



JB INDUSTRIES

**IT TAKES
AMERICAN
GUTS
TO BUILD IT RIGHT HERE.**



OUR 2026 PUMP LINEUP — AMERICAN SWEAT, STEEL, AND GRIT. ZERO IMPORTED PLASTIC.

JUST BETTER

MADE IN USA 



2025 was a year marked by uncertainty around the world, yet JB Industries remained steady in our commitment to American manufacturing. As we approach six decades of producing quality products in the United States, our belief in supporting domestic suppliers and the American workers who build our products every day is stronger than ever. Even through tariffs, global instability, and constant changes in our industry, JB continued to deliver on time and uphold the reliability our partners depend on. None of that would be possible without our JB team, whose commitment to quality and customer support stands at the heart of everything we do.

To our wholesale customers and partners, I want to express my sincere thanks. Continuing to support American manufacturing takes commitment, belief, and frankly, it takes guts. Your confidence in our brand, our products, and the American workforce behind them means everything to us.

Over the past year, we took a close look at our vacuum pump lineup and streamlined it to make stocking and selling JB pumps simpler than ever. The result is a focused lineup built around our best-performing and most trusted models. From the dependable Eliminator Classic, to the Platinum Force Advanced Grade, to our top-tier Platinum PRO Professional Grade, each pump is A2L compatible and built American-tough from domestically sourced materials. In the pages ahead, you'll find clear, reliable choices that give technicians the confidence to select the right pump for every job. Because JB is a true manufacturer, not just an assembler, we maintain the flexibility to build to specification. If you don't see the configuration you need, we'll make it.

This coming year, we're also challenging technicians to take a hard look at what they're investing in. Imported pumps may come with shiny designs or attention-grabbing features, but are they delivering real long-term value? At JB, we believe strength, performance, and service matter more than show. For the same investment, technicians can choose American-made durability backed by a customer support team working in the same building where not only pumps, but fittings, hoses, manifolds, and more, are engineered and built from American materials by people who stand behind every unit we produce.

Our promise for 2026 is straightforward: we will keep doing what we do best—delivering premium, dependable products, consistent partnership-focused service, and a continued commitment to American craftsmanship. Thank you for your trust, and for standing with us as true partners in that mission.

Jeff Cherif
President, JB Industries

It Takes American Guts: The JB Story

Take a behind-the-scenes look at our Aurora, Illinois factory, where authentic American manufacturing comes to life every day. Built with pride, our materials, processes, and people reflect our deep commitment to American-made quality, exceptional service, and the reliability that defines the JB way.



JUST BETTER HVAC: Follow Us and Let's Talk About It.

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Look for our A2L call-out throughout the catalog for A2L compatible products and product categories.



Vacuum Pumps







NEW

A PUMP LINEUP THAT WORKS FOR YOU.

We've streamlined our vacuum pump offering to make stocking and selling JB pumps easier than ever. The result is a focused lineup built around our best-performing and most trusted models.

NEW FOR 2026:

All pumps listed below are A2L compatible and have a 1/2" intake tee.

| | PART NO. | CFM | A2L COMPATIBLE |
|--|------------------|-----|----------------|
| PLATINUM PRO  | DV-240DC | 8.4 | ✓ |
| | DV-285DC | 10 | |
| | DV-340N | 12 | |
| PLATINUM FORCE  | DV-6EDC | 7.2 | ✓ |
| | DV-200N | 8 | |
| PLATINUM FLEX  | DV-85-FLEX | 3 | ✓ |
| | DV-85-FLEX-CORE | 5 | |
| | DV-142-FLEX | 3 | |
| | DV-142-FLEX-CORE | 5 | |
| ELIMINATOR CLASSIC  | DV-6E | 6 | ✓ |

Your JB Sales Representative can help you put together the best pump stocking plan for your business. Please reach out to them with any questions on our offering.

PLATINUM PRO

PROFESSIONAL GRADE VACUUM PUMP

AMERICAN CRAFTSMANSHIP FOR PROFESSIONALS.

CRAFTED WITH ATTENTION TO DETAIL.

- Check oil level at any time with LED back-lit sight glass
- Integrated bottle seal piercing spike for quick oil changes
- Wide, four point stable base for better balance
- IEC 10 ft. locking cord

CRAFTED WITH THE TRADE IN MIND.

- One-shot, full quart oil fill
- Drains oil 3x faster with 1/4 turn ball valve drain
- Dual-voltage 115/230V DC motor with sliding voltage switch
- A2L system compatible

STILL A BEAST



| PLATINUM® PRO VACUUM PUMPS | | | |
|----------------------------|--------------------|--------------------|--------------------|
| | DV-240DC | DV-285DC | DV-340N |
| CFM | 8.4 CFM | 10 CFM | 12 CFM |
| MOTOR | 1/2 HP DC Motor | 1/2 HP DC Motor | 1 HP DC Motor |
| VOLTAGE | 115v/230v/50Hz | 115v/230v/50Hz | 115v/230v/50Hz |
| INTAKE PORT | 1/2" x 1/4" x 3/8" | 1/2" x 1/4" x 3/8" | 1/2" x 1/4" x 3/8" |
| OIL CAPACITY | 32oz (946cc) | 32oz (946cc) | 32oz (946cc) |



**CRAFTED.
JUST BETTER.**

Vacuum Pumps

PLATINUM FORCE

ADVANCED GRADE VACUUM PUMP

AMERICAN-MADE TO TACKLE ANY JOB.

- 1/2 HP DC motor (DV-6EDC) and 1/2 HP AC motor (DV-200N) built to power through low-voltage conditions and A2L Compatible
- 15 micron vacuum rating for quick, reliable pull-downs
- Fully A2L-compatible for next-generation systems
- Gas ballast and blank-off isolation valve
- DV-6EDC Dual-voltage 115/230V—ready when and where you need it
- Internal check valve prevents oil back-flow during power failure
- Large, easy-to-see oil level sight glass with easy access oil fill
- O-ring sealed oil drain valve to prevent leaks and tethered safety cap to prevent oil spills
- Ergonomic 1/2" NPT break-resistant exhaust handle with lift ring
- All-metal construction with USA-sourced materials, brass fittings, and stainless-steel valving
- 2 year OTC Warranty



| PLATINUM® FORCE VACUUM PUMPS | | |
|------------------------------|---------------------|--------------------|
| | DV-200N | DV-6EDC |
| | 8 CFM | 7.2 CFM |
| MOTOR | 1/2 HP, 1725 RPM AC | 1/2 HP DC Motor |
| VOLTAGE | 115v/60Hz | 115v/230v |
| INTAKE PORT | 1/2" x 1/4" x 3/8" | 1/2" x 1/4" x 3/8" |
| OIL CAPACITY | 21oz (621cc) | 25 oz (739 cc) |
| WEIGHT | 32lbs (14.5kg) | 24 lbs (10.9kg) |



READY. FOR EVERY JOB.

PLATINUM FLEX

AC & BATTERY POWERED VACUUM PUMP

AMERICAN-MADE FOR MAXIMUM MOBILITY.

- Powered by 9.0Ah/18V lithium-ion battery or auto-switching dual voltage AC Adapter (sold separately)
- Compatible with multiple battery brands, including Milwaukee®, DeWalt®, and JB
- 1/2 HP brushless DC motor
- Fully A2L-compatible for next-generation systems
- All-metal construction with USA-sourced materials, brass fittings, and stainless-steel valving
- Low battery warning light with audible alert
- 15 micron vacuum rating for fast pull-down performance
- Gas ballast and blank-off isolation valve
- Metal construction with finned aluminum heavy-duty housing, brass fittings and stainless steel valving
- Ergonomic 1/2" NPT exhaust handle with lift ring
- Large, easy-to-read oil level sight glass with easy access oil fill located on cover
- O-ring sealed oil drain valve to prevent leaks and tethered safety cap to prevent oil spills
- Internal check valve prevents oil back-flow during power failure
- Field repairable
- 1-year OTC Warranty; 2-year on vacuum pump



DV-BP-BAT



DV-BP-CHRG



DV-BP-AC



| PLATINUM® FLEX VACUUM PUMPS | | | | |
|-----------------------------|--|--|--|--|
| | DV-85-FLEX-CORE | DV-142-FLEX-CORE | DV-85-FLEX | DV-142-FLEX |
| CFM | 3 CFM (85 l/m) | 5 CFM (142 l/m) | 3 CFM (85 l/m) | 5 CFM (142 l/m) |
| MOTOR | 1/2 HP, 1725 RPM | 1/2 HP, 1725 RPM | 1/2 HP, 1725 RPM | 1/2 HP, 1725 RPM |
| VOLTAGE | Battery: 9.0 Ah/18v Adapter: 115v/60Hz 230v/50Hz | Battery: 9.0 Ah/18v Adapter: 115v/60Hz 230v/50Hz | Battery: 9.0 Ah/18v Adapter: 115v/60Hz 230v/50Hz | Battery: 9.0 Ah/18v Adapter: 115v/60Hz 230v/50Hz |
| INTAKE PORT | 1/2" x 1/4" x 3/8" | 1/2" x 1/4" x 3/8" | 1/2" x 1/4" x 3/8" | 1/2" x 1/4" x 3/8" |
| OIL CAPACITY | 26oz (769cc) | 21oz (621cc) | 26oz (769cc) | 21oz (621cc) |
| BATTERY RUN TIME | Approx. 90 min. | Approx. 60 min. | Approx. 90 min. | Approx. 60 min. |
| INCLUDED | Pump Only | Pump Only | Battery, Charger and AC Adapter | Battery, Charger and AC Adapter |

Accessories

Accessories shown above are available in pump kits or sold separately.

**POWER TO GO.
ANYWHERE.**

ELIMINATOR CLASSIC

STANDARD GRADE VACUUM PUMP

AMERICAN-MADE FOR EVERY DAY DEPENDABILITY.

- Efficient 2-stage direct drive with 1/2 HP motor
- 25 micron vacuum rating for dependable performance
- Fully A2L-compatible with new refrigerants
- Quality American materials for lasting performance and an affordable price
- Ergonomic 1/2" break-resistant exhaust handle
- Large, easy-to-see oil level sight glass with easy access oil fill
- Tethered safety cap to prevent oil spills
- 100% field repairable
- 2-year OTC warranty




| ELIMINATOR® CLASSIC VACUUM PUMPS | |
|----------------------------------|--------------------|
| | DV-6E |
| CFM | 6 CFM |
| MOTOR | 1/2 HP AC Motor |
| VOLTAGE | 115v/230v |
| INTAKE PORT | 1/2" x 1/4" x 3/8" |
| OIL CAPACITY | 25 oz (739 cc) |
| WEIGHT | 30 lbs (13.6kg) |



BUILT TO WORK HARD. PRICED TO WORK SMART.

