

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**



Pages E1 - E11

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



Pages F1 - F6

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



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



Pages H1 - H3

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



“MBE” Series

“70” Series

“FIG” Series

Pages J1 - J6

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

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*See section pages for
detailed selection guides

FI - FE

ME - ML

ETS

TwistMate

FasMate

JNL - JXL

ST - XT

60 - HPB

Custom

Index



FasTest's ETS is an electronic sealing device for leak test applications requiring ultimate seal control and clean operation. Our full featured drive systems provide Serial, Ethernet or DeviceNet communication for data acquisition and seamless integration into automated leak test systems.



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- **Eliminate the mess**, clutter and potential contamination from traditional air control devices
- **Ultimate seal control** via the drive tool which receives its drive signal from the control unit
- **Serial, Ethernet or DeviceNet** communication allows remote monitoring or data acquisition capability

ETS



Laptop / PLC Controller

- Optional, customer supplied

Serial or Ethernet Interface - Customer Supplied

- Actuate Tool from Laptop or PLC controller
- Communication of Tool status
- Remotely monitor and or change Tool settings

Control Cable (I/O cable)

- 4-wire cable available in 2, 4 or 6 meter lengths
- For actuation of Tool with external switch / contacts such as foot switch

Power Cord

- 120 VAC input to Controller

Controller

- Controls Tool operation and sealing force
- Monitor and/or change tool settings

Why Choose Electric over Pneumatic?

Simplify Your Pressure & Leak Test Procedures

Do you want seal control?

- With the ETS controller, you “dial in” a repeatable sealing force from a soft touch for delicate parts to a firm grip for work holding.
- Safe. “Locks on”, even with loss of power.

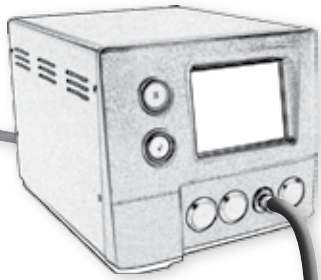
Do you want easier system integration?

- I/O M12 connection and / or optional Serial, Ethernet or DeviceNet communication allows remote operation, monitoring and data acquisition.
- Plug & Play installation. Simply plug in, make the M12 cable connections and go!

Do you want clean, robust operation?

- 24 VDC eliminates contaminants & moisture found with compressed air systems.
- Elimination of internal seals that wear and fail.

Testing Methods	Pneumatic	Electronic
Water dunk	✓	
Bubble leak	✓	✓
Helium/Tracer gas		✓
Pressure decay		✓
Proof testing		✓
Flow testing	✓	✓
General Overview	Pneumatic	Electronic
Ease of use	✓	✓
Speed of actuation	✓	
Sealing force - light to heavy		✓
Gripping ability		✓
Elimination of seal creep		✓
Elimination of internal leakage		✓
Reduced energy consumption		✓
Integration into control system (PLC)		✓
Data collection		✓
Versatility		✓
Clean operation		✓



Leak Test Instrument - Customer Supplied

- ETS easily integrates into most leak test systems for manual, semi or fully automated testing

ETS Internal Sealing Tool

- Sealing range from 0.310" to 1.339" ID's
- Test pressures from Vacuum to 120 psi
- 24 VDC

Test Media Connection - Customer Supplied

- Connection from pressure source to Tool
- For monitoring test status



Tool Cable

- Powers the Tool
- Available in 2, 4 or 6 meter lengths

ETS External Sealing Tool

- Sealing range from 0.030" to 0.827" OD's
- Test pressures from vacuum to 500 psi.
- 24 VDC



ETS

Applications



Female Luer Connector

The ETS seals directly over the luer thread. Our proprietary FDA grade seal material is exceptionally durable. The same ETS Tool can seal all female luer styles.



Plastic Molded Parts

Plastic Molded Parts often have a flashing / parting line that requires elevated seal force. The ETS has the equivalent seal force of up to 600 psi pilot pressure.



Lumens & Medical Connections

Lumens and Medical Connections come in numerous designs and sizes. The ETS provides the greatest ability to seal without damage or occlusion. Designs are available to provide internal support as needed for improved testing.



Automation Pick - Test - Place.

