

Fluid System Connectors

Quick reference guide

Bulletin 3500-QRG





MARKET APPLICATIONS

Processing | Transferring | Pneumatic Circuits | Cooling | Measuring

PERFORMANCE EXPECTATIONS

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





FITTINGS

Prestolok® PLP Metal Fittings

Compact pushto-connect nickel-plated brass fittings with excellent corrosion resistance. Nitrile seal; stainless steel grab ring. Compatible with a wide array of tubing.

Prestolok® PLM Metal Fittings High phosphorous,

FKM seal

FDA-compliant, chemical-resistant, nickel-plated collet and body push-to-connect fittings. Corrosion- and abrasion-resistant.

Prestolok® PLP Composite Fittings

Glass-reinforced nylon 6.6 pushto-connect fittings provide high corrosion and chemical resistance. Nitrile seal; stainless steel grab ring.

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.

OTHER APPLICABLE PRODUCTS

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



Slow Start Valve

damage in the event of a pressure loss.



FLOW CONTROLS

Compact Flow Control

Excellent flow. Small size for reduced spaces.



For very small-sized pneumatic applications.



Allows a vertical or angled tube exit where access is tight.



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.



Threshold Sensor

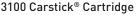
Detects pressure absence and converts it to a highpressure pneumatic output.



Flexible nylon or kinkresistant 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.



Available in brass or nickelplated brass.

PLMC Cartridge

Available in brass or nickelplated brass.

PLSC Cartridge

Available in metric sizing.





of supply pressure after system has been vented. Pneumatic Slide Valve

Controls the introduction

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.













$\begin{array}{l} \textbf{HOW TO ORDER} \\ \textbf{PRESTOLOK}^{\text{@}} \ \textbf{PLM, PLS, PLP Metal, and PLP Composite Fittings} \end{array}$

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

PLP 69 BJ

G D E

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

3 PLP 69 Χ R G D E G

A	Thread Sealant	D	Fitting Series	F	Tube S	ize	
W VS Blank 1 3	White Acrylic Vibra Seal No Sealant Body Material Metal Forging Composite	PLP PLM PLS	Prestolok Plus & Prestolok Composite Prestolok All Metal Prestolok Stainless Steel	Inche 2 3 5/32 4 5 6 8	1/8 3/16 5/32 1/4 5/16 3/8 1/2	Metri 4M 6M 8M 10M 12M 14M	4mm 6mm 8mm 10mr 12mr 14mr
C	Fitting Configuration	E	Fitting Description	G	Threa	d Size	
62 66 70 64 65 69 71 72 47 79 22	Union Y Female Connector Male Connector Female Elbow Union Tee Union Elbow Male Elbow Male Run Tee Male Branch Tee Cross 45° Elbow Barbed Connector	X SP PD BJ TJ DJ BH DSP RC DRC BHP	Extended Male Elbow Standpipe Double Y Banjo Twin Banjo Double Banjo Bulkhead Union Plug-in Multiple Y Rail Connector Double Rail Connector Plug-in Bulkhead	Inche 0 1 2 4 6 8	10-32 1/16 1/8 1/4 3/8 1/2	Metri 2 4 6 8 M3 M5 M7 M10 M12	1/8 1/4 3/8 1/2 M3X0 M5X0 M7X1 M10X M12X
32	Union			H	Threa	d Type	
24 67 639	Multiple Tee Tube Reducer Plug	and the second		Metri R G	c BSPT BSPP		