SHOW US YOUR AMERICAN GUTS AT WORK. **SNAP YOUR PUMP, FOLLOW JB AND DROP US A TAG.**

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Alternative CFM Pump Models Available Upon Request

| PLATINUM [®] PUMPS | | | | | | |
|--|------------------------|------------------------|------------------------|------------------------|---------------------------|-----------------------|
| | DV-42N | DV-85N | DV-142N | DV-285N | | |
| CFM | 1.5 CFM (42 l/m) | 3 CFM (85 l/m) | 5 CFM (142 l/m) | 10 CFM (285 l/m) | | |
| MOTOR | 1/2 HP, 1725 RPM | 1/2 HP, 1725 RPM | 1/2 HP, 1725 RPM | 1/2 HP, 1725 RPM | | |
| VOLTAGE | 115v/60Hz | 115v/60Hz | 115v/60Hz | 115v/60Hz | | |
| INTAKE PORT | 1/4" | 1/4" x 3/8" | 1/2" x 1/4" x 3/8" | 1/2" x 1/4" x 3/8" | | |
| OIL CAPACITY | 26oz (769cc) | 26oz (769cc) | 26oz (769cc) | 21oz (621cc) | | |
| SHIPPING DIMS | 17-5/8" x 9-1/8" x 14" | 17-5/8" x 9-1/8" x 14" | 17-5/8" x 9-1/8" x 14" | 17-5/8" x 9-1/8" x 14" | | |
| WEIGHT | 29lbs (13.2kg) | 30lbs (13.6kg) | 32lbs (14.5kg) | 34lbs (15.4kg) | | |
| PLATINUM [®] DUAL VOLTAGE AND SPARK-PROOF PUMPS | | | | | | |
| | DV-42N-250 | DV-85N-250 | DV-142N-250 | DV-200N-250 | DV-200N-250SP SPARK-PROOF | DV-285N-250 |
| MOTOR | 1/2 HP, 1725/1425 RPM | 1/2 HP, 1725/1425 RPM | 1/2 HP, 1725/1425 RPM | 1/2 HP, 1725/1425 RPM | 1/2 HP, 1725/1425 RPM | 1/2 HP, 1725/1425 RPM |
| VOLTAGE | 115v/60Hz, 230v/50Hz | 115v/60Hz, 230v/50Hz | 115v/60Hz, 230v/50Hz | 115v/60Hz, 230v/50Hz | 115v/60Hz, 230v/50Hz | 115v/60Hz, 230v/50Hz |
| PLUG OPTIONS* | US/EU/UK/AU/BR | US/EU/UK/AU/BR | US/EU/UK/AU/BR | US/EU/UK/AU/BR | US/EU/UK/AU/BR | US/EU/UK/AU/BR |
| ELIMINATOR PUMPS | | | | | | |
| | DV-3E | | DV-4E | | | |
| CFM | 3 CFM (85 l/m) | | 4 CFM (113 l/m) | | | |
| MOTOR | 1/2 HP, 1725 RPM | | 1/2 HP, 1725 RPM | | | |
| VOLTAGE | 115v/60Hz | | 115v/60Hz | | | |
| INTAKE PORT | 1/4" x 3/8" | | 1/4" x 3/8" | | | |
| OIL CAPACITY | 28oz (828cc) | | 25oz (739cc) | | | |
| SHIPPING DIMS | 17-5/8" x 9-1/8" x 14" | | 17-5/8" x 9-1/8" x 14" | | | |
| WEIGHT | 29lbs (13.2kg) | | 30lbs (13.6kg) | | | |
| ELIMINATOR DUAL VOLTAGE | | | | | | |
| | DV-3E-250 | DV-4E-250 | DV-6E-250 | DV-6E-250SP | | |
| MOTOR | 1/2 HP, 1725/1425 RPM | 1/2 HP, 1725/1425 RPM | 1/2 HP, 1725/1425 RPM | 1/2 HP, 1725/1425 RPM | | |
| VOLTAGE | 115v/60Hz, 230v/50Hz | 115v/60Hz, 230v/50Hz | 115v/60Hz, 230v/50Hz | 115v/60Hz, 230v/50Hz | | |
| PLUG | US 220v | US 220v | US 220v | US 220v | | |
| PLUG OPTIONS* | US/EU/UK/AU/BR | US/EU/UK/AU/BR | US/EU/UK/AU/BR | US/EU/UK/AU/BR | | |

*Specify plug type when ordering; -250 for US, -250EU for EU, -250UK for UK.

Vacuum Pumps

OIL CARE = PUMP LIFE

Check oil before every use. Replace if dirty or discolored. Heavy contamination may require multiple changes during evacuation. Drain immediately after use while pump is warm. Use only refined, deep vacuum oil like BLACK GOLD to maintain warranty.

Use a Micron Gauge

The best test to check for oil contamination is through a micron gauge. In a leak-free system, if the micron gauge is not reading a deep vacuum, the oil is contaminated and should be changed. During the testing process is the only time it is recommended to have a micron gauge attached directly to pump.



Scan for tutorials, tips and more.

Choosing Proper CFM

CFM² = Maximum Tonnage Rating

Take the CFM rating and multiply it by that number to find the maximum number of tons a pump is rated for:

3 CFM pump (3x3) is rated for 9 tons
7 CFM pump (7x7) is rated for 49 tons

Depending on the system line size, it is better to use two or more small, easily maneuverable pumps at different locations to overcome pressure drop issues and evacuate faster than a single, large pump. Pumps in the 1.5 to 10 CFM class are adequate to handle 99% of the work. JB pumps are built to last and are the best and longest-lasting pumps in the industry.




Vacuum Pump Accessories

ACCELERATOR

VL-200 Rapid Evacuation Kit

The VL-200 ACCELERATOR Rapid Evacuation Kit paired with a JB vacuum pump allows technicians to remove restrictive valve cores and perform HVACR system evacuations up to 20x Faster.

UP TO
20x
FASTER
EVACUATIONS

- Y-FORCE Dual, High-speed Coupler Connector increases speed of evacuation
- 48" long, 1/2" diameter vacuum certified evacuation hose will not collapse or permeate
- 1/4" valve core tool removes restrictive cores and maximizes flow; Vacuum rated to 20 microns
- Opens up over 90% of internal diameter of access port
- Slide valve easily attaches and protects vacuum gauge with the slide valve side port
- Made in the USA 



Easily attaches and protects vacuum gauge with the slide valve side port



Increase speed of evacuation with the Y-FORCE Coupler Connector and two large diameter hoses

| PART NO. | DESCRIPTION |
|----------------------|--|
| VL-200 | ACCELERATOR evacuation kit with A32525N, A32525SV, QC-208, QC-206, CL264-48 (2) and convenient storage bag |
| REPLACEMENT PART NO. | DESCRIPTION |
| A32525SV | Valve Core Removal Tool with Slide Valve Side Port |
| A32525N | Valve Core Removal Tool |
| QC-206 | (3/8") Y-FORCE Dual, High-Speed Coupler Connector |
| QC-208 | (1/2") Y-FORCE Dual, High-Speed Coupler Connector |
| CL264-48 | (2) 48" long, 1/2" diameter evacuation hose with 3/8" x 1/4" SAE female swivel hose connections |
| P325 | 1/4" and 5/16" replacement gaskets for A32525N (1 each) |



QC-208 (1/2") QC-206 (3/8")



Convenient drawstring storage bag

VELOCITY

VL-100 Rapid Evacuation Kit

The VL-100 VELOCITY Rapid Evacuation Kit paired with a vacuum pump allows technicians to remove restrictive valve cores and perform HVACR system evacuations up to 10x Faster.

UP TO
10x
FASTER
EVACUATIONS

- 60" long, 1/2" diameter evacuation hose
- 1/4" Valve Core Tool removes restrictive cores; vacuum rated to 20 microns
- Opens up over 90% of internal diameter of access port
- Vacuum certified hose will not collapse or permeate
- Made in the USA 

| PART NO. | DESCRIPTION |
|----------------------|--|
| VL-100 | VELOCITY evacuation kit with hose and valve core removal tool |
| REPLACEMENT PART NO. | DESCRIPTION |
| A32525N | Valve core removal tool |
| CL264-60 | (1) 60" long, 1/2" diameter evacuation hose; 3/8" x 1/4" SAE flare |
| P325 | 1/4" and 5/16" replacement gaskets for A32525N (1 each) |




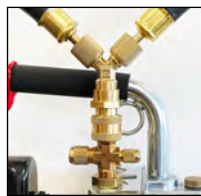
A32525N Valve Core Removal Tool

Y-FORCE

Dual, High-Speed Coupler Connectors

Work faster with the Y-FORCE Dual, High-Speed Coupler Connector available with a 3/8" or 1/2" connection.

- Speed up evacuation with dual hose connections; Easily connects two hoses to one point
- Vacuum rated and designed for high-pressure refrigerants
- Rugged solid brass construction
- Use with any vacuum pump
- Made in the USA 




Increase speed of evacuation with the Y-FORCE Dual, High-speed Coupler Connector and two large diameter hoses.

| PART NO. | DESCRIPTION |
|----------|--------------------|
| QC-206 | 3/8" x 3/8" x 3/8" |
| QC-208 | 3/8" x 3/8" x 1/2" |

DV-T1

The TANK Vacuum Pump Oil Container

Changing the oil after every job will extend the life of your vacuum pump and clean oil ensures peak pump efficiency and deep vacuum.

