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2507 MPA Tube Fittings

Catalog: 2507 MPA Tube Fittings

January 2022

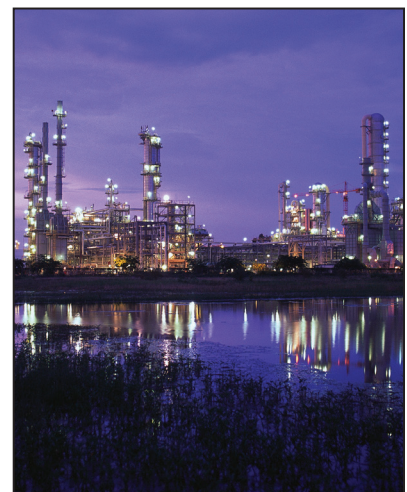
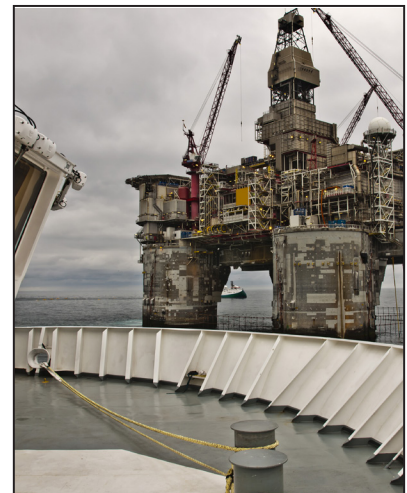
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hydraulics
pneumatics
process control
sealing & shielding



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Introduction

Parker Hannifin 2507 MPA Gaugeable Tube Fitting are engineered and manufactured to be secure and gas-tight while being made manually (wrench turns) or hydraulically using a set tool.

This connection has application throughout industry, including off-shore oil and gas exploration platforms, research labs, and other facilities that require operating pressures in excess of 6,000 psi

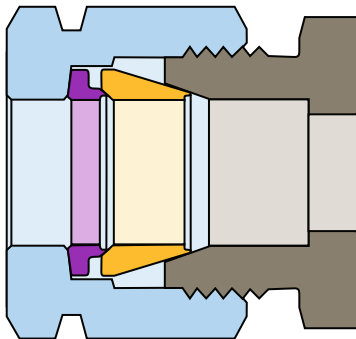
Specifically designed for use with 2507 Super Duplex high strength corrosion resistant tubing supplied by Parker IPD was created for use in high chloride-containing environments.

- Excellent resistance to Stress Corrosion Cracking (SCC)
- Excellent resistance to pitting and Crevice corrosion
- Very High Mechanical Strength
- NACE MR0175/ISO 15156 Sulphide Stress-cracking resistant for oil field equipment
- Minimum PRE value for tubing is 42.5
- NORSOK M650 mill and M630 Material Data Sheet (MDS) material suppliers used.

Fitting is supplied complete with both ferrules and compression tube nut, ready to install.

Advanced Features

Every 2507 MPA Gaugeable Tube has the features shown below:

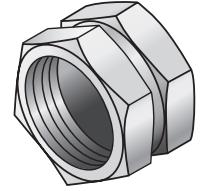


1. Front ferrule with corrosion-resistant Parker Supercase® forms a seal between the tube, body and ferrule. It also provides a mechanical hold on the tube.
2. Back ferrule with corrosion-resistant Parker Supercase® provides a strong mechanical hold on the tube.
3. Longer thread area for improved resistance to pressure and load on the ferrules.
4. Molybdenum disulfide-coated nut helps prevent galling, provides easier assembly, and permits multiple remakes.

Materials and Identification

2507 MPA Fittings and Valves are made of Heat Code Traceable 2507 Super Duplex materials. Tubing and fitting materials that should be selected based on compatibility with the fluid or gas media.

Part numbers for 2507 MPA Fittings use symbols that identify their style, size, and composition. 2507 material is easily identified by a groove in the tube nut hex.



2507 MPA Gaugeable Tube Fittings Pressure Ratings

The 2507 MPA fittings and valves are designed and tested to work with all of the 2507 Super Duplex tubing sizes/wall thickness shown in the chart on page 8. Pressure rating of a system is determined by the fitting, valve, end-connection with the lowest MAWP rating.

- **NPT End Connections:** Male and Female NPT pipe connections up to 1/2" NPT are rated to 15,000 psi (1040 bar). 3/4" and 1" NPT pipe sizes are rated to 10,000 psi (690 bar) maximum.
- **SAE/MS End Connections:** SAE Straight Thread O-ring connections are rated to a maximum of 10,000 psi (690 bar) working pressure.
- **Medium Pressure Cone & Thread (X42), 37° JIC Flare, Parker "Type M", and our X44 2507 MPA Compression Adapter connections:** Working Pressures exceed highest authorized tube maximum working pressures shown in this catalog.

Assembly

Parker 2507 MPA Fittings are sold completely assembled and ready for immediate use. Simply insert the tube until it bottoms out in the fitting, tighten nut "finger tight", then using a wrench tighten as follows:

Sizes up to 1/2"	1-1/4 TFFT
Sizes larger than 1/2"	1-1/2 TFFT

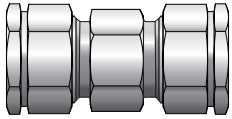
All sizes can be preset with a Parker Hydraulic Preset Tool.

Dedication to Quality

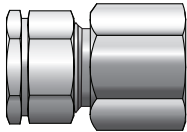
Our resources and vast product line are available through our worldwide distribution network. For more information regarding our products and services, please contact your authorized Parker Instrumentation Distributor.