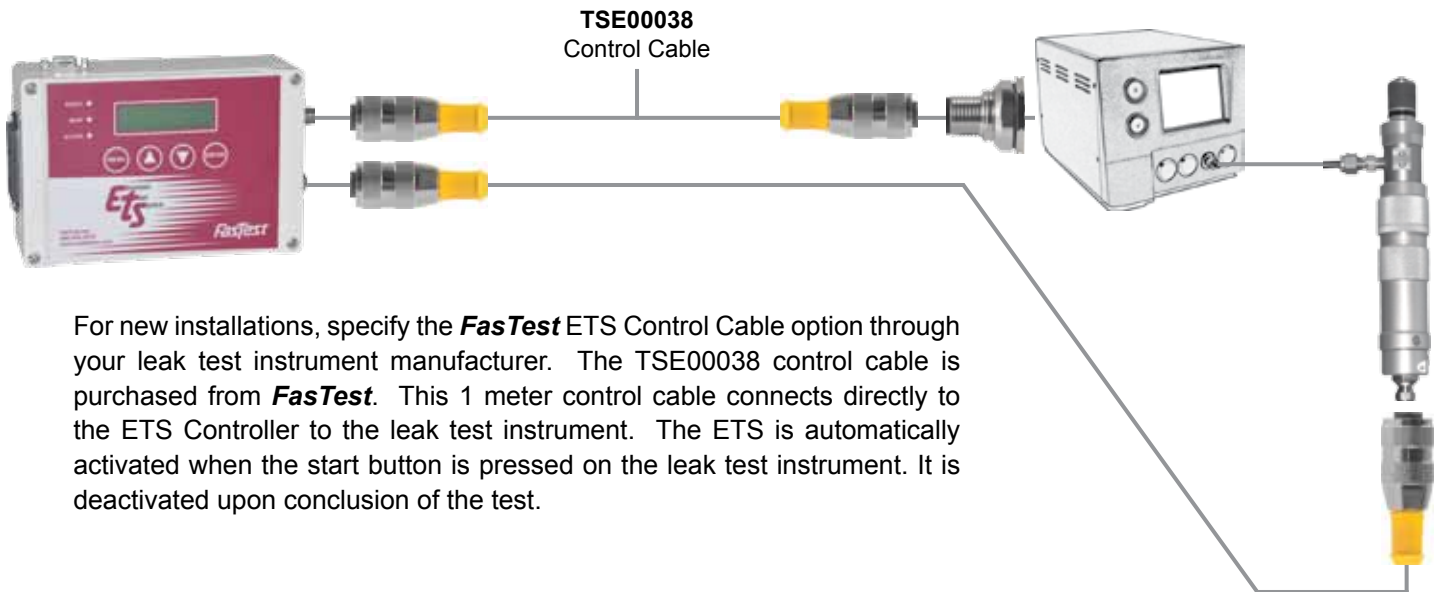
The ETS is easily automated and can be a superior end effector. Our wear resistant seal will form to grip and seal the part for testing and pick and place.

System Integration with Leak Test Instrument

FasTest provides two options for easy integration of the ETS sealing system for new and existing installations that utilize control features currently available through the leak test instrument manufacturer. Leak test instrument manufacturers offer a M12 cable connection to operate the ETS or pilot signal for controlling clamp valves.

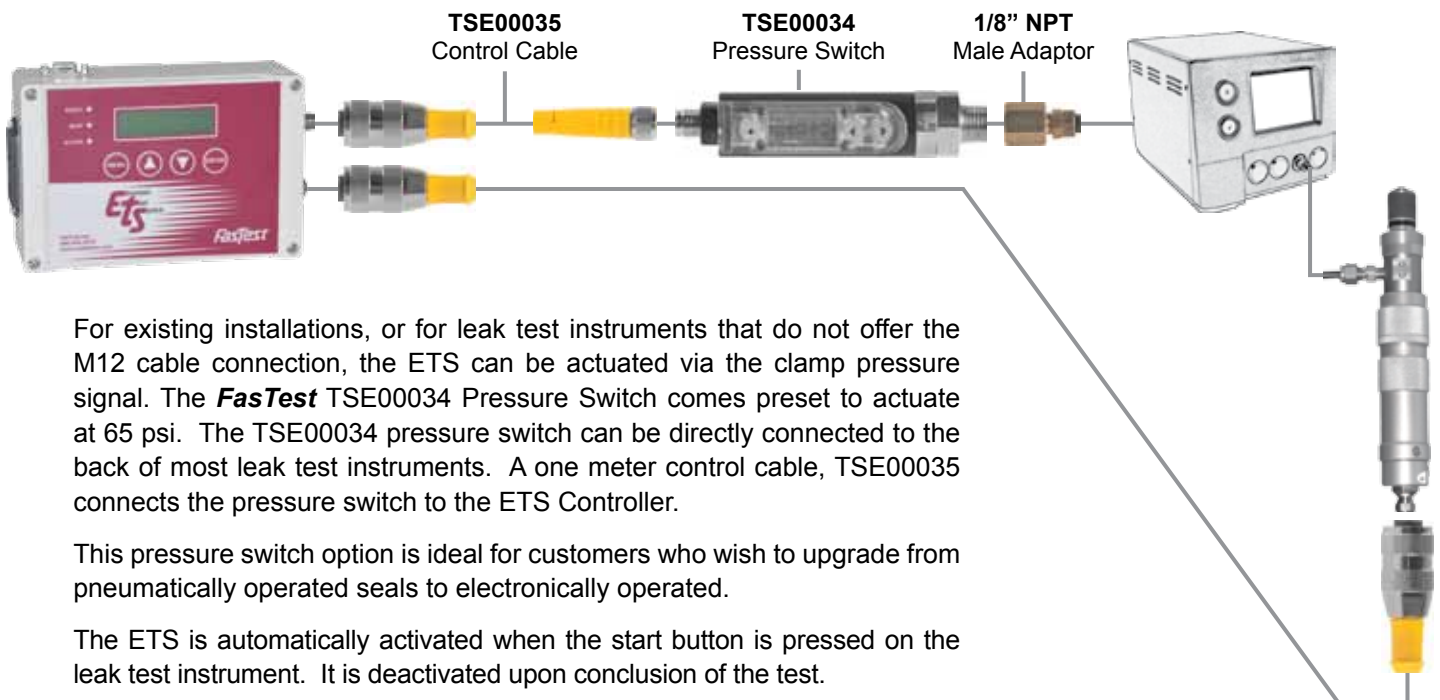
Listed below is explanation describing each installation option.