- Holds up to 10 quarts
- No mess, No spills
- Corner hand grips for easy handling
- Stores upright or flat with no spills
- Environmentally friendly
- Made in the USA 



| PART NO. | DESCRIPTION |
|----------|--------------------------------|
| DV-T1 | The TANK Vacuum Pump Oil Caddy |

BLACK GOLD®

Pump Oil


- Acts as a coolant, lubricant and sealant—simultaneously. Non-detergent, hydro-processed
- Made in the USA 



| PART NO. | QTY. | DESCRIPTION |
|----------|------|------------------------|
| DVO-1 | 24 | BLACK GOLD pint case |
| DVO-12 | 12 | BLACK GOLD quart case |
| DVO-24 | 6 | BLACK GOLD gallon case |

Oil Mist Filter

Eliminates oil mist from pump handle

- Made in the USA 



DV-F8

| PART NO. | DESCRIPTION |
|----------|---|
| DV-F6 | Oil mist filter 3/8"; ELIMINATOR (pre-2011) and PLATINUM (pre-2008) |
| DV-F8 | Oil mist filter 1/2"; ELIMINATOR (2011+) and PLATINUM (2000+) |

Quick Couplers

- Features o-ring seal and no depressor
- Made in the USA 



QC-E64

| PART NO. | DESCRIPTION |
|----------|-----------------------------------|
| QC-E64 | 3/8" QC x 1/4" SAE elbow |
| QC-S64 | 3/8" QC x 1/4" SAE straight |
| P90009 | 1/4" Replacement o-ring (10 pack) |
| P90012 | 3/8" Replacement o-ring (10 pack) |

Shutoff Valve


- O-ring quick coupler shutoff valves for blanking off vacuum system; pressures up to 800lbs
- Made in the USA 



D10162

| PART NO. | DESCRIPTION |
|----------|-----------------------------|
| D10162 | 1/4" Female QC x 1/4" flare |

Swivel Couplers

- Features an o-ring seal
- Made in the USA 



D10244

| PART NO. | DESCRIPTION |
|----------|-----------------------------------|
| D10244 | 1/4" Female swivel coupler |
| D10266 | 3/8" Female swivel coupler |
| P90009 | 1/4" Replacement o-ring (10 pack) |
| P90012 | 3/8" Replacement o-ring (10 pack) |



CLIMATE CLASS™

WELCOME TO A NEW CLASS OF PRODUCTIVITY.



Wireless Manometers

NEW



Wireless Pressure Probes



Wireless Psychrometers



Wireless Temperature Clamps



Wireless Vacuum Gauge



Wireless Digital Manifolds

COMBO KITS AVAILABLE (CC-2-CHP SHOWN):



Wireless Temperature Clamps



Wireless Psychrometers



Wireless Pressure Probes



Tool Bag

BUILT-IN SCREENS



APP COMPATIBILITY



Works with JB GO V2 or measureQuick® Apps

A2L-READY



CONVENIENT



Integrated Charging Port



OLED Display Rotates

SCAN TO LEARN MORE ABOUT THE PRODUCTS



NEW Industry exclusive app features including remote power on/off, auto-shutoff timer and sleep mode.

WM-2, WC-2, WH-2, and WP-2 come with a durable hard-sided case



CLIMATE CLASS

Wireless Multi-Tool Kits

Our CLIMATE CLASS kits are equipped with essential tools for technicians to effortlessly capture comprehensive system snapshots. All sets come with a protective zip-up storage bag.

CC-2-CHP KIT INCLUDES:



Wireless Temperature Clamps
WC-1 (2)

Wireless Psychrometers
WH-1 (2)

Wireless Pressure Probes
WP-1 (2)

Tool Bag
JB-KITBAG1

CC-2-CP KIT INCLUDES:



Wireless Temperature Clamps
WC-1 (2)

Wireless Pressure Probes
WP-1 (2)

Tool Bag
JB-KITBAG1



Download JB GO V2 or measureQuick in your app store



Climate Class

NEW

CLIMATE CLASS

Wireless Manometers

- Simultaneously measure and view real-time return, supply, and TESP static pressures for efficient system analysis
- Flexibility to use in standalone mode, or with either the JB GO V2 app or measureQuick app
- Flexible measurement options
- Independent probe placement and short hoses for freedom of readings anywhere on the job site
- Assess gas pressure at regulator inlets and outlets using the 1/8" NPT fitting or slide gas adapter.
- Accurately evaluate pressure drops across filters and TESP with included static pressure tips
- Bright OLED display with an intuitive, simple-to-use menu
- Rear-mounted magnet for secure positioning
- Over-molded parts for increased grip and durability
- Interchangeable color bands for easy tool identification

Specifications

| | |
|-----------------------------------|--|
| Measurement Type | Static Pressure |
| Accuracy | +/- 0.02 from 0 to 2 in WC, +/- 1.5%FS from 2 to 60 in WC |
| Static Pressure Measurement Range | +/- 60 in WC |
| Units of Measure | inWC, mmWC, mbar, psi, Pa |
| Operating Temperature | 32°F to 104°F (0°C to 40°C) |
| Storage Temperature | 14°F to 140°F (-10°C to 60°C) |
| Wireless Range | Up to 350 ft (106.6m) - Dependent on environment |
| Power Supply | 2 X AA batteries per device (included) |
| Battery Life | Approximately 120 hours |
| Display | OLED |
| Unit Weight | 8 oz |
| Compatibility | iOS Version: 10.0+, Android Version: 6.0+ |
| Battery Life Indicator | Yes |
| Warranty | 1 year |



| PART NO. | DESCRIPTION |
|----------|--|
| WM-1 | Individual Wireless Manometer with Accessories |
| WM-2 | Set of Wireless Manometers with Accessories |

CLIMATE CLASS

Wireless Pressure Probes

- Charge directly with integrated charging port—no manifold needed
- Includes angled adapter
- Temperature compensated readings for accuracy
- Flexibility to use in standalone mode, or with either the JB GO V2 app or measureQuick app
- Bright OLED display and intuitive, simple-to-use menu
- IP54 rated for dust particles and rain
- Over-molded parts for increased grip and durability

Specifications

| | |
|-----------------------|---|
| Pressure Range | 0-800 psi |
| Accuracy | ±4 psi |
| Resolution | 0.1 psi |
| Pressure Units | psi, kPa |
| Female Flare size | 1/4" SAE Flare |
| Wireless Range | Up to 350ft (106.6m) dependent on environment |
| Power Supply | 2 x AA batteries per device (included) |
| Battery Life | Approximately 80 hours; indicator light |
| Storage Temperature | +14°F to 140°F (-10°C to +60°C) |
| Operating Temperature | -10°F to 120°F (-23°C to +49°C) |
| Display | OLED |
| Unit Weight | 8 oz |
| Compatibility | Min iOS Version: 10.0+, Min Android Version: 6.0+ |
| IP Rating | IP54 |
| Warranty | 1 Year |



Charge directly with integrated charging port—no manifold needed

CLIMATE CLASS

Wireless Psychrometers

- Measures temperature and humidity (Wet Bulb, Dry Bulb, Relative Humidity and Dew Point)
- Flexibility to use in standalone mode, or with either the JB GO V2 app or measureQuick app
- Integrated red swivel cap protects sensor when not in use
- Flexible wand for pin-pointing specific areas
- Bright OLED display and intuitive, simple-to-use menu
- IP54 rated for dust particles and rain
- Over-molded parts for increased grip and durability
- Rear-mounted magnet for secure positioning
- Interchangeable color bands for easy tool identification

Specifications

| | |
|------------------------|---|
| Sensor Type | Digital Humidity and Temperature Sensor |
| Operating Temperature | -10°F to 120°F (-23°C to +49°C) |
| Temperature Units | Fahrenheit, Celsius |
| Humidity Range | 0% to 100% Relative Humidity |
| Accuracy Humidity | ± 2% RH |
| Temperature Accuracy | ± 0.36°F (± 0.2°C) |
| Wireless Range | Up to 350ft (106.6m) - Dependent on environment |
| Power Supply | 2 x AA batteries per device (included) |
| Battery Life | Approximately 120 hours |
| Operating Temperature | +32°F to 122°F (0°C to +50°C) |
| Storage Temperature | +14°F to 140°F (-10°C to +60°C) |
| Storage Humidity | 85% RH @113°F (45°C), non-condensing |
| Display | OLED |
| Unit Weight | 6.2 oz |
| Compatibility | iOS Version: 10.0+, Android Version: 6.0+ |
| Battery Life Indicator | Yes |
| Warranty | 1 year |



| PART NO. | DESCRIPTION |
|----------|--|
| WP-1 | Individual Wireless Pressure Probe with 1 Angled Adapter |
| WP-2 | Set of Wireless Pressure Probes in Case with 2 Angled Adapters |

| PART NO. | DESCRIPTION |
|----------|--|
| WH-1 | Individual Psychrometer/Hygrometer |
| WH-2 | Set of Psychrometers/Hygrometers in Case |

Climate Class

CLIMATE CLASS

Wireless Temperature Clamps

- Robust thermistor sensor for accurate pipe temperature measurements
- Flexibility to use in standalone mode, or with either the JB GO V2 app or measureQuick app
- Bright OLED display and intuitive, simple-to-use menu
- IP54 rated for dust particles and rain
- Over-molded parts for increased grip and durability
- Interchangeable color bands for easy tool identification

Specifications

| | |
|------------------------|---|
| Sensor Type | Thermistor |
| Accuracy | ±2.3°F (± 1.28°C), -4 to 185°F (-20° to 85°C) |
| Operating Temperature | -10°F to 120°F (-23°C to +49°C) |
| Resolution | 0.1 °F (.055°C) |
| Temperature Units | Fahrenheit, Celsius |
| Pipe Diameter Range | ¼" – 2" (6.4 – 51mm) |
| Power Supply | 2 x AA batteries per device (included) |
| Wireless Range | Up to 350ft (106m) - Dependent on environment |
| Battery Life | Approximately 120 hours |
| Storage Temperature | +14°F to 140°F (-10°C to +60°C) |
| Humidity | 85% RH @113°F (45°C), non-condensing |
| Display | OLED |
| Unit Weight | 6.5 oz |
| Compatibility | Min iOS Version: 10.0+, Min Android Version: 6.0+ |
| Battery Life Indicator | Yes |
| Warranty | 1 year |



| PART NO. | DESCRIPTION |
|----------|--|
| WC-1 | Individual Wireless Temperature Clamp |
| WC-2 | Set of Wireless Temperature Clamps in Case |

CLIMATE CLASS

Wireless Vacuum Gauge

- Field-replaceable sensor prolongs tool life and reading accuracy
- Direct access to sensor for easy and thorough cleaning of oil and contaminants
- Ten (10) included sensor filters provide an additional layer of protection
- Large OLED display rotates 360° making it easy-to-read at any angle
- Fast reacting and extremely accurate at any elevation with easy field calibration to barometric pressure
- IP54 rated for dust particles and rain
- Flexibility to use in standalone mode or with the JB GO V2 app



Specifications

| | |
|------------------------|---|
| Pressure Range | 0-800 psi |
| Pressure Range | Atmospheric Pressure -10 Microns |
| Accuracy | ±1 Micron |
| Resolution | 1 Micron |
| Sensor Type | MEMS technologies, Stainless Steel structure |
| Pressure Units | Micron, pascal, psia, InHg, torr, mTorr, mBarr |
| Female Flare Size | ¼" SAE Flare |
| Power Supply | 2 x AA batteries (included) |
| Wireless Range | Up to 350ft (106m) - Dependent on environment |
| Battery Life | approximately 136 hours |
| Storage Temperature | +14°F to 140°F (-10°C to +60°C) |
| Display | OLED |
| Unit Weight | 8.5 oz |
| Compatibility | Min iOS Version: 11.0+, Min Android Version: 7.0+ |
| Battery Life Indicator | Yes |
| Warranty | 1 year |



