



# FLUID SYSTEM CONNECTORS

Quick Reference Guide  
3500FSC-QRG | July 2024



## 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 | Robotic Welding

### PERFORMANCE EXPECTATIONS

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



#### WARNING

This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## Fittings

### 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.



### PLP Composite Fittings

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



### PLM Metal Fittings

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



### 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.



## Valves

### Check Valve

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



### Pneumatic Slide Valve

Affects an immediate isolation of the air line by venting the system to atmosphere.



### Stainless Steel Check Valve

Provides unidirectional flow. Ideally suited for harsh environments as well as conveying industrial fluids.



### Exhaust Valve

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



### 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.



### Threshold Sensor

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



### Blocking Valve

Prevents equipment damage in the event of a pressure loss.



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## 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, weld resistant, 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

### Tubing

Flexible Nylon, Polyurethane, Weld Resistant in assorted colors and durometers.



### 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.



### 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 electroless nickel-plated brass.



### PLSC Cartridge

Available in 316L Stainless Steel.



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# How to Order

## PLM, PLS, PLP Metal, and PLP Composite Fittings

### Fractional Inch

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

### Metric

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

#### **A** Thread Sealant

W White Acrylic  
 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 Composite & Metal  
 PLM All Metal  
 PLS 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**  
 NPT  
 R BSPT  
 G BSPP



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## Product Specifications

Product Line	Temperature	Tube Sizes/PSI													
		1/8"	5/32"	3/16"	1/4"	5/16"	3/8"	1/2"	4mm	6mm	8mm	10mm	12mm	14mm	16mm
PLP Composite	-4° to 175° F	290	290	260	290	290	290	290	290	290	290	290	290	290	290
PLP Metal	0° to 200° F	300	300	300	300	300	300	300	300	300	300	300	300		
PLM	-13° to 302° F		435		435		435	435	435	435	435	435	435	435	
PLS	-13° to 302° F		435	435	435	435	435	435	435	435	435	435	435		
90° Flow Control	32° to 158° F	145	145		145	145	145	145	145	145	145	145	145	145	
Swivel Flow Control	32° to 158° F		145		145		145		145	145	145	145	145		
In-Line Flow Control	32° to 158° F		145		145	145	145	145	145	145	145	145	145		
Plug-In Flow Control	32° to 158° F	145	145		145				145	145	145	145	145		

Available

## Tubing compatibility

Product Line	Soft Metal Tubing		Thermoplastic Tubing			
	Copper	Stainless Steel	Polyethylene	Nylon	95 Shore A Polyurethane	FEP Fluoropolymer
PLP Composite					TS	
PLP Metal						
PLM	G	G				
PLS	G	G				
90° Flow Control					TS	
Swivel Flow Control					TS	
In-Line Flow Control					TS	
Plug-In Flow Control					TS	

Compatible G Tubing must be Grooved TS Tube Support Needed

## Flow Control Specifications

Product	Material			Size		Type of Adjustment		Types of Threads				
	Nylon	Brass	Stainless	Compact	Miniature	External	Knobless	NPT	UNF	BSPT	BSPP	Metric
90° Flow Control												
Swivel Flow Control												
In-Line Flow Control												
Plug-In Flow Control												

Available



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## IN WATER 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/ANSI/CAN 61 & NSF/ANSI-51 requirements for potable water contact
- Excellent chemical resistance
- Wide range of fluid compatibility
- Mechanical resistance
- Installation flexibility



Certified to NSF/ANSI 61

COMPONENT



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## 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.



### 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.



### TrueSeal™ Thermoplastic Fittings

Lightweight, field attachable, push-to-connect fittings manufactured from FDA compliant materials. Available in acetyl, polypropylene, and black 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.



### 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.



## 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.



### Fast & Tite™ Ball Valves

This range of ball valves uses compression technology to create a sure and tight connection. Use Parker's Fast and Tite fittings for low pressure applications such as water filtration, beverage dispensing, or on vacuum lines. Manufactured from black polypropylene material, these valves meet FDA and NSF-51 requirements for food contact.