Installation Option 1: Control Cable



For new installations, specify the **FasTest** ETS Control Cable option through your leak test instrument manufacturer. The TSE00038 control cable is purchased from **FasTest**. This 1 meter control cable connects directly to the ETS Controller to the leak test instrument. The ETS is automatically activated when the start button is pressed on the leak test instrument. It is deactivated upon conclusion of the test.

Installation Option 2: Pressure Switch



For existing installations, or for leak test instruments that do not offer the M12 cable connection, the ETS can be actuated via the clamp pressure signal. The **FasTest** TSE00034 Pressure Switch comes preset to actuate at 65 psi. The TSE00034 pressure switch can be directly connected to the back of most leak test instruments. A one meter control cable, TSE00035 connects the pressure switch to the ETS Controller.

This pressure switch option is ideal for customers who wish to upgrade from pneumatically operated seals to electronically operated.

The ETS is automatically activated when the start button is pressed on the leak test instrument. It is deactivated upon conclusion of the test.

System Integration with Leak Test Instrument

How to Order:

Option 1: Control Cable

For installations with new leak test instrument purchase

- Specify the **ETS M12 Cable Connection Option** with the leak test instrument manufacturer.
- Purchase from **FasTest TSE00038 Control Cable** when ordering your ETS system.

Option 2: Pressure Switch

For existing applications in which leak test instrument has clamp valve feature, purchase from **FasTest TSE00035 Pressure Switch and TSE00035 Control Cable**.

Installation and Operational instructions provided with the pressure switch.

Controller Specifications



100, 200 and 300 Series

ETS-100

Most basic model. The system is pre-configured at the factory to support one tool type. The user is able to adjust drive current setpoint via single turn potentiometer. Tool activation is achieved by closing a switch connected to the I/O port on the control unit.

ETS-200

Same feature set as ETS-100 series models, plus the addition of a communication port for remote connection and automation, and a tool status relay for feedback.

ETS-300

Fully featured models. Devices include a keypad, backlit display, and status indicator LED's on front panel. User can select any supported tool type and size.

Specifications:

- Approx. - 7.1" x 4.75" x 2.5" (L x W x H) ABS
- 120 VAC operation
- Tool and Controller options based on customer specifications

I/O Options:

- Clamp Valve / Pressure Switch - 1/8" NPT female connection
Max pressure input is 75 psi
- M12 – Direct interface to leak test instrument
Leak test instrument pin-out instructions available on request
- Custom configured Tools to match customer's application



400 Series

The ETS400 Riser Series can incorporate from 1 to 4 ETS Tool(s) including Controller and cables into one compact rugged enclosure. As a complete fully functioning fixture, the ETS 400 Riser can significantly reduce the time and costs associated with custom build or self made leak test fixturing.

As a stand alone fixture, or easily incorporated with new or existing leak test instruments, the ETS 400 Riser can operated each Tool concurrently or simultaneously. Touch pad display to configure and monitor Tool status.

Our unique "Plug & Play" installation is specifically designed for use with compact leak test instruments. Simply place the Riser on top of a bench or workstation, plug into power outlet, place your leak test instrument on top of Riser, make the test media connections, make the clamp valve or M12 I/O connection and start testing!

Specifications:

- Approx. - 14" x 12" x 7" (L x W x H) Polycarbonate
- 120 VAC operation
- Tool and Controller options based on customer specifications

I/O Options:

- Clamp Valve / Pressure Switch - 1/8" NPT female connection
Max pressure input is 75 psi
- M12 – Direct interface to leak test instrument
Leak test instrument pin-out instructions available on request
- Start Push Button(s)
1 to 4 start buttons for simultaneous or concurrent operation.
Set up per customers request
- Custom configured Tools to match customer's application

ETS Series Part Number Keys

Controller Part Number Key



System

Electronic Tool System

System Component

Controller unit

Controller Version

Special 5 Digit Configuration Code

Blank = None
Example - 01234, etc.

Factory Configured with Momentary Contact for Tool Actuation

- 100** - Manually adjustable for minimum to maximum seal movement, M12 (4-pin) connection for tool actuation and tool status relay
- 200** - Same as version 100, plus RS232 serial port connection for tool status and remote tool actuation
- 201** - Same as version 100, plus Ethernet connection for tool status and remote tool actuation
- 202** - Same as version 100, plus DeviceNet connection for tool status and remote tool actuation

Factory Configured with Continual Contact for Tool Actuation

- 110** - Same as 100 with continuously closed contact for tool actuation
- 210** - Same as 200 with continuously closed contact for tool actuation
- 211** - Same as 201 with continuously closed contact for tool actuation
- 212** - Same as 202 with continuously closed contact for tool actuation

Field Configurable

- 300** - Keypad and display to configure all ETS tools
Digitally adjustable for minimum to maximum seal movement
Select either continual or momentary contact for tool actuation
3 LED tool status lights, M12 (4-pin) connection for tool actuation and tool status relay, RS232 serial port connection for tool configuration and actuation
- 301** - Same as version 300 plus Ethernet connection for remote tool configuration and actuation
- 302** - Same as version 300 plus DeviceNet connection for remote tool configuration and actuation

Factory Configured with 1 to 4 Tools*

- 4001** - Riser base for (1) tool
Keypad and display to configure all ETS tools
Digitally adjustable for minimum to maximum seal movement
Select either continual or momentary contact for tool actuation
- 4001P** - Same as 4001 with pressure switch tool actuation
- 4002** - Riser base for (2) tools, same functions as 4001
- 4002P** - Riser base for (2) tools, same as 4002 with pressure switch tool actuation
- 4003** - Riser base for (3) tools, same functions as 4001
- 4001P** - Riser base for (3) tools, same as 4003 with pressure switch tool actuation
- 4004** - Riser base for (4) tools, same functions as 4001
- 4004P** - Riser base for (4) tools, same as 4004 with pressure switch tool actuation

* The 400 Series Riser and Controller is factory configured to your application and leak test instrument requirements. Please contact the factory for application assistance and control options.