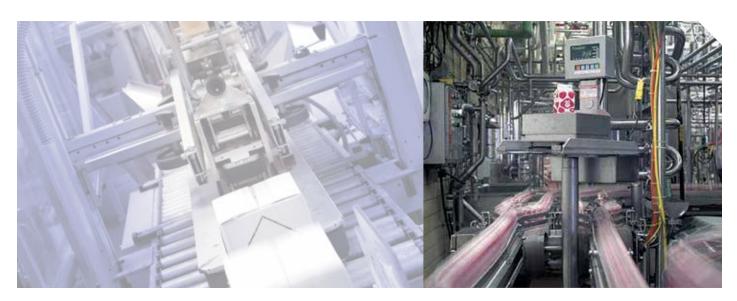
FACTORY / PROCESS AUTOMATION

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	Туре
Prestolok Brass	0°F to 200°F	300	300	300	300	300	300	300	_	_	_	300	300	300	300	300	300	
Prestolok Composite	-4°F to 175°F	290	290	260	290	290	290	290	_	_	_	290	290	290	290	290	290	Push-to-
Prestolok PLM	-4°F to 250°F	_	290	_	290	290	290	290	_	_	_	290	290	290	290	290	290	Connect
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

	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	Х	Χ	Χ	Χ	Χ	Χ	Χ		
Prestolok Composite	Х			Х	Χ		Х		Χ
Prestolok PLM	Х			Х	Х		Х	X	X
Prestolok PLS	Х			Х	Х		Х	X	Х
Flow Controls	Х			Х	Х		Х		Х











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

Fast & Tite® Fittings

A compression style

fitting that installs

in seconds without

tools and provides

An "eco-designed," innovative alternative; no fluid contamination occurs and environmental protection is quaranteed. 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

product flavor.

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



a tight, sure, leakproof 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.



WATER, FOOD AND BEVERAGE

TrueSeal™ Cartridges

LIQUIfit™ Cartridges

Guarantees the integrity of the sealing system before

and after assembly in non-

Allow you to machine or mold

eliminating the need for threaded

connections. Reduces material and assembly costs as well as potential

leak paths. Withstands pressure up to

threaded cavities. Compact, one-piece

cartridges are available in brass and

nickel-plated brass. Self-centering design. Withstands pressure up to

a tube connection into your

equipment or components,

OTHER APPLICABLE PRODUCTS

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.

6

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.



hack 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.

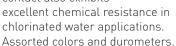


Tubing

230 psi.

150 psi.

Polyethylene for food contact and potable water applications. Kink-resistant polyurethane for food contact also exhibits





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.



HOW TO ORDER LIQUIFIT™ Fittings

6307

6351

6521

6509

6508

Cross

End Stop Stem Adapter

Swivel Elbow

Swivel Branch Tee

INCHES LIQUIFIT™

6505 56 11 W P2









METRIC LIQUIFIT™

6509 06 13 W P2

Fitting Configuration	n			
Male Connector	6382	Plua-	in Elbow	
Female Connector	6383		in Run Tee	
Union Connector	6326	Plug		
Union Tee	6322	Stem	to Hose Barb	
Bulkhead Union	6503 Swivel Run Tee			
Fixed Elbow	6548	Swive	l Y Connector	
Faucet Connector	6380	Plug-	in 45° Elbow	
Union Elbow				
Union Y Connector	В	Tube/	Stem Size	
Reducer	Inches		Metric	
Plug-in Tee	11	1/2	0/ /mr	
	Male Connector Female Connector Union Connector Union Tee Bulkhead Union Fixed Elbow Faucet Connector Union Elbow Union Y Connector Reducer	Female Connector Union Connector Union Tee Bulkhead Union Fixed Elbow Faucet Connector Union Elbow Union Y Connector Reducer Plug-in Tee 6383 6326 6322 6503 6548 6380 B Inches	Male Connector Female Connector Union Connector Union Tee Bulkhead Union Fixed Elbow Faucet Connector Union Y Connector Reducer Plug-in Tee 6382 Plug- 6326 Plug 6322 Stem 6503 Swive 6548 Swive 6380 Plug- Inches	

В	Tube/	Stem S	ize
Inch	es	Metr	ic
11	1/8	04	4mm
56	1/4	06	6mm
80	5/16	08	8mm
60	3/8	10	10mm
62	1/2	12	12mm
		I	

Thread or Tube O.D.