### 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.



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## 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.



### 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.



### 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.



## How to Order

### LIQUIFIT™ Fittings

#### Fractional Inch

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

#### Metric

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

#### **A** Fitting Configuration

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

#### **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	
00	Same Size as Tube (Inch & Metric)		
11	1/8	04	4mm
14	1/4	06	6mm
18	3/8	08	8mm
22	1/2	10	10mm
133	7/16-24	12	12mm
		14	14mm
		13	1/4
		17	3/8
		21	1/2

#### **D** Color Code

W	White
G	Gray

#### **E** Packaging

P2	Standard Packaging
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# How to Order

## TrueSeal™ (Inches)

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

A Fitting Material	
A	Acetal
PP	Polypropylene
PPB	Black Polypropylene
FB	Black 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



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# How to Order

## Fast & Tite® Fittings (Inches)



A Fitting Material		C Fitting Configuration		D Thread Size	
W	White Polypropylene	MC	Male Connector	2	1/8
P	Black Polypropylene	UC	Union	4	1/4
N	White Nylon	ME	Male Elbow	6	3/8
		EU	Union Elbow	8	1/2
		BU	Bulkhead	12	3/4
		FE	Female Elbow		
		FC	Female Connector		
		MR	Male Run Tee		
		TU	Union Tee		
		MT	Male Branch Tee		

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

# How to Order

## Par-Barb® Fittings (Inches)



A Fitting Configuration		B Fitting Type		D Thread Size			
322	Union	HB	Hose Barb	2	1/8	12	3/4
364	Union Tee	GH	Garden Hose	4	1/4	16	1
365	Union Elbow	P	Pipe	6	3/8	20	1 1/4
318	Hex Plug	GHSV	Garden Hose Swivel	8	1/2	24	1 1/2
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						

C Tube/Hose I.D.				E Fitting Material	
3	3/16	10	5/8	PP	Black Polypropylene
4	1/4	12	3/4	N	White Nylon
5	5/16	16	1		
6	3/8	20	1 1/4		
8	1/2	24	1 1/2		



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## Product Specifications

Product Line	Temperature	Tube Sizes/PSI												
		1/8"	5/32"	3/16"	1/4"	5/16"	3/8"	1/2"	4mm	6mm	8mm	10mm	12mm	14mm
LIQUIfit Inch	35° to 200° F		230		230	230	190	160						
LIQUIfit Metric	35° to 200° F								230	230	230	190	160	160
TrueSeal Acetal	-20° to 180° F				300	300	300	250						
TrueSeal Polypropylene	0° to 225° F				150	150	150	150						
TrueSeal Kynar	0° to 275° F				300	300	300	250						
Fast & Tite Polypropylene	0° to 212° F				300	300	250	200						
Fast & Tite Nylon	40° to 200° F				300	300	250	200						
Par-Barb Polypropylene	0° to 212° F				125	125	125	125						
Par-Barb Nylon	-40° to 200° F	125		125	125	125	125	125						
TrueSeal Ball Valves	35° to 225° F				150	150	150	150						
LIQUIfit Ball Valves	35° to 200° F				150	150	150	150		150	150	150		
Par-Barb Ball Valves	35° to 200° F				150	150	150	150						
Fast & Tite Ball Valves	35° to 200° F				150	150	150	150						
TrueSeal Check Valves	-34° to 150° F						300							

## Tubing Compatibility

Product Line	Soft Metal Tubing		Thermoplastic Tubing					
	Copper	Stainless Steel	Polyethylene	Nylon	95 Shore A Polyurethane	Polypropylene	Fluoropolymer	Vinyl
LIQUIfit								
TrueSeal	G	G		MG	TS	MG	MG	TS
Fast & Tite								
Par-Barb								

Compatible  
 **G** Grooved  
 **TS** Tube Support  
 **MG** Metal Gripper



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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

### Brass PTC 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 typ



### Composite PTCR Fittings

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



### 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.



### 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.



## 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.



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## Other Applicable Products

### 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.



### Compressed Biodiesel (CBD) Fittings

CBD fittings utilize a ribbed sleeve for compression and positive grip. The electroless nickel plating provides superior chemical compatibility for fuels containing greater than 20% biodiesel.



