

FastTest[®]

Your Productivity Connection

Leak Test Connector Selection Guide



FastTest
Your Productivity Connection

Introduction to FasTest

Leak Testing Today ...

Since 1985, **FasTest** advanced engineering creates connecting solutions that are easier, safer and more reliable while dramatically lowering your operating costs. With **FasTest**, you can expect increased operational throughput and a fast return on your investment.

Tens of thousands of satisfied customers have made the switch from their inadequate, unproductive leak test connectors to our engineered testing and filling solutions.

FasTest products are used by every major automotive manufacturer, top appliance companies, medical device manufacturers, aerospace, power generation, plus hundreds of other industries throughout the world.

Our complete selection of engineers products combined with extensive experience and expertise allows us to help you specify the right connector for your application. Small differences can diminish the suitability of a connector for your application. At **FasTest** we can modify standard products to fit your specific needs or engineer a total custom test system.

Helpful Hint ...

Cumbersome leak testing methods using jury-rigged adapters, fittings and test jigs is time-consuming, unreliable and may be unsafe to your workers.

FasTest connecting tools are available in many configurations - each precision engineered to perform specific pressure and vacuum test and built to fit your testing and process requirements.

FasTest offers extensive expertise to help you arrive at the optimum solution for your application and workflow. With over 50 patents and as the acknowledged expert in the field, chances are we've solved an application like yours, no matter how challenging.

Do as thousands of others have done. Make the switch from older inadequate or homemade jury-rigged adapters to **FasTest** engineered testing and filling solutions.

Seal Materials ...

Selecting the right seal material is critical to the reliability of the connector and the amount of maintenance required. **FasTest** manufactured seals exhibit superior wear resistance and maintain its sealing properties.

FasTest offers neoprene, urethane, Viton, EPDM, Buna-N, and FDA white neoprene. Our seals are manufactured via **FasTest** proprietary process which is why our seals are more durable, longer lasting and create a better leak tight connection.



**“FI” & “FE” Series
Automated Tube / Thread**



Tech Info Page A4

**FasTest Internal “FI”
Automated Tube / Thread**



Internal “FI” Pages A11 - A15

**FasTest External “FE”
Automated Tube / Thread**



External “FE” Pages A16 - A22

**“ME” & “ML” Medical Series
Automated Tube / Luer**



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**Electronic Tool System - ETS
Automated Tube / Thread**



Pages C1 - C14

**“MIT” & “MET” TwistMate Series
Twist to Connect - Threads**



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**“FN” FasMate Series
for Internal Threads**



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**“JNL” & “JXL” Series, Grip and Seal
Smooth Tube Connectors**



Pages F1 - F6

**“ST” & “XT” Series, Grip and Seal
Smooth and Formed Tubes**



Pages G1 - G3

**“60” Series & “HPB” Series
Sleeve Actuated for Threads**



Pages H1 - H3

**Custom Connector Applications
Fittings, Tubes and More**



“MBE”
Series

“70”
Series

“FIG” Series

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Web Tools Search Tips:
Connectors, Replacement
Seals and Instructions, etc.

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detailed selection guides

FI - FE

ME - ML

ETS

TwistMate

FasMate

JNL - JXL

ST - XT

60 - HPB

Custom

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“ST” and “XT” - Smooth & Formed Tube Connectors

Technology Overview

The **ST Series** connectors make reliable, leak tight connections with straight tubes for evacuation or pressure applications such as leak testing, proof testing and processing. The ergonomic sliding sleeve operation makes an instant connection that is further enhanced by pressure and without operator adjustments.

Rugged, heat treated steel components provide excellent resistance to mechanical handling damage but are not recommended for water dunk applications. The mating seal is radially squeezed around the tube upon connection and it is easily replaced without disassembly. The unique collet locking mechanism resists removal under pressure for added safety.

The **XT Series** connectors provide quick and effortless connections for expanded tubing especially copper, steel, and aluminum tubes that are used with refrigerant based products. These connectors utilize redundant seals on the inside of the tube, which is enhanced by pressure, and a sleeve lock which resists removal under pressure and requires no operator adjustments.

The XT's are manufactured from hardened steel material with seals that can be quickly replaced, without disassembly, at your work center minimizing downtime, maintenance and tool inventory. Neoprene seals are standard for refrigerant based applications but they are available with any elastomer required for your application.