ETS Series Part Number Keys

Tool Part Number Key



System

Electronic Tool System

Tool Size Identifier

- 1 - Tool size 1 (ø22 mm)
- 2 - Tool size 2 (ø33 mm)

Type of Connection / Sealing

- E - External seal
- I - Internal seal

Special 5 Digit Configuration Code

Blank = None
Example - 01234, etc.

Seal Material

- Blank - Neoprene main seal / Viton body seal(s)
- U - Urethane main seal / Viton body seal(s)
- M - Medical grade Neoprene main seal / Viton internal body seal(s)

Sealing Range - E Type	Sealing Range - E Type	Sealing Range - I Type	Sealing Range - I Type
Tool Size 1 Smooth Tube 0050 - 0.030" to 0.050" 0080 - 0.050" to 0.080" 0130 - 0.080" to 0.130"	Tool Size 2 Smooth Tube 0180 - 0.100" to 0.180" 0260 - 0.180" to 0.260" 0340 - 0.260" to 0.340" 0420 - 0.340" to 0.420" 0510 - 0.420" to 0.510" 0512 - 0.433" to 0.512" 0591 - 0.512" to 0.591" 0669 - 0.591" to 0.669" 0750 - 0.669" to 0.750" 0827 - 0.750" to 0.827"	Tool Size 1 Smooth Tube 0310 - 0.310" to 0.330" 0330 - 0.330" to 0.394" Threaded T012 - 1/8"	Tool Size 2 Smooth Tube 0394 - 0.394" to 0.472" 0472 - 0.472" to 0.551" 0551 - 0.551" to 0.630" 0630 - 0.630" to 0.709" 0709 - 0.709" to 0.787" 0787 - 0.787" to 0.866" 0866 - 0.866" to 0.945" 0945 - 0.945" to 1.024" 1024 - 1.024" to 1.102" 1102 - 1.102" to 1.181" 1181 - 1.181" to 1.260" 1260 - 1.260" to 1.339"
	Threaded T012 - 1/8" T025 - 1/4" T038 - 3/8"		Threaded T025 - 1/4" T038 - 3/8" T050 - 1/2" T075 - 3/4" T100 - 1"

Cable Part Number Key



System

Electronic Tool System

Cable Type

- CC - I/O Control cable, M12 (4-pin) single ended female
- TC - Tool cable, M12 (4-pin) male to female extension

Special 5 Digit Configuration Code

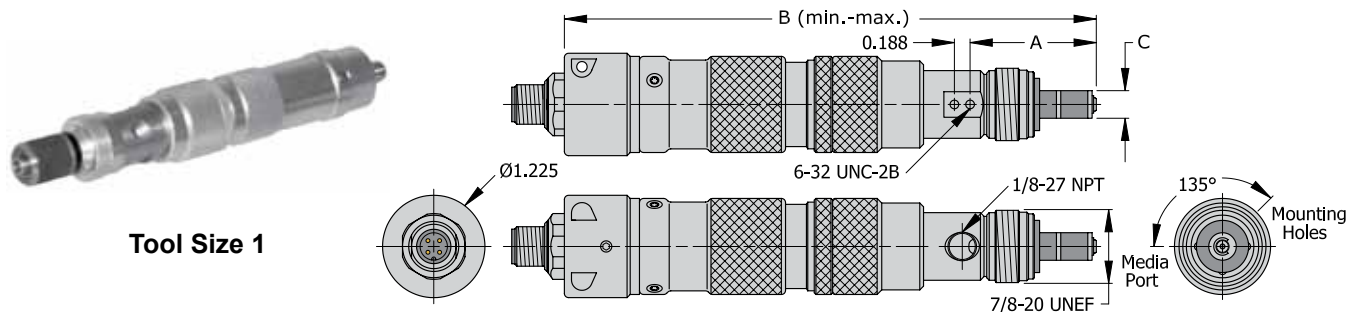
Blank = None
Example - 01234, etc.