### Manifolds

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



### Straight Thread O-Ring (STO) Fittings

Straight Thread O-Ring (STO) Fittings are growing in popularity and replacing NPTF fittings on air brake applications. STO Fittings simplify installation and provide a tighter seal over traditional pipe threads.



## How to Order

### NTA, AB, Transmission Fittings (Inches)

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

<b>A</b> Thread Sealant		<b>C</b> Fitting Configuration					
VS	Vibra Seal	60	Sleeve	65	Union Elbow	71	Male Run Tee
		61	Nut	66	Female Connector	72	Male Branch Tee
		62	Union	68	Male Connector	79	45° Male Elbow
		63	Tube Insert	69	Male Elbow		
		64	Union Tee	70	Female Elbow		

<b>D</b> Product Series		<b>E</b> Tube Size		<b>F</b> Thread Size					
NTA	NTA	2	1/8	6	3/8	1	1/16	6	3/8
AB	Air Brake	3	3/16	8	1/2	2	1/8	8	1/2
TF	Transmission	5/32	5/32	10	5/8	4	1/4	12	3/4
VL	Vibra-Lok	4	1/4	12	3/4				



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# How to Order

## Composite PTCR, Brass PTC, Vibra-Lok Fittings (Inches)

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

### A Thread Sealant

VS Vibra Seal

### B Body Material

1 Brass  
 3 Composite

### C Fitting Configuration

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

### D Fitting Series

PTC PTC Brass  
 PTCR PTCR Composite  
 VL Vibra-Lok

### F Tube Size

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

### G Thread Size

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

### E Fitting Description

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



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## Product Specifications

	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	
PTCR	-40°F to 200°F				250		250	250	250	250									Push-to-Connect
Brass PTC	-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)
PTCR										
Brass PTC										
SAE Cartridges										
NTA										
Air Brake										
Transmission Fittings										
Vibra-Lok										
Air Brake Hose										

 Compatible



**WARNING**

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## IMPROVING DURABILITY, LESSENING RISK IN PETROCHEMICAL MANUFACTURING

Connecting you to higher productivity, faster  
assembly, and leak-free innovation

### 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

### 45° 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 45° 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.



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## 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.



## 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 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-to-metal seal. Available with pipe, flare and compression ends.



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# How to Order

Compression, Compress-Align,<sup>®</sup> 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**

<b>A</b> Prefix		<b>D</b> Fitting Series		<b>F</b> Tube Size	
VS	Vibra Seal	C	Compression	<b>Inches</b>	
W	White Acrylic	CA	Compress-Align	-2	1/8
NI	Nickel Plating	P	Poly-Tite	-3	3/16
ENI	Electroless Nickel Plating	HD	Hi-Duty	-4	1/4
OX	Oxygen Cleaned	F	45° Flare	-5	5/16
		IF	Inverted Flare	-6	3/8
		HB	Hose Barb	-7	7/16
				-8	1/2
				-10	5/8
				-12	3/4
				-14	7/8
				-16	1
<b>B</b> Body Material		<b>E</b> Suffix		<b>G</b> Thread Size	
1	Metal Forging	BH	Bulkhead	<b>Inches</b>	
2	Metal Extrusion	NS	Non-swivel	-1	1/16
3	Composite	S	Swivel	-2	1/8
		SS	Stainless Steel	-4	1/4
				-6	3/8
				-8	1/2
				-12	3/4
<b>C</b> 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				



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## Product Specifications Industrial Ball Valves

	Type	Body Material	Temperature		Maximum Pressure	
			MIN.	MAX.	PSI	BAR
500 Series	Female/Female	Brass	0°F (-18°C)	350°F (176°C)	600	41
501 Series	Male/Female	Brass	0°F (-18°C)	350°F (176°C)	600	41
502 Series	Panel Mount	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	-40°F (-40°C)	350°F (176°C)	600	41
525 Series	Female/Female	Brass	-40°F (-40°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)
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