Inche	S	Metr	ic Cont.
00	Same Size as Tube	04	4mm
11	1/8	06	6mm
14	1/4	80	8mm
18	3/8	10	1/8
22	1/2	12	12mm
133	7/16-24	14	14mm
		13	1/4
Metri	С	17	3/8
00	Same Size as Tube	21	1/2

D	Color Code	E	Packaging
W G	White Gray	P2	Standard Packaging



HOW TO ORDER

TRUESEAL™, Fast & Tite®, and Par-Barb® Fittings

INCHES TRUESEAL™

Α	4	ME	2	-MG
A	В	C	D	E

A	Fitting	Materi	al		
A PP F	Acetal Polypro Kynar	opylene	<u>)</u>		
В	Tube S	ize			
4 5	1/4 5/16	6 8	3/8 1/2		
C	Fitting	Config	uration		
MC EU	Male Connector Elbow Union				

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

D	Threa	d 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 Grinner

INCHES FAST & TITE®

W	4	MC	2
A	В	C	D

A	Fitting Material
W	White Polypropylene
P	Black Polypropylene
N	White Nylon

В	Tube Size
4	1/4
5	5/16
6	3/8
8	1/2
10	5/8

Fitting Configuration MC Male Connector UC Union ME Male Elbow EU Union Elbow BU Bulkhead FΕ Female Elbow FC Female Connector Male Run Tee MR TU Union Tee MΤ Male Branch Tee

D	Thread Size
2	1/8
4 6	1/4 3/8
8	1/2
12	3/4



INCHES PAR-BARB FITTINGS®

325	HB	-4	-2	PP
A	В	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

В	Fitting Type
HB GH P GHSV	Hose Barb Garden Hose Pipe Garden Hose Swivel

C	Tube/F	lose 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	Threa	d Size	
2 4 6 8	1/8 1/4 3/8 1/2	12 16 20 24	3/4 1 1 1/4 1 1/2

E	Fitting Material
PP	Black Polypropylene
N	White Nylon

PRODUCT SPECS	De de Material	Working Pr	essure at 73°F	T D (05)		
	Body Material	1/4"	5/16"	3/8"	1/2"	Temperature Range (°F)
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.

		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		Χ														
	TrueSeal	Х	X			Χ	Χ	Χ	X	Χ	Χ	Χ	Χ	Χ	Χ	Χ	
F	ast & Tite	Х	Х	Х	Х	Χ	Χ	Χ	X	X	Х	Χ					
	Par-Barb									X		Χ					X







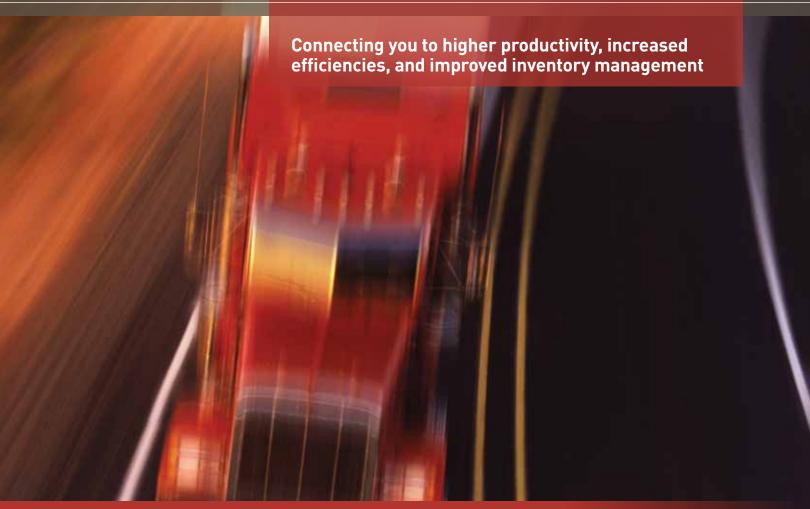








IN TRANSPORTATION: GLOBAL LOGISTICS AND VENDOR PARTNERSHIPS



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





TRANSPORTATION

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 overtorque. 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
applications Reduce

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-toconnect hydraulic fittings are designed to speed up assembly, especially in difficultto-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.