Cable Length

2M = 2 meters; 4M = 4 meters; 6M = 6 meters
Additional lengths available, consult factory

Electronic Tool System (ETS)

FasTest ETS Internal - Connectors for Internal Tubes and Threads



Internal "I Type" Connectors for Smooth Tubes - Neoprene Seals

Part Number	Sealing Range	Dim A	Dim B	Dim C	Seal Material	Main Seal Set*	Main Seals Package (5)
ETS-1I-0310	0.310"-0.330"	1.506"	6.838"-6.593"	0.300"	Neoprene	FIS01-0300	FIB01-0300
ETS-1I-0330	0.330"-0.394"			0.330"		FIS01-01	FIB01-01

Internal "I Type" Connectors for Smooth Tubes - Urethane Seals

Part Number	Sealing Range	Dim A	Dim B	Dim C	Seal Material	Main Seal Set*	Main Seals Package (5)
ETS-1I-0310-U	0.310"-0.330"	1.506"	6.838"-6.593"	0.300"	Urethane	FIS01-0300UR	FIB01-0300UR
ETS-1I-0330-U	0.330"-0.394"			0.330"		FIS01-01UR	FIB01-01UR

Internal "I Type" Connectors for Threads - Urethane Seals

Part Number	Sealing Range	Dim A	Dim B	Dim C	Seal Material	Main Seal Set*	Main Seals Package (5)
ETS-1I-T012	1/8" NPT	1.506"	6.838"-6.593"	0.330"	Urethane	FIS01-1/8NPT	FIB01-1/8NPT

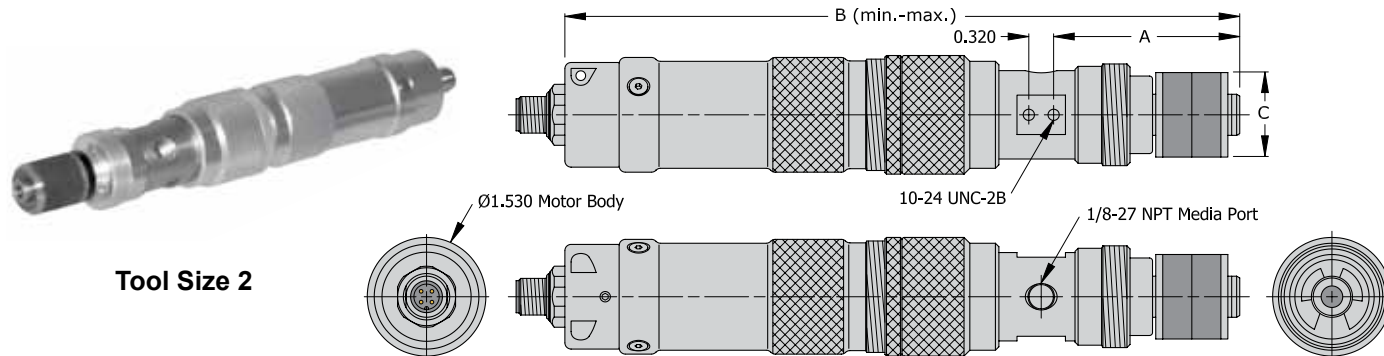
Housing Materials: Stainless steel and clear anodized aluminum

Body Seal(s) Viton

*Includes seal(s) and metal parts for one complete seal change.

Electronic Tool System (ETS)

FasTest ETS Internal - Connectors for Internal Tubes and Threads



Tool Size 2

ETS

Internal "I Type" Connectors for Smooth Tubes - Neoprene Seals

Part Number	Sealing Range	Dim A	Dim B	Dim C	Seal Material	Main Seal Set*	Main Seals Package (5)
ETS-2I-0394	0.394"-0.472"	1.900"	8.800"-8.440"	0.382"	Neoprene	FIS1-11	FIB1-11
ETS-2I-0472	0.472"-0.551"			0.460"		FIS1-12	FIB1-12
ETS-2I-0551	0.551"-0.630"			0.539"		FIS1-13	FIB1-13
ETS-2I-0630	0.630"-0.709"			0.618"		FIS2-21	FIB2-21
ETS-2I-0709	0.709"-0.787"			0.697"		FIS2-22	FIB2-22
ETS-2I-0787	0.787"-0.866"			0.775"		FIS2-23	FIB2-23
ETS-2I-0866	0.866"-0.945"	2.400"	9.300"-8.940"	0.854"		FIS3-31	FIB3-31
ETS-2I-0945	0.945"-1.024"			0.933"		FIS3-32	FIB3-32
ETS-2I-1024	1.024"-1.102"			1.012"		FIS3-33	FIB3-33
ETS-2I-1102	1.102"-1.181"			1.090"		FIS4-41	FIB4-41
ETS-2I-1181	1.181"-1.260"			1.169"		FIS4-42	FIB4-42
ETS-2I-1260	1.260"-1.339"			1.248"		FIS4-43	FIB4-43

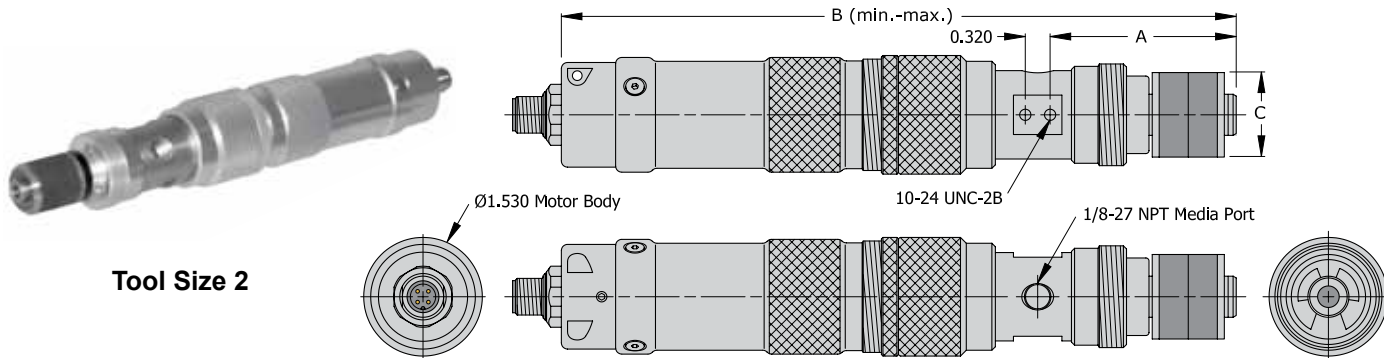
Housing Materials: Stainless steel and clear anodized aluminum

Body Seal(s) Viton

*Includes seal(s) and metal parts for one complete seal change.

