



TOOLS & SYSTEMS

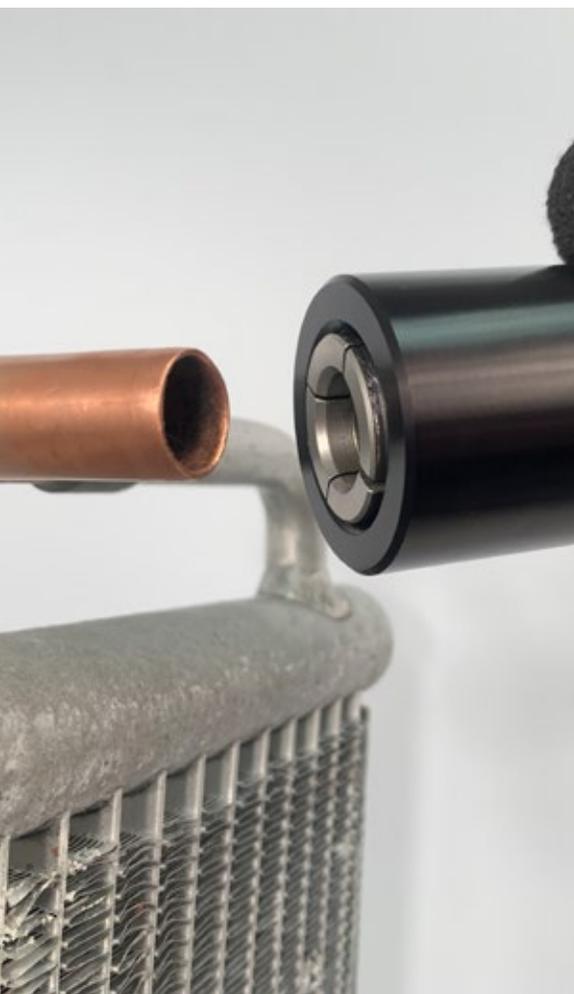
**FASTEST**<sup>®</sup>



**SAFE.  
RELIABLE.  
FAST.**

**HVAC-R**  
SEALING CONNECTION TOOLS

2025 HVAC-R PRODUCT GUIDE





# FASTEST®

## SAFE, RELIABLE, FAST SEALING CONNECTIONS

Enhance Test Safety | Drive Continuous Improvement | Ensure Product Quality

**FasTest® is a dedicated manufacturer of advanced engineered sealing connection tools and process valves that provide improved safety and efficiency - lowering operating costs.**

### Connection Tools - page 5

FasTest® connection tools have become the standard for safe and reliable connection requirements. Ergonomic designs and easy maintenance makes FasTest® the industry preferred source.

### Refrigeration Access Ports & Valves - page 36

CoreMax, PortMax & ZeroMax. FasTest Access Ports and Valves offer complete solutions for efficient processing of HVAC refrigerant systems.

### EvacMax Mobile Evacuation Cart - page 41

Fully automated easy-to-use intuitive design, set target vacuum, vacuum decay limits and monitor in real time.

### Applications

SPLIT SYSTEMS

PACKAGE UNITS

COILS

COMPRESSORS

ICE MACHINES

AND MORE



#### APPLICATION EXPERTS

We work with you to provide the best solution for your application.



#### QUALITY

ISO 9001 Certified; Robust tools improve the quality of your product.



#### BREADTH OF OFFERING

Extensive standard and Custom Engineered Solutions.



#### INTELLIGENT TOOLS

Industry 4.0 sensing & data generating tools



#### GLOBAL SUPPORT

Global distribution coverage for local and responsive distribution support.

# Zero Emissions Processing/ Zero Refrigerant Loss

## **What is Zero Emission Processing:**

At its core, Zero Emission Processing embodies the collective effort to minimize or eradicate the release of hydro fluorocarbons (HFCs) into the environment, particularly from HVAC-R systems and related equipment. These refrigerants, prevalent in various cooling systems like air conditioners, heat pumps, chillers, PTAC Units, ice makers and pool heat pumps, have been identified as significant contributors to atmospheric pollution and climate change. Thus, the industry's focus is on preventing these emissions during manufacturing, servicing, and even during the disposal of equipment, hence the term "Zero Emission Processing."

## **How we address this in our connectors with "reclaim features":**

FasTest Inc. stands firmly in support of these critical environmental initiatives. Our commitment is evident through the incorporation of "reclaim features" into our processing and service connectors/tools. These innovative features are designed to seamlessly connect with refrigerant reclaim equipment, effectively preventing the escape of refrigerants into the atmosphere during crucial stages like charging, run tests, servicing, and end-of-life recycling processes.

By utilizing connectors with reclaim features, manufacturers can achieve Zero Emission Processing goals without compromising efficiency or performance. This ensures compliance with environmental regulations and contributes to a cleaner, more sustainable future for the HVAC-R industry and beyond.

## **How we address this through our seal materials:**

Recognizing the evolving landscape of refrigerants, e.g. the move to new A2L/A3 refrigerants and compressor lubricants, FasTest Inc. has taken proactive measures to ensure the compatibility of our seal materials with the latest industry standards. We understand the importance of material compatibility in maintaining leak-free connections and preventing emissions.

Through rigorous in-house testing, collaboration with industry partners, and customer feedback, we are taking steps to verify the compatibility of our seal compounds with the new generation of refrigerants. This comprehensive approach ensures that our products meet the stringent requirements of Zero Emission Processing, providing peace of mind to manufacturers and service technicians alike. With FasTest, you can trust that your operations are aligned with the highest standards of environmental responsibility.

# CONNECTION TOOLS >>

FasTest® sealing tools have become the standard for safe and reliable connection requirements. Ergonomic designs and easy maintenance makes FasTest® the industry preferred connector source.





1

Identify "Connects to" or Tube/Thread type for application

2

Select tool(s) that fit size requirements



DESIGNED FOR	HVAC-R Tubes / Fittings / Access Ports				
PRODUCT SERIES	XT (p.13)	ST (p.15)	RQD (p.17)	SNAPMATE (p.19)	MBE / MRE (p.21)
<b>Pressure rating</b>	Vacuum 10 mtorr (micron) to 625 psi (43.1 bar)	Vacuum 10 mtorr (micron) to 1,000 psi (68.9 bar)	Vacuum 10 mtorr (micron) to 750 psi (51.7 bar)	Vacuum 10 mtorr (micron) to 625 psi (43.1 bar)	Vacuum 10 mtorr (micron) to 625 psi (51.7 bar)
<b>Connects to</b>	Expanded Tubes	Straight Tubes	Hansen® and PCU® Male Fittings	CoreMax® /Schrader® Access Ports	Expanded Tubes
<b>Sealing range</b>	5/16", 3/8", 1/2" 5/8", 3/4", 7/8"	1/4", 5/16", 3/8"	1/4", 5/16", 3/8"	7/16-20 flare	1/4" to 1 1/8"
<b>Application type</b>	Manual	Manual	Manual	Manual	Manual
<b>Actuation method</b>	Sleeve	Sleeve	Sleeve / Lever	Sleeve	Sleeve
<b>Grip method</b>	Ball Latch	Thread Collets	Ball Latch	Thread Collets	Ball / Ring Latch



DESIGNED FOR	Gas Burner Testing	
PRODUCT SERIES	GZNV (p.29)	G60V (p.30)
<b>Pressure rating</b>	Vacuum to 5 psi (0.4 bar)	Vacuum to 30 psi (2.1 bar)
<b>Connects to</b>	Natural Gas and Propane Regulators	Natural Gas and Propane Regulator Extension Pipes
<b>Sealing range</b>	3/8, 1/2, 3/4 Female NPT/BSPP (G)	3/8, 1/2, 3/4 Male NPT/BSPP (G)
<b>Application type</b>	Manual	Manual
<b>Actuation method</b>	Lever	Sleeve
<b>Grip method</b>	Seal Friction	Thread Collets

**» INDUSTRY LEADING RESPONSIVENESS**

- Majority of products ship within 2 days.
- Custom Engineered Solutions, including design, ship in weeks vs. months

