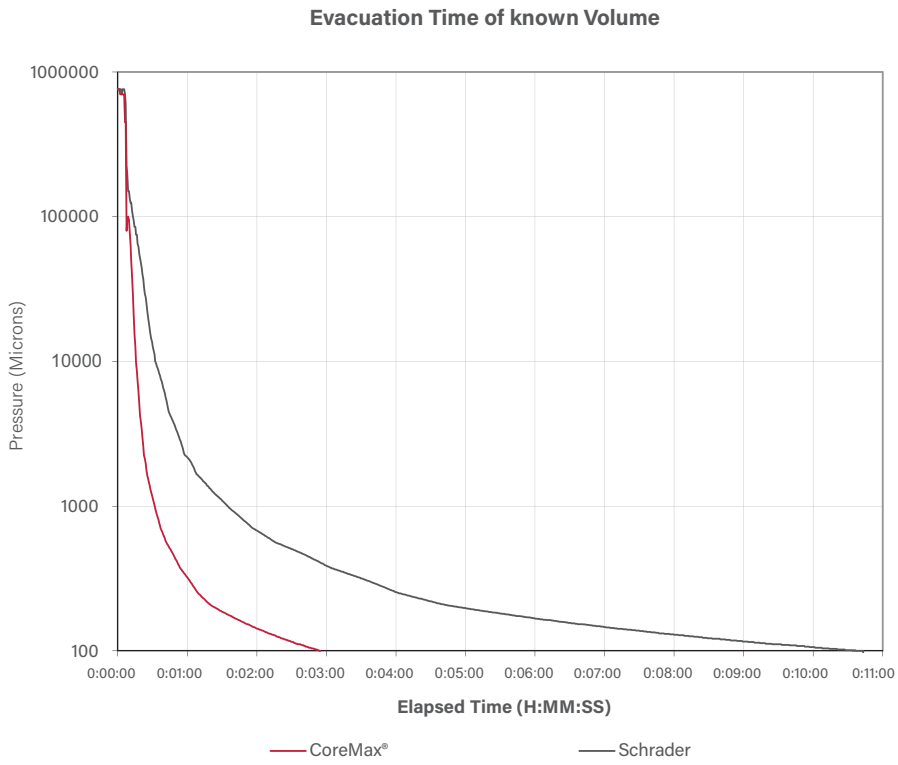
COREMAX® SYSTEM

A Complete Solution for Efficient Refrigerant Processing & Leak Testing of HVAC Systems

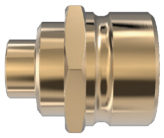
The **CoreMax®** System eliminates process tubes and Schrader® valves for faster evacuation times, improved quality, greater throughput, and less maintenance costs.



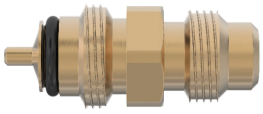
COREMAX BENEFITS

1. An entire processing solution for HVAC including tools that has over 20 million units installed in 8 countries and 3 continents
2. Eliminates process tubes and Schrader® fittings
3. Provides increased efficiencies and throughput due to increased flow, resulting in reduced costs
4. Provides the largest vacuum conductance in the industry
5. Proven family of tools specifically designed for manufacturing and service that reduce plant tooling costs by up to 15%
7. Ergonomic tools reduce operator fatigue and overall manufacturing costs
8. Robust sealing solution designed specifically for the HVAC industry for sealing longevity and reduced warranty costs
9. Reduce rework from leaking Schrader valves by up to 99%
10. Conforms to the 7/16-20 45° flare interchangeable standard comonly used for access valves making it field service friendly. Completely compatible with standard refrigeration tooling and connections

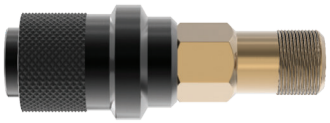
MANUFACTURING PROCESSING TOOLS



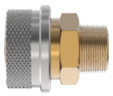
CoreMax Seat



CoreMax Valve



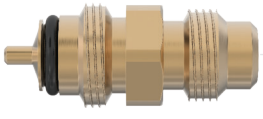
SnapMate OEM



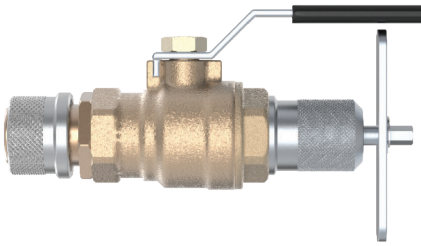
MBE Connector

Core Valve Insertion Tool

FIELD / MANUFACTURING SERVICE TOOLS



CoreMax Valve



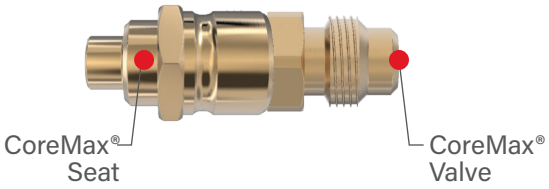
Core Valve Removal Tool

SnapMate Service

CoreMax® / Valve & Seat Styles

CoreMax® Valve mates with the CoreMax® Seat to form the complete access valve.