## Product Specifications 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



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## Product Specifications Compression, Compress-Align®, Poly-Tite, Hi-Duty, 45° 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"	Type
Compress-Align*	-65°F to 200°F	2,800		1,900	1,400	1,200	1,000	750	650	550	450	350	Compression
Compression (Metric Available)	-65°F to 200°F	2,800		1,900	1,400	1,200	1,000	750	650	550	450	350	
Poly-Tite	0°F to 150°F				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 200°F	2,800		1,900	1,400	1,200	1,000	750	650	550			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					Barb
Dubl-Barb	-65°F to 90°F		150		150		150	100					
Hose Barb <sup>1</sup>	-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 <sup>1</sup>	35°F to 100°F			150	150		150	150	150	150			
Metric Adapters	-40°F to 302°F	1,000			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 <sup>1</sup> Hose size based on I.D.

## Tubing Compatibility

Product Line	Soft Metal Tubing		Thermoplastic Tubing					
	Copper	Stainless steel	Polyethylene	Nylon	95 Shore A Polyurethane	Polypropylene	Fluoropolymer	Vinyl
Compress-Align	Compatible							
Compression	Compatible							
Poly-Tite			Compatible			Compatible		Compatible
Hi-Duty	Compatible							
45 Degree Flare	Compatible							
Inverted Flare	Compatible							
Dubl-Barb			Compatible					
Hose Barb								Compatible