**AT FASTEST WE TAKE PRIDE IN BEING RESPONSIVE TO ALL OUR CUSTOMER'S NEEDS, INCLUDING PRODUCT AVAILABILITY.**

**3** Verify operating/test pressure meets requirements

**4** Select actuation method - lever/sleeve for manual, pneumatic for automation

**5** Identify desired ICON™ features



DESIGNED FOR		Internal & External Tubes		Internal Connections to Tubes / Threads			External Connections to Tubes / Threads		
PRODUCT SERIES		JNL (p.23)	JXL (p.27)	FI (p.31)	MIT (p.33)	FN (p.35)	FE (p.32)	MET (p.34)	
<b>Pressure rating</b>		Vacuum 10 mtorr (micron) to 1,000 psi (68.9 bar)	Vacuum 10 mtorr (micron) to 1,000 psi (68.9 bar)	Vacuum 10 to 120 psi (8.1 bar)	Vacuum to 10,000 psi (689.5 bar)	Vacuum to 5,000 psi (344.7 bar)	Vacuum to 500 psi (34.5 bar)	Vacuum to 10,000 psi (689.5 bar)	
<b>Actuation method</b>		Lever	Lever	Pneumatic	Manual Twist	Squeeze Lever	Pneumatic	Manual Twist	
<b>Grip method</b>		Grip Collets	Grip Collets	Fixturing / Seal Friction	Continuous Thread	Thread Collets	Fixturing / Seal Friction	Continuous Thread	
<b>ICON™ Technology</b>				SURE SEAL™ SEAL LIFE™		SURE SEAL™	SURE SEAL™ SEAL LIFE™		
<b>TUBES</b>	STRAIGHT								
	SWAGED		Internal Tubes 0.375" to 1.625" 9.53mm to 41.275mm	External Tubes 0.25" to 0.875" 6.3mm to 22.2mm	0.310" to 3.005" 7.87mm to 76.33mm	N/A	N/A	0.030" to 5.040" 0.76mm to 128.02mm	N/A
	EXPANDED								
	FLARED								
	BEADED								
	BARBED		N/A	N/A	0.310" to 3.005" 7.87mm to 76.33mm	N/A	N/A	0.030" to 5.040" 0.76mm to 128.02mm	N/A
	FORMED								
<b>THREADS</b>	NPT		N/A	N/A	1/8 to 2 1/2	1/8 to 4	1/8 to 3/4	1/8 to 2 1/2	1/8 to 3
	BSPP/BSPT		N/A	N/A	1/8 to 2 1/2	1/8 to 1	1/8 to 3/4	1/8 to 2 1/2	1/8 to 1
	JIC 37° FLARE		N/A	N/A	N/A	7/16-20 to 1 5/16-12 (-4 to -16)	N/A	7/16-20 to 1 5/16-12 (-4 to -16)	7/16-20 to 2 1/2-12 (-4 to -32)
	45° FLARE		N/A	N/A	N/A	N/A	N/A	7/16-20 to 1 3/8-12 (-4 to -16)	7/16-20 to 1 1/16-14 (-4 to -12)
	METRIC		N/A	N/A	M10 to M60	M10 to M22	M10 to M22	M10 to M33	CONSULT FACTORY



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# XT / HVAC-R EXTERNAL SEALING CONNECTION TOOL

Sleeve actuated ball grip connection tool for expanded refrigeration tubes.

## CONNECTS TO:

Expanded



## SPECIFICATIONS

Pressure Rating	Operating Temperatures	Connection Profile
10 mtorr (micron) to 750 psi (51.7 bar)	-40°F to +250°F (-40°C to +121°C)	Expanded Tubes
Housing Material		
Connector - Stainless Steel SurConnect™ - Aluminum		
Termination Profile		Seal Material*
1/4 NPT		Neoprene®

\* More seal material types available, consult factory.

- 1 Sleeve locks under pressure to prevent accidental disconnection
- 2 Instant connection for copper and aluminum flared tubes commonly used in refrigeration
- 3 Accommodates wide tolerance of flared section length
- 4 Deep vacuum capabilities down to 10 millitorr (micron)
- 5 Quick and easy seal replacement to minimize down time, maintenance, and tool inventory

## ACTUATION METHOD

**Manual Sleeve:** Easy, ergonomic sleeve action eliminates repetitive twisting and turning - push to connect, pull to release

## ICON™ TECHNOLOGY

Consult Factory

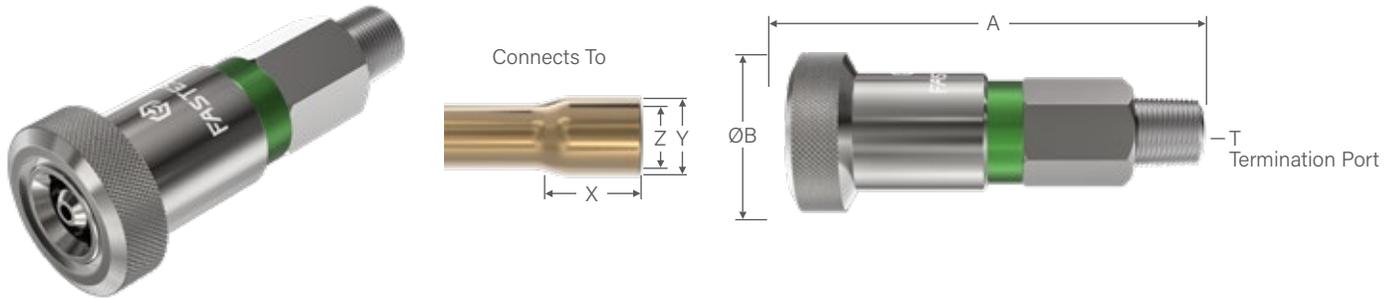
## ACCESSORIES



## The SurConnect™ Advantage

- Green ring indicates a secure connection, improving safety by preventing accidental disconnects.
- Easily installed on existing XT Connectors or available fully assembled.
- Aluminum light weight.
- Color coded by size for easy recognition.

# XT / HVAC-R EXTERNAL SEALING CONNECTION TOOL



Ordering Information							Dimensions			
Connects To				Part Number	Replacement Seals Bulk Pack (5)	Rebuild Kit	A	B	T	Flow Ø
Tube Size	Flare Length (Dim X)	Flare OD (Dim Y)	Flare ID (Dim Z)							

**XT** | Sleeve Actuated Connectors for Expanded Tubes

5/16	0.30 to 1.00 (7.6 to 25.4)	0.44 (11.2)	0.31 (7.9)	XT05042	XTB05	XTR05	3.23 (82.0)	1.19 (30.2)	1/4 NPT	.062 (1.6)	
3/8		0.50 (12.7)	0.37 (9.4)	XT06042	XTB06	XTR06		3.31 (84.1)		1.25 (31.8)	0.12 (3.1)
1/2		0.63 (15.9)	0.49 (12.4)	XT08042	XTB08	XTR08				1.37 (34.8)	0.22 (5.6)
5/8		0.73 (18.5)	0.62 (15.7)	XT10042	XTB10	XTR10		1.50 (38.1)		0.25 (6.4)	
3/4	0.37 to 1.00 (9.4 to 25.4)	0.86 (21.8)	0.74 (18.8)	XT12042	XTB12	XTR12	3.33 (84.6)	1.62 (41.2)		0.27 (6.9)	
7/8		0.99 (25.1)	0.87 (22.1)	XT14042	XTB14	XTR14		1.72 (43.7)		0.28 (7.1)	

Dimensions: inch (mm)

Ordering Information				
Connects To	SurConnect™ Kit Part Number	XT assembled w/ SurConnect™	XT assembled w/ SurConnect™	Tip

**XT WITH SURCONNECT™** | Sleeve Actuated Connectors for Expanded Tubes with Additional Safety Feature

3/8	XT06SHR3	XT06042SHR3*	XT06042SHR3H4	1/4 Hansen®
			XT06042SHR3P4	1/4 PCU*
			XT06042SHR3H6	3/8 Hansen*
			XT06042SHR3P6	3/8 PCU*
3/4	XT12SHR2	XT12042SHR2*	XT12042SHR2H4	1/4 Hansen®
			XT12042SHR2P4	1/4 PCU*
			XT12042SHR2H6	3/8 Hansen*
			XT12042SHR2P6	3/8 PCU*
7/8	XT14SHR1	XT14042SHR1*	XT14042SHR1H4	1/4 Hansen®
			XT14042SHR1P4	1/4 PCU*
			XT14042SHR1H6	3/8 Hansen*
			XT14042SHR1P6	3/8 PCU*

**NOTE:** SurConnect Kit must be assembled with XT Connector



**DON'T SEE A SOLUTION FOR YOUR APPLICATION?** Submit a custom application form and drawing to [fastsales@fastestinc.com](mailto:fastsales@fastestinc.com) or to your local distributor.

# ST / HVAC-R EXTERNAL SEALING CONNECTION TOOL

Sleeve actuated grip and seal connection tool for straight tubes in refrigeration.

## CONNECTS TO:

Straight



Now made of stainless steel

## SPECIFICATIONS

Pressure Rating	Operating Temperatures	Materials of Construction
10 mtorr (micron) to 1000 psi (69 bar)	-40°F to +250°F (-40°C to +121°C)	Stainless Steel
Termination Port		Seal Material*
1/4 NPT		Neoprene®

\* Additional seal material types available, consult factory.

## ACTUATION METHOD

**Manual Sleeve:** Easy sleeve action is ergonomic and eliminates repetitive twisting and turning. Pull to connect, push to release.

## ICON™ TECHNOLOGY

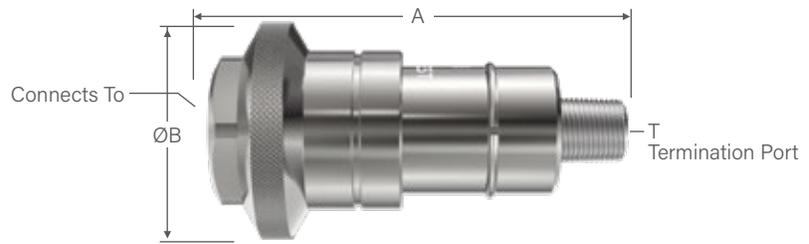
Consult Factory

## ACCESSORIES

Visit [fastestinc.com](http://fastestinc.com)

- 1 Pressure assisted sealing eliminates leaks and resists movement under pressure
- 2 Instant connection for copper, steel, and aluminum tubes commonly used in refrigeration
- 3 Designed specifically for the demanding requirements of the refrigeration industry
- 4 Deep vacuum capabilities down to 10millitorr (micron)
- 5 Quick and easy seal replacement to minimize down time, maintenance, and tool inventory

# ST / HVAC-R EXTERNAL SEALING CONNECTION TOOL



Ordering Information				Dimensions			
Connects To +0.015/-0.010	Part Number	Replacement Seals Bulk Pack (5)	Rebuild Kit*	A	B	T	Insertion Depth
0.250 (6.4)	ST04042	STB04	STC04	2.75 (69.9)	1.14 (29.0)	1/4 NPT	0.62 (15.7)
0.312 (7.9)	ST05042	STB05	STC04		1.19 (30.2)		0.75 (19.1)
0.375 (9.5)	ST06042	STB06	STC04	3.23 (82.0)	1.50 (38.1)		

Dimensions: inch (mm)

\*Includes complete collet set.