Visual Index

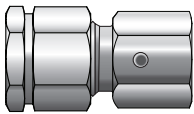
Union Type (Female Tube/Female Tube)



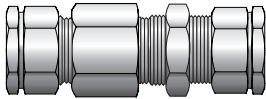
HLZ
Union
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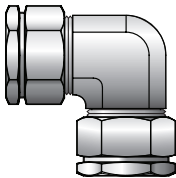
GLZ
Female NPT Connector
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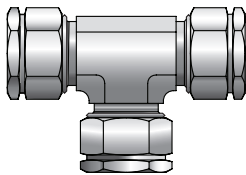
MF GLZ
Female C&T Connector
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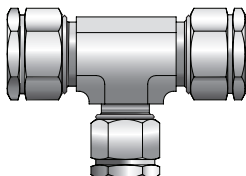
WLZ
Bulkhead Union Connector
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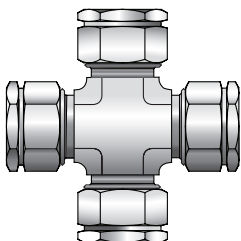
ELZ
Union Elbow
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JLZ
Union Tee
Page 11

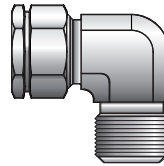


JLZ
XS Compression Drop Size Branch Tee
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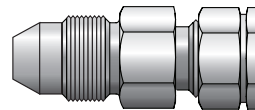


KLZ
Union Cross
Page 12

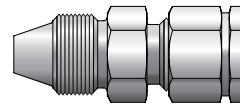
Fittings - Female Tube/Male



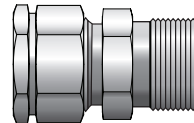
CLZ
Male NPT Elbow
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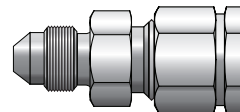
X42HLZ
Medium Pressure Connector
Page 12



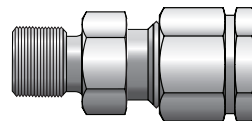
X44HLZ
X44 Male Connector
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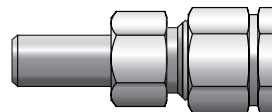
FLZ
Male NPT Connector
Page 13



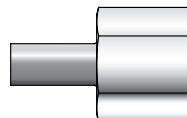
XHLZ
37° Flare to JIC Connector
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ZHLA
SAE Male O-ring Connector
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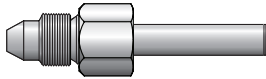
TRLZ
Tube Stub Reducer
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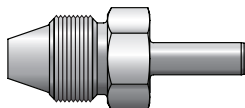
TAHG
Tube Stub to Female NPT Pipe
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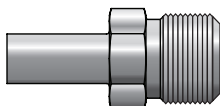
Fittings - Male/Male Tube Stub



X42HTA
Medium Pressure Tube Stub
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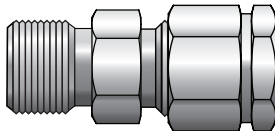


X44HTA
X44 Male Port to Tube Stub
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TAHF
Tube Stub to Male NPT Pipe
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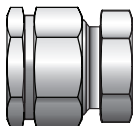
MPI™ Fittings



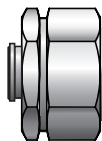
M40HLZ
Type "M" High Pressure
Hose to XS Compression Connector
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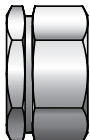
ZPC
2507 XS Compression Pressure Port
Connector
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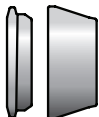
PNL7
2507 XS Compression Pressure Cap
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FNLZ7
2507 XS Compression Pressure Plug
Page 17



SDBZ
XS Compression Nut
Page 17



SDFF / SDBF
XS Compression Ferrule (Set)
Page 17

Typical Raw Materials

Master Suffix	Basic Fitting Material	Straight Body and Nut	Shapes
-2507	Super Duplex (Type 2507)	ASME A479 ASTM A479 Alloy UNS S32750 or S32760	ASME SA-182 ASTM A182, Grade F53 or ASME SA-479 ASTM A479, Alloy UNS S32750 or S32760

If additional information, including heat code traceability, is required, contact Parker Hannifin.

Tubing Selection Guide

This section is intended to help you properly select and order quality tubing.

Parker believes that proper tubing selection and installation are key to building leak-free, reliable tubing systems.

General Selection Criteria

The data tables in this section will help you select the tubing that best satisfies the flow (size) and material requirements of the application.

The most important consideration in the selection of suitable tubing for any application is the compatibility of the tubing materials with the media to be contained.

System Pressure

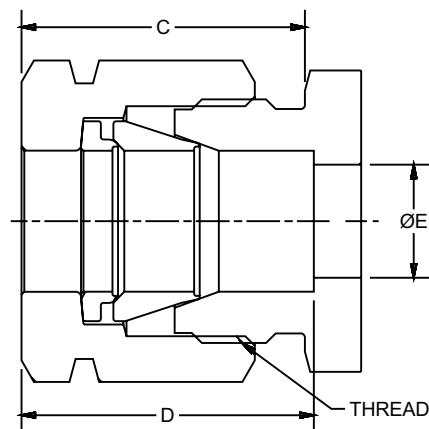
The system operating pressure is another important factor in determining the material strength and tubing wall thickness to be used.

In General, high pressure installations require strong materials such as Stainless Steel or Super Duplex to be employed. MPI™ tube fitting assemblies are limited to the lowest MAWP rated part in the fluid system - tubing, fitting or valve. "Periodic" testing of 1.5 times MAWP is allowed.

Tube End Dimensional Data

Size No.	Inches					
	Tube O.D.	Straight Thread	C	*D Tube Insertion Depth	E (orifice)	H Hex
4	1/4	9/16 - 20	.83	.67	.19	11/16
6	3/8	3/4 - 20	.89	.80	.28	7/8
8	1/2	7/8 - 20	1.02	1.05	.41	1
12	3/4	1 1/8 - 20	1.27	1.26	.63	1 3/8

Dimensions C and D are shown in the finger tight position. Dimensions in inches are for reference only, subject to change.