 Compatible



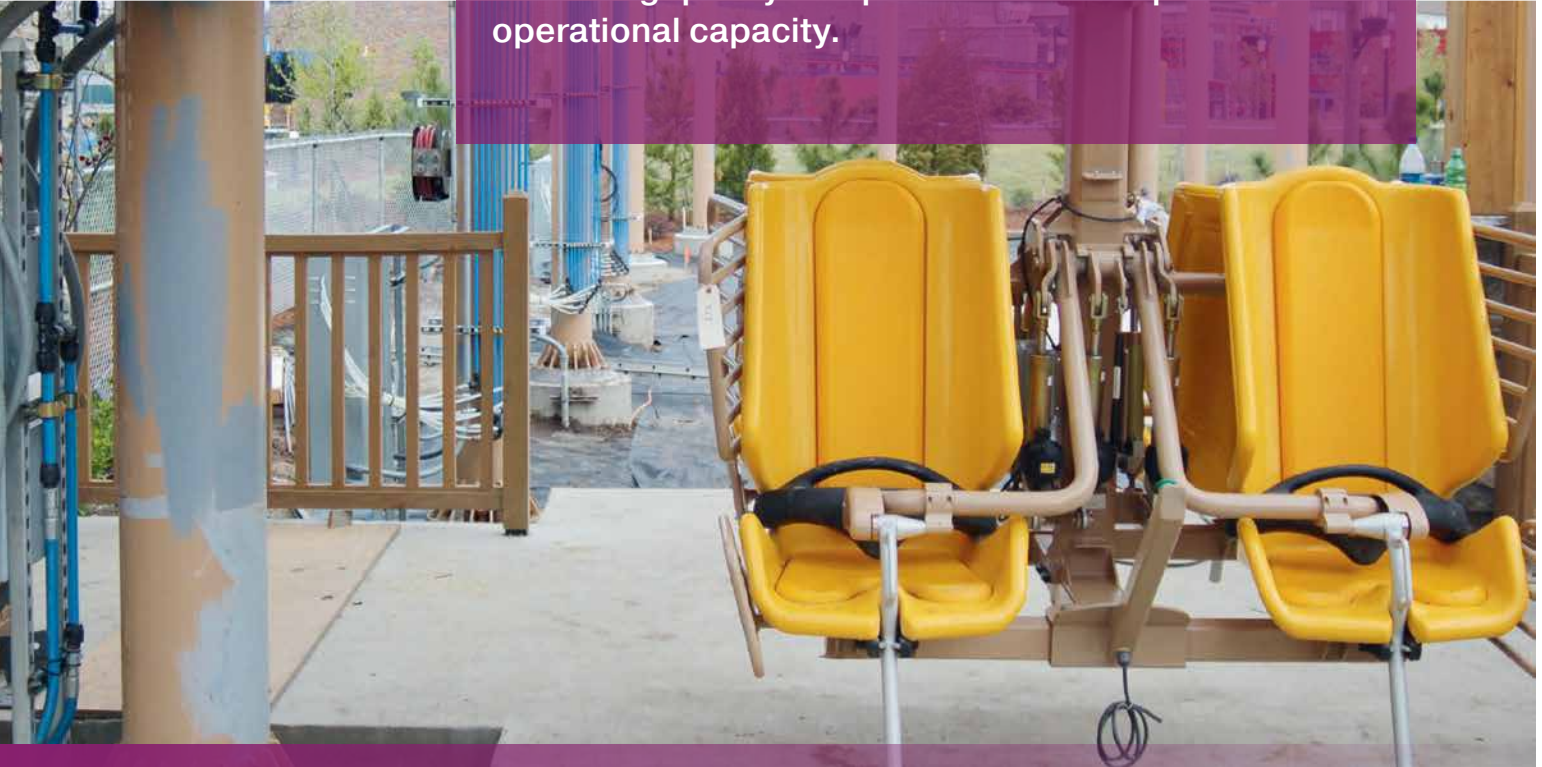
### WARNING

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## IN PROCESS PIPING: IMPROVING EFFICIENCY AND AIR CLEANLINESS

Delivering quality compressed air for superior operational capacity.



### MARKET APPLICATIONS

Compressed Air | Inert Gases | Vacuum | Process Water\* | Chemical Transfer\*

### PERFORMANCE EXPECTATIONS

- Energy Efficient
- Corrosion Resistant
- Quick Installation
- Modular Design
- Optimum flow rate
- 10 year warranty



\*Stainless Steel Range Only



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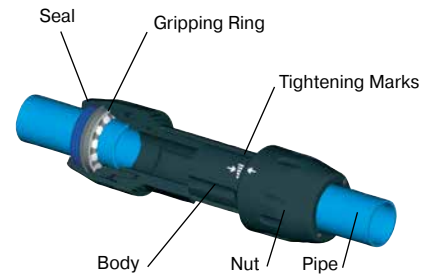


# ALUMINUM PIPING CONNECTION TECHNOLOGIES

Transair's innovative technology enables rapid and easy assembly with quick connection of components to the aluminum pipe. This technology takes into account the specific requirements of each diameter and provides the user with an optimum safety coefficient and easy connection.

1/2" (16.5mm) • 1" (25mm) • 1-1/2" (40mm)

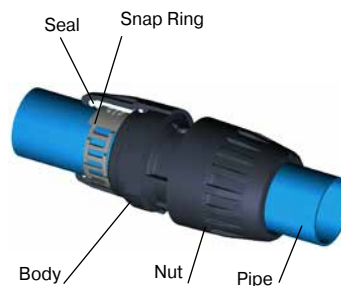
In sizes 1/2" (16,5mm), 1" (25mm), and 1-1/2" (40mm), Transair aluminum pipe uses push to connect technology. Simply push the pipe into the connector until it meets the depth mark on the pipe. The gripping ring will then engage and prevent the pipe from sliding out of the connector.



Installation Video

2" (50mm) • 2-1/2" (63mm)

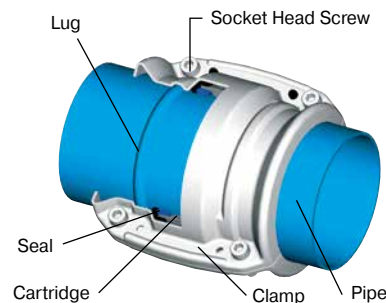
In sizes 2" (50mm) and 2-1/2" (63mm), Transair aluminum pipe uses snap ring technology. Place the snap ring in the two holes at the end of the pipe and slide the nut in-place. Next, hand tighten the nut into the connector body. Lastly, use a pair of spanner wrenches to fully tighten the connector.