Additional sizes available, contact factory.



# RQD / HVAC-R EXTERNAL SEALING CONNECTION TOOL

Connection Tool for ISO 7241-1 Series B Quick Disconnect Coupling Plugs  
Easily connect to pressurized Hansen, PCU and other Plugs ("Tips")

## CONNECTS TO:

Hansen® & PCU® Brand Quick Disconnect Male Plugs/ "Tips"



## SPECIFICATIONS

Pressure Rating	Operating Temperatures	Materials of Construction
Vacuum to 750 psi (52 bar)	-40°F to +250°F (-40°C to +121°C)	Black Oxide/Stainless Steel/Brass/Plastic (Black Delrin®)
Termination Port		Seal Material*
1/4 or 3/8 NPT		Neoprene®

\* Additional seal material types available, consult factory.

- i** Designed for ISO 7241-1 Series B Coupling Plugs/ "Tips"
- i** RQD can mate with, but not limited to, the following brands: PCU, Hansen, Parker, SABE, AeroQuip®, Faster®, Snap-Tite®, Stucchi®, Perfecting®, Safeway®, Tomco® H, Cejn®, Foste®, and Nitto®. Check with FasTest for proper fitment.

## ACTUATION METHOD

**Sleeve / Lever Handle:** RQD eliminates high force to connect under pressure!

Easy sleeve latch action is ergonomic and eliminates repetitive twisting and turning. Cam over lever handle easily opens valves, even when under pressure.

- 1 - Slide Latch forward to connect to QD Plug
- 2 - Lift handle to open valves
- 3 - Return handle to in-line position to close valves and vent

## ICON™ TECHNOLOGY

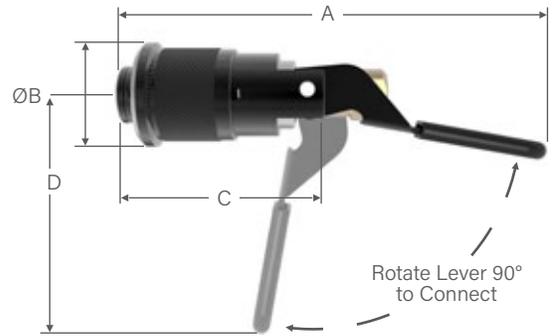
Consult Factory

## ACCESSORIES

Visit [fastestinc.com](http://fastestinc.com)

- 1** Sleeve latches RQD to QD Plug before pressure is applied thus eliminating the high force to connect common in conventional Quick Disconnect Couplings
- 2** Safety Latch feature prevents accidental disconnection when under pressure
- 3** All RQD's feature an internal shut-off valve. Lever handle opens/closes valves to charge system. When closing, residual pressure is safely directed away from operator or can be reclaimed via reclaim port
- 4** Ergonomic action eliminates repetitive twisting motion & possible operator injuries
- 5** Minimal maintenance required
- 6** Reclaim Port supports Zero Emission Processing See pg.3 for more information on Zero Emission Processing

# RQD / HVAC-R EXTERNAL SEALING CONNECTION TOOL



## RQD (vent to atmosphere)

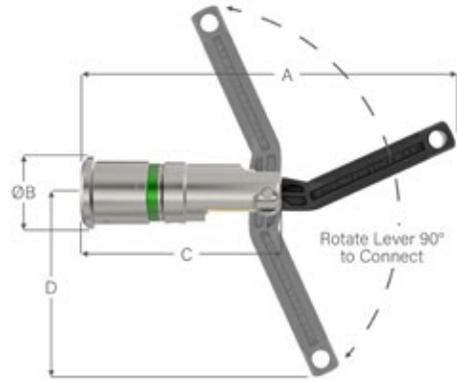
Ordering Information				Dimensions				
Connects To	Part	Replacement	Rebuild	A	B	C	D	T

**RQD** | Lever Action Style for PCU\* Plugs/Tips

1/4 PCU*—Model 64 Tip	KA04PA	KSA04	KR04A	7.00 (177.8)	1.75 (44.5)	3.40 (86.4)	3.30 (83.8)	1/4 NPT
1/4 PCU*—Model 61 Tip	KA04PB	KSM04	KR04		1.95 (49.5)			3/8 NPT
3/8 PCU*—Model 78 Tip	KA06PA	KSM06PB	KR06PA					
3/8 PCU*—Model 66 Tip	KA06PB	KSM06PB	KR06PB					

**RQD** | Lever Action Style for Hansen\* Plugs/Tips

1/4 Hansen* 2K Series Tip	KA04HB	KSM04	KR04	7.00 (177.8)	1.75 (44.5)	1.95 (49.5)	3.30 (83.8)	1/4 NPT
3/8 Hansen* 3K Series Tip	KA06HB	KSM06HB	KR06HB		1.95 (49.5)			3/8 NPT



## RQD (with reclaim port) See pg.3 for more information on Zero Emission Processing

Ordering Information				Dimensions				
Connects To	Part Number	Replacement Seals Bulk Pack (5)	Rebuild Kit	A	B	C	D	T

**RQD** | Lever Action Style for PCU\* Plugs/Tips

1/4 PCU*—Model 64 Tip	KA04PAEV	KSA04	KR04AEV	8.70 (221.0)	1.75 (44.5)	4.7 (119.4)	4.2 (106.7)	1/4 NPT
1/4 PCU*—Model 61 Tip	KA04PBEV	KSM04	KR04EV		1.95 (49.5)	4.9 (124.5)		
3/8 PCU*—Model 78 Tip	KA06PAEV	KSM06PB	KR06PAEV		1.75 (44.5)	4.7 (119.4)		
3/8 PCU*—Model 66 Tip	KA06PBEV	KSM06PB	KR06PBEV		1.95 (49.5)	4.9 (124.5)		3/8 NPT

**RQD** | Lever Action Style for Hansen\* Plugs/Tips

1/4 Hansen* 2K Series Tip	KA04HBEV	KSM04EV	KR04EV	8.70 (221.0)	1.75 (44.5)	4.7 (119.4)	4.2 (106.7)	1/4 NPT
3/8 Hansen* 3K Series Tip	KA06HBEV	KSM06HBEV	KR06HBEV		1.95 (49.5)	4.9 (124.5)		3/8 NPT

Dimensions: inch (mm)



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# CoreMax® RQD / HVAC-R EXTERNAL SEALING CONNECTION TOOL

Connection tool to easily connect to CoreMax Access Port

## CONNECTS TO:

CoreMax Access Port Seat, with or without CoreMax Valve installed



- 1** Sleeve latches RQD to CoreMax Access Port Seat before pressure is applied (by lifting handle) thus eliminating the high force to connect of a pressurized OEM SnapMate connector
- 2** Safety Latch feature prevents accidental disconnection when under pressure
- 3** Lever handle opens/closes valves to charge system. When closing, residual pressure is safely directed away from operator or can be reclaimed (see 6) in refrigerant applications
- 4** Ergonomic action eliminates repetitive twisting motion & possible operator injuries
- 5** Minimal maintenance required, main Seals are easy to replace.
- 6** Reclaim Port versions support Zero Emission Processing See pg.3 for more information on Zero Emission Processing

Part Number	Shut-Off Valve	Vents To
KA04MAT	✔	Atmosphere
KA04CMCH	✘	Reclaim Port
KA04CMEV	✔	Reclaim Port

## SPECIFICATIONS

Pressure Rating	Operating Temperatures	Materials of Construction
Vacuum to 750 psi (52 bar)	-40°F to +250°F (-40°C to +121°C)	Stainless Steel/ Plastic Handle (Black Acetal)
Termination Port	Reclaim Port	Seal Material*
3/8 NPT	1/8 NPT	Neoprene®

\* Additional seal material types available, consult factory.

## ACTUATION METHOD

Sleeve / Lever Handle: CoreMax RQD eliminates high force to connect under pressure!

Easy sleeve latch action is ergonomic and eliminates repetitive twisting and turning. Cam over lever handle easily opens valves, even when under pressure.

- 1 - Slide latch forward to connect to CoreMax Access Port Seat
- 2 - Lift handle to open valves
- 3 - Return handle to in-line position to close valves and vent (options to either vent to atmosphere or to reclaim for Zero Emission Processing)

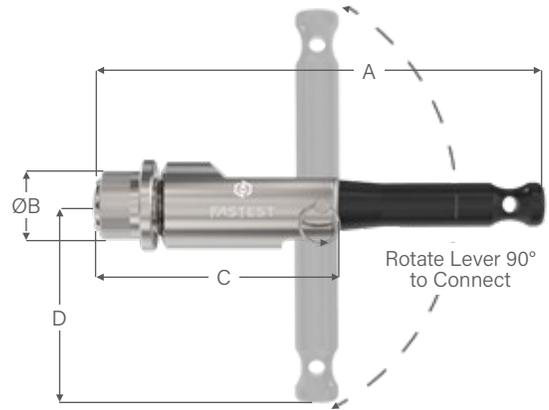
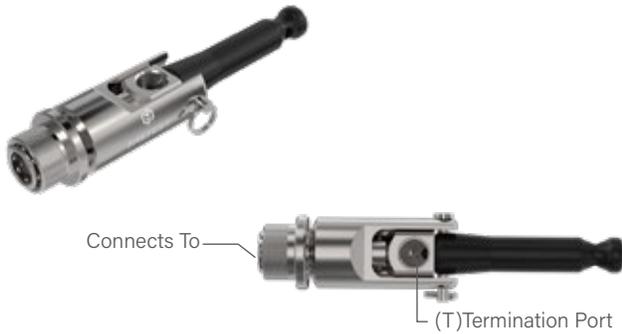
## ICON™ TECHNOLOGY