Features and Benefits

“ST Series”

- Fits straight tubing sizes 1/4", 5/16", 3/8"
- Seals vacuum to 1000 psi, -40°F to +250°F
- Reliable leak tight sealing to 10⁻⁷ cc/sec
- Durable, replaceable seals with no connector disassembly
- Heat treated steel body assures long life and protection against mechanical damage
- Positive gripping - No operator adjustments!



For Smooth / Swaged Tubes

“XT Series”

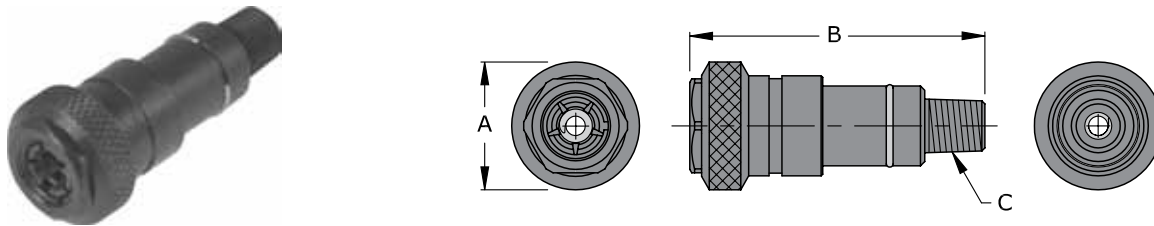
- Fits expanded tubing sizes 3/8", 1/2", 5/8", 3/4", 7/8"
- Seals vacuum to 625 psi, -40°F to +250°F
- Reliable leak tight sealing to 10⁻⁷ cc/sec
- Works well with tube size variation or rough cut ends
- Durable, replaceable seals with no connector disassembly
- Heat treated steel body assures long life and protection against mechanical damage
- Positive gripping - No operator adjustments!



For Formed / Expanded Tubes

“ST” and “XT” - Smooth & Formed Tube Connectors

FasTest “ST Series” - Connectors for External Smooth / Swaged Tubes

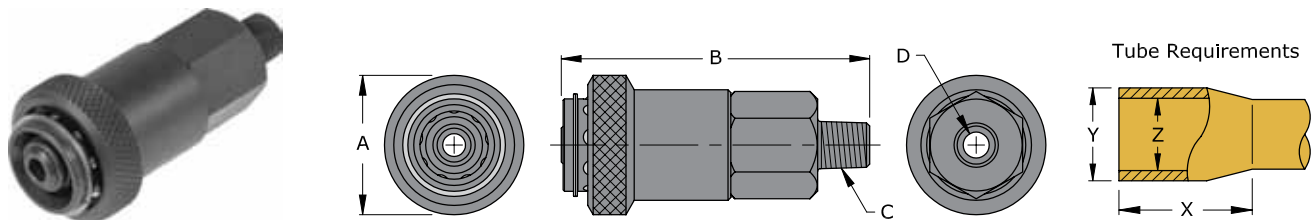


“ST Series” - Sleeve Actuated Connectors for Straight / Swaged Tubes

Part Number	Grip Size (+0.015”/-0.010”)	Rated PSI	Dim A	Dim B	Dim C	Insertion Depth	Seal Material	Replacement Collet Sets	Main Seals Package (5)
ST-04042	0.250”	Vacuum to 1000	1.14”	2.75”	1/4” NPT	0.62”	Neoprene	STC04	STB04
ST-05042	0.312”		1.19”					0.75”	STC05
ST-06042	0.375”		1.50”	3.23”		0.75”		STC06	STB06

Note: Not recommended for water dunk applications.

FasTest “XT Series” - Connectors for External Formed / Expanded Tubes



“XT Series” - Sleeve Actuated Connectors for Formed / Expanded Tubes

Part Number	Grip Size (±0.010”)	Rated PSI	Dim A	Dim B	Dim C	Flow Ø Dim D	Dim X	Dim Y	Dim Z	Seal Material	Repair Kit	Main Seals Package (5)
XT-06042	0.375”	Vacuum to 625	1.25”	3.31”	1/4” NPT	0.12”	0.30”-1.00”	0.500”	0.368”	Neoprene	XTR06	XTB06
XT-08042	0.500”		1.37”			0.22”		0.625”	0.491”		XTR08	XTB08
XT-10042	0.625”		1.50”	3.33”		0.25”	0.730”	0.616”	XTR10		XTB10	
XT-12042	0.750”		1.62”			0.27”			0.858”		0.741”	XTR12
XT-14042	0.875”		1.72”			0.28”	0.996”	0.867”				XTR14

Note: Not recommended for water dunk applications.