Large OLED display rotates a full 360° making it easy-to-read at any angle



Field-replaceable sensor with direct access for cleaning and changing filters



| PART NO. | DESCRIPTION |
|----------------------|---|
| DV-22W | Climate Class Wireless Digital Vacuum Gauge with Angled Adapter |
| REPLACEMENT PART NO. | DESCRIPTION |
| DV-22W-SNR | Replacement Sensor |
| DV-22W-FLT | Replacement Filters (10 pack) |
| QC-S45-45 | Angled Adapter |
| P511 | Replacement Gaskets (6 pack) |

CLIMATE CLASS

REVOLVER® Wireless Digital Manifold and ZEPPELIN® Wireless Digital Manifold

Works with JB GO V2 or measureQuick Apps for advanced diagnostics and reporting

BUILT SMART

- 60+ Refrigerants; add/update through app
- Measures high side and low side pressure (psi, kPa and bar) and temperature (°F/°C)
- Calculates superheat, sub-cooling, vapor and liquid saturation

BUILT TOUGH

- American made REVOLVER® 4-valve forged brass, liquid metering ball valve style manifold or American made heavy-duty forged aluminum ZEPPELIN® 4-valve piston style manifold
- Laser welded stainless steel transducers
- Rugged protective boot and water-resistant design
- Backed by a 1-year warranty

BUILT FOR CONVENIENCE

- Compatible with JB wireless temperature clamps and psychrometers (sold separately)
- Hanging hook and padded drawstring bag protects manifold
- Includes 4 pack of 60" CCLE4-60 KOBRA® hoses
- Operates with three AA batteries (included)

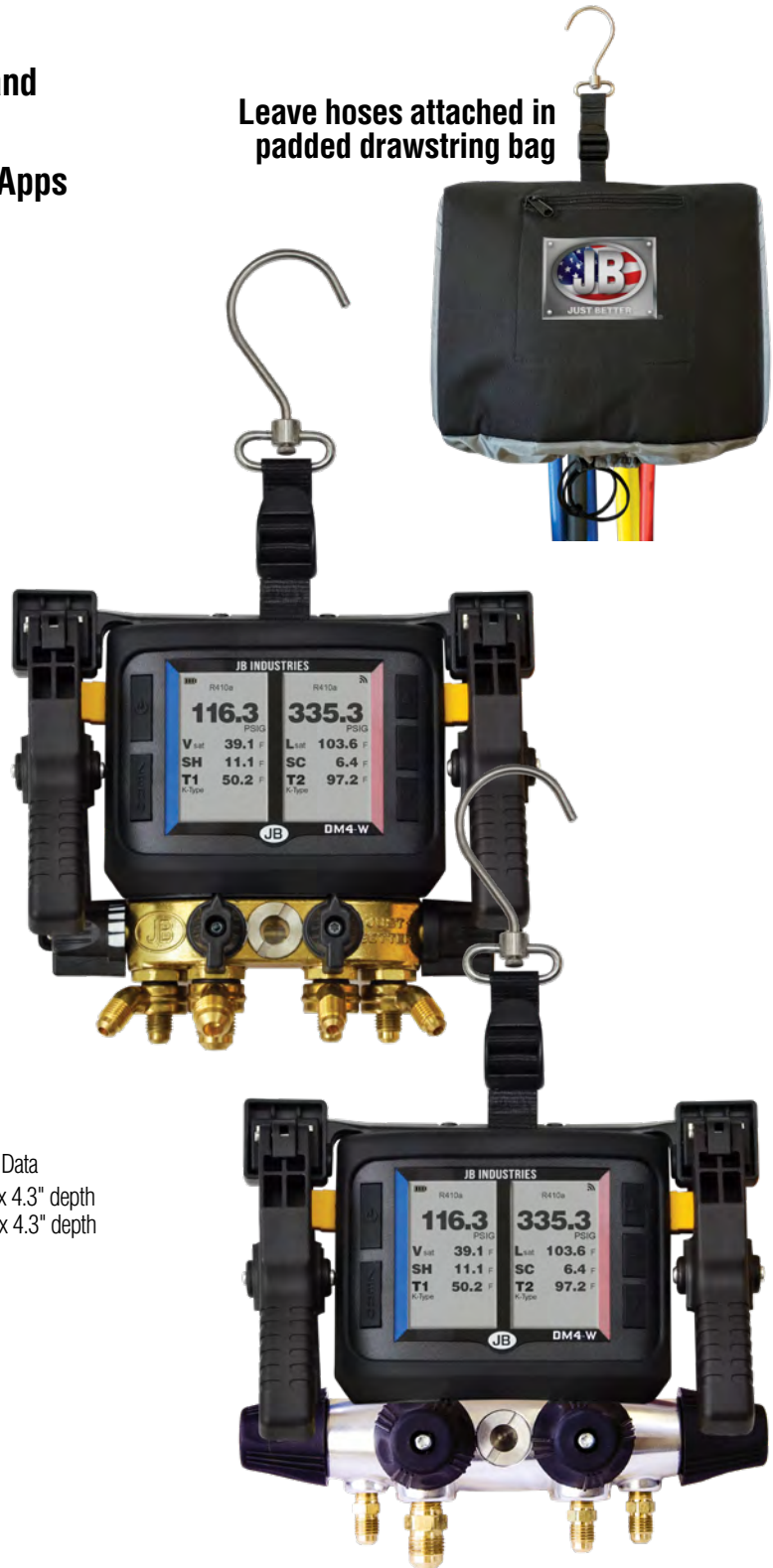
Specifications

| | |
|---------------------------|--|
| Pressure Display Range | 29 inHg to 800 psig |
| Temperature Display Range | -50°F to 260°F (-46°C to 127°C) |
| Operating Temperature | -10° F to 120° F (-23° C to 49° C) |
| Maximum Overpressure | 1000 psi |
| Power Supply | 3 x AA batteries (included) |
| Refrigerant Data Source | NIST REF PROP and Manufacturer Data |
| Dimensions | DM4-ZW: 7.5" height x 8.5" width x 4.3" depth DM4-RW: 7.5" height x 8.5" width x 4.3" depth |
| Warranty | 1 year |



Works with JB GO V2 or measureQuick® Apps

Leave hoses attached in padded drawstring bag


















| PART NO. | DESCRIPTION |
|----------------------|---|
| DM4-RW | REVOLVER® Digital Manifold (including parts listed below) |
| DM4-ZW | ZEPPELIN® Digital Manifold (including parts listed below) |
| REPLACEMENT PART NO. | DESCRIPTION |
| DM4-TC | Temperature clamp (1) |
| DM4-BRK | Brackets for clamps, hook strap and screws |
| CCLE4-60 | 60" Gasket seal KOBRA® hose set (4) |



YOUR A2L OPTIONS ARE JUST BETTER

JB offers the essential service tools to help technicians work safely and efficiently with next generation refrigerants.

| | | | |
|--|--|--|--|
| <p>PLATINUM PRO VACUUM PUMPS page 4</p>  | <p>PLATINUM FORCE VACUUM PUMPS page 6</p>  | <p>PLATINUM FLEX VACUUM PUMPS page 7</p>  | <p>ELIMINATOR CLASSIC VACUUM PUMPS page 8</p>  |
| <p>LEAK DETECTORS page 26</p>  | <p>HOSES page 36</p>  | <p>LEFT-HANDED ADAPTERS & 1/4" SAE CAPS page 36, 56</p>  <p>NEW: Now available in bulk</p> | <p>SHIELD A2L LOCKING CAPS page 46</p>  |
| <p>F6-BOOST RECOVERY page 20</p>  | <p>F6-DP RECOVERY page 21</p>  | <p>MANIFOLDS & GAUGES page 28</p>  | <p>SWIVEL CYLINDER VALVE ADAPTERS page 58</p>  |
| <p>CLIMATE CLASS: WIRELESS DIGITAL PROBES, CLAMPS, PSYCHROMETERS & MANOMETERS page 12</p>  | | <p>CLIMATE CLASS WIRELESS DIGITAL VACUUM GAUGE page 16,24</p>  | <p>CLIMATE CLASS WIRELESS DIGITAL MANIFOLDS page 17</p>  |



Preparation is Key: When the situation arises, JB offers a lineup of tools that safely work with hydrocarbon and A3 refrigerants.

ORIGINAL PLATINUM AND ELIMINATOR SPARK-PROOF PUMPS

page 9



LDC-4000 COMBUSTIBLE GAS AND HC REFRIGERANT LEAK DETECTOR

page 27



F6-BOOST RECOVERY

page 20



ATLAS DS-5000 PROPANE SCALE

page 22



PATRIOT 22733RF-18 2-VALVE BRASS MANIFOLD

page 28



HYDROCARBON GAUGES M2-600 COMPOUND/ M2-605 PRESSURE

page 34-35



CLRF SERIES HOSE HYDROCARBON HOSES

page 37



CNTL90 SERIES HOSE PRESSURE CONTROL HOSE

page 37



GAS PRESSURE TEST KITS

page 34



Recovery

F6-BOOST

BLDC Ignition-Proof Refrigerant Recovery Machine

The F6-BOOST Refrigerant Recovery Machine provides over 20% faster recovery rates than competitor models. The unique 2-cylinder, oilless compressor and long-lasting pistons are contained in a lightweight, ergonomically designed, easy-to-use unit. The F6-BOOST gives the user fast and reliable refrigerant recovery.

Features

- Dual voltage (100-240VAC 50/60Hz)
- Powerful 1.25 HP BLDC (Brushless DC) motor-driven oilless compressor
- Ignition-proof design tested and approved to ISA 12.12.01:2016 Ed.7
- High air-flow fan with a micro-channel condenser keeps the unit running cool
- Variable speed motor (based on load)
- 2-piece, oilless piston-seal design with long-lasting, durable elastomer, easy-to-replace piston seals
- Built-in purge functionality (self-clearing or pump down) to prevent cross-contamination
- High-pressure 550 psig cutout switch
- Easy-to-use interface with 2-1/4" high/low gauges
- Auto shut-off when recovery is complete
- Status indicator light
- Compact lightweight 23.5lb unit with robust, high-impact, injection-molded case
- Recessed folding handle with rubber grip and padded shoulder strap
- 10' locking power cable and velcro cord wrap
- 1 year OTC warranty / 2nd year return and repair; Use this device to recover only HVACR refrigerants from sealed HVACR systems. Warranty voided if used for any other purpose.



| PART NO. | DESCRIPTION |
|----------|--|
| F6-BOOST | BLDC Ignition-Proof Refrigerant Recovery Machine |



Unit has rugged recessed handle for storage, locking cable and velcro cord wrap. Knock-out location for optional tank overflow switch (sold separately).