Consult Factory

## ACCESSORIES

Visit [fastestinc.com](http://fastestinc.com)

# CoreMax<sup>®</sup> RQD / HVAC-R EXTERNAL SEALING CONNECTION TOOL

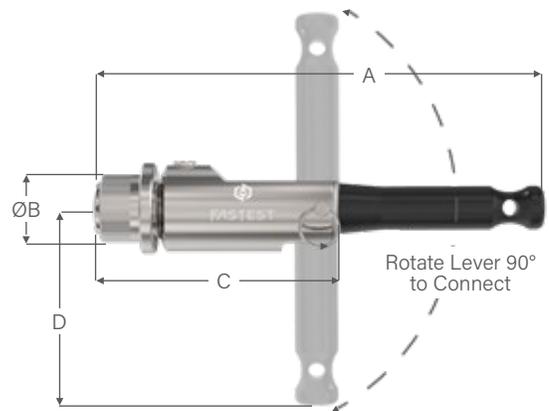
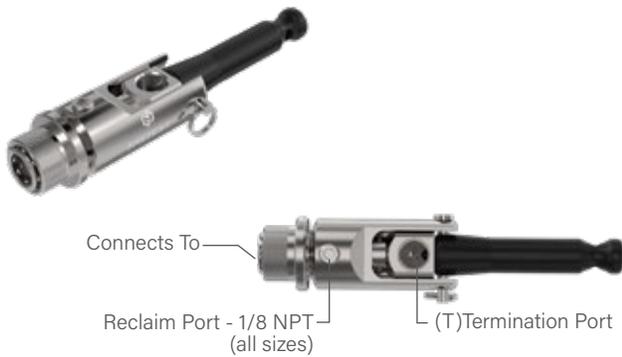


## RQD (vent to atmosphere)

Ordering Information				Dimensions				
Connects To	Part	Replacement	Rebuild	A	B	C	D	T

**RQD** | Lever Action Style for CoreMax Access Ports

CoreMax RQD Tool w/Shut-Off Valve, Vent to Atmosphere	KA04CMAT	S20700334N70	RKA04CMAT	7.22 (183.4)	1.46 (37.1)	3.92 (99.6)	3.55 (90.2)	3/8 NPT
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## RQD (with reclaim port) See pg.3 for more information on Zero Emission Processing

Ordering Information				Dimensions				
Connects To	Part	Replacement	Rebuild	A	B	C	D	T

**RQD** | Lever Action Style for CoreMax Access Ports

CoreMax RQD Tool w/Shut-Off Valve, Vent to Reclaim Port	KA04CMEV	S1016N70	RKA04CMEV	7.22 (183.4)	1.46 (37.1)	3.92 (99.6)	3.55 (90.2)	3/8 NPT
CoreMax RQD Tool NO Shut-Off Valve, Vent to Reclaim Port	KA04CMCH	S1016N70	RKA04CMCH	7.22 (183.4)	1.46 (37.1)	3.92 (99.6)	3.55 (90.2)	3/8 NPT

Dimensions: inch (mm)



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# SNAPMATE / EXTERNAL SEALING CONNECTION TOOL

Sleeve actuated external grip and seal connection tool for CoreMax® and Schrader® flare connections.

## CONNECTS TO:

45° Flare



## SPECIFICATIONS

Pressure Rating	Operating Temperatures	Materials of Construction
Vacuum to 625 psi (43 bar)	-40°F to +250°F (-40°C to +121°C)	Stainless Steel, Brass
Termination Port		Seal Material*
-4 [7/16-20] 45° Flare		Neoprene®

\* Additional seal material types available, consult factory.

## ACTUATION METHOD

**Manual Sleeve:** Easy, ergonomic sleeve action eliminates repetitive twisting and turning - push to connect, pull to release

## ICON™ TECHNOLOGY

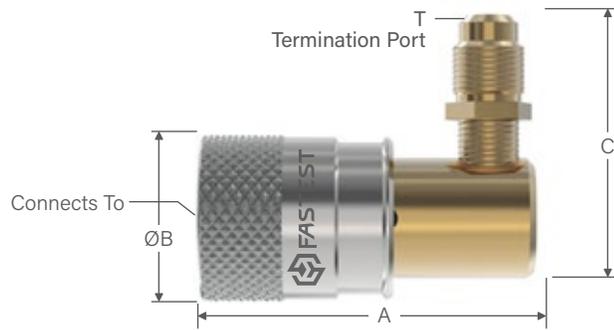
Consult Factory

## ACCESSORIES

Visit [fastestinc.com](http://fastestinc.com)

- 1 Internally valved for refrigerant containment upon disconnection
- 2 Collet design locks securely into CoreMax® and common Schrader® valves with 1/4 45° Flare with 7/16-20 thread
- 3 Compact size fits into tight spaces
- 4 90° termination port for best ergonomics of small connection tool
- 5 Quick and easy seal replacement to minimize down time, maintenance, and tool inventory

# SNAPMATE / EXTERNAL SEALING CONNECTION TOOL



Ordering Information				Dimensions			
Connects To	Part Number	Main Seal Set	Repair Kit	A	B	C	T
CoreMax -4 [7/16-20] 45° Flare	SCTA07H	SCBA07H	SCRA07H	1.94 (49.3)	0.93 (23.6)	1.51 (38.3)	-4 [7/16-20] 45° Flare

Dimensions: inch (mm)



**DON'T SEE A SOLUTION FOR YOUR APPLICATION?** Submit a custom application form and drawing to [fastsales@fastestinc.com](mailto:fastsales@fastestinc.com) or to your local distributor.

# MBE/MRE / HVAC-R EXTERNAL SEALING CONNECTION TOOL

Sleeve actuated external grip and seal connection tools that latches over tube features.

## CONNECTS TO:

Expanded CoreMax Seat



## SPECIFICATIONS

Pressure Rating	Operating Temperatures	Materials of Construction
Vacuum to 625 psi (43 bar)	-40°F to +250°F (-40°C to +121°C)	Stainless Steel
Termination Port		Seal Material*
1/4 to 1-1/4 NPT		Neoprene*

\* Additional seal material types available, consult factory.

## ACTUATION METHOD

**Manual Sleeve:** Easy, ergonomic sleeve action eliminates repetitive twisting and turning - push to connect, pull to release

## ICON™ TECHNOLOGY

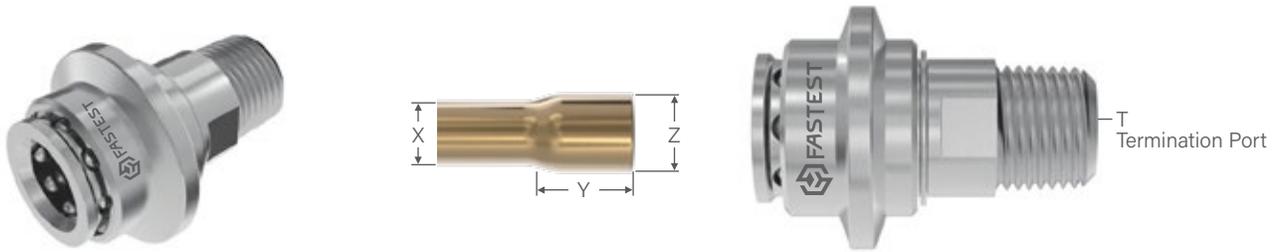
Consult Factory

## ACCESSORIES

Visit [fastestinc.com](http://fastestinc.com)

- 1 Sleeve locks under pressure to eliminate disconnection under pressure
- 2 MBE grips with balls, MRE grips with a ring (eliminates ball "dimples")
- 3 Straight through flow for full flow requirements
- 4 Quick and easy seal replacement to minimize down time, maintenance, and tool inventory

# MBE/MRE / HVAC-R EXTERNAL SEALING CONNECTION TOOL



Ordering Information					Dimensions	
Connects To			Replacement Seals Pack (5)	Rebuild Kit	Termination	Flow Dia.
Tube ØX	Flare Length Y	Flare ØZ				
0.25 (6.4)	0.20 (5.1)	0.32 (8.0)	Consult Factory	Consult Factory	1/4 NPT	0.19 (4.8)
0.31 (7.9)	0.27 (6.9)	0.38 (9.7)				0.25 (6.3)
0.38 (9.7)	0.35 (8.9)	0.44 (11.3)			3/8 NPT	0.31 (7.9)
0.50 (12.7)	0.45 (11.4)	0.57 (14.5)				0.44 (11.1)
0.63 (16.0)	0.53 (13.5)	0.70 (17.8)			3/4 NPT	0.56 (14.1)
0.75 (19.1)	0.68 (17.3)	0.84 (21.3)				0.67 (16.9)
0.88 (22.4)	0.79 (20.1)	0.97 (24.6)			1 NPT	0.79 (19.9)
1.00 (25.4)	0.83 (21.1)	1.12 (28.5)				0.94 (23.9)
1.13 (28.7)	1.13 (28.7)	1.23 (31.3)			1-1/4 NPT	1.03 (26.0)
1.38 (35.1)	1.40 (35.6)	1.49 (37.9)				1.27 (32.1)

Dimensions: inch (mm)

## How to Order

The MBE and MRE Series connectors are designed for mechanical gripping on expanded tubing. Connectors are designed, engineered and manufactured to your specific application requirements.

For part number and a price quotation:

- 1) Identify the gripping and sealing areas of your test piece.
- 2) Contact FasTest with information on test pressure, media and provide detailed drawing, including tolerances of test piece.