Electronic Tool System (ETS)

FasTest ETS Internal - Connectors for Internal Tubes and Threads



Internal "I Type" Connectors for Smooth Tubes - Urethane Seals

Part Number	Sealing Range	Dim A	Dim B	Dim C	Seal Material	Main Seal Set*	Main Seals Package (5)
ETS-2I-0394-U	0.394"-0.472"	1.900"	8.800"-8.440"	0.382"	Urethane	FIS1-11UR	FIB1-11UR
ETS-2I-0472-U	0.472"-0.551"			0.460"		FIS1-12UR	FIB1-12UR
ETS-2I-0551-U	0.551"-0.630"			0.539"		FIS1-13UR	FIB1-13UR
ETS-2I-0630-U	0.630"-0.709"			0.618"		FIS2-21UR	FIB2-21UR
ETS-2I-0709-U	0.709"-0.787"			0.697"		FIS2-22UR	FIB2-22UR
ETS-2I-0787-U	0.787"-0.866"			0.775"		FIS2-23UR	FIB2-23UR
ETS-2I-0866-U	0.866"-0.945"	2.400"	9.300"-8.940"	0.854"		FIS3-31UR	FIB3-31UR
ETS-2I-0945-U	0.945"-1.024"			0.933"		FIS3-32UR	FIB3-32UR
ETS-2I-1024-U	1.024"-1.102"			1.012"		FIS3-33UR	FIB3-33UR
ETS-2I-1102-U	1.102"-1.181"			1.090"		FIS4-41UR	FIB4-41UR
ETS-2I-1181-U	1.181"-1.260"			1.169"		FIS4-42UR	FIB4-42UR
ETS-2I-1260-U	1.260"-1.339"			1.248"		FIS4-43UR	FIB4-43UR

Internal "I Type" Connectors for Threads - Urethane Seals

Part Number	Sealing Range	Dim A	Dim B	Dim C	Seal Material	Main Seal Set*	Main Seals Package (5)
ETS-2I-T025	1/4" NPT	1.900"	8.800"-8.440"	0.425"	Urethane	FIS1-1/4NPT	FIB1-1/4NPT
ETS-2I-T038	3/8" NPT			0.560"		FIS2-3/8NPT	FIB2-3/8NPT
ETS-2I-T050	1/2" NPT			0.690"		FIS2-1/2NPT	FIB2-1/2NPT
ETS-2I-T075	3/4" NPT	2.400"	9.300"-8.940"	0.890"		FIS3-3/4NPT	FIB3-3/4NPT
ETS-2I-T100	1" NPT			1.125"		FIS4-1NPT	FIB4-1NPT

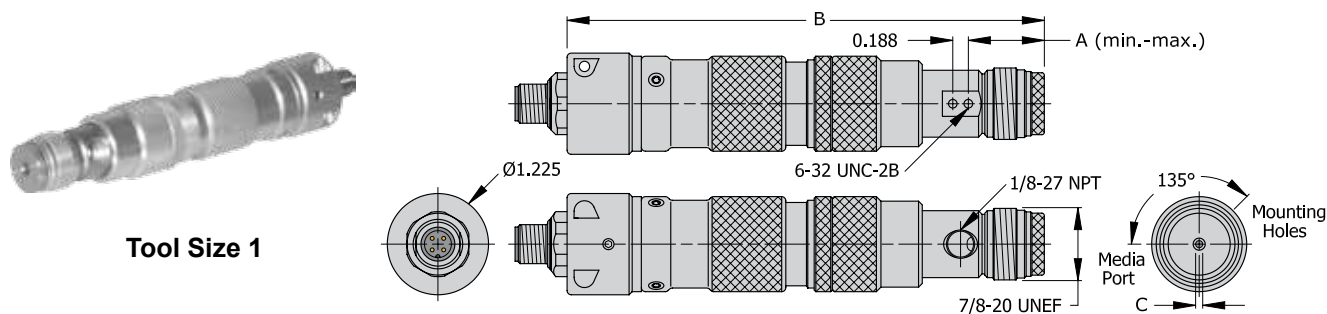
Housing Materials: Stainless steel and clear anodized aluminum

Body Seal(s) Viton

*Includes seal(s) and metal parts for one complete seal change.