Installation Video

3" (76mm) • 4" (101mm) • 6" (168mm)

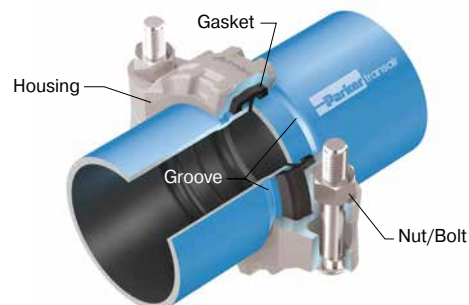
In sizes 3" (76mm), 4" (101mm), and 6" (168mm), Transair aluminum pipe uses clamshell technology. Place the cartridge on the pipe so it meets the lug. Then position the connector so the cartridge is in the middle. Lastly, close the connector and tighten with the provided bolts.



Installation Video

3" (76mm) • 4" (101mm) • 6" (168mm)

8" pipe to pipe connectors can be quickly connected to Transair pipe. Position the seal on one half of the pipe, then slide the 2nd pipe into position. Lastly, attach the connector over the seal and tighten.



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# TECHNICAL

## Suitable fluids

- compressed air (dry, wet, lubricated)
- vacuum
- inert gases
- Please consult us for other fluids

## Resistant to

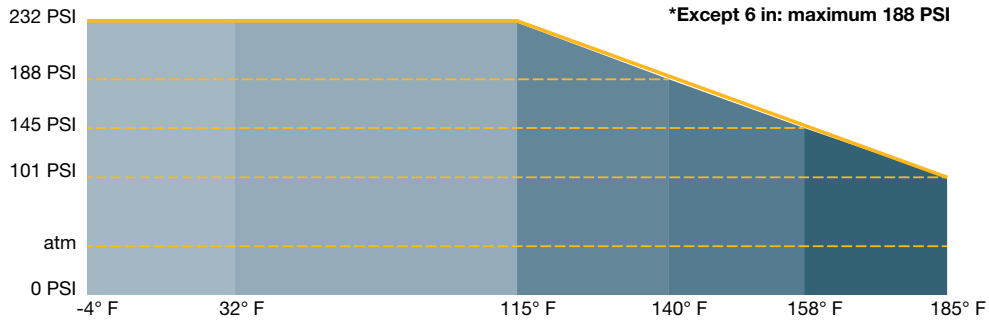
- corrosion
- mineral compressor oils
- thermal variations
- synthetic compressor oils
- ultraviolet (UV)
- mechanical shocks
- compressor oil carry over

## Vacuum level

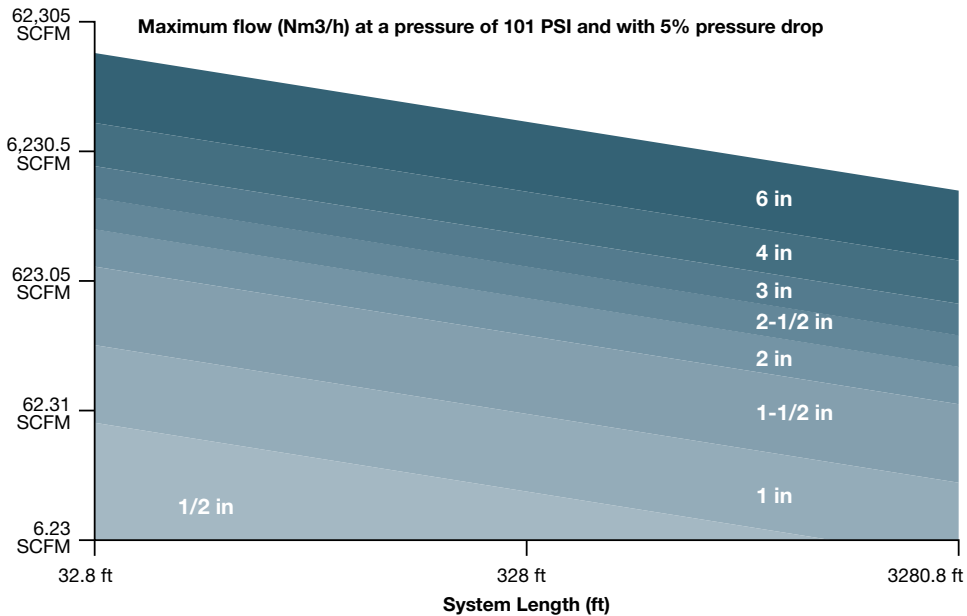
- 99.9% (0.03" Hg / 1mbar)