20%^{OVER}
FASTER
THAN COMPETITION*

*Speed based on vapor recovery for certain refrigerants.



Refrigerant Recovery Machine

- Full one horsepower motor
- Powerful dual piston compressor
- Self-purge without changing hoses
- Simple two-valve operation
- Micro-channel condenser for industry-leading recovery rates
- Oversized cooling fan for superior heat dissipation
- Full-size protected gauges for suction and tank pressure
- Heavy-duty handle with comfortable rubber grip and detachable power cord
- Filter/drier included
- 3 year OTC warranty

Refrigerant Recovery Tanks

- For safely storing or transporting refrigerant
- Available in 30lb and 50lb tanks



Recovery Safety

- Refrigerant should be recovered by trained professionals only
- Wear protective gear, gloves and eye protection
- Never mix refrigerants
- Do not overfill tanks past 80% capacity



Use Proper Equipment

Use a refrigerant scale such as JB's DS-250 to ensure proper refrigerant measurement.



- Recessed gauges
- Sturdy metal knobs
- Easy access filter
- Self-purge without changing hoses

- Carrying strap with shoulder pad
- Heavy-duty metal handle with comfortable rubber grip
- Rugged blow-molded outer shell
- Micro-channel condenser for industry-leading recovery rates
- Large fan for superior heat dissipation
- Circuit breaker
- Detachable and replaceable power cord for easy maintenance



| PART NO. | DESCRIPTION |
|----------------------|--|
| F6-DP | F6 Refrigerant Recovery Machine (115v) |
| F6-DP-250 | F6 Refrigerant Recovery Machine (230v) |
| REC-TANK-A2L-30 | 30lb Empty refrigerant tank cylinder |
| REC-TANK-A2L-50 | 50lb Empty refrigerant tank cylinder |
| REC-TANK-30 | 30lb Empty refrigerant tank cylinder |
| REC-TANK-50 | 50lb Empty refrigerant tank cylinder |
| REPLACEMENT PART NO. | DESCRIPTION |
| F6-FLT | Filter/drier attachment |
| F6-RHP | Gauges |

Refrigerant Scales

ATLAS DS-5000 Propane Scale

- Back-lit LCD display
- Large weighing platform and high accuracy load cell
- Durable and sturdy injection molded components
- Pass-through charging (moving the charge hose does not affect weight)
- Small diameter durable CLRF Series hoses included
- Charging valve included for precision charging
- Schrader valves included to prevent refrigerant loss/leaks
- Cylinder adapter with Secure Seal low-loss fitting included for inverted charging
- 2 charging orientation options: upright and inverted
- Velcro loop included for stabilizing the refrigerant canister (upright charging)
- Designed for R600a and R290
- Other charging methods are possible by using additional adapters for different canister types
- 1 year warranty



Specifications

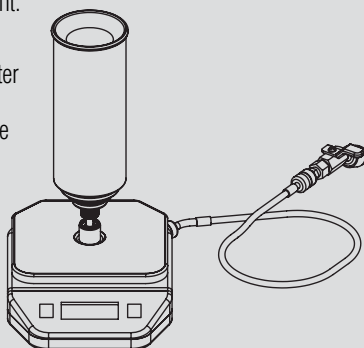
| | |
|--------------|--|
| Capacity | 5000g / 176oz |
| Accuracy | 1g / 0.1oz |
| Power Supply | Two AA batteries (included) |
| Dimensions | (L x W x H) 7.9" x 5.9" x 1.9" (200mm x 150mm x 48mm) |

| PART NO. | DESCRIPTION |
|-------------------|--|
| DS-5000 | ATLAS Propane Scale with two CLRF-18Y Series hoses, MBV4-01 Mini Ball-valve fitting, Propane cylinder adapter, Velcro loop and case. |
| DSR-290SS | 7/16" x 28 UNEF female to 1/4" Secure seal (EN417 Lindal female to 1/4" Secure seal) |
| DSR-290LDL | 1" x 20 female to 7/16" x 28 UNEF male propane adapter (1" x 20 female to EN417 Lindal male) |
| MBV4-01 | 1/4" Mini Ball-valve fitting |

ATLAS DS-5000 Propane Scale

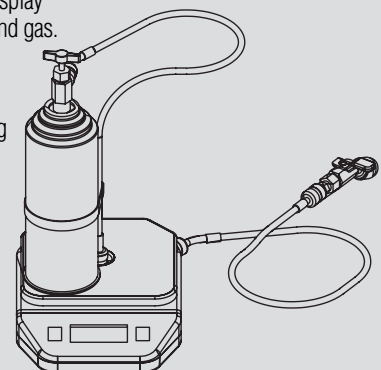
Inverted Charging:

1. Connect the charging hose to the scale side port.
2. Connect the other end of the charging hose (with the charging valve closed) to the system.
3. Attach the secure-seal adapter fitting to the refrigerant canister.
4. Invert the can and connect the secure seal fitting to the fitting on the scale platter.
5. Turn on the scale. Scale will display combined weight of cylinder and gas.
6. Short press the TARE button to zero the scale.
7. Charge the system by throttling the charging valve and monitoring the scale weight.
8. Once the proper weight is transferred from the canister to the system close the charging valve and remove the charging hose from the system.



Upright Charging:

1. Connect the charging hose to the scale side port.
2. Connect the other end of the charging hose (with the charging valve closed) to the system.
3. Attach can tap to the refrigerant canister (Can tap should not release refrigerant).
4. Connect one end of the hose to the can tap.
5. Connect the other end of the hose to the scale platter fitting.
6. Use Velcro loop to secure the can to the hose and stabilize the can on the scale platter.
7. Open the can tap valve to release the refrigerant.
8. Turn on the scale. Scale will display combined weight of cylinder and gas.
9. Short press the TARE button to zero the scale.
10. Charge the system by throttling the charging valve and monitoring the scale weight.
11. Once the proper weight is transferred from the canister to the system close the can tap and charging valve and remove the charging hose from the system.



ATLAS DS-250

Wireless Digital Refrigerant Scale with Wired Handset

- Wireless connection to smart devices via DS-250 app available through **JB GO**
- Wired, full-color, LCD display on removable handset
- Job time recording/data logging with email capability
- Wired handset with built-in magnets and hanging hook
- Programmable weight alarms
- Adjustable units of measurement
- Selectable auto-shutoff
- Slip-resistant platform and water-resistant design
- Durable, blow-molded case
- Safe for use with A2L refrigerants
- 2 year warranty



**WIRELESS
CONNECTIVITY &
EASY-TO-USE
REMOVABLE
WIRED HANDSET**

Specifications

| | |
|-----------------------|--------------------------------------|
| Capacity | 250lb (113kg) |
| Resolution | 0.25 oz |
| Display units | lb/oz, oz, lb, kg |
| Operating Temperature | +32°F to 122°F (0°C to +50°C) |
| Storage Temperature | +14°F to 140°F (-10°C to +60°C) |
| Humidity | 85% RH @113°F (45°C), non-condensing |
| Power Supply | Four AA batteries (included) |
| Battery Life | Approximately 58 hours |
| Accuracy | Minimum +/- 0.3% of reading +/- 10g |
| Wireless Range | 300ft (92m) |



| PART NO. | DESCRIPTION |
|----------|---|
| DS-250 | ATLAS Wireless Refrigerant Scale with Wired Handset |

ATLAS DS-20000

Digital Refrigerant Scale

- Features all-metal construction, superior sensitivity and accuracy with replaceable parts
- Highly sensitive, solid-state load cell (0.25oz/10g)
- Easy-to-read LCD screen
- Field repairable with replaceable cable, weighing platform and handheld remote
- Displays weight in decimal/pounds, pounds/ounces and kilograms
- Automatic shutoff option to conserve battery life
- Protective carrying case
- 2 year warranty



Specifications

| | |
|-----------------------|--------------------------------------|
| Capacity | 220lb (100kg) |
| Operating Temperature | +32°F to 122°F (0°C to +50°C) |
| Storage Temperature | +14°F to 140°F (-10°C to +60°C) |
| Humidity | 85% RH @113°F (45°C), non-condensing |
| Power Supply | One 9v battery (included) |
| Battery Life | Approximately 60 hours |

| PART NO. | DESCRIPTION |
|----------------------|---|
| DS-20000 | ATLAS Digital Refrigerant Scale in case |
| REPLACEMENT PART NO. | DESCRIPTION |
| DSR-10 | Communication cable |
| DSR-20 | Handheld remote |

Digital Vacuum Gauges

DV-22W

CLIMATE CLASS Wireless Vacuum Gauge



- Field-replaceable sensor prolongs tool life and reading accuracy
- Direct access to sensor for easy and thorough cleaning of oil/contaminants
- Ten (10) included sensor filters provide an additional layer of protection
- Large OLED display rotates 360° making it easy-to-read at any angle
- Fast reacting and extremely accurate at any elevation with easy field calibration to barometric pressure
- IP54 rated for dust particles and rain
- Flexibility to use in standalone mode or with the JB GO V2 app

Specifications

| | |
|------------------------|---|
| Pressure Range | 0-800 psi |
| Pressure Range | Atmospheric Pressure -10 Microns |
| Accuracy | ±1 Micron |
| Resolution | 1 Micron |
| Sensor Type | MEMS technologies, Stainless Steel structure |
| Pressure Units | Micron, pascal, psia, InHg, torr, mTorr, mBar |
| Female Flare Size | 1/4" SAE Flare |
| Power Supply | 2 x AA batteries (included) |
| Wireless Range | Up to 350ft (106m) - Dependent on environment |
| Battery Life | approximately 136 hours |
| Storage Temperature | +14°F to 140°F (-10°C to +60°C) |
| Display | OLED |
| Unit Weight | 8.5 oz |
| Compatibility | Min iOS Version: 11.0+, Min Android Version: 7.0+ |
| Battery Life Indicator | Yes |
| Warranty | 1 year |