Electronic Tool System (ETS)

FasTest ETS External - Connectors for External Tubes and Threads



Tool Size 1

External “E Type” Connectors for Smooth Tubes - Neoprene Seals

Part Number	Sealing Range	Dim A	Dim B	Dim C	Seal Material	Main Seal Set*	Main Seals Package (5)
ETS-1E-0050	0.030"-0.050"	0.936"-1.150"	6.238"	0.050"	Neoprene	ETS-S0050	FEB001-0050
ETS-1E-0080	0.050"-0.080"	0.906"-1.150"		0.086"		ETS-S0080	FEB001-001
ETS-1E-0130	0.080"-0.130"	0.936"-1.150"		0.136"		ETS-S0130	FEB001-002

External “E Type” Connectors for Smooth Tubes - Medical Viton Seals

Part Number	Sealing Range	Dim A	Dim B	Dim C	Seal Material	Main Seal Set*	Main Seals Package (5)
ETS-1E-0050-M	0.030"-0.050"	0.936"-1.150"	6.238"	0.050"	Medical Viton	ETS-S0050M	MEB001-0050
ETS-1E-0080-M	0.050"-0.080"	0.906"-1.150"		0.086"		ETS-S0080M	MEB001-001
ETS-1E-0130-M	0.080"-0.130"	0.936"-1.150"		0.136"		ETS-S0130M	MEB001-002

Housing Materials: Stainless steel and clear anodized aluminum

Body Seal(s) Viton

*Includes seal(s) and metal parts for one complete seal change.

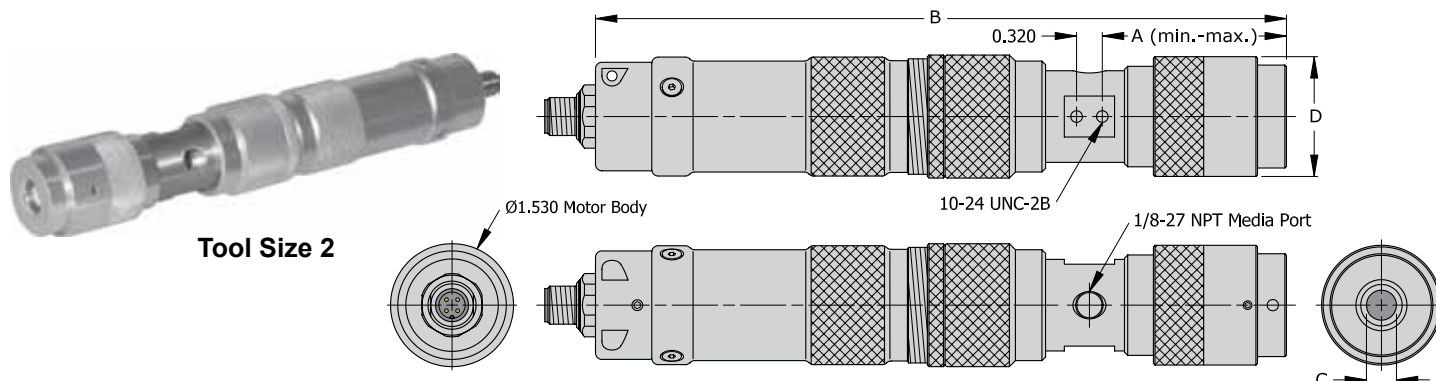
ETS



- Connects to Internal Tubes / Threads



- Connects to External Tubes / Threads

Electronic Tool System (ETS)**FasTest ETS External - Connectors for External Tubes and Threads****External “E Type” Connectors for Smooth Tubes - Neoprene Seals**

Part Number	Sealing Range	Dim A	Dim B	Dim C	Dim D	Seal Material	Main Seal Set*	Main Seals Package (5)
ETS-2E-0180	0.100"-0.180"	2.170"-2.530"	9.071"	0.190"	1.490"	Neoprene	FES01-01	FEB01-01
ETS-2E-0260	0.180"-0.260"			0.270"			FES01-02	FEB01-02
ETS-2E-0340	0.260"-0.340"			0.350"			FES01-03	FEB01-03
ETS-2E-0420	0.340"-0.420"			0.430"			FES01-04	FEB01-04
ETS-2E-0510	0.420"-0.510"			0.520"			FES01-05	FEB01-05
ETS-2E-0512	0.433"-0.512"	2.410"-2.770"	9.311"	0.524"	2.220"		FES1-15	FEB1-15
ETS-2E-0591	0.512"-0.591"			0.603"			FES1-16	FEB1-16
ETS-2E-0669	0.591"-0.669"			0.679"			FES1-17	FEB1-17
ETS-2E-0750	0.669"-0.750"			0.760"			FES1-18	FEB1-18
ETS-2E-0827	0.750"-0.827"			0.839"			FES1-19	FEB1-19

External “E Type” Connectors for Smooth Tubes - Medical Viton Seals

Part Number	Sealing Range	Dim A	Dim B	Dim C	Dim D	Seal Material	Main Seal Set*	Main Seals Package (5)
ETS-2E-0180-M	0.100"-0.180"	2.170"-2.530"	9.071"	0.190"	1.490"	Medical Viton	MES01-01	MEB01-01
ETS-2E-0260-M	0.180"-0.260"			0.270"			MES01-02	MEB01-02
ETS-2E-0340-M	0.260"-0.340"			0.350"			MES01-03	MEB01-03
ETS-2E-0420-M	0.340"-0.420"			0.430"			MES01-04	MEB01-04
ETS-2E-0510-M	0.420"-0.510"			0.520"			MES01-05	MEB01-05

