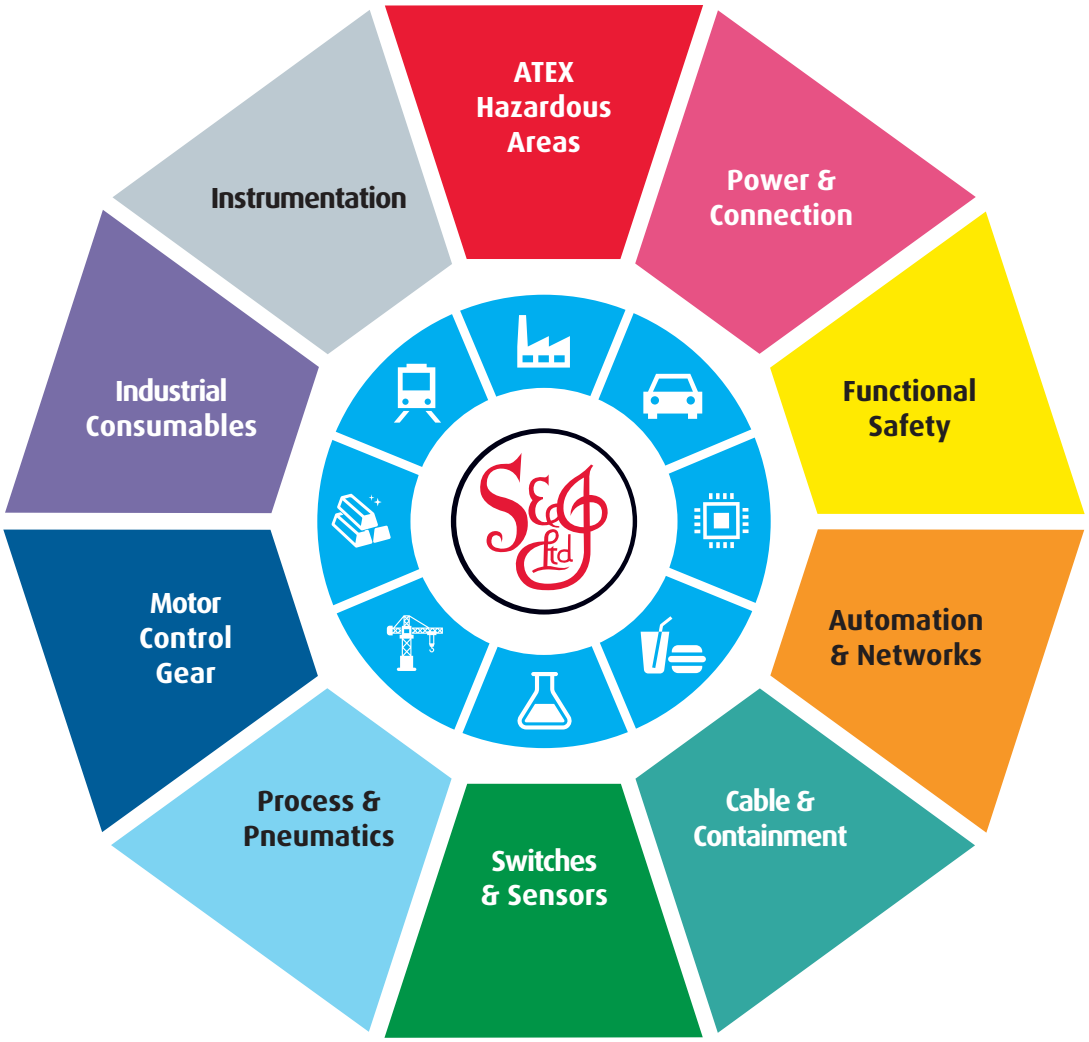


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