Large OLED display rotates a full 360° making it easy-to-read at any angle



| PART NO. | DESCRIPTION |
|----------------------|---|
| DV-22W | Climate Class Wireless Digital Vacuum Gauge with Angled Adapter |
| REPLACEMENT PART NO. | DESCRIPTION |
| DV-22W-SNR | Replacement Sensor |
| DV-22W-FLT | Replacement Filters (10 pack) |
| P511 | Replacement Gaskets (6 pack) |

DV-22R

Digital Vacuum Gauge with Replaceable Sensor



- Easily replaceable MEMS sensor enhances tool lifespan and precision
- Accessible sensor design allows for easy, thorough cleaning of oil and debris
- Easy-to-read back-lit LCD display
- Improved response time for instantaneous vacuum reading
- Audible and visual alarms when target vacuum level is achieved
- Intuitive user menu with custom setting options
- Low battery indicator with automatic shutoff
- Measures in microns, psia, inHg, pascals, Torr, mTorr and mBar
- Operates with three AA batteries (included)
- 1 year warranty



Both the DV-22W and DV-22R feature an easily accessible, replaceable sensor for filter cleaning and changing.



| PART NO. | DESCRIPTION |
|----------------------|--|
| DV-22R | Digital Vacuum Gauge with Replaceable Sensor |
| REPLACEMENT PART NO. | DESCRIPTION |
| DV-22W-SNR | Replacement Sensor |
| DV-22W-FLT | Replacement Filters |
| P511 | Replacement Gaskets (6) |

DV-22N/DV-24N

Digital Vacuum Gauge

- Factory calibrated extended range MEMS sensor; vacuum reading range 100,000 to 10 microns
- Easy-to-read back-lit display
- Working temperature +32°F to 120°F (+0°C to 48.9°C)
- Allows for direct connection to A/C unit without a hose
- Intuitive user menu with custom setting options; Audible and visual alarms when target vacuum level is achieved
- Low battery indicator with automatic shutdown
- Measures in microns, psia, inHg, pascal, torr, mTorr and mBar
- Operates with three AA batteries (included)
- Available with protective carrying case as DV-24N
- 1 year warranty



| PART NO. | DESCRIPTION |
|----------------------|---|
| DV-22N | Digital vacuum gauge |
| DV-24N | DV-22N with protective carrying case |
| REPLACEMENT PART NO. | DESCRIPTION |
| DV-27N | Protective carrying case only |
| DV-FILTER | Depressor and gasket with filter |
| P511 | Gasket (6 pack) |
| P511-10 | Gasket (10 pack) |
| P90009 | O-ring for older models with o-ring (10 pack) |

DVR-22

Digital Vacuum Gauge

- Measures vacuum levels in HVACR equipment
- Brass female 1/4" flare fitting easily attaches to common system fittings; Includes an angled adapter fitting for alternate positioning and improved visibility
- Large back-lit LCD display is easy to read
- Intuitive design saves the lowest vacuum reading
- Adjustable auto-off feature, long run-times and battery life indicator
- Four button interface offers easy setting adjustments
- Durable plastic housing
- Thermistor sensor for accurate vacuum measurements and easy cleaning
- 1 year warranty
- Made in the USA 



| PART NO. | DESCRIPTION |
|----------------------|----------------------|
| DVR-22 | Digital Vacuum Gauge |
| REPLACEMENT PART NO. | DESCRIPTION |
| P511 | Gasket (6 pack) |
| P90514 | Depressor (5 pack) |

DV-29

Vacuum Gauge Blank-off Test Kit

The DV-29 Vacuum Gauge Blank-off Test Kit works with vacuum gauges and the WP-1 or WP-2 Wireless Digital Psychrometers to create a closed system ideal for checking leaks.

| PART NO. | DESCRIPTION |
|----------------------|--|
| DV-29 | Leakproof micron hook-up test kit Includes: DV-292, DV-293, DV-294 and DV-295 |
| REPLACEMENT PART NO. | DESCRIPTION |
| DV-291 | 1/4" SAE swivel coupler (D10244) |
| DV-292 | 90° male flare with 1/4" o-ring QC |
| DV-293 | Valve assembly 1/4" MFL connector |
| DV-294 | 10" (25.4 cm) metal hose with o-ring |
| DV-295 | Ball valve with o-ring QC and depressor |
| P90009 | O-ring (10 pack) |


Leak Detection

NEW

LD-6000IR AURORA Infrared Refrigerant Leak Detector

The Aurora LD-6000IR sets a new standard in leak detection with advanced infrared sensor technology, offering consistently high sensitivity that won't diminish over time. Designed for precision, it delivers exceptional accuracy in detecting CFC/HCFC, HFC, HFO, and blended refrigerants including A2Ls—pinpointing even the smallest leaks with ease.

Features

- IR technology detects refrigerants by measuring how the gas absorbs infrared light
- Infrared sensor maintains high sensitivity and will not degrade over time
- Durable with a lifespan of up to 1,000 hours.
- Wide refrigerant compatibility including all CFC, HFC, HFO, HCFC & blended refrigerants including A2Ls
- Three sensitivity levels (High, Medium, Low) to suit various applications
- Sensitivity as low as 1 g/year
- Features both automatic calibration and manual with reset control for added versatility
- Rechargeable Lithium-Ion battery provides up to 8 hours of continuous operation
- Instant response time ensures quick identification of leaks
- Easy-to-read back-lit, color LCD screen
- Visual and audible alerts
- 17" flexible probe
- Certifications: CE & EN14624:2020
- Warranty: 2-years (1-year for sensor and battery)
- Made in the USA with globally sourced parts 

Specifications

- Sensitivity:
 - R134a: 1g/a
 - Ammonia: 3g/a
 - R1234yf: .5g/a
- Wand length: 14 in
- Unit Weight: 14 oz
- Warm-up Time: 45-90 seconds
- Rechargeable Lithium Ion Battery (Type C USB connection)

**ADVANCED
INFRARED
SENSOR
TECHNOLOGY**



| PART NO. | DESCRIPTION |
|-----------|------------------------------|
| LD-6000IR | AURORA Leak Detector in Case |

LD-5000

PROWLER® Electrochemical Refrigerant Leak Detector

- Detects all HFC, HCFC, HFO and blended refrigerants
- Sensor life > 10 years; proprietary electrochemical sensor will not diminish over time or with use
- Manual calibration mode and reset control
- High, medium and low sensitivity settings
- Warm-up time < 30 seconds; response time immediate
- Mutable alarm with a silent vibrating handle
- Back-lit LCD screen tilts up for easy viewing at any angle
- 17" flexible probe
- Protective carrying case
- Operates with four AA batteries (included)
- 2 year warranty



| PART NO. | DESCRIPTION |
|----------------------|---|
| LD-5000 | PROWLER Leak Detector in Case |
| REPLACEMENT PART NO. | DESCRIPTION |
| LD-S101 | Sensor (6 prong) |
| LD-RF5 | Filters (5 pack) |
| LD-TV | Leak test vial |
| LD-PK | Parts kit (includes 6 prong sensor, filter kit and test vial) |

LDC-4000

Combustible Gas and HC Refrigerant Leak Detector

- High sensitivity to all HC refrigerants and combustible gases
- Long life solid-state heated sensor
- Sensitive to < 5 ppm of methane
- Sensor life > 300 hours
- Automatic calibration and reset to ambient
- Comfortable rubber handle
- Intrinsically safe certified
- Low battery indicator
- 17" flexible probe
- Protective carrying case
- Operates with four AA batteries (included)
- 2 year warranty



| PART NO. | DESCRIPTION |
|----------------------|--|
| LDC-4000 | Combustible Gas and HC Refrigerant Leak Detector in Case |
| REPLACEMENT PART NO. | DESCRIPTION |
| LDC-4000-1 | Sensor (4 prong) |

LD-3000

QUEST Electrochemical Refrigerant Leak Detector


- Long life electrochemical sensor
- Detects all CFC, HFC, HFO, HCFC refrigerants and hydrocarbon blends
- Automatic calibration and reset to ambient levels
- Three adjustable sensitivity levels
- Low battery indicator
- Mutable alarm function
- Comfortable rubber handle
- 18" flexible probe
- Protective carrying case
- Operates with four AA batteries (included)
- 2 year warranty



| PART NO. | DESCRIPTION |
|----------------------|---|
| LD-3000 | QUEST Leak Detector in Case |
| REPLACEMENT PART NO. | DESCRIPTION |
| LD-S101 | Sensor (6 prong) |
| LD-RF5 | Filters (5 pack) |
| LD-TV | Leak test vial |
| LD-PK | Parts kit (includes 6 prong sensor, filter kit and test vial) |

Manifolds

PATRIOT™ 2-Valve Brass Manifold

- Rugged bar design paired with easy-to-grip metal handles
- Available with assorted gauge options
- Free-floating, dual o-ring sealing system for faster evacuation and charging
- Surge dampened gauges for reduced needle movement
- 360° swiveling hose holders
- Secure hanging hook
- Easy-to-turn metal handwheels
- Solid brass forging
- 1 year warranty; lifetime on bar
- Made in the USA 



22225

The Manifold that Gives Back



For each PATRIOT™, MSKIT1 or MSKIT2 sold JB will donate to Operation Homefront. To learn more about Operation Homefront visit www.operationhomefront.net



| R32 | R454B | R410A | |
|----------|-----------------------|---------------|----------------|
| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
| 22645 | CCLBV4-A2L-60" | 3-1/8" (80mm) | Illuminating |
| 22646 | CCLS-60" | 3-1/8" (80mm) | Illuminating |
| 22633 | CCLE-60" | 3-1/8" (80mm) | Illuminating |
| 22625 | Manifold Only | 3-1/8" (80mm) | Illuminating |
| 22605 | Manifold Only (5/16") | 3-1/8" (80mm) | Illuminating |



| R454A | R454C | R448A | |
|----------|---------------|---------------|-------------------------|
| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
| 22443 | CCLE-60" | 3-1/8" (80mm) | Illuminating NEW |
| 22445 | Manifold Only | 3-1/8" (80mm) | Illuminating NEW |



| R454A | R454C | R449A | |
|----------|---------------|---------------|-------------------------|
| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
| 22453 | CCLE-60" | 3-1/8" (80mm) | Illuminating NEW |
| 22455 | Manifold Only | 3-1/8" (80mm) | Illuminating NEW |



| R448A | R449A | R410A | |
|----------|----------|---------------|----------------|
| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
| 22833 | CCLC-60" | 3-1/8" (80mm) | Illuminating |

| R448A | R449A | R407A | |
|----------|----------|---------------|----------------|
| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
| 22933 | CCLC-60" | 3-1/8" (80mm) | Illuminating |