Elevated Temperature Derating Factors

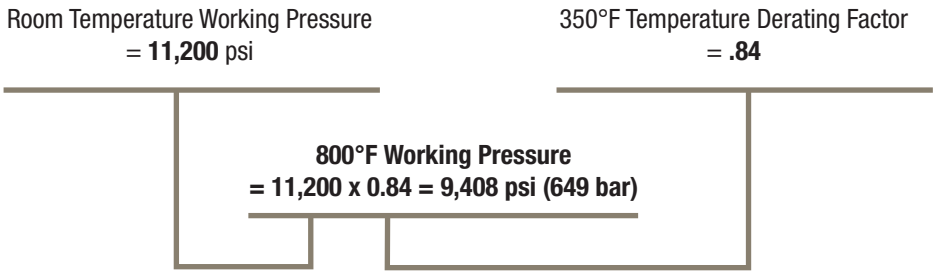
Multiply working pressure from the factor shown in the table below to obtain 2507 MPA Super Duplex working pressure at this elevated temperature. 2507 MPA Super Duplex Fitting and Tubing can be used to -50°F (-46°C) (NORSOK removes requirement for Low Temperature Charpy Impact Testing for products with wall thicknesses below 6mm (0.24"))

	Temperature Derating Factors				
°F	-425° to 100°	200°	300°	400°	482°
°C	-254° to 538°	93°	149°	204°	250°
Super Duplex 2507	1.000	.90	.86	.82	.81

* When 2507 MPA Super Duplex is exposed to temperatures above 250°C (482°F) for prolonged periods, reduction in impact resistance can result and use as a pressure vessel is limited to this temperature.

The rating at temperature is the room temperature (RT) pressure rating listed in the catalog multiplied by the Derating Factor at temperature.

Example: 1/4" 2507 XS fittings and tubing @ 350°F



2507 MPA
Fittings

Parker 2507 MPA Super Duplex Tubing

Higher Pressures and high chloride environments require special consideration to materials used. Parker Hannifin in conjunction with our tubing suppliers offer the following 2507 MPA Super Duplex Tubing designed specifically for these service conditions. Below you will find the tubing that we inventory as well as additional data on tubing you may find from other sources. Our fittings and valves are designed to be used with any of the listed sizes. We have designed our products to work together as a complete system. Using Parker's 2507 MPA Super Duplex tubing in your system will gain you the following benefits:

- **Minimum PREN of 42.5**
Offers an increased chloride corrosion resistance over standard ASTM A789 tube (PREN 38).
- **6% Greater Allowable Stress** ²
Allows the tube wall to be thinner without compromising pressure holding capability.

Parker 2507 MPA Super Duplex Tubing

Tube Size (in.)	Average Wall (in.)	Nominal ID (in.)	Maximum Working Pressure (psig)	Tube Part No.
1/4	.035	0.180	10,500	TUBE 1/4x035-2507
3/8	.049	0.277	9,900	TUBE 3/8x049-2507
1/2	.065	0.370	10,450	TUBE 1/2x065-2507
3/4	.095	0.560	10,200	TUBE 3/4x095-2507

NOTES:

Working pressures are calculated using an allowable stress of 41,000 psi for annealed 2507 MPA Super Duplex tubing with a minimum tensile strength of 123,000 psi with a hardness of 32 HRC max. Tubing to be free of scratches and suitable for bending or flaring.

Dimensions in inches are for reference only, subject to change.

ASTM A789 Annealed 2507 tubing

Tube Size (in.)	Wall Thickness (in)				
	0.035	0.049	0.065	0.083	0.095
	Working Pressure (psi)				
1/4	9,780	15,000	-	-	-
3/8	6,350	9,100	-	-	-
1/2	5,000	7,100	9,700	12,750	-
3/4	-	-	6,300	8,200	9,450

¹ Tubing per ASTM A789 or UNS S32750 material is recommended. Hardness not to exceed 32 HRC. Tubing to be free from scratches and suitable for bending or flaring.

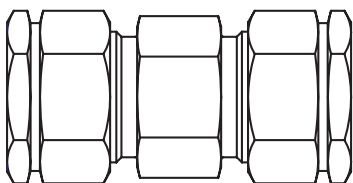
² ASME B31.3 allowable stress of 38,700 psi for UNS 32750 (A789) and tube wall thickness tolerance of $\pm 10\%$ used to calculate pressure ratings. Please contact factory for assistance in calculating pressure ratings for different parameters.

2507 MPA Tube Fittings



HLZ

XS Compression Union Connector

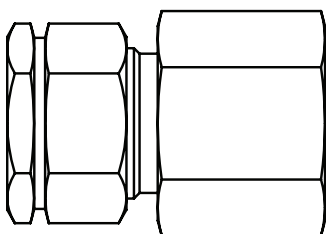


Parker Part No.	Inches		
	T1 Tube OD	T2 Tube OD	W Hex
4S-4S HLZ-2507	1/4	1/4	5/8
6S-4S HLZ-2507	3/8	1/4	13/16
6S-6S HLZ-2507	3/8	3/8	13/16
8S-4S HLZ-2507	1/2	1/4	15/16
8S-6S HLZ-2507	1/2	3/8	15/16
8S-8S HLZ-2507	1/2	1/2	15/16
12S-6S HLZ-2507	3/4	3/8	1-3/16
12S-8S HLZ-2507	3/4	1/2	1-3/16
12S-12S HLZ-2507	3/4	3/4	1-3/16