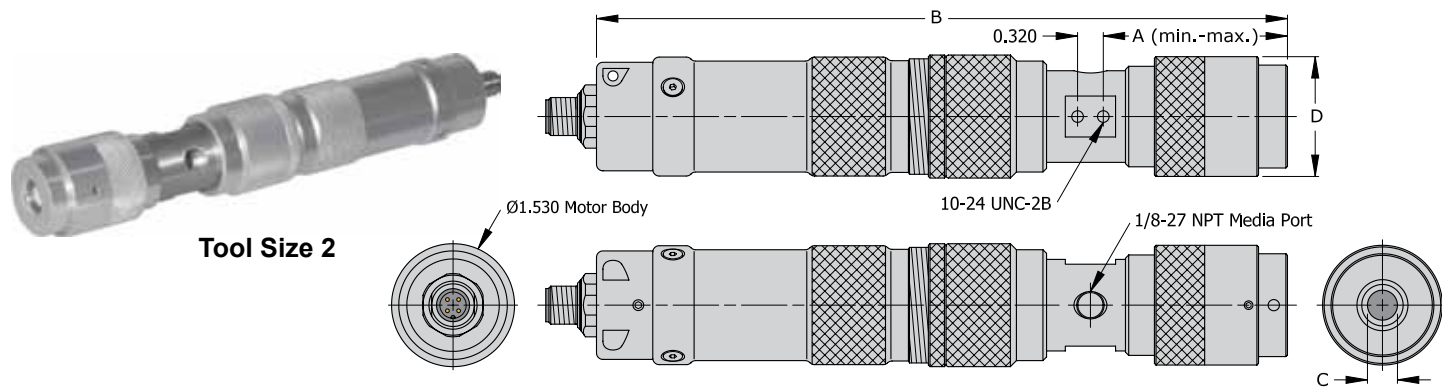
Housing Materials: Stainless steel and clear anodized aluminum

Body Seal(s) Viton

*Includes seal(s) and metal parts for one complete seal change.

Electronic Tool System (ETS)

FasTest ETS External - Connectors for External Tubes and Threads



External “E Type” Connectors for Smooth Tubes - Urethane Seals

Part Number	Sealing Range	Dim A	Dim B	Dim C	Dim D	Seal Material	Main Seal Set*	Main Seals Package (5)
ETS-2E-0180-U	0.100"-0.180"	2.170"-2.530"	9.071"	0.190"	1.490"	Urethane	FES01-01UR	FEB01-01UR
ETS-2E-0260-U	0.180"-0.260"			0.270"			FES01-02UR	FEB01-02UR
ETS-2E-0340-U	0.260"-0.340"			0.350"			FES01-03UR	FEB01-03UR
ETS-2E-0420-U	0.340"-0.420"			0.430"			FES01-04UR	FEB01-04UR
ETS-2E-0510-U	0.420"-0.510"			0.520"			FES01-05UR	FEB01-05UR
ETS-2E-0512-U	0.433"-0.512"	2.410"-2.770"	9.311"	0.524"	2.220"		FES1-15UR	FEB1-15UR
ETS-2E-0591-U	0.512"-0.591"			0.603"			FES1-16UR	FEB1-16UR
ETS-2E-0669-U	0.591"-0.669"			0.679"			FES1-17UR	FEB1-17UR
ETS-2E-0750-U	0.669"-0.750"			0.760"			FES1-18UR	FEB1-18UR
ETS-2E-0827-U	0.750"-0.827"			0.839"			FES1-19UR	FEB1-19UR

External “E Type” Connectors for Threads - Urethane Seals

Part Number	Sealing Range	Dim A	Dim B	Dim C	Dim D	Seal Material	Main Seal Set*	Main Seal Package (5)
ETS-2E-T012	1/8" NPT	2.170"-2.530"	9.071"	0.410"	1.490"	Urethane	FES01-1/8NPT	FEB01-1/8NPT
ETS-2E-T025	1/4" NPT	2.410"-2.770"	9.311"	0.550"	2.220"		FES1-1/4NPT	FEB1-1/4NPT
ETS-2E-T038	3/8" NPT			0.679"			FES1-3/8NPT	FEB1-3/8NPT

Housing Materials: Stainless steel and clear anodized aluminum

Body Seal(s) Viton

*Includes seal(s) and metal parts for one complete seal change.

Accessories

Foot Mounting Brackets



The Foot Bracket securely holds the Tool by clamping around the outside diameter. There are optional mounting holds within the midsection of the Tool. Refer to installation instructions or contact **FasTest** for assistance.



TS1901
Tool Size 1



TS2901
Tool Size 2

Typical ETS 400 Installation

Compact Leak Test Instrument



The ETS 400 can incorporate from 1 to 4 ETS Tools into one compact rugged enclosure. Our unique "Plug & Play" installation is specifically designed for use with compact leak test instruments.

Simply place the ETS 400 on top of a bench or workstation, place your leak test instrument on top, make the test media connection(s), make the clamp valve or optional M12 I/O connection and start testing!

The ETS 400 is typically configured to meet application requirements, consult factory with details regarding your application.

ETS 400 Riser Configuration with 4 Type E, Size 2 Tools

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.

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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.



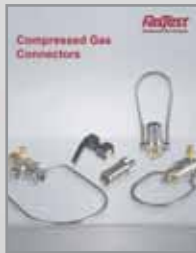
Medical Connectors

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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