Additional manifold gauge options, refrigerant combinations and accessories available on page 35. Hose options available begin on page 36. Manifold rebuild kits and repair parts start on pages 89.

| R290 | R600A | | |
|------------|----------------|---------------|---------------------------------------|
| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
| 22725 | Manifold Only | 3-1/8" (80mm) | Illuminating, Class 1, 1% Hydrocarbon |
| 22733 | CCLC-36" | 3-1/8" (80mm) | Illuminating, Class 1, 1% Hydrocarbon |
| 22733RF-18 | 18" CLRF Hoses | 3-1/8" (80mm) | Illuminating, Class 1, 1% Hydrocarbon |

| R134A | R1234YF | | |
|----------|----------|-----------------|----------------|
| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
| 22433 | CCLC-60" | 2-1/2" (63.5mm) | Standard |


| R22 | R404A | R410A | |
|----------|---------------|---------------|---------------------------------|
| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
| 22225 | Manifold Only | 3-1/8" (80mm) | Illuminating Class 1, 1% |
| 22225L | Manifold Only | 3-1/8" (80mm) | LED |
| 22225CM | Manifold Only | 3-1/8" (80mm) | Illuminating, Class 1, 1% Camo |
| 22233 | CCLC-60" | 3-1/8" (80mm) | Illuminating, Class 1, 1% |
| 22233L | CCLC-60" | 3-1/8" (80mm) | LED |
| 22233CM | CCLC-60" | 3-1/8" (80mm) | Illuminating, Class 1, 1% Camo |
| 22246 | CCLS-60" | 3-1/8" (80mm) | Illuminating, Class 1, 1% |
| 22246CM | CCLS-60" | 3-1/8" (80mm) | Illuminating, Class 1, 1%, Camo |

| R22 | R134A | R404A | |
|----------|---------------|---------------|---------------------------|
| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
| 22125 | Manifold Only | 3-1/8" (80mm) | Illuminating, Class 1, 1% |
| 22133 | CCLC-60" | 3-1/8" (80mm) | Illuminating, Class 1, 1% |

| R410A | | | |
|----------|-----------------------|-----------------|----------------|
| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
| 22500 | Manifold Only | 2-1/2" (63.5mm) | R410A Only |
| 22505 | Manifold Only (5/16") | 2-1/2" (63.5mm) | R410A Only |
| 22525 | Manifold Only | 3-1/8" (80mm) | R410A Only |
| 22531 | CCLC-60" | 3-1/8" (80mm) | R410A Only |

REVOLVER®

4-Valve Ball Valve Manifold

- Integrated liquid charging capability
- Adjusts to finite openings for liquid charging
- Quarter-turn full open/close handle
- 3/8" port for faster evacuation
- Available with 2-1/2" and 3-1/8" size gauges
- 360° swiveling hose holders for greater flexibility
- Replaceable durable hanging hook
- Surge dampened all-metal gauges for reduced needle movement
- 1 year warranty; lifetime on bar
- Made in the USA 

Liquid Charging

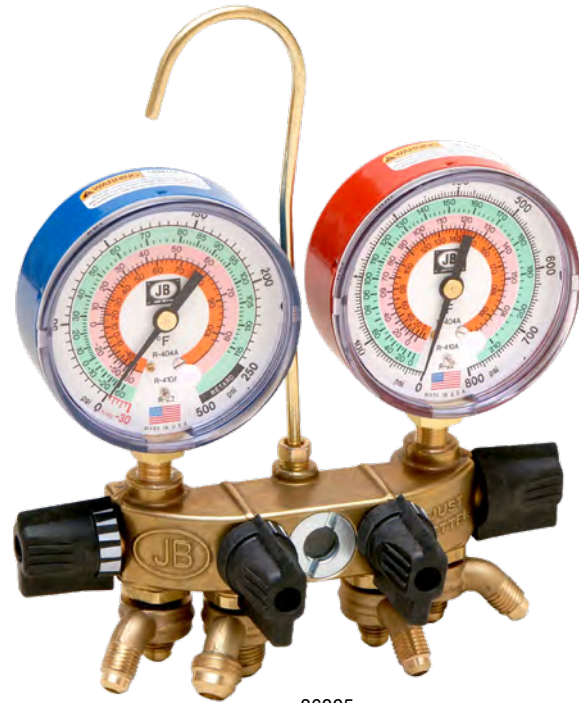
1. Full Open



2. Liquid Charging



3. Closed



26225

| R32 | R454B | R410A | |
|----------|---------------|---------------|----------------|
| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
| 26633 | CCLC-60" | 3-1/8" (80mm) | Illuminating |
| 26625 | Manifold Only | 3-1/8" (80mm) | Illuminating |

| R454A | R454C | R448A | |
|----------|----------|---------------|-------------------------|
| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
| 26443 | CCLC-60" | 3-1/8" (80mm) | Illuminating NEW |

| R454A | R454C | R449A | |
|----------|----------|---------------|-------------------------|
| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
| 26453 | CCLC-60" | 3-1/8" (80mm) | Illuminating NEW |

| R12 | R22 | R502 | |
|----------|---------------|-----------------|----------------|
| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
| 26000 | Manifold Only | 2-1/2" (63.5mm) | Standard |
| 26025 | Manifold Only | 3-1/8" (80mm) | Illuminating |
| 26008 | CCLC4-60" | 2-1/2" (63.5mm) | Standard |
| 26033 | CCLC4-60" | 3-1/8" (80mm) | Illuminating |
| 26040 | CCLV4-60" | 3-1/8" (80mm) | Illuminating |
| 26044 | CCLS-60" | 3-1/8" (80mm) | Illuminating |

| R22 | R404A | R410A | |
|----------|---------------|-----------------|----------------|
| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
| 26200 | Manifold Only | 2-1/2" (63.5mm) | Standard |
| 26225 | Manifold Only | 3-1/8" (80mm) | Illuminating |
| 26225L | Manifold Only | 3-1/8" (80mm) | LED |
| 26208 | CCLC4-60" | 2-1/2" (63.5mm) | Standard |
| 26233 | CCLC4-60" | 3-1/8" (80mm) | Illuminating |
| 26233L | CCLC-60" | 3-1/8" (80mm) | LED |
| 26240 | CCLBV4-60" | 3-1/8" (80mm) | Illuminating |
| 26244 | CCLV4-60" | 3-1/8" (80mm) | Illuminating |
| 26246 | CCLS-60" | 3-1/8" (80mm) | Illuminating |


| R22 | R134A | R404A | |
|----------|---------------|-----------------|----------------|
| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
| 26100 | Manifold Only | 2-1/2" (63.5mm) | Standard |
| 26125 | Manifold Only | 3-1/8" (80mm) | Illuminating |
| 26108 | CCLC4-60" | 2-1/2" (63.5mm) | Standard |
| 26133 | CCLC4-60" | 3-1/8" (80mm) | Illuminating |
| 26140 | CCLV4-60" | 3-1/8" (80mm) | Illuminating |
| 26144 | CCLS-60" | 3-1/8" (80mm) | Illuminating |

Additional manifold gauge options, refrigerant combinations and accessories available on page 35. Hose options available begin on page 36. Manifold rebuild kits and repair parts start on pages 89.

Manifolds

ZEPPELIN®

2-Valve Aluminum Manifold

- Machined from durable, solid aluminum billets
- Rubber handwheels for improved grip and reduced turns to open/close
- Improved stem design—fully open in only 2-1/2 turns
- Surge dampened gauges for reduced needle movement
- Original free-floating dual o-ring sealing system for faster evacuation and charging
- Available with 2-1/2" and 3-1/8" size gauges
- Easy-to-read, color-coded refrigerant dials
- Replaceable, durable hanging hook
- Replaceable intake/hose holder fittings
- 1 year warranty; lifetime on bar
- Made in the USA 



24225 2-Valve



25225 4-Valve

| | | |
|-----|-------|-------|
| R32 | R454B | R410A |
|-----|-------|-------|



| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
|----------|---------------|---------------|----------------|
| 24633 | CCLC-60" | 3-1/8" (80mm) | Illuminating |
| 24625 | Manifold Only | 3-1/8" (80mm) | Illuminating |

| | | |
|-----|-------|-------|
| R22 | R404A | R410A |
|-----|-------|-------|

| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
|----------|---------------|-----------------|----------------|
| 24200 | Manifold Only | 2-1/2" (63.5mm) | Standard |
| 24250 | Manifold Only | 3-1/8" (80mm) | Liquid Filled |
| 24225 | Manifold Only | 3-1/8" (80mm) | Illuminating |
| 24208 | CCLC-60" | 2-1/2" (63.5mm) | Standard |
| 24258 | CCLC-60" | 3-1/8" (80mm) | Liquid Filled |
| 24233 | CCLC-60" | 3-1/8" (80mm) | Illuminating |
| 24265 | CCLV-60" | 3-1/8" (80mm) | Liquid Filled |
| 24240 | CCLV-60" | 3-1/8" (80mm) | Illuminating |
| 24244 | CCLS-60" | 3-1/8" (80mm) | Illuminating |

| | | |
|-----|-------|------|
| R22 | R134A | 404A |
|-----|-------|------|

| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
|----------|---------------|-----------------|----------------------------|
| 24100 | Manifold Only | 2-1/2" (63.5mm) | Standard |
| 24150 | Manifold Only | 3-1/8" (80mm) | Liquid Filled |
| 24125 | Manifold Only | 3-1/8" (80mm) | Illuminating |
| 24108 | CCLC-60" | 2-1/2" (63.5mm) | Standard |
| 24158 | CCLC-60" | 3-1/8" (80mm) | Liquid Filled |
| 24133 | CCLC-60" | 3-1/8" (80mm) | Illuminating |
| 24165 | CCLBV-60" | 3-1/8" (80mm) | Liquid Filled |
| 24140 | CCLBV-60" | 3-1/8" (80mm) | Illuminating |
| 24169 | CCLS-60" | 3-1/8" (80mm) | Liquid Filled, Class 1, 1% |
| 24144 | CCLS-60" | 3-1/8" (80mm) | Illuminating |

| | | | |
|-----|-------|-------|-------|
| R22 | R134A | R404A | R410A |
|-----|-------|-------|-------|

| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
|----------|---------------|---------------|----------------------------|
| 24600 | Manifold Only | 3-1/8" (80mm) | Liquid Filled, Class 1, 1% |
| 24608 | CCLC-60" | 3-1/8" (80mm) | Liquid Filled, Class 1, 1% |
| 24615 | CCLBV-60" | 3-1/8" (80mm) | Liquid Filled, Class 1, 1% |