Dimensions are for reference only, subject to change

GLZ

XS Compression to Female
NPT Connector

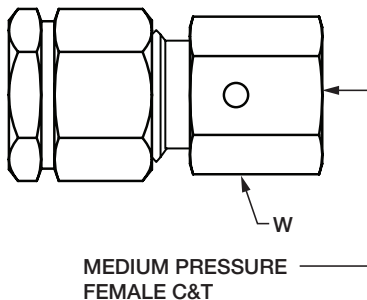


Parker Part No.	Inches		
	Tube OD	NPT Pipe Thread	W Hex
4S-4 GLZ-2507	1/4	1/4	3/4
6S-6 GLZ-2507	3/8	3/8	7/8
8S-8 GLZ-2507	1/2	1/2	1-1/8
12S-12 GLZ-2507	3/4	3/4	1-1/2

Dimensions are for reference only, subject to change

MF GLZ

XS Compression to
Medium Pressure C&T Female
Connector



MEDIUM PRESSURE
FEMALE C&T

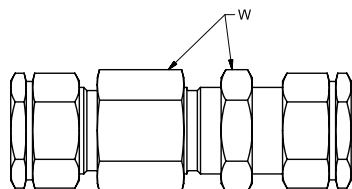
Parker Part No.	Inches		
	Instrument Tube OD	Medium Pressure C&T Port	W Hex
4S-4MF GLZ-2507	1/4	1/4	5/8
6S-6MF GLZ-2507	3/8	3/8	13/16
8S-9MF GLZ-2507	1/2	9/16	1
12S-12MF GLZ-2507	3/4	3/4	1-3/8

Dimensions are for reference only, subject to change

Sizes	Medium Pressure Torque	Orifice I.D. (inches)
4	15 ft-lbf.	.109
6	25 ft-lbf.	.206
9	55 ft-lbf.	.360
12	75 ft-lbf.	.438

WLZ

XS Compression Bulkhead
Union Connector



Parker Part No.	Inches	
	Tube OD	W Hex
4S-4S WLZ-2507	1/4	3/4
6S-6S WLZ-2507	3/8	15/16
8S-8S WLZ-2507	1/2	1-1/16
12S-12S WLZ-2507	3/4	1-3/8

Dimensions are for reference only, subject to change
Maximum Bulkhead Hole Diameter is 1/32" larger than thread OD

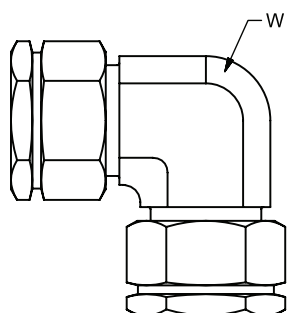
Robust Connection Size	Replacement WLZ Part No.
4S	6 WLZ-2507
6S	8 WLZ-2507
8S	10 WLZ-2507
12S	14 WLZ-2507

2507 MPA Tube Fittings



ELZ

XS Compression Union Elbow

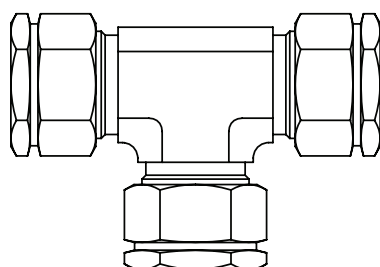


Parker Part No.	Inches	
	Tube OD	W Hex
4S-4S ELZ-2507	1/4	5/8
6S-6S ELZ-2507	3/8	13/16
8S-8S ELZ-2507	1/2	15/16
12S-12S ELZ-2507	3/4	1-5/16

Dimensions are for reference only, subject to change

JLZ

XS Compression Union Tee

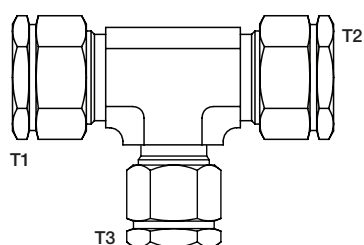


Parker Part No.	Inches	
	Tube OD	W Hex
4S-4S-4S JLZ-2507	1/4	5/8
6S-6S-6S JLZ-2507	3/8	13/16
8S-8S-8S JLZ-2507	1/2	15/16
12S-12S-12S JLZ-2507	3/4	1-5/16

Dimensions are for reference only, subject to change

Drop Size JLZ

XS Compression Drop Size Branch Tee

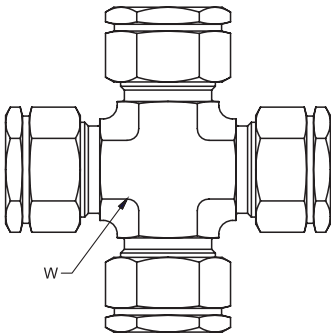


Parker Part No.	Inches			
	T1 Tube OD	T2 Tube OD	T2 Tube OD	W Hex
6S-6S-4S JLZ-2507	3/8	3/8	1/4	13/16
8S-8S-6S JLZ-2507	1/2	1/2	3/8	15/16
12S-12S-8S JLZ-2507	3/4	3/4	1/2	1-5/16

Dimensions are for reference only, subject to change

KLZ

XS Compression Union Cross

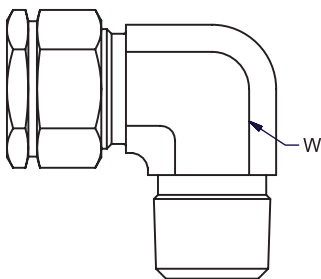


Parker Part No.	Inches	
	T1 Tube OD	W Hex
4S KLZ-2507	1/4	5/8
6S KLZ-2507	3/8	13/16
8S KLZ-2507	1/2	1-5/16
12S KLZ-2507	3/4	1-5/16