# JNL / INTERNAL SEALING CONNECTION TOOL

Manual lever actuated internal grip and seal connection tool for straight tubes / bores.

## CONNECTS TO:

Straight



## SPECIFICATIONS

Pressure Rating*	Operating Temperatures	Materials of Construction
<b>JNL0 / JNL1:</b> 10 mtorr (micron) to 1000 psi (68.9 bar)	-40°F to +250°F (-40°C to +121°C)	Aluminum Stainless Steel Acetal (POM) Urethane Collet Retainer
<b>JNL2:</b> 10 mtorr (micron) to 750 psi (51.7 bar)		
Termination Port		Seal Material**
1/8 NPT		Neoprene®

**i** \* Pressure rating based on the test piece having a surface finish greater than 16 rms and a hardness of no more than 95 Rb to grip and seal at the rated pressure. A surface finish of 8 rms may be acceptable if the test piece has a hardness no greater than 40 Rb.

\*\*Additional seal material types available, consult factory.

## ACTUATION METHOD

**Lever Actuated:** Simply flip the ergonomic handle for ease of use

## ICON™ TECHNOLOGY

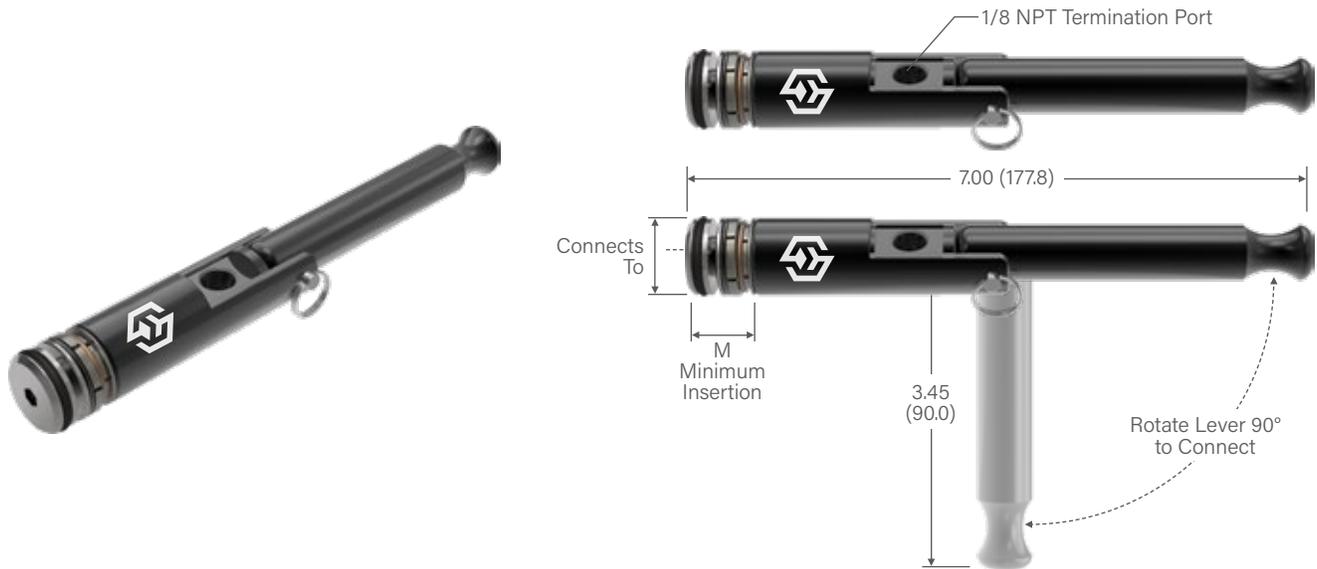
Consult Factory

## ACCESSORIES

Visit [fastestinc.com](http://fastestinc.com)

- 1** Pressure assisted sealing and gripping with internal safety lock feature prevents accidental disconnection under pressure if handle is released
- 2** Instant connection for copper, steel, and aluminum tubes commonly used in refrigeration and other industrial applications
- 3** Stainless steel collets provide maximum grip with minimum distortion of the test piece
- 4** Quick and easy seal replacement to minimize down time, maintenance and tool inventory
- 5** Self aligning connector requires no operator adjustment

# JNL / INTERNAL SEALING CONNECTION TOOL



Ordering Information			Dimensions
Connects To +0.010/-0.010 (+0.25/-0.25)	Part Number	Replacement Seals Bulk Pack (5)	M

**JNL0 and JNL1** | Lever Actuated Connectors for Internal Tubes / Bores

0.375 (9.5)	JNL00375H	SN00375H	0.53 (13.5)
0.500 (12.7)	JNL00500H	SN00500H	
0.590 (15.0)	JNL10590	SN10590	
0.625 (15.9)	JNL10625	SN10625	
0.750 (19.1)	JNL10750	SN10750	
0.785 (19.9)	JNL10785	SN10785	
0.875 (22.2)	JNL10875	SN10875	0.63 (16.0)

**JNL0 and JNL1** | Lever Actuated Connectors for Metric Internal Tubes / Bores

10mm ± 0.25mm	JNL0M10H	SN00395H	13.5 (0.53)
11mm ± 0.25mm	JNL0M11H	SN00435H	
12mm ± 0.25mm	JNL0M12H	SN00470	16.0 (0.63)
13mm ± 0.25mm	JNL0M13H	SN00515H	
14mm ± 0.25mm	JNL0M14H	SN00550H	
15mm ± 0.25mm	JNL1M15	SN10590	
16mm ± 0.25mm	JNL1M16	SN10630	
18mm ± 0.25mm	JNL1M18	SN10710	
20mm ± 0.25mm	JNL1M20	SN10785	

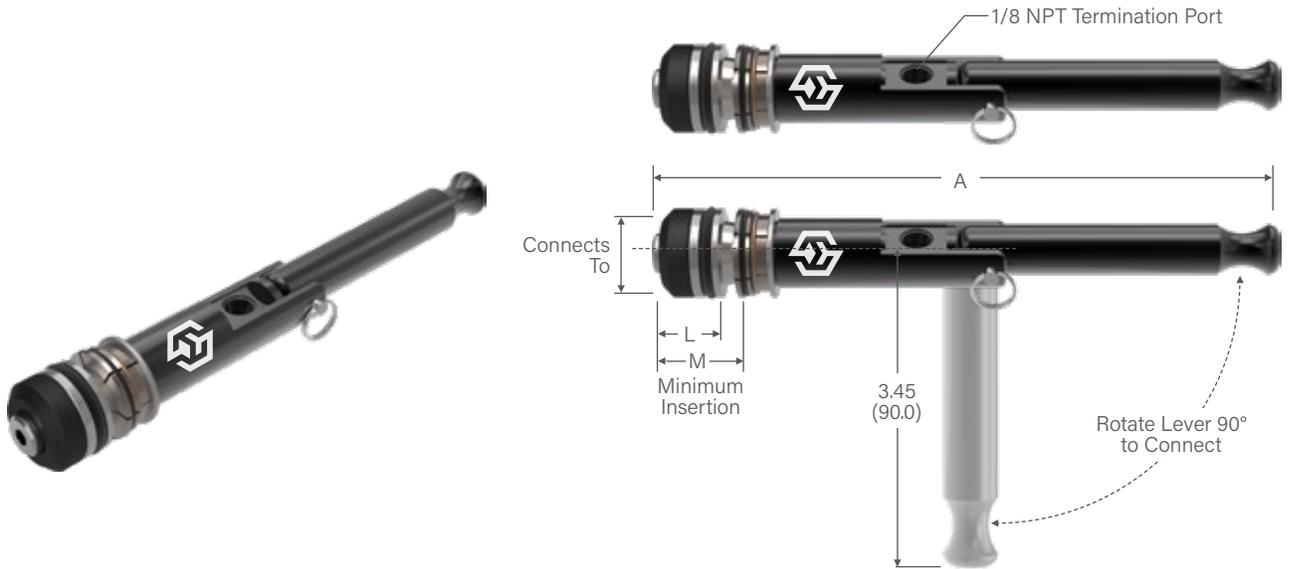
Dimensions: inch (mm)

**NOTE:** JNL sizes available to 1.630" (41.4 mm) in .005" (.13 mm) increments per customer request. Consult factory.



**DON'T SEE A SOLUTION FOR YOUR APPLICATION?** Submit a custom application form and drawing to [fastsales@fastestinc.com](mailto:fastsales@fastestinc.com) or to your local distributor.

# JNL / INTERNAL SEALING CONNECTION TOOL



Ordering Information			Dimensions		
Connects To +0.030/-0.010 (+0.76/-0.25)	Part Number	Replacement Seals Bulk Pack (5)	A	L	M
<b>JNL2</b>   Lever Actuated Connectors for Internal Tubes / Bores					
1.000 (25.4)	JNL21000	SN21000	7.71 (195.8)	1.31 (33.3)	1.39 (35.4)
1.125 (28.6)	JNL21125	SN21125			
1.250 (31.8)	JNL21250	SN21250	7.71 (195.8)	1.44 (36.6)	1.51 (38.4)
1.375 (34.9)	JNL21375	SN21375	7.84 (199.1)	1.56 (39.7)	2.05 (52.1)
1.500 (38.1)	JNL21500	SN21500	7.96 (202.2)	1.69 (43.0)	2.12 (53.9)
1.625 (41.3)	JNL21625	SN21625	8.09 (205.5)	1.81 (46.0)	2.30 (58.5)

Dimensions: inch (mm)

**NOTE:** Additional JNL2 sizes available per customer request. Consult factory.

# CUSTOM ENGINEERED SOLUTIONS



**WE TRANSFORM  
STANDARDIZED  
TOOLS INTO  
TAILOR-MADE  
SOLUTIONS TO  
FIT YOUR EXACT  
REQUIREMENTS.**

**ASK US HOW.**

# JXL / EXTERNAL SEALING CONNECTION TOOL

Manual lever actuated external grip and seal connection tool for straight tube.