## Working Pressure and Temperature

The maximum working pressure of the Transair® system versus the operating temperature can be seen in the diagram below.



## Maximum Flow



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## Sizing Chart

Select the Transair® diameter for your application based on required flow against pressure drop. Estimated values: Closed loop system at 100 PSI with 5% pressure drop.

**Example**

- Main system length (ring main): 1000 ft
- Compressor power: 40 hp
- Required flow rate: 150 SCFM
- Working pressure: 100 PSI

Result: The most suitable Transair® diameter is: 1-1/2".

Flow Rate	Main Ring Length (ft)						Compressor hp
SCFM	500	1000	2000	3000	4000	5000	
10	1/2"	1/2"	1/2"	1"	1"	1"	< 15
25	1"	1"	1"	1"	1"	1"	
50	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	
75	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	15 to 40
100	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	
150	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	
250	1 1/2"	1 1/2"	2"	2"	2 1/2"	2 1/2"	41 to 125
350	2"	2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	
500	2 1/2"	2 1/2"	2 1/2"	3"	3"	3"	
750	2 1/2"	2 1/2"	3"	3"	4"	4"	126 to 250
1000	3"	3"	3"	4"	4"	4"	
1250	3"	3"	4"	4"	4"	4"	
1500	4"	4"	4"	4"	4"	4"	125 to 500
1750	4"	4"	4"	4"	4"	4"	
2000	4"	4"	4"	4"	4"	6"	
2250	4"	4"	4"	6"	6"	6"	
2500	6"	6"	6"	6"	6"	6"	501 to 1000
2750	6"	6"	6"	6"	6"	6"	
3000	6"	6"	6"	6"	6"	6"	
3250	6"	6"	6"	6"	6"	6"	
3500	6"	6"	6"	6"	6"	6"	
4000	6"	6"	6"	6"	6"	6"	
4500	6"	6"	6"	6"	6"	6"	
5000	6"	6"	6"	6"	6"	6"	1001 to 1400
5500	6"	6"	6"	6"	6"	6"	



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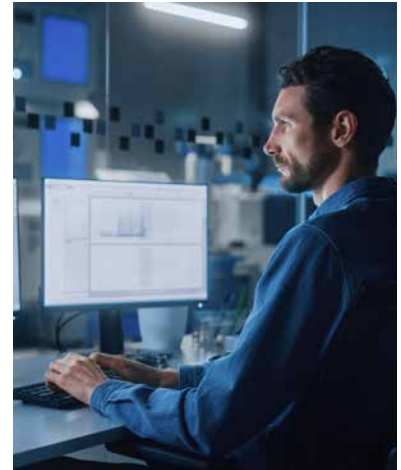
# CUSTOM SOLUTIONS FOR TODAY'S PROBLEMS

**Parker Fluid System Connectors Division is dedicated to helping you solve your fluid conveyance problems.**

Due to the ever-changing and increasingly unique need of OEMs, our catalog offering of brass and composite fluid conveyance fittings may not always solve routing constraints. In these circumstances, OEMs may find themselves needing a custom configured component to achieve the desired routing.