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	В	Body Mater	rial	C	Fitting Configuration
VS	Vibra Seal	1 2	Forged Bra Extruded B		60 61 62	Sleeve Nut Union
D	Product Series	E	Tube Size		63	Tube Insert
NTA AB TF VL	NTA Air Brake Transmission Vibra-Lok	2 3 5/32 4 6	1/8 3/16 5/32 1/4 3/8		64 65 66 68 69	Union Tee Union Elbow Female Connector Male Connector Male Elbow
F	Thread Size	8	1/2		70 71	Female Elbow Male Run Tee
1 2 4 6 8 12	1/16 1/8 1/4 3/8 1/2 3/4	10 12	5/8 3/4		71 72 79	Male Run Tee Male Branch Tee 45° Male Elbow

INCHES PTC, PRESTOMATIC, PMH, VIBRA-LOK FITTINGS

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

1 3	Body Material Brass Composite	32 37 62	Fitting Configuration Union Adapter Union	77 79 89	Female Branch Tee 45° Male Elbow Dual Port Male Elbow
C	Fitting Series	64	Union Tee	685	Male Connector Straight
PMT PTC PMH VL	Prestomatic PTC Composite PMH Vibra-Lok Fitting Description	65 66 68 69 70 71 72	Union Elbow Female Connector Male Connector Male Elbow Female Elbow Male Run Tee Male Branch Tee	695 715 725	Thread Male Elbow Straight Thread Male Run Tee Straight Thread Male Branch Tee Straight Thread
SP	Plug-in		Tube Size	F	Thread Size
BHR BH NS L R	Retaining Ring Bulkhead Bulkhead Non-swivel Long rigid Positional	4 6 8 10 12	1/4 3/8 1/2 5/8 3/4	2 4 6 8 12	1/8 1/4 3/8 1/2 3/4

TRANSPORTATION

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	Туре
PTC	-40°F to 200°F	_	_	_	250	_	250	250	250	250	_	_	_	_	_	_	_	
Prestomatic	-40°F to 200°F	_	250	_	250	_	250	250	250	250	_	-	250	250	250	250	250	Push-to-
SAE Cartridges	-40°F to 200°F	_	250	_	250	_	250	250	250	250	_	_	_	_	_	_	_	Connect
Manifolds	Pressure and temperature dependent upon manifold configuration																	
NTA	-40°F to 200°F	_	_	150	150	_	150	150	150	150	_	_	_	_	_	_	_	
Air Brake	-65°F to 250°F	_	_	_	400	_	400	400	400	400	_	_	_	_	_	_	_	
Transmission Fittings	-40°F to 200°F	150	150	-	_	_	_	-	-	-	-	-	-	-	_	_	_	Compression
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	-	-	_	-	_	_	_	
Lanyard Valve	-40°F to 200°F	_	_	_	150	_	_	-	_	-	-	-	-	-	_	_	_	Valve
Drain Cocks	-65°F to 250°F	150	_	-	150	_	150	_	_	_	_	_	_	_	_	_	-	

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

	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		Х		
Prestomatic						Χ	Χ	Χ		
SAE Cartridges						Χ		Χ		
NTA				Χ	Χ	Χ		Χ	Χ	
Air Brake	Х					Χ				
Transmission Fittings				Χ						
Vibra-Lok	Х	Χ	Χ							
Air Brake Hose										Χ





MARKET APPLICATIONS

Processing | Transferring | Cooling | Measuring | Pneumatic Circuits

PERFORMANCE EXPECTATIONS

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





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, preassembled 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

45° Flared Fittings

An economical choice for a metalto-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 45° flared fittings, except the metalto-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, pushon 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 generalpurpose 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. Allbrass 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.





VALVES

Axial Valves

Incorporate both the valve and actuation function. With pneumatic or electropneumatic 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 90° 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-tometal 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.



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.