## CONNECTS TO:

Straight Swaged/Expanded



## SPECIFICATIONS

Pressure Rating*	Operating Temperatures	Materials of Construction
10 mtorr (micron) to 1,000 psi (69 bar)	0°F to +200°F (-17°C to +93°C)	Anodized Aluminum, Stainless Steel, and Acetal (POM)
Termination Port		Seal Material**
1/8 to 1/4 NPT/BSPP (G)		Neoprene®

**i** \*Pressure rating based on metal test piece not exceeding 30 Rockwell C hardness. As a general guideline, surface must be 5 micro inches or greater. Surfaces less than 5 micro inches not recommended.

\*\*Additional seal material types available, consult factory.

## ACTUATION METHOD

**Lever Actuated:** Simply flip the ergonomic handle in either direction for ease of use

## ICON™ TECHNOLOGY

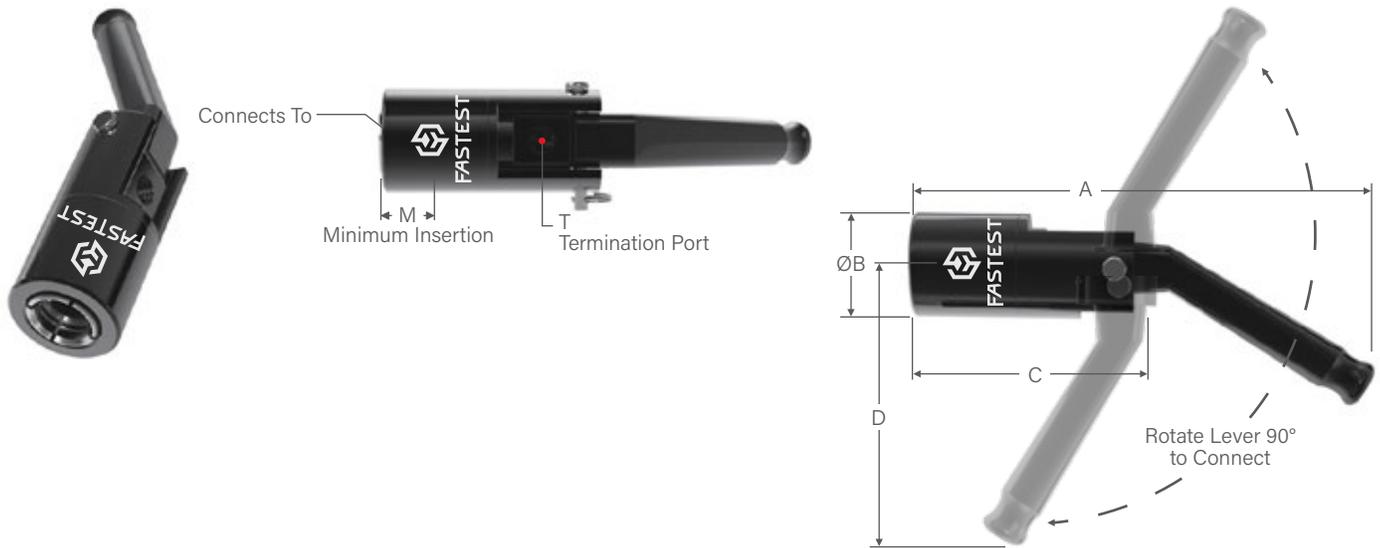
Consult Factory

## ACCESSORIES

Visit [fastestinc.com](http://fastestinc.com)

- 1** Pressure assisted sealing and gripping with internal safety lock feature resists accidental disconnection under high pressure if handle is released
- 2** Instant connection for copper, steel, and aluminum tubes commonly used in refrigeration and other industrial applications
- 3** Stainless steel collets provide maximum grip with minimum distortion of the test piece
- 4** Quick and easy seal replacement to minimize down time, maintenance, and tool inventory
- 5** Self aligning connector requires no operator adjustment

# JXL / EXTERNAL CONNECTION TOOL / IMPERIAL / METRIC EXTERNAL TUBES



Ordering Information			Dimensions						
Sealing Range	Part Number	Main Seal Set	A	B	C	D	M	T	Flow Diameter

**JXL0 and JXL1** | Lever Actuated Connectors for Imperial External Tubes

0.25 ± .010	JXL00250	SXL00250	7.27 (184.7)	1.13 (28.8)	3.65 (92.7)	4.22 (107.2)	0.79 (20.1)	1/8 NPT	0.24 (6.1)
0.312 ± .010	JXL00312	SXL00312							
0.375 ± .010	JXL00375	SXL00375							
0.500 ± .010	JXL00500	SXL00500		1.62 (41.2)	3.58 (90.9)		0.85 (21.6)	1/4 NPT	
0.625 ± .010	JXL10625	SXL10625							
0.750 ± .010	JXL10750	SXL10750							
0.875 ± .010	JXL10875	SXL10875							

**JXL0 and JXL1** | Lever Actuated Connectors for Metric External Tubes

6mm ± 0.25mm	JXL0M6	SXL00236	7.27 (184.7)	1.13 (28.8)	3.65 (92.7)	4.22 (107.2)	0.79 (20.1)	1/8 BSPP (G)	0.24 (6.1)
8mm ± 0.25mm	JXL0M8	SXL00312							
10mm ± 0.25mm	JXL0M10	SXL00394							
12mm ± 0.25mm	JXL0M12	SXL00472		1.62 (41.2)	3.58 (90.9)		0.85 (21.6)	1/4 BSPP (G)	
16mm ± 0.25mm	JXL1M16	SXL10630							
18mm ± 0.25mm	JXL1M18	SXL10710							
20mm ± 0.25mm	JXL1M20	SXL10787							
22mm ± 0.25mm	JXL1M22	SXL10865							

Dimensions: inch (mm)

**NOTE:** Table above shows common connections. Additional sizes available for JXL Series connectors. Consult factory or details.



**DON'T SEE A SOLUTION FOR YOUR APPLICATION?** Submit a custom application form and drawing to [fastsales@fastestinc.com](mailto:fastsales@fastestinc.com) or to your local distributor.

# GZNV / INTERNAL GAS BURNER TESTING

Internally valved manual sealing connection tool for Natural Gas or Propane Burner Testing.

**AVAILABLE RANGE:** 3/8, 1/2 & 3/4 FNPT/BSPT VERSIONS



## SPECIFICATIONS

Pressure Rating	Operating Temperatures	Materials of Construction
Vacuum to 5 psi (0.345 bar)	0°F to +200°F (-17°C to +93°C)	Anodized Aluminum, Brass, Molded Nylon Handle
Termination Port		Seal Material*
1/4, 1/2 NPT		Main: Urethane Internal: Buna-N

\* Additional seal material types available, consult factory.

## ACTUATION METHOD

**Lever Handle:** Two way actuation handle is simple and ergonomic for production applications

## ICON™ TECHNOLOGY

Consult Factory

**For part numbers or additional product information:**  
Contact [fastsales@fastestinc.com](mailto:fastsales@fastestinc.com)

- 1 Adjustable collar to keep face seal sealing pressure consistent
- 2 Internal shut-off valve to stop the flow of gas when handle is in the disconnected position
- 3 Non-sparking aluminum and brass components

# G60V / EXTERNAL GAS BURNER TESTING

Internally valved sleeve actuated external grip and seal connection tool for Natural Gas or Propane Burner Testing.

**AVAILABLE RANGE:** 3/8, 1/2 & 3/4 MNPT  
(BSPT AVAILABLE AS CUSTOM)

MNPT



## SPECIFICATIONS

Pressure Rating	Operating Temperatures	Materials of Construction
Vacuum to 30 psi (2.1 bar)	0°F to +200°F (-17°C to +93°C)	Stainless Steel, Brass, Anodized Aluminum
Termination Port		Seal Material*
3/8, 1/2, 3/4 NPT		Main: Neoprene® Internal: Buna-N

\* Additional seal material types available, consult factory.

## ACTUATION METHOD

**Manual Sleeve:** Easy, ergonomic sleeve action eliminates repetitive twisting and turning - push to connect, pull to release

## ICON™ TECHNOLOGY

Consult Factory

**For part numbers or additional product information:**  
Contact [fastsales@fastestinc.com](mailto:fastsales@fastestinc.com)

- 1 Green ring indicator to signal that a complete connection has been made
- 2 Instant external threaded connection with floating piston to ensure proper face / ID sealing position
- 3 Collet design locks securely to external male pipe threads
- 4 Internal shut-off valve seals flow when disconnected
- 5 Stainless steel components for demanding production environments - brass collets for non-sparking



**DON'T SEE A SOLUTION FOR YOUR APPLICATION?** Submit a custom application form and drawing to [fastsales@fastestinc.com](mailto:fastsales@fastestinc.com) or to your local distributor.

# FI / INTERNAL SEALING CONNECTION TOOL

Pneumatic sealing connection tool for internal sealing in automated and semi-automated processes.