Dimensions are for reference only, subject to change

CLZ

XS Compression
90° Male NPT Elbow Adapter

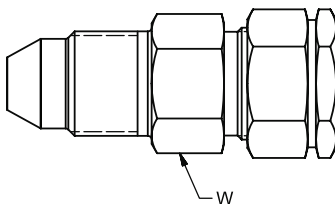


Parker Part No.	Inches		
	Tube OD	NPT Pipe Thread	W Hex
4S-4 CLZ-2507	1/4	1/4	5/8
6S-6 CLZ-2507	3/8	3/8	13/16
8S-8 CLZ-2507	1/2	1/2	15/16
12S-12 CLZ-2507	3/4	3/4	1-5/16

Dimensions are for reference only, subject to change

X42HLZ

Medium Pressure
XS Compression Connector



Parker Part No.	Inches			
	Medium Pressure Adapter	Tube OD	Thread	W Hex
4-4S X42HLZ-2507	1/4	1/4	7/16-20	5/8
6-6S X42HLZ-2507	3/8	3/8	9/16-18	13/16
8-8S X42HLZ-2507	1/2	1/2	13/16-16	15/16
12-12S X42HLZ-2507	3/4	3/4	3/4-14 NPS	1-5/16

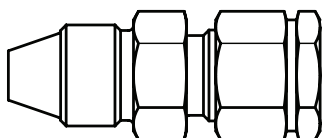
Dimensions are for reference only, subject to change

2507 MPA Tube Fittings



X44HLZ

X44 Male by XS Compression

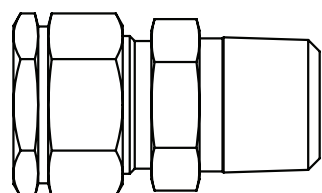


Parker Part No.	Inches			
	Med. Pressure Adapter	Tube OD	X44 Thread	W Hex
6-6S X44HLZ-2507	3/8	1/4	5/8 -18	11/16
6-6S X44HLZ-2507	3/8	3/8	5/8 -18	13/16
9-8S X44HLZ-2507	9/16	1/2	7/8 -14	1
12-12S X44HLZ-2507	3/4	3/4	1-1/8 -12	1-1/4

Dimensions are for reference only, subject to change

FLZ

XS Compression to Male NPT Connector

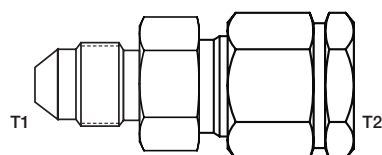


Parker Part No.	Inches		
	Tube OD	NPT Pipe Thread	W Hex
4S-4 FLZ-2507	1/4	1/4	5/8
6S-6 FLZ-2507	3/8	3/8	13/16
8S-8 FLZ-2507	1/2	1/2	15/16
12S-12 FLZ-2507	3/4	3/4	1-3/16

Dimensions are for reference only, subject to change

XHLZ

37° JIC Flare to XS Compression Connector

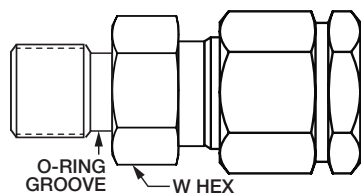


Parker Part No.	Inches		
	Flare End	Tube OD	W Hex
4-4S XHLZ-2507	1/4	1/4	5/8
6-6S XHLZ-2507	3/8	3/8	13/16
8-8S XHLZ-2507	1/2	1/2	15/16
12-12S XHLZ-2507	3/4	3/4	1-3/16

Dimensions are for reference only, subject to change

ZHLA

XS Compression to
SAE Male O-Ring Connector

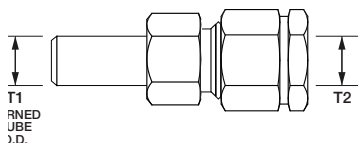


Parker Part No.	Inches			
	Tube OD	Straight Thread Size	W Hex	O-Ring
4S-4 ZHLA-2507	1/4	7/16-20	5/8	3-904
6S-6 ZHLA-2507	3/8	9/16-18	13/16	3-906
8S-8 ZHLA-2507	1/2	3/4-16	15/16	3-908
12S-12 ZHLA-2507	3/4	1-1/16-12	1-3/16	3-912

Dimensions are for reference only, subject to change

TRLZ

XS Compression to
Tube Stub Reducer

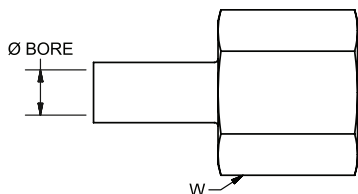


Parker Part No.	Inches			
	T1 Tube End OD	T2 Comp End OD	W Hex	Bore
6S-4S TRLZ-2507	3/8	1/4	5/8	.16
8S-4S TRLZ-2507	1/2	1/4	5/8	.16
8S-6S TRLZ-2507	1/2	3/8	13/16	.28
12S-6S TRLZ-2507	3/4	3/8	13/16	.28
12S-8S TRLZ-2507	1	1/2	15/16	.41

Dimensions are for reference only, subject to change

TAHG

XS Compression to
NPT Tube Female Adapter



Parker Part No.	Inches			
	Tube OD	NPT Pipe Thread	W Hex	Bore
4S-4 TAHG-2507	4	1/4	3/4	.16
6S-6 TAHG-2507	6	3/8	7/8	.25
8S-8 TAHG-2507	8	3/8	1-3/16	.38
12S-12 TAHG-2507	12	3/4	1-1/2	.56

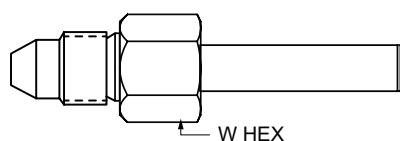
Dimensions are for reference only, subject to change