MATES WITH COREMAX® SEAT FOR COMPLETE ACESS VALVE:



SPECIFICATIONS

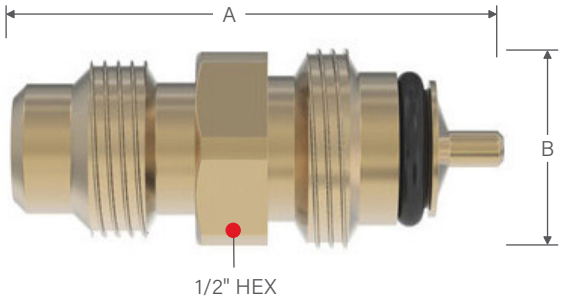
Pressure Rating	Operating Temperatures	Materials of Construction
Vacuum to 700 psi (48.2 bar)	-40°F to +250°F (-40°C to +121°C)	Stainless Steel, Neoprene®

COREMAX® SEATS

For complete acess valve.

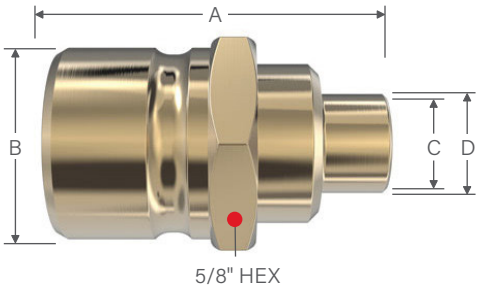
- Manufactured to exacting tolerances, the seat is designed to mate with the CoreMax® valve core and form the sealing capability
- Designed with gripping and sealing surfaces to work with the CoreMax® system toolsInternally valved
- Many options are available to fit any user system

1. Specifically designed for refrigeration applications maximizing flow and robust sealing technology.
2. The CoreMax® core utilizes one elastomeric seal to seal both the valve as well as the joint between the core and the seat. There is a metal to metal seal between the core and seat to ensure a complete seal.
3. The valve core pin position is manufactured to exact tolerances for consistant sealing and maximum valve opening for the highest flow available. The Valve conforms to ARI standard 720 for pin height
4. The CoreMax® valve has a 7/16-20 45° flare which is the industry standard for access valves, so all standard service tools can be used.



Ordering Information	Dimensions	
Part Number	A	B
CoreMax® Valve | Mates with CoreMax® Seat for Complete Access Valve		
SCCA07H	1.00 (25.4)	1.00 (25.4)

Dimensions: inch (mm)



Ordering Information			Dimensions				
Style	Size	Part Number	A	B	C	D	Installed Length*
CoreMax® Seats | Multiple Styles for User's Application							
Stub Tube	1/4	SCH0730A01	1.00 (25.4)	0.21 (5.3)	0.22 (5.6)	0.31 (7.9)	1.26 (32.0)
	3/8	SCH0730A03			0.32 (8.1)	0.43 (10.9)	
Saddle Mount	3/8 - 0.38 Hole	SCH0730B02	0.92 (23.4)	0.13 (3.3)	0.28 (.71)	0.37 (9.4)	
	1/4 - 0.22 Hole	SCH0730B03		0.07 (1.8)	0.17 (4.3)	0.22 (5.6)	
	1/4 - 0.25 Hole	SCH0730B04		0.13 (3.3)	0.18 (4.6)	0.25 (6.4)	1.33 (33.8)
Panel Mount	1/4	SCH0730C03	1.29 (32.8)	0.67 (17.0)	0.22 (5.6)	0.35 (8.9)	
	3/8	SCH0730C04			0.35 (8.9)	0.44 (11.2)	
NPT	1/4	SCH0730E01	1.15 (29.2)	0.54 (13.7)	0.31 (7.9)	-------	

Dimensions: inch (mm)

* Installed length is CoreMax® Valve and CoreMax® Seat torqued together.