**AVAILABLE RANGE:** .310" to 3.005" (7.87mm to 76.33mm)

Straight Expanded Flared Beaded Barbed Form End Swaged



NPT SAE BSPP (G)/BSPT METRIC



- 1 Automated processes and high-volume production testing including pick and place and delicate robotic handling applications
- 2 Capable of sealing conventional and unique sealing surfaces including smooth, porous, out of round, and threaded
- 3 Quick change seal sets to accommodate multiple sizes of tubing and easy field maintenance
- 4 Available with Shaft Extensions for accessibility to seal remote ports or multiple ports with close center to center distances - consult factory for further information

## SPECIFICATIONS

Pressure Rating	Pilot Pressure	Operating Temperatures
Vacuum to 120 psi (8.3 bar)	60 to 120 psi (4.1 to 8.3 bar)	0°F to +200°F (-17°C to +93°C)
Termination Port	Materials of Construction	Seal Material*
Female 10-32 UNF, M5 x 0.8, NPT/BSPP (G): 1/8 to 3/4	Anodized Aluminum, Stainless Steel, Potted PCA	Standard: Neoprene®, Urethane Optional: FKM, Buna-N, EPDM, FDA White Neoprene®

\* Additional seal material types available, consult factory.  
\*\* Operating Temp: 32°F-100°F (0°C-38°C) for ICON™.

- i** Sealing connection tool and test part should be rigidly fixtured to prevent separation when under pressure (fixturing not required for vacuum applications).

## ACTUATION METHOD

**Pneumatic:** Pilot pressure applied to seals with no metal contact and uniform seal movement seals inside tubes and pipes with no marring.

## ICON™ TECHNOLOGY

SURE SEAL™

SEAL LIFE™

**For part numbers or additional product information:**  
Contact [fastsales@fastestinc.com](mailto:fastsales@fastestinc.com)

# FE / EXTERNAL SEALING CONNECTION TOOL

Pneumatic sealing connection tool for external sealing in automated and semi-automated processes.

**AVAILABLE RANGE:** .030" to 5.040" (0.76mm to 128.02mm)

Straight Expanded Flared Beaded Barbed Formed Swaged



## SPECIFICATIONS

Pressure Rating	Pilot Pressure	Operating Temperatures**
Vacuum to 500 psi (34 bar)	60 psi (4.1 bar)	0°F to +200°F (-17°C to +93°C)
Termination Port	Materials of Construction	Seal Material*
Female 10-32 UNF, M5X8, NPT/BSPP (G): 1/8 to 2 1/2	Anodized Aluminum, Stainless Steel, Potted PCA	Standard: Neoprene, Urethane Optional: FKM, Buna-N, EPDM, FDA White Neoprene

\* Additional seal material types available, consult factory.  
\*\* Operating Temp: 32°F-100°F (0°C-38°C) for ICON™.

**i** Sealing Connection Tool and test part should be rigidly fixtured to prevent separation when under pressure (fixturing not required for vacuum applications).

## ACTUATION METHOD

**Pneumatic:** Pilot pressure applied to seals with no metal contact and uniform seal movement seals inside tubes and pipes with no marring.

## ICON™ TECHNOLOGY

SURE SEAL™

SEAL LIFE™

**For part numbers or additional product information:**  
Contact [fastsales@fastestinc.com](mailto:fastsales@fastestinc.com)

- 1** Automated processes and high volume production testing including pick-and-place and delicate robotic handling applications
- 2** Capable of sealing conventional and unique sealing surfaces including threads with the addition of a pilot booster
- 3** Quick change seal sets to accommodate multiple sizes of tubing and easy field maintenance - use neoprene for standard sealing, use urethane for maximum abrasion resistance / high pressure and duty cycle applications

# MIT / INTERNAL CONNECTIONS

Manual twist sealing connection tool for internal threaded ports.

**AVAILABLE RANGE:** 1/8" to 4" (3.175mm to 101.6mm) Threads



## SPECIFICATIONS

Pressure Rating	Operating Temperatures	Materials of Construction
Vacuum to 10,000 psi (689 bar)	-40°F to +200°F (-40°C to +93°C)	Stainless Steel
Termination Port		Seal Material*
NPT, SAE 37° Flare		Urethane, Neoprene, or Buna-N

\*Additional seal material types available, consult factory.

## ACTUATION METHOD

**Manual Twist:** Finger-tight connection eliminates tape and sealants

## ICON™ TECHNOLOGY

Consult Factory

**For part numbers or additional product information:**  
Contact [fastsales@fastestinc.com](mailto:fastsales@fastestinc.com)

- 1 Pressure assisted sealing eliminates leaks and resists movement under pressure
- 2 Leak-tight seal prevents contamination of media and reduces scrap and test damage
- 3 Available in flow or plug versions
- 4 Quick and easy seal replacement to minimize down time, maintenance, and tool inventory

# MET / EXTERNAL SEALING CONNECTION TOOL

Manual twist sealing connection tool for external threads.

**AVAILABLE RANGE:** 1/8" to 3" (3.175mm to 76.2mm) Threads



## SPECIFICATIONS

Pressure Rating	Operating Temperatures	Materials of Construction
Vacuum to 10,000 psi (689 bar)	-40°F to +200°F (-40°C to +93°C)	Stainless Steel
Termination Port		Seal Material*
NPT, SAE 37° Flare		Urethane

\* Additional seal material types available, consult factory.

## ACTUATION METHOD

**Manual Twist:** Finger-tight connection eliminates tape and sealants

## ICON™ TECHNOLOGY

Consult Factory

**For part numbers or additional product information:**  
Contact [fastsales@fastestinc.com](mailto:fastsales@fastestinc.com)

- 1 Pressure assisted sealing eliminates leaks and resists movement under pressure
- 2 Leak-tight seal prevents contamination of media and reduces scrap and test damage
- 3 Available in flow or cap versions
- 4 Quick and easy seal replacement to minimize down time, maintenance, and tool inventory

# FN / INTERNAL SEALING CONNECTION TOOL

Internal thread grip and seal tool that uses threaded collets to grip threaded bores for high pressures.

**AVAILABLE RANGE:** 1/8" to 7/8" (3.175mm to 22.225mm) Threads



- 1** Pressure assisted grip and proprietary design locks the connector securely in the port, even when used in dynamic hydraulic applications
- 2** Instant threaded sealing connection up to 5,000 psig without tape, sealant, or wrenches - significantly reduces process time
- 3** Split collet design locks securely and will not damage threaded ports
- 4** Self aligning connector requires no operator adjustment
- 5** Quick and easy seal replacement to minimize down time, maintenance and tool inventory

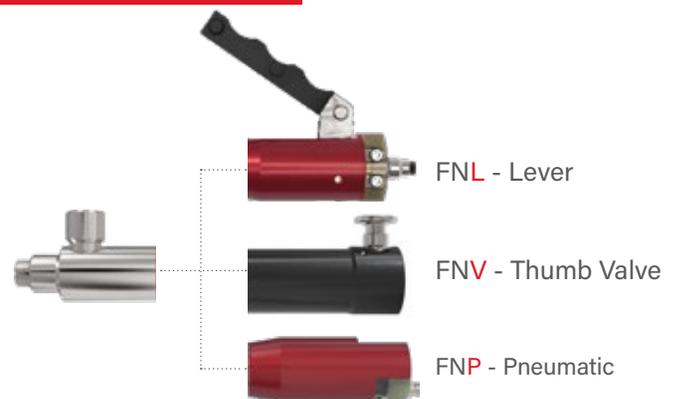
## SPECIFICATIONS

Pressure Rating	Operating Temperatures	Materials of Construction
Vacuum to 5000 psi (345 bar)	-40°F to +250°F (-40°C to +121°C)	Anodized Aluminum, Stainless Steel, Potted PCA
Termination Port		Seal Material*
BSPP (G) or FNPT		Buna-N

\*Additional seal material types available, consult factory.  
 \*\* Operating Temp: 32°F-100°F (0°C-38°C) for ICON™.

**i** Side load rating varies depending on size and insertion.

## ACTUATION OPTIONS



## ICON™ TECHNOLOGY



**For part numbers or additional product information:**  
 Contact [fastsales@fastestinc.com](mailto:fastsales@fastestinc.com)



# ICON™

INTELLIGENT CONNECTION TECHNOLOGY

FasTest's ICON™ adds sensing capabilities to our mechanical Sealing Connection Tools. ICON™ Tools include instant LED visual feedback and data output to improve sealing connection accuracy, maximize production efficiency, and optimize maintenance.



## ICON™ features:



### SURE SEAL™

Instant LED feedback verifies a good connection prior to starting a test.



### SEAL LIFE™

Alert when the main seal is at end of life and must be replaced.

## » Improve safety during functional tests.

SURE SEAL™ provides an instant LED indication of a safe and secure connection. Identify short-connects before media is introduced to prevent spills.

## » Eliminate leak test false failures to improve first pass yield.

With ICON™, if the product fails a test, the connections should not be a source of leaks.

## » Increase throughput and reduce downtime.

Safe, reliable, and consistent connections every cycle - test more, quicker. Reduce rework and the need to retest.

## » Collect tool data.

Gather data on historical use, actuations, and cycle count to get better testing results.

## » Optimize seal maintenance.

SEAL LIFE™ indicates when the main seal needs to be replaced.