2507 MPA Tube Fittings



X42HTA

Medium Pressure to XS Compression
Tube Stub

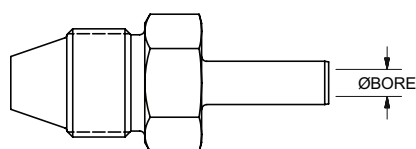


Parker Part No.	Inches			
	Medium Pressure Adapter	Tube OD	Thread	W Hex
4-4S X42HTA-2507	1/4	1/4	7/16 -20	5/8
6-6S X42HTA-2507	3/8	3/8	9/16 -20	13/16
9-8S X42HTA-2507	9/16	1/2	13/16 -20	15/16
12-12S X42HTA-2507	3/4	3/4	3/4 -14 NPS	1-1/4

Dimensions are for reference only, subject to change

X44HTA

Medium Pressure to XS Compression
Tube Stub



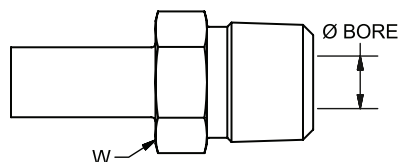
Parker Part No.	Inches				
	Medium Pressure Adapter	Tube OD	Thread	Bore	W Hex
6-4S X44HTA-2507	3/8	1/4	5/16 -18	.16	11/16
6-6S X44HTA-2507	3/8	3/8	5/16 -18	.25	11/16
9-8S X44HTA-2507	9/16	1/2	7/8 -14	.38	1
12-12S X44HTA-2507	3/4	3/4	1-1/8 -12	.50	1-1/4

Dimensions are for reference only, subject to change

X44 Adapter Size	Assembly Torque
3/8	40 ft-lbf
9/16	80 ft-lbf
3/4	165 ft-lbf

TAHF

XS Compression Tube Stub to
Male NPT Pipe

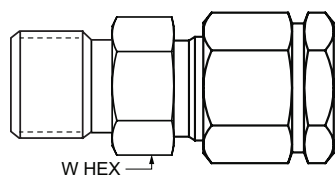


Parker Part No.	Inches			
	Tube OD	NPT Pipe Thread	Bore	W Hex
4S-4 TAHF-2507	4	1/4	.16	9/16
6S-6 TAHF-2507	6	3/8	.25	11/16
8S-8 TAHF-2507	8	1/2	.31	7/8
12S-12 TAHF-2507	12	3/4	.56	1-1/16

Dimensions are for reference only, subject to change

M40HLZ

Type "M" High Pressure Hose to XS Compression Connector

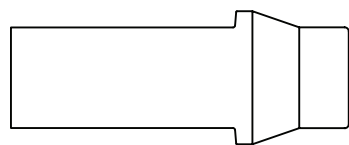


Parker Part No.	Inches			
	Hose Adapter	Tube OD	T Thread	W Hex
6-4S M40HLZ-2507	-6	1/4	9/16 -18	5/8
8-6S M40HLZ-2507	-8	3/8	3/4 -16	13/16
10-8S M40HLZ-2507	-10	1/2	7/8 -14	15/16
11-12S M40HLZ-2507	-11	3/4	1 -12	1-3/16

Dimensions are for reference only, subject to change

ZPC

XS Compression Port Connector



Parker Part No.	Inches	
	Tube OD	Bore
4S-4S ZPC-2507	1/4	.16
6S-6S ZPC-2507	3/8	.25
8S-8S ZPC-2507	1/2	.38
12S-12S ZPC-2507	3/4	.56

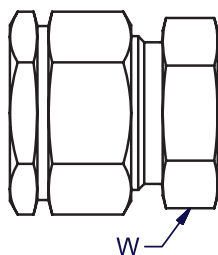
Dimensions are for reference only, subject to change

Parker Part No.	Inches		
	Tube OD	Machine Ferrule	Bore
4S-6S ZPC-2507	1/4	3/8	.16
4S-8S ZPC-2507	1/4	1/2	.16
6S-8S ZPC-2507	3/8	1/2	.25
6S-12S ZPC-2507	3/8	3/4	.25
8S-12S ZPC-2507	1/2	3/4	.38
8S-12S ZPC-2507	1/2	1	.38

Dimensions are for reference only, subject to change

PNZ

XS Compression Cap



Parker Part No.	Inches	
	Tube OD	W Hex
4S PNZ-2507	1/4	5/8
6S PNZ-2507	3/8	13/16
8S PNZ-2507	1/2	15/16
12S PNZ-2507	3/4	1-3/16

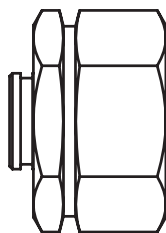
Dimensions are for reference only, subject to change

2507 MPA Tube Fittings



FNZ

XS Compression Plug

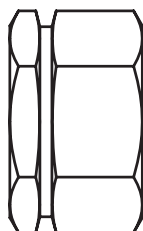


Parker Part No.	Inches		
	Tube OD	Thread	W Hex
4S FNZ-2507	1/4	9/16 -20	11/16
6S FNZ-2507	3/8	3/4 -20	7/8
8S FNZ-2507	1/2	7/8 -20	1
12S FNZ-2507	3/4	1-1/8 -20	1-3/8

Dimensions are for reference only, subject to change

SDBZ

XS Compression Nut

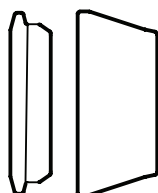


Parker Part No.	Inches	
	Tube OD	W Hex
4S SDBZ-2507	1/4	11/16
6S SDBZ-2507	3/8	7/8
8S SDBZ-2507	1/2	1
12S SDBZ-2507	3/4	1-3/8

Dimensions are for reference only, subject to change

SDFF / SDBF

XS Compression Ferrule Set



Parker Part No.	Inches	
	Tube O.D.	Ferrule Pairs per set
4S SD Ferrule Set -6MO	1/4	-
6S SD Ferrule Set -6MO	3/8	-
8S SD Ferrule Set -6MO	1/2	-
12S SD Ferrule Set -6MO	3/4	-

Dimensions are for reference only, subject to change.

