

# Install confidence

## Refrigerant solenoid valves



# Best in class performance

Emerson Climate Technologies industry-leading solenoid valves offer a full range of sizes and features for most refrigeration and air-conditioning applications. Install them in a supermarket, a refrigerated truck, an ice machine or a commercial rooftop unit for trouble-free, leak-free functionality. Choose refrigerant solenoid valves in field-replacement applications for peace of mind – knowing they will perform reliably – protecting the system and your reputation.

## The difference is in the design

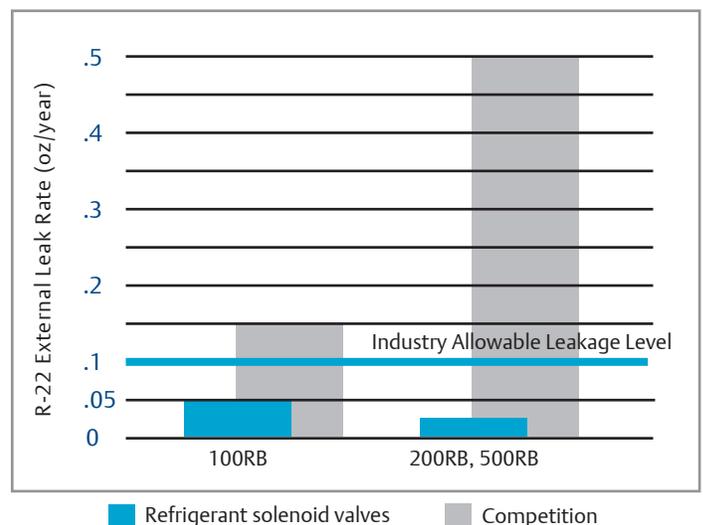
Emerson Climate Technologies offers a complete line of refrigerant solenoid valves, but that's not where the benefits end. The internal construction of Emerson 100RB, 200RB and 500RB solenoid valves feature proprietary gasket technology which virtually guarantees hermetic performance over the life of the valve while still allowing field serviceability. Because this new technology is available for field serviceable solenoid valves, the gasket can be replaced for 'new valve' performance.

But the Emerson design innovations extend far beyond the gaskets. Our choice of dissimilar materials (brass piston in stainless steel collar) minimizes wear and ensures longer life. We specify the highest quality stainless steel plunger material to eliminate the possibility of residual magnetism so that the valve will not malfunction or stick in the open position. Even if the valve is oversized, our design ensures failsafe operation (closed).

What's a solenoid valve without a replaceable coil? With Emerson's product line, all you need is one coil series for any valve size. This means less inventory on the wholesaler's shelf and in the contractor's truck.



## Emerson refrigerant solenoid valve external leak test results after thermal cycling



## One coil series for every field-serviceable solenoid valve

One coil series for every field-serviceable solenoid valve brings many benefits to everyone that uses the Emerson product line:

- Less product a contractor is required to carry on his truck to accommodate different jobs
- No question as to which coil model to install
- A full line of voltage options to meet any application
- Insulated coil windings for added protection against water, shock and vibration
- Innovative clip design snaps the coil in place so there are no screws to lose



The AM series coil is available with the following options:

- Junction box
- 18 inch leads
- Spade connections
- Conduit connections

## Refrigerant solenoid valves set the low-leak benchmark

It takes a special company to design a field-rebuildable solenoid valve that meets the industry standard when it comes to external leak rates. That's exactly what Emerson Climate Technologies did.

In fact, Emerson's solenoid valves don't just meet the industry standard – they set a new benchmark for external refrigerant leak rates – regardless of whether they are installed in the factory or in the field.

During normal operation, solenoid valves can experience wide temperature swings. Over time, these temperature changes decrease the effectiveness of the competitions' gaskets. The longer the valve has been installed, the higher the the risk of developing a leak. The graph to the left shows that Emerson's gasket technology minimizes leakage over the life of the valve – keeping leaks well below the industry's allowable level.

Feature	Advantage	Benefit
100% factory tested for both external and internal leaks	Reduces refrigerant leaks and maintenance	Improved food quality, reduced food spoilage and fewer call backs
Dissimilar materials (brass piston in stainless steel body)	Less scoring	Minimizes wear and ensures longer life
Gasket technology	Provides a non-porous, high-integrity seal that can be replaced for "new valve" performance	Zero leaks for trouble-free performance and maintenance
Repair kits for all sizes and applications	Easier solenoid repairs	Saves time and money
Manual override stem option	Valve can be manually opened during system start-up and service	Reduces service time and simplifies troubleshooting
Hot gas capability on all models	Each design platform is suitable for wide temperature ranges	Offers maximum application versatility with one valve size used on all applications
Available in ODF, SAE and extended ends	Offers a full range of connections	The right connections are available for each job without the need for adapter fittings
UL/CSA certification	Conforms to internationally recognized safety requirements	Assures the designs are safe
Single coil family for all models and applications	Minimizes stocking requirements	The right coil size is always available for quick service

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