**Product  
Accessories**

**Charge Valve**



- Use with Charge Coupler to pressure up and hold pilot charge when an affixed airline is not usable
- Manually actuate pneumatic sealing connection tools

Part Number	Termination
ADM06102	1/8 NPT (standard)
ADM06502	1/8 BSPP
ADM06M5	M5
ADM061032	10-32

**Charge Coupler** PN: ADF05102



- Used with Charge Valve to introduce pressure without latching
- Internally valved
- Thread type: 1/8 NPT

**i** Charge Valve/Coupler & Slide Valve are typically used with FE, FI & FN connectors to actuate gripping function

**Slide Valve** PN: AV1021022



- Used to pressurize and exhaust pilot pressure for manual operation
- Thread type: 1/8 NPT

**ICON™  
Accessories**

**Programming Tool**

- Quickly program / calibrate ICON™ Sealing Connection Tools
- Eliminate the need for PLC programming
- LED connection status visual feedback
- Powered from wall adapter (included) or from a PLC (24VDC)

Part Number	Input Signal	Output Signal	Current Limit
SPCT0204	SSR	SSR	max 100 mA load
SPCT0204A	SSR	N/A	N/A

Green LED indicates good connection



**M8 Cable** PN: SPCAFS0602AMS06

- Straight Female M8 threaded Connector to straight Male M8 connector (6-wire 2m cable)



**M8 Cable** PN: SPCAFS0602C

- Straight Female M8 to Flying Leads (6-wire 2m cable)



# PROCESS FASTER. MINIMIZE REFRIGERANT LOSS.

NEW ACCESS PORTS + PROCESSING TOOLS



**NEW**

## Access Ports & Processing Tools

**COREMAX**® Faster Processing of Systems Using Schrader® Type Valves

**NEW** **PORTMAX**™ Rapid Evacuation of Large Capacity Systems

**NEW** **ZEROMAX**™ Easy Access for Small Systems using Processing "Stub" Tubes



# ZEROMAX™

## ZeroMax™ Access Port

The NEW ZeroMax™ System eliminates the need for Process "Stub" Tubes or crimp type capping systems and their associated crimping & welding equipment. OEM's and Service Technicians now have an easy, repeatable system access for rework, service, and end-of-life refrigerant recovery - that doesn't leak.

ZeroMax™ assures a hermetic, Zero-Leakage seal by incorporating FastTest's patent pending Access Port technology and Maximizes Accessibility.

### Applications:

- PTAC/VTAC Units
- Ducted Split Systems
- Commercial Display Units
- Refrigerators
- Mini Splits & VRV/VRF

Anywhere a Process Stub Tube is used.



Safer processing of flammable (A2L & A3) refrigerants

Cost reducing elimination of Process/Stub Tubes and the pinch & weld operation

Increased product quality

Accessibility while providing a hermetic metal to metal seal

Complete Processing Tool System is easy to use and optimizes manufacturing efficiency

## ZeroMax

The ZeroMax Processing Tools are designed to work seamlessly with the ZeroMax Access Port in all processing stages (Leak/Proof Test, Evacuation, Charging, Run Test, Final Fill & Reclaim/Rework). They work together with the Access Port to optimize your processing while adding easy rework and field accessibility.

### Leak/Proof Test

#### ZeroMax MBE

PN: CMPT10



- Connects directly to ZeroMax Seat.
- Non-valved

### Evacuation

#### ZeroMax Traveler

PN: CMPT40



- Connect to ZeroMax Seat
- Traveler remains connected until processing is complete.

#### ZeroMax MBV

PN: CMPT20



- Connect MBV to Traveler for evacuation process.

### Charge

#### ZeroMax Traveler

PN: CMPT40



#### ZeroMax RQD

PN: CMPT30 or CMPT31 (Reclaim)



- Connect RQD to traveler at charging station.

**MILLIONS OF UNITS  
IN SERVICE**

# COREMAX

## CoreMax Access Valve

The **CoreMax Access Valve & Seat System** provides up to five times greater processing flow than common Schrader® type Valves and the integral shut off valve has dramatically improved sealing performance.

Plus, the 1/4 flare profile is compatible with standard processing and service tools.

**Applications:**

- Residential Packaged Units
- Small Commercial Packaged Units
- Commercial Ice Makers
- Food Merchandising Cases
- Swimming Pool Heat Pumps

**Anywhere a Schrader type Valve is used & faster processing is desired**



Increased flow up to 5x

Safe and ergonomic connections – fewer safety claims

Increased throughput - 30% reduction in processing time of 30 ton units

Reduced warranty costs - 99% drop in rework and warranty claims

Reduced repair costs - 80% decrease in tooling investment and 50% decrease in maintenance costs

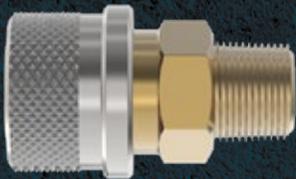
**Compatible with R-22, R404, R410A, R-407C, R-134A, and "next generation" refrigerants, e.g. R32, R454b**

**CoreMax Processing Tools** are designed to work seamlessly with the **CoreMax Access Valve** in all processing stages (Leak/Proof Test, Evacuation, Charging, Run Test, Final Fill & Reclaim/Rework). Together they form a flexible system that shortens processing times, while improving the quality of refrigeration products.

**Leak/Proof Test**

**CoreMax MBE**

PN: SCM062W

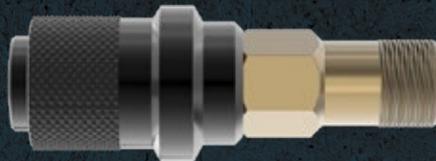


- Use at Leak/Proof Test stations. Latches to the CoreMax Seat.

**Evacuation**

**CoreMax OEM SnapMate™**

PN: SCP062H

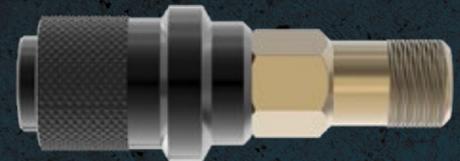


- CoreMax OEM SnapMate can be used at any process station to connect and open the CoreMax Valve, including evacuation.

**Charge**

**CoreMax OEM SnapMate™**

PN: SCP062H



- CoreMax OEM SnapMate can be used at any process station to connect and open the CoreMax Valve, including refrigerant charge.
- An internal shut off valve stops flow when disconnected.
- Smooth connect/disconnect action.

**CoreMax Core Insertion Tool**

PN: SCFT10



- Fastest evacuation rate vs. OEM SnapMate.

# PORTMAX™

## PortMax™ Access Port

The **NEW PortMax™** Access Port System is designed to reduce processing time, specifically the long evacuation times to degas/dehydrate large volume refrigerant systems currently processing through Packed Angle or Ball Valves.

### Applications:

Large Industrial & Commercial Refrigeration Package Systems

- Industrial Refrigeration
- Commercial Refrigeration
- Air & Water Cooled Chillers
- Cold Chain
- Air Handlers

Anywhere Packed Angle/Ball Valves are used.



True metal to metal hermetic sealing in two places eliminates refrigerant loss

High flow design can speed up evacuation by up to 45% resulting in faster "Takt Time"

Turn-key, an integrated system of properly matched components from one supplier

Easily integrated into piping system & requires no new processes

Reduced number of access ports and associated costs

**Compatible with current & next generation refrigerants including high-pressure transcritical CO2 systems (rated to 2031 psig/140 bar)**

## PortMax

**PortMax Processing Tools** are designed to work seamlessly with the PortMax Access Port in all processing stages (Leak/Proof Test, Evacuation, Charging, Run Test, Final Fill & Reclaim/Rework). Together they form a flexible system that shortens processing times, while improving the quality of refrigeration products.

### Leak/Proof Test

#### PortMax Leak Test Tool

PN: CMFT60



- Use at Leak/Proof Test stations. Latches to the PortMax Seat.
- Smooth connect/disconnect action.

### Evacuation

#### PortMax Evacuation Tool

PN: CMFT80



- Use at Evacuation stations. Latches to PortMax Seat.

### Charge

#### PortMax Charge Tool

PN: CMFT70



- Use at Charge stations (or Evacuation stations). Latches to PortMax Seat

# EVA@MAX™ MOBILE EVACUATION CART

An Automated Total Evacuation Solution



The Evacuation Cart is a turn-key, optimized solution with real-time tracking and data capabilities directly from FasTest.

Designed to integrate with the PortMax™, CoreMax®, and ZeroMax™ access port systems.

- OR -

Can be used with common refrigeration system access valves, E.G. Packed Angled, Ball, Schrader Valves.

- Fully automated easy-to-use intuitive design, set target vacuum, vacuum decay limits and monitor in real time. Store and download evacuation data records.
- Facilitates process improvement and optimization.
- Lockable storage cabinets safely store components when not in use. Full line of accessories to meet your needs.
- Mobile cart can be used in plant, at installation site and for service.
- Durable construction will provide years of reliable service.

Contact FasTest for details on specifying EvacMax for your application.

## FULLY AUTOMATIC EVACUATION

### SET

Set target vacuum, vacuum decay and number of retry parameters. EvacMax can save up to 6 evacuation profiles for quick access.



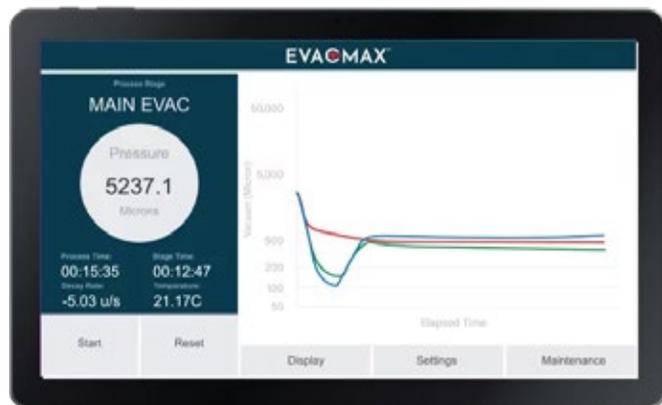
### START

Start the evacuation.



### GO

EvacMax™ will do the rest.





## FASTEST GLOBAL DISTRIBUTION NETWORK



**Interested in Learning More? Have Questions?**

**Contact Us.**

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651.251.9741



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