

FastTest
Your Connection To Quality



CoreMaxTM
SYSTEM

Rapid Evacuation and Refrigerant Charging

U.S. Patent #6,050,295. Other foreign and domestic patents applied for.



SnapMate™



CoreMax™ High Flow Valve



Seat



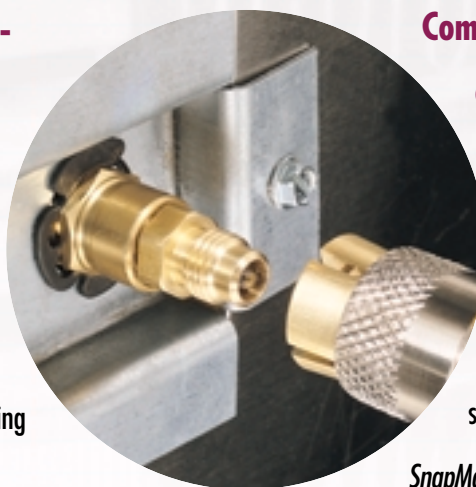
Torque Tool

The CoreMax™ system incorporates a new high-flow valve to evacuate and charge faster.

The CoreMax system is a family of manufacturing and service tools designed to work with a new high-flow valve. Together they form a flexible system that shortens processing times, while improving the quality of refrigeration products.

The revolutionary CoreMax high-flow valve dramatically increases flow.

CoreMax provides up to six times greater processing flow, plus dramatically improved sealing, faster access connections and at the same time, improved manufacturing tool durability and ergonomics.



Panel Mount

A replacement for process tubes. No pinching. No on-line brazing.

Evacuation and fill times are comparable with process tubes with no pinching, no on-line brazing and no

material waste. Evacuating through the CoreMax valve with the SnapMate® connector is as fast as through a 1/4" process tube. Using the core insertion tool, evacuation through the CoreMax seat provides the shortest cycle time possible.

Completely compatible with existing caps and service connections.

The front end of the CoreMax valve uses the same thread, taper and sealing surface as those in ANSI/ARI standard 720-88 refrigeration access valves. This allows the use of all existing caps and service connections. Even better, use the high-flow SnapMate connector which allows processing almost as fast as a 1/4" tube in the field.

CoreMax system components work together for high flow and ease of use.

Unlike other systems, *CoreMax* is an integrated system design, not just a component design. It's designed to allow processing through the seat or *CoreMax* valve, while other systems are not designed for processing. This is the only system with all components specifically designed to work together to maximize flow, and provide quick, ergonomic operation for manufacturing as well as service personnel. All tools are specifically designed to last in a production environment, minimize media loss and quickly snap on and off. The system consists of the following components.

- **CoreMax High-flow Access Valve.**

Completely compatible with existing caps and service connections.

- **SnapMate.** Used in manufacturing and service for high-flow access to charging and evacuation through *CoreMax* valve.

- **Seat.** Valve screws into seat. Works with core insertion tool to provide maximum process speed.

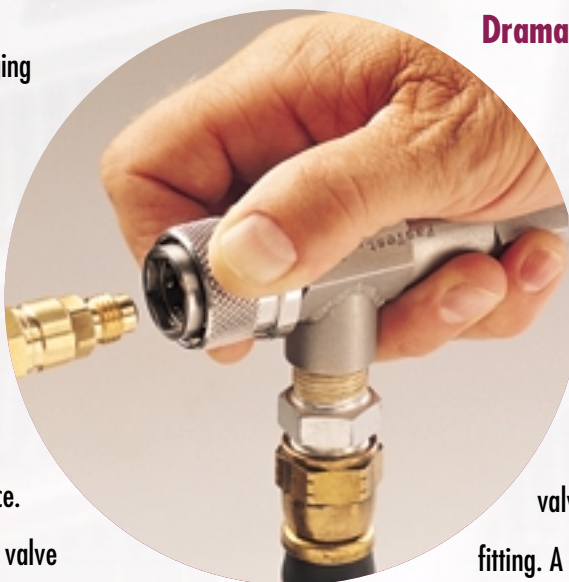
- **Core Insertion Tool.** A manufacturing tool that provides processing without the valve core in place. After charging, a torque tool installs the valve core into the seat.

- **Torque Tool.** A pneumatic gun used to properly torque the valve core into the seat. It can be used with or without the core insertion tool and prevents torque transfer to the brazed joint.

- **Core Removal Tool.** Manual or pneumatic operation used to replace a valve core seal in service or manufacturing with minimal loss of refrigerant.



SnapMate and Service Valve



Core Insertion Tool

Dramatically better sealing.

The system is centered around the *CoreMax* high-flow access valve. Common access valves have a sleeve seal between the valve core and the tube fitting and an o-ring elastomer seal on the valve, creating two leak paths.

CoreMax uses one elastomer to seal the valve and between the core and the tube fitting. A metal to metal seal is also provided between the core and tube fitting for redundancy.

In addition, the *CoreMax* valve core pin positioning is manufactured to exacting tolerances to ensure consistent sealing. Reaching the specified torque guarantees proper positioning and leak-tight operation.



FasTest provides solutions to fluid flow and fluid testing applications.

FasTest, Inc. is the leading innovator in tools for leak testing, filling and evacuation of liquids and gases. Our fast, leak-tight connectors mate with threads, holes (circular and non-circular), tubes, flares, beads and other formed ends.

Manual and automatic operation expand the applications even further. Companies in a variety of industries use quality FasTest products: appliances, automotive, refrigeration, aerospace, hydraulics, pneumatics, instrumentation, medical equipment.

Talk to us.

For more *CoreMax* system information, go to www.fastestinc.com or call us toll-free at 1-877-613-5139.

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CODE# FT297 9/00 3M

BENEFITS	ELIMINATES
Fast-fill and evacuation times	On-line pinching and brazing
Fast, easy and ergonomic access connections	Material waste
Lower production tool maintenance	False leaks from process tools
Quick high flow service connections	Excessive refrigerant loss
	Some brazed joints
	Manual threading

System features:

CoreMax HIGH - FLOW VALVE

- Provides approximately the same flow as 1/4" process tube
- Completely compatible with commonly used connections and caps—uses the same thread, taper and sealing surface as commonly used valves
- Seal alignment held to exacting tolerances

SEAT

- Standard size fits OD of 1/4" tube through 3/8" tube
- Stub tubes, side mounts, panel mounts and custom mounts also available
- Tube stop for ease of assembly

Core insertion tool features:

- Provides evacuation times less than a 1/4" process tube—actual times depend on the seat size
- Designed for the rigors of production, pneumatically operated
- Sleeve actuation for quick, easy to use connection

Core removal tool features:

- Pneumatic or manual operation includes ball valve to replace a core under pressure with minimal media loss

SnapMate features:

- Provides approximately the same flow as a 1/4" tube
- Snaps on and off for quick access under pressure
- Available in both service and production versions
- Internal automatic valve for minimal refrigerant emission

Torque tool:

- Prevents torque transfer to brazed joints
- Designed for the rigors of production, pneumatically operated

Integrated features:

CoreMax HIGH-FLOW CORE AND SEAT

- Elastomer seal with redundant metal-to-metal seal
- Cap-removal torque is less than core-removal torque
- Encapsulated o-ring seal keeps o-ring in place under pressure
- External hex on both valve body and seat eliminates assembly forces on brazed joints

CoreMax HIGH FLOW VALVE SNAPMATE

- Production version grips at base of threads for long life and ease of use
- Service version grips threads to be compatible with other access valves

Represented by:

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