ST - XT

Need assistance finding replacement seals or collets for your ST or XT connectors?

- Visit www.fastestinc.com and enter a part number in the “Search Part Number” field
- Click the “Learn More” button

1 results returned. The results include connectors and accessories (e.g., bulk seals and repair kits)
 » Select one or more features of your connector application from the left column to narrow your search or enter a partial or complete part number in the Search Part Number box in the header above. Click to view advanced search options


Your Selections **Part Number Search: XT-08042**

Application
 Manufacturing (1)
 Refrigeration (1)

Connection Type
 External Tubes (1)

Connects To
 0.500" (1)

Pressure Rating
 625 (1)





XT-08042
 Connect to outside diameter of 1/2" expanded tubes +/- 0.010", sleeve actuated, 625 psi. Neoprene seals

Product Family	Connection Type	Connection Method
XT Series	External Tubes	Sleeve Actuated
Connects To	Pressure Rating	Termination
0.500"	625	1/4" NPT (Male)

On-line Price: \$314.00

[LEARN MORE](#) [ADD TO CART](#) [ADD TO QUOTE](#)

- Select the “Related Products” tab to display seals and replacement collets for the connector





XT-08042 On-line Price \$314.00
 Connect to outside diameter of 1/2" expanded tubes +/- 0.010", sleeve actuated, 625 psi. Neoprene seals

Product Family	Connection Type	Connection Method
XT Series	External Tubes	Sleeve Actuated
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0.500"	625	1/4" NPT (Male)


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Overview Specifications Instructions CAD Models **Related Products**



XTR08
 Repair kit for XT-08042 connector

[LEARN MORE](#)



XTB08
 Bulk pack - 5 seal replacements for XT-08042.
 Neoprene

[LEARN MORE](#)

Connector Refurbishment Program

ReConnect



Extend the service life and warranty of your investment - Our connector refurbishment and competitor replacement program delivers the latest product improvements and ensures proper connector operation and performance in your application. Connectors routinely maintained can be refurbished or replaced economically relative to the cost of a new connector replacement.

Visit www.fastestinc.com or contact **FasTest** for details.

Warranty

Limited Express Warranty

FasTest Inc. warrants its products against defects in workmanship and materials for 12 months from the date of sale by FasTest Inc. or its authorized distributors. This warranty is void if the product is misused, tampered with or used in a manner that is contrary to FasTest Inc.'s written recommendations and/or instructions.

FasTest Inc. does not warrant the suitability of the product for any particular application. Determining product application suitability is solely the customer's responsibility. FasTest Inc. is not liable for consequential or other damages including, but not limited to, loss, damage, personal injury, or any other expense directly or indirectly arising from the use of or inability to use its products either separately or in combination with other products.

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The sole and exclusive remedy under this warranty is limited to replacement of the product or an account credit in the amount of the original selling price, at the option of FasTest Inc. All allegedly defective products must be returned prepaid transportation to FasTest Inc., together with information describing the product's performance, unless disposition in the field is authorized in writing by FasTest Inc.

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Notifications and Copyright

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Calibration Connectors

The **FasCal** complete line of plug and play connectors for lab and field instrument calibration without the use of tapes, sealants and wrenches.



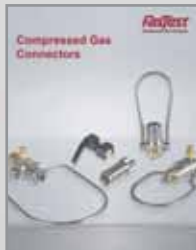
Medical Connectors

Versatile product line of connectors and systems for sealing and testing a wide variety of medical products and drug delivery devices.



Refrigeration Connections

The **CoreMax** system of high flow processing valves and connectors for the refrigeration manufacturing and service industry.



Compressed Gas Connectors

Innovative gas connectors for common CGA standards used in conventional and residual pressure valve filling applications.

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