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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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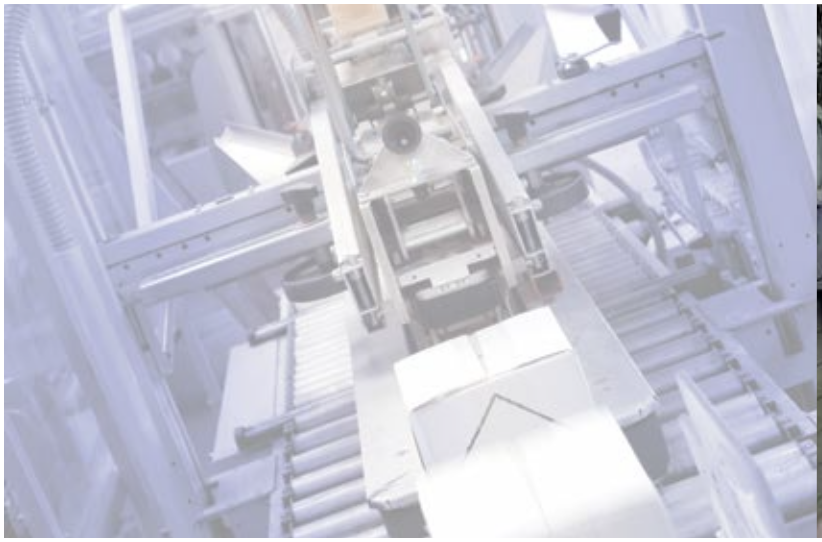
PRODUCT SPECS

	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 230†	8mm 230†	10mm 190†	12mm 160†	+35° to +200°
TrueSeal	Acetal Polypropylene Kynar	300† 150† 300†	300† N/A 300†	300† 150† 300†	250† 150† 250†	-20° to +180° 0° to +225° 0° to +275°
Fast & Tite	Polypropylene Nylon	300† 300†	300† 300†	250† 250†	200† 200†	0° to +212° -40° to +200°
Par-Barb	Polypropylene Nylon	125† 125†	125† 125†	125† 125†	125† 125†	-65° to +190° -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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Connecting you to higher productivity, increased efficiency, and faster assembly

MARKET APPLICATIONS

Processing | Transferring | Cooling | Measuring | Pneumatic Circuits

PERFORMANCE EXPECTATIONS

- Quality traceability
- High chemical resistance
- Robust design
- Excellent chemical compatibility
- Wide temperature range

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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) 1,500 (1 1/4 - 2)	137 (1/4 - 1) 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) 1,500 (1 1/4 - 2)	137 (1/4 - 1) 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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Available in a wide variety of sizes and materials including rubber, wire-reinforced, thermoplastic, hybrid and custom compounds.

Worldwide Availability:
Parker operates Fluid Connectors manufacturing locations and sales offices throughout North America, South America, Europe and Asia-Pacific.

For information, call toll free...

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North American Divisions

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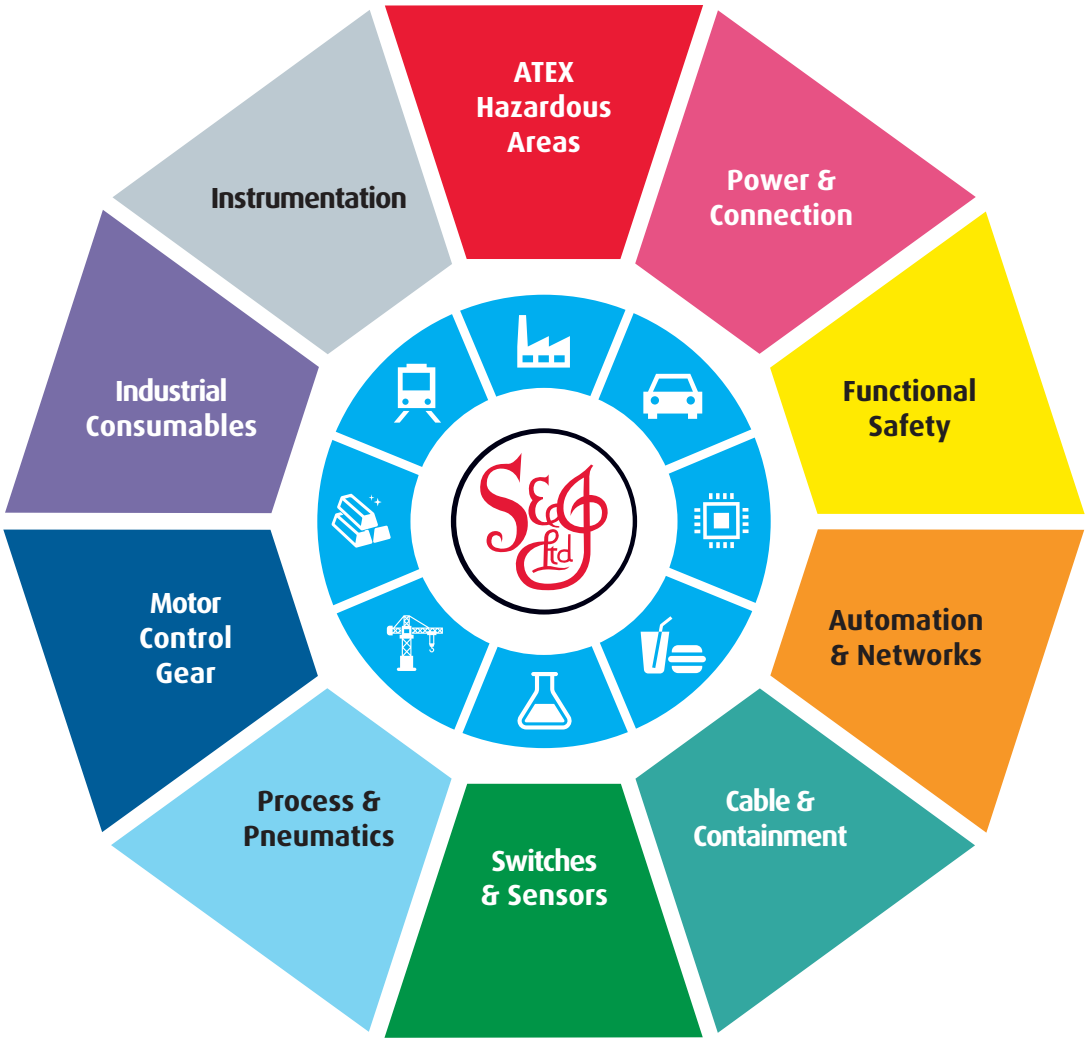

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