Terms of Sale with Warranty Limitations

The items described in this document and other documents and descriptions provided by Parker Hannifin Corporation, its subsidiaries and its authorized distributors (“Seller”) are hereby offered for sale at prices to be established by Seller. This offer and its acceptance by any customer (“Buyer”) shall be governed by all of the following Terms and Conditions. Buyer’s order for any item described in its document, when communicated to Seller verbally, or in writing, shall constitute acceptance of this offer. All goods or work described will be referred to as “Products”.

1. Terms and Conditions. Seller’s willingness to offer Products, or accept an order for Products, to or from Buyer is expressly conditioned on Buyer’s assent to these Terms and Conditions and to the terms and conditions found on-line at www.parker.com/saleterms/. Seller objects to any contrary or additional term or condition of Buyer’s order or any other document issued by Buyer.

2. Price Adjustments; Payments. Prices stated on the reverse side or preceding pages of this document are valid for 30 days. After 30 days, Seller may change prices to reflect any increase in its costs resulting from state, federal or local legislation, price increases from its suppliers, or any change in the rate, charge, or classification of any carrier. The prices stated on the reverse or preceding pages of this document do not include any sales, use, or other taxes unless so stated specifically. Unless otherwise specified by Seller, all prices are F.O.B. Seller’s facility, and payment is due 30 days from the date of invoice. After 30 days, Buyer shall pay interest on any unpaid invoices at the rate of 1.5% per month or the maximum allowable rate under applicable law.

3. Delivery Dates; Title and Risk; Shipment. All delivery dates are approximate and Seller shall not be responsible for any damages resulting from any delay. Regardless of the manner of shipment, title to any products and risk of loss or damage shall pass to Buyer upon tender to the carrier at Seller’s facility (i.e., when it’s on the truck, it’s yours). Unless otherwise stated, Seller may exercise its judgment in choosing the carrier and means of delivery. No deferment of shipment at Buyers’ request beyond the respective dates indicated will be made except on terms that will indemnify, defend and hold Seller harmless against all loss and additional expense. Buyer shall be responsible for any additional shipping charges incurred by Seller due to Buyer’s changes in shipping, product specifications or in accordance with Section 13, herein.

4. Warranty. Seller warrants that the Products sold hereunder shall be free from defects in material or workmanship for a period of twelve months from the date of delivery to Buyer or 2,000 hours of normal use, whichever occurs first. This warranty is made only to Buyer and does not extend to anyone to whom Products are sold after purchased from Seller. The prices charged for Seller’s products are based upon the exclusive limited warranty stated above, and upon the following disclaimer: **DISCLAIMER OF WARRANTY: THIS WARRANTY COMPRISES THE SOLE AND ENTIRE WARRANTY PERTAINING TO PRODUCTS PROVIDED HEREUNDER. SELLER DISCLAIMS ALL OTHER WARRANTIES, EXPRESS AND IMPLIED, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

5. Claims; Commencement of Actions. Buyer shall promptly inspect all Products upon delivery. No claims for shortages will be allowed unless reported to the Seller within 10 days of delivery. No other claims against Seller will be allowed unless asserted in writing within 60 days after delivery or, in the case

of an alleged breach of warranty, within 30 days after the date within the warranty period on which the defect is or should have been discovered by Buyer. Any action based upon breach of this agreement or upon any other claim arising out of this sale (other than an action by Seller for any amount due to Seller from Buyer) must be commenced within thirteen months from the date of tender of delivery by Seller or, for a cause of action based upon an alleged breach of warranty, within thirteen months from the date within the warranty period on which the defect is or should have been discovered by Buyer.

6. LIMITATION OF LIABILITY. UPON NOTIFICATION, SELLER WILL, AT ITS OPTION, REPAIR OR REPLACE A DEFECTIVE PRODUCT, OR REFUND THE PURCHASE PRICE. IN NO EVENT SHALL SELLER BE LIABLE TO BUYER FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF, OR AS THE RESULT OF, THE SALE, DELIVERY, NON-DELIVERY, SERVICING, USE OR LOSS OF USE OF THE PRODUCTS OR ANY PART THEREOF, OR FOR ANY CHARGES OR EXPENSES OF ANY NATURE INCURRED WITHOUT SELLER’S WRITTEN CONSENT, EVEN IF SELLER HAS BEEN NEGLIGENT, WHETHER IN CONTRACT, TORT OR OTHER LEGAL THEORY. IN NO EVENT SHALL SELLER’S LIABILITY UNDER ANY CLAIM MADE BY BUYER EXCEED THE PURCHASE PRICE OF THE PRODUCTS.

7. Contingencies. Seller shall not be liable for any default or delay in performance if caused by circumstances beyond the reasonable control of Seller.

8. User Responsibility. The user, through its own analysis and testing, is solely responsible for making the final selection of the system and Product and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application and follow applicable industry standards and Product information. If Seller provides Product or system options, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the Products or systems.

9. Loss to Buyer’s Property. Any designs, tools, patterns, materials, drawings, confidential information or equipment furnished by Buyer or any other items which become Buyer’s property, may be considered obsolete and may be destroyed by Seller after two consecutive years have elapsed without Buyer placing an order for the items which are manufactured using such property. Seller shall not be responsible for any loss or damage to such property while it is in Seller’s possession or control.