MANUFACTURING PROCESSING TOOLS

SnapMate OEM

PN: SCP062H

Pressure Rating	Termination	Materials of Construction
10 millitorr (micron) vacuum to 700 psi (48.2)	3/8 MNPT	Stainless Steel, Brass, Neoprene

- Internal valve opens automatically upon connection and closes upon disconnection.
- Can be actuated under full pressure due to its mechanical advantage design and used in both vacuum and pressure applications
- Grips behind threads to eliminate potential thread damage with matched flow through the CoreMax® valve for efficient processing.
- Easy sleeve action is ergonomic and eliminates repetative twisting and turning - Push to connect, pull to release

APPLICATION

Use at burst, evacuation, charge and rework stations for generalized processing. Use at every station to connect to CoreMax® Valve.

MBE

PN: SCM062W

Pressure Rating	Termination	Materials of Construction
10 millitorr (micron) vacuum to 700 psi (48.2)	3/8 MNPT	Stainless Steel, Brass, Neoprene

- Pressure interlocks prevent sleeve actuation under pressure
- High flow connection tool with no flow retriction. Used to maximize flow through the seat
- Grips over the seat so it can be used with or without the CoreMax® valve
- Easy sleeve action is ergonomic and eliminates repetative twisting and turning

APPLICATION

Use at burst, leak test stations with or without CoreMax® valve. Use at evacution station with CoreMax® Valve installed.

Core Valve Insertion Tool

PN: SCFT10

Pressure Rating	Termination	Materials of Construction
10 millitorr (micron) vacuum to 700 psi (48.2)	3/8 FNPT	Stainless Steel, Neoprene

- Pressure interlocks prevent sleeve actuation under pressure
- Grips over valve seat to allow for maximum evacuation through the seat prior to inserting CoreMax core valve
- Available load tool for easy core insertion into the tool. Fastest PN: SCFTL1010
- Easy sleeve action is ergonomic and eliminates repetative twisting and turning

APPLICATION

Use at evacuation stations to maximize flow for extreme volumes to achieve maximum throughput. Insertion of valve core prior to further processing.

Installation Oiler

PN: SCL321

Materials of Construction
HDPE, Brass

- Custom nest to oil CoreMax core with overflow containment
- Reservoir has check valve to keep small amount of oil available for lubrication
- Oil containment keeps contaminants away and minimizes oil exposure to atmosphere
- Pump to fill reservoir

APPLICATION

Use to oil the CoreMax® Valve core prior to insertion and torque into valve seat.

FIELD / MANUFACTURING SERVICE TOOLS

Core Valve Removal Tool

PN: SCFT20A

Pressure Rating	Termination	Materials of Construction
10 millitorr (micron) vacuum to 750 psi (51.7)	N/A	Stainless Steel, Brass, Neoprene®

- Pressure interlocks prevent sleeve actuation under pressure
- Grips over the valve seat to allow for CoreMax® Valve core removal and replacement without reclaiming the system
- Ball valve design to shut off system pressure
- Easy sleeve action is ergonomic and eliminates repetative twisting and turning. Thread out/in core, rotate ball valve and replace.

APPLICATION

Use to remove and replace CoreMax® Valve core in charged units.

SnapMate Service

PN: SCTA07H

Pressure Rating	Termination	Materials of Construction
Vacuum to 625 psi (43.1)	7/16 45° Flare	Stainless Steel, Brass, Neoprene®

- Internal valve opens automatically upon connection and closes upon disconnection and has internal actuation pin to open CoreMax® Valve
- Threaded collets grip in the threads of any 7/16-20 45° flare access valve (CoreMax and Schrader)
- Can be actuated and removed under standard system pressure
- Easy sleeve action is ergonomic and eliminates repetative twisting and turning - Push to connect, pull to release

APPLICATION

Use by HVAC service technitions for field service.

Electric Torque Wrench

PN: SCFTP0502

Materials of Construction
IR Electronic Tool

- Pre-programmed to CoreMax® specifications of <200RPM and 8ft-lbs torque
- Hold and drive feature supports the seat so no stress is incurred on the system or operator
- 20 volt battery powered tool. Can be programmed to taylor specific needs
- Pull trigger to run tool to proper torque

APPLICATION

Use to proper torque the CoreMax® Valve core into the core seat.

Manual Torque Wrench

PN: SCFTM01

Materials of Construction
Stainless Steel

- Break away torque wrench pre-set to proper torque of 8ft-lbs.
- Manually twist wrench to pre-set torque

APPLICATION

Use to proper torque the CoreMax valve core into the core seat.

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