INDUSTRIAL

HOW TO ORDER

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

INCHES

VS	1	69	CA	ВН	-4	-2
A	B	C	D	E	F	G

A	Prefix	D	Fitting Series	F Tube Size
VS W NI ENI	Vibra Seal White Acrylic Nickel Plating Electroless Nickel Plating Oxygen Cleaned	C CA P HD F IF HB	Compression Compress-Align Poly-Tite Hi-Duty 45° Flare Inverted Flare Hose Barb	Inches -2 1/8 -3 3/16 -4 1/4 -5 5/16 -6 3/8 -7 7/16 -8 1/2
В	Body Material			-10 5/8
1 2 3	Metal Forging Metal Extrusion Composite			-12 3/4 -14 7/8 -16 1
C	Fitting Configuration	E	Suffix	G Thread Size
60 61/41 62/42 66/46 68/48 64/44 65/55 69/49 70/50 71/51 72/45 76/56 77 79/59 639	Sleeve Nut/Nut & Sleeve Union Female Connector Male Connector Union Tee Union Elbow Male Elbow Female Elbow Male Run Tee Male Branch Tee Adapter Tee Female Branch Tee 45° Elbow Plug	BH NS S SS	Bulkhead Non-swivel Swivel Stainless Steel	Inches -1 1/16 -2 1/8 -4 1/4 -6 3/8 -8 1/2 -12 3/4



PRODUCT SPECS

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

	T	1 /0"	E /22"	0/1/"	1//"	E/4/"	2/0"	1 /0"	E/0"	2//"	7/0"	4"			N	1etric (milli	mete	r)				Tomas
	Temperature	1/8	5/32	3/16	1/4	5/16	3/8	1/2"	5/8"	3/4"	//8	1	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	-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		0
Poly-Tite	0°F to 150°F	150	_	150	150	150	150	150	_	_	_	-	_	_	_	_	_	_	_	_	_	_	Compression
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	_	_	_	_	_	_	_	_	_	_	_	
Inverted Flare	-65°F to 250°F	2,800	_	1,900	1,400	1,200	1,000	750	650	550	_	_	_	_	_	_	_	_	_	_	_	_	Flare
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	_	-	_	_	-	-	-	-	-	_	_	-	DdID
Pipe	-65°F to 250°F	1,000	_	_	1,000	_	1,000	1,000	_	1,000	_	_	_	_	_	_	_	_	_	_	_	_	
Garden Hose ¹	35°F to 100°F	_	_	150	150	_	150	150	150	150	_	-	_	_	_	_	_	_	_	_	_	_	Adapter
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

PRODUCT SPECS

Industrial Ball Valves

	Type	Pody Material	Tempe	erature	Maximum	Pressure
	Type	Body Material	MIN.	MAX.	PSI	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)

INDUSTRIAL

PRODUCT SPECS CONT.

Industrial Ball Valves (continued)

	Type	Body Material	Tempe	rature	Maximum Pressure			
	Type	Bouy Material	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	Tempe	rature	Maximum Pressure			
	Туре	Douy Material	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		

	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	Х	Χ		Х	X	Х	Χ	Χ	Χ	Х		Χ	Χ	Χ	Χ	
Compression	Х	Χ		Χ	Χ	Χ	Χ	Χ	Χ	X		Χ	Χ	Χ	Χ	
Poly-Tite	Х			X			Χ			X	Χ					
Hi-Duty	Х	Χ	Χ	X	Х	Χ	Χ	Χ	Χ	X						
45 Degree Flare	Х	Χ	Χ													
Inverted Flare	Х	Χ	Χ													
Dubl-Barb				X	Χ											
Hose Barb											Х					Х
Garden Hose											Χ					Х

Parker Fluid Connectors Group North American Divisions & Distribution Service Centers

Your complete source for quality tube fittings, hose & hose fittings, brass & composite fittings, quick-disconnect couplings, valves and assembly tools, locally available from a worldwide network of authorized distributors.

Fittings:

Available in inch and metric sizes covering SAE, BSP, DIN, GAZ, JIS and ISO thread configurations, manufactured from steel, stainless steel, brass, aluminum, nylon and thermoplastic.

Hose, Tubing and Bundles:

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...



Parker Legris Push-in Fittings快插式接头

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