10. Special Tooling. A tooling charge may be imposed for any special tooling, including without limitation, dies, fixtures, molds and patterns, acquired to manufacture Products. Such special tooling shall be and remain Seller’s property notwithstanding payment of any charges by Buyer. In no event will Buyer acquire any interest in apparatus belonging to Seller which is utilized in the manufacture of the Products, even if such apparatus has been specially converted or adapted for such manufacture and notwithstanding any charges paid by Buyer. Unless otherwise agreed, Seller shall have the right to alter, discard or otherwise dispose of any special tooling or other property in its sole discretion at any time.

11. Buyer's Obligation; Rights of Seller. To secure payment of all sums due or otherwise, Seller shall retain a security interest in the goods delivered and this agreement shall be deemed a Security Agreement under the Uniform Commercial Code. Buyer authorizes Seller as its attorney to execute and file on Buyer's behalf all documents Seller deems necessary to perfect its security interest. Seller shall have a security interest in, and lien upon, any property of Buyer in Seller's possession as security for the payment of any amounts owed to Seller by Buyer.

12. Improper use and Indemnity. Buyer shall indemnify, defend, and hold Seller harmless from any claim, liability, damages, lawsuits, and costs (including attorney fees), whether for personal injury, property damage, patent, trademark or copyright infringement or any other claim, brought by or incurred by Buyer, Buyer's employees, or any other person, arising out of: (a) improper selection, improper application or other misuse of Products purchased by Buyer from Seller; (b) any act or omission, negligent or otherwise, of Buyer; (c) Seller's use of patterns, plans, drawings, or specifications furnished by Buyer to manufacture Product; or (d) Buyer's failure to comply with these terms and conditions. Seller shall not indemnify Buyer under any circumstance except as otherwise provided.

13. Cancellations and Changes. Orders shall not be subject to cancellation or change by Buyer for any reason, except with Seller's written consent and upon terms that will indemnify, defend and hold Seller harmless against all direct, incidental and consequential loss or damage. Seller may change product features, specifications, designs and availability with notice to Buyer.

14. Limitation on Assignment. Buyer may not assign its rights or obligations under this agreement without the prior written consent of Seller.

15. Entire Agreement. This agreement contains the entire agreement between the Buyer and Seller and constitutes the final, complete and exclusive expression of the terms of the agreement. All prior or contemporaneous written or oral agreements or negotiations with respect to the subject matter are herein merged.

16. Waiver and Severability. Failure to enforce any provision of this agreement will not waive that provision nor will any such failure prejudice Seller's right to enforce that provision in the future. Invalidation of any provision of this agreement by legislation or other rule of law shall not invalidate any other provision herein. The remaining provisions of this agreement will remain in full force and effect.

17. Termination. This agreement may be terminated by Seller for any reason and at any time by giving Buyer thirty (30) days written notice of termination. In addition, Seller may by written notice immediately terminate this agreement for the following: (a) Buyer commits a breach of any provision of this agreement (b) the appointment of a trustee, receiver or custodian for all or any part of Buyer's property (c) the filing of a petition for relief in bankruptcy of the other Party on its own behalf, or by a third party (d) an assignment for the benefit of creditors, or (e) the dissolution or liquidation of the Buyer.

18. Governing Law. This agreement and the sale and delivery of all Products hereunder shall be deemed to have taken place in and shall be governed and construed in accordance with the laws of the State of Ohio, as applicable to contracts executed and wholly performed therein and without regard to conflicts of laws principles. Buyer irrevocably agrees and consents to the exclusive jurisdiction and venue of the courts of Cuyahoga County, Ohio with respect to any dispute, controversy or claim arising out of or relating to this agreement. Disputes between the parties shall not be settled by arbitration unless, after a dispute has arisen, both parties expressly agree in writing to arbitrate the dispute.

19. Indemnity for Infringement of Intellectual Property Rights. Seller shall have no liability for infringement of any patents, trademarks, copyrights, trade dress, trade secrets or similar rights except as provided in this Section. Seller will defend and indemnify Buyer against allegations of infringement of U.S. patents, U.S. trademarks, copyrights, trade dress and trade secrets ("Intellectual Property Rights"). Seller will defend at its expense and will pay the cost of any settlement or damages awarded in an action brought against Buyer based on an allegation that a Product sold pursuant to this Agreement infringes the Intellectual Property Rights of a third party. Seller's obligation to defend and indemnify Buyer is contingent on Buyer notifying Seller within ten (10) days after Buyer becomes aware of such allegations of infringement, and Seller having sole control over the defense of any allegations or actions including all negotiations for settlement or compromise. If a Product is subject to a claim that it infringes the Intellectual Property Rights of a third party, Seller may, at its sole expense and option, procure for Buyer the right to continue using the Product, replace or modify the Product so as to make it noninfringing, or offer to accept return of the Product and return the purchase price less a reasonable allowance for depreciation. Notwithstanding the foregoing, Seller shall have no liability for claims of infringement based on information provided by Buyer, or directed to Products delivered hereunder for which the designs are specified in whole or part by Buyer, or infringements resulting from the modification, combination or use in a system of any Product sold hereunder. The foregoing provisions of this Section shall constitute Seller's sole and exclusive liability and Buyer's sole and exclusive remedy for infringement of Intellectual Property Rights.

20. Taxes. Unless otherwise indicated, all prices and charges are exclusive of excise, sales, use, property, occupational or like taxes which may be imposed by any taxing authority upon the manufacture, sale or delivery of Products.

21. Equal Opportunity Clause. For the performance of government contracts and where dollar value of the Products exceed \$10,000, the equal employment opportunity clauses in Executive Order 11246, VEVRAA, and 41 C.F.R. §§ 60-1.4(a), 60-741.5(a), and 60-250.4, are hereby incorporated.

01/09

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