In situations where a standard fitting or valve is not suitable, Parker can develop and manufacture a custom machined brass or molded composite fitting or valve.

Our team of highly skilled, US-based engineers can design a part based on your application's unique requirements. We work quickly to understand your pain points and requirements, before developing a custom solution to fit your application. Our engineers will develop a prototype and complete the testing outlined by the designated criteria and/or specific required specifications. Our custom solution can be as simple as putting an electroless nickel plating on an existing brass part or as complex as designing and manufacturing a custom manifold.



**Parker specializes in fluid conveyance fittings and valves produced from brass or composite materials. Our custom solutions can be produced from either of these materials.**



## Brass

For applications that require a small number of special shape or thread patterns, Parker can design and manufacture custom brass configurations. This option involves no up-front tooling costs and can be completed in just a few weeks.



## Composite

Custom composite parts can make sense for OEMs requiring high volumes of a specific configuration. This option requires additional lead time and up-front costs due to the need for a custom injection molds. The advantage is this option can lead to wide variety of shapes and configurations. Our composite customs are commonly manufactured in Nylon, Polypropylene, Acetal, and Kynar.

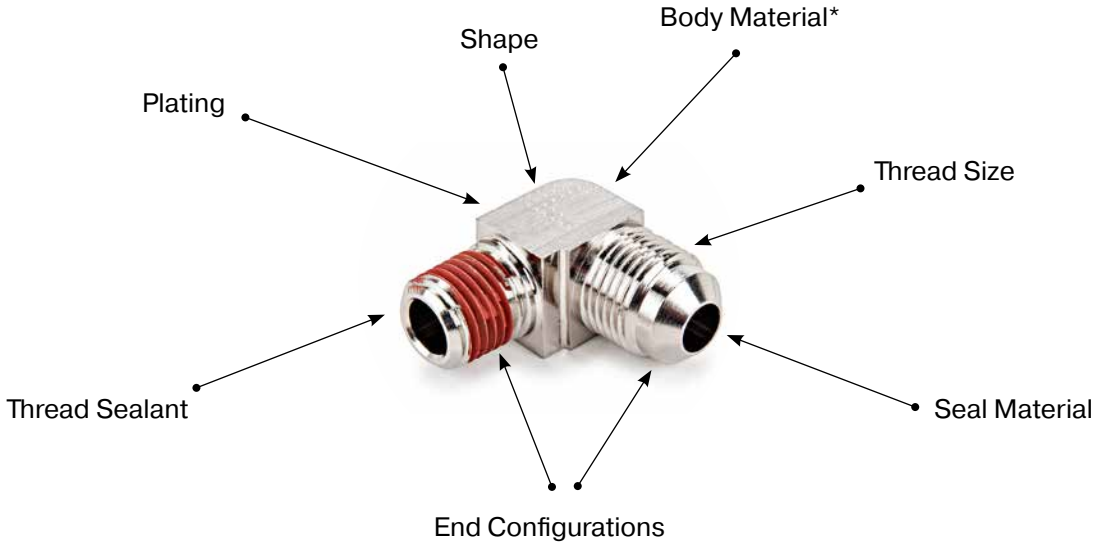


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# CUSTOMIZATION OPTIONS

Parker’s fittings and valves can be customized to fit your application. Below are just a few examples of what can be customized on our fittings.



\*Fluid System Connectors Division offers Brass or Composite bodies

# INTEGRATED FITTINGS & MANIFOLDS

Parker’s engineering and manufacturing teams can produce a custom integrated fitting or manifold.



Manifolds are the ideal choice for reducing the number of ports and simplifying fluid conveyance lines. A custom manifold can reduce the footprint required to connect vital fluid conveyance lines. A manifold can also decreasing installation time. Parker can offer color coded manifold ports to keep line continuity and reduce installation complexity.



Integrated fittings combine one or more components into one footprint. For example, we can combine a check valve with an elbow. The resulting part would provide vital flow control in a reduced footprint. Integrated fittings can reduce your costs by eliminating SKUs and improving installation times.



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## Notes

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