| | | |
|-----|-----|------|
| R12 | R22 | R502 |
|-----|-----|------|

| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
|----------|---------------|-----------------|----------------|
| 24000 | Manifold Only | 2-1/2" (63.5mm) | Standard |
| 24050 | Manifold Only | 3-1/8" (80mm) | Liquid Filled |
| 24025 | Manifold Only | 3-1/8" (80mm) | Illuminating |
| 24008 | CCLC-60" | 2-1/2" (63.5mm) | Standard |
| 24058 | CCLC-60" | 3-1/8" (80mm) | Liquid Filled |
| 24033 | CCLC-60" | 3-1/8" (80mm) | Illuminating |
| 24065 | CCLBV-60" | 3-1/8" (80mm) | Liquid Filled |
| 24040 | CCLBV-60" | 3-1/8" (80mm) | Illuminating |
| 24069 | CCLS-60" | 3-1/8" (80mm) | Liquid Filled |
| 24044 | CCLS-60" | 3-1/8" (80mm) | Illuminating |

| |
|-------|
| R410A |
|-------|

| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
|----------|---------------|-----------------|----------------|
| 24500 | Manifold Only | 2-1/2" (63.5mm) | R410A Only |
| 24525 | Manifold Only | 3-1/8" (80mm) | R410A Only |
| 24508 | CCLC-60" | 2-1/2" (63.5mm) | R410A Only |
| 24533 | CCLC-60" | 3-1/8" (80mm) | R410A Only |

| | | |
|-------|-------|-------|
| R407A | R422B | R427A |
|-------|-------|-------|

| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
|----------|---------------|---------------|----------------|
| 24325 | Manifold Only | 3-1/8" (80mm) | Illuminating |


| | | |
|-----|-------|------|
| R22 | R407C | 410A |
|-----|-------|------|

| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
|----------|---------------|---------------|----------------|
| 24425 | Manifold Only | 3-1/8" (80mm) | Illuminating |

Additional manifold gauge options, refrigerant combinations and accessories available on page 35. Hose options available begin on page 36. Manifold rebuild kits and repair parts start on pages 89.

ZEPELIN®

4-Valve Forged Aluminum Manifold

- Heavy-duty forged aluminum body is rugged and durable
- Rubber handwheels for improved grip and reduced effort to open/close
- Full 3/8" bore evacuates 40% faster
- Surge dampened gauges for reduced needle movement
- Available with 2-1/2", 3-1/8" and 4" gauges
- Easy-to-read, color-coded refrigerant dials
- Replaceable, durable hanging hook
- Replaceable intake/hose holder fittings
- 1 year warranty; lifetime on bar
- Made in the USA 

| | | |
|-----|-------|-------|
| R32 | R454B | R410A |
|-----|-------|-------|

| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
|----------|----------------|---------------|----------------|
| 25645 | CCLBV4-A2L-60" | 3-1/8" (80mm) | Illuminating |
| 25646 | CCLS4-60" | 3-1/8" (80mm) | Illuminating |
| 25633 | CCL4-60" | 3-1/8" (80mm) | Illuminating |
| 25625 | Manifold Only | 3-1/8" (80mm) | Illuminating |



| | | |
|-------|-------|-------|
| R454A | R454C | R448A |
|-------|-------|-------|

| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
|----------|---------------|---------------|-------------------------|
| 25443 | CCL4-60" | 3-1/8" (80mm) | Illuminating NEW |
| 25445 | Manifold Only | 3-1/8" (80mm) | Illuminating NEW |



| | | |
|-------|-------|-------|
| R454A | R454C | R449A |
|-------|-------|-------|

| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
|----------|---------------|---------------|-------------------------|
| 25453 | CCL4-60" | 3-1/8" (80mm) | Illuminating NEW |
| 25455 | Manifold Only | 3-1/8" (80mm) | Illuminating NEW |



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|-----|-------|-------|
| R22 | R404A | R410A |
|-----|-------|-------|

| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
|----------|---------------|-----------------|----------------|
| 25200 | Manifold Only | 2-1/2" (63.5mm) | Standard |
| 25250 | Manifold Only | 3-1/8" (80mm) | Liquid Filled |
| 25225 | Manifold Only | 3-1/8" (80mm) | Illuminating |
| 25225L | Manifold Only | 3-1/8" (80mm) | LED |
| 25208 | CCL4-60" | 2-1/2" (63.5mm) | Standard |
| 25258 | CCL4-60" | 3-1/8" (80mm) | Liquid Filled |
| 25233 | CCL4-60" | 3-1/8" (80mm) | Illuminating |
| 25233L | CCL4-60" | 3-1/8" (80mm) | LED |
| 25265 | CCLV4-60" | 3-1/8" (80mm) | Liquid Filled |
| 25240 | CCLV4-60" | 3-1/8" (80mm) | Illuminating |
| 25248 | CCLV-60" | 3-1/8" (80mm) | Illuminating |
| 25269 | CCLV4-60" | 3-1/8" (80mm) | Liquid Filled |
| 25246 | CCLS-60" | 3-1/8" (80mm) | Illuminating |

| | | | |
|-----|-------|-------|-------|
| R22 | R134A | R404A | R410A |
|-----|-------|-------|-------|

| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
|----------|-----------|------------|----------------|
| 25708 | CCL4-60" | 4" (102mm) | Illuminating |
| 25713 | CCLV4-60" | 4" (102mm) | Illuminating |

| | | |
|-----|-------|-------|
| R22 | R134A | R404A |
|-----|-------|-------|

| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
|----------|---------------|-----------------|----------------|
| 25100 | Manifold Only | 2-1/2" (63.5mm) | Standard |
| 25150 | Manifold Only | 3-1/8" (80mm) | Liquid Filled |
| 25125 | Manifold Only | 3-1/8" (80mm) | Illuminating |
| 25108 | CCL4-60" | 2-1/2" (63.5mm) | Standard |
| 25158 | CCL4-60" | 3-1/8" (80mm) | Liquid Filled |
| 25133 | CCL4-60" | 3-1/8" (80mm) | Illuminating |
| 25165 | CCLV4-60" | 3-1/8" (80mm) | Liquid Filled |
| 25140 | CCLBV-60" | 3-1/8" (80mm) | Illuminating |
| 25169 | CCLS-60" | 3-1/8" (80mm) | Liquid Filled |
| 25144 | CCLS-60" | 3-1/8" (80mm) | Illuminating |

| | | |
|-----|-----|------|
| R12 | R22 | R502 |
|-----|-----|------|

| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
|----------|---------------|-----------------|----------------|
| 25000 | Manifold Only | 2-1/2" (63.5mm) | Standard |
| 25050 | Manifold Only | 3-1/8" (80mm) | Liquid Filled |
| 25025 | Manifold Only | 3-1/8" (80mm) | Illuminating |
| 25008 | CCL4-60" | 2-1/2" (63.5mm) | Standard |
| 25058 | CCL4-60" | 3-1/8" (80mm) | Liquid Filled |
| 25033 | CCL4-60" | 3-1/8" (80mm) | Illuminating |
| 25065 | CCLV4-60" | 3-1/8" (80mm) | Liquid Filled |
| 25040 | CCLV4-60" | 3-1/8" (80mm) | Illuminating |
| 25069 | CCLS-60" | 3-1/8" (80mm) | Liquid Filled |
| 25044 | CCLS-60" | 3-1/8" (80mm) | Illuminating |

| |
|-------|
| R410A |
|-------|

| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
|----------|---------------|-----------------|---------------------------|
| 25500 | Manifold Only | 2-1/2" (63.5mm) | R410A Only |
| 25550 | Manifold Only | 3-1/8" (80mm) | Liquid Filled, R410A Only |
| 25525 | Manifold Only | 3-1/8" (80mm) | R410A Only |
| 25508 | CCL4-60" | 2-1/2" (63.5mm) | R410A Only |
| 25558 | CCL4-60" | 3-1/8" (80mm) | Liquid Filled, R410 Only |
| 25533 | CCL4-60" | 3-1/8" (80mm) | R410A Only |
| 25523 | CCLV4-60" | 2-1/2" (63.5mm) | R410A Only |
| 25573 | CCLV4-60" | 3-1/8" (80mm) | Liquid Filled, R410A Only |
| 25548 | CCLV4-60" | 3-1/8" (80mm) | R410A Only |

| | | |
|-------|-------|-------|
| R407A | R422B | R427A |
|-------|-------|-------|

| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
|----------|----------|---------------|----------------------------|
| 25325 | CCL4-60" | 3-1/8" (80mm) | Illuminating |
| 25608 | CCL4-60" | 3-1/8" (80mm) | Liquid Filled, Class 1, 1% |

| | | |
|-----|-------|------|
| R22 | R407C | 410A |
|-----|-------|------|

| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
|----------|---------------|---------------|----------------|
| 25425 | Manifold Only | 3-1/8" (80mm) | Illuminating |


| | | |
|-------|-------|------|
| R438A | R407C | 422D |
|-------|-------|------|

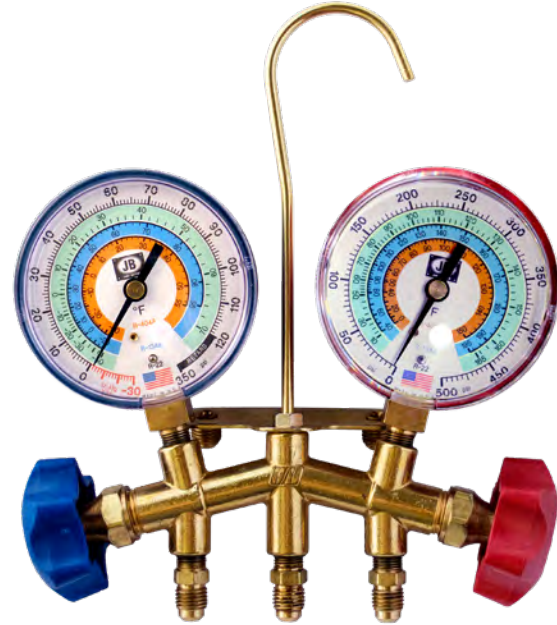
| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
|----------|---------------|---------------|----------------|
| 25825 | Manifold Only | 3-1/8" (80mm) | Illuminating |
| 25833 | CCL4-60" | 3-1/8" (80mm) | Illuminating |

Additional manifold gauge options, refrigerant combinations and accessories available on page 35. Hose options available begin on page 36. Manifold rebuild kits and repair parts start on page 89.

Manifolds

M2 Standard 2-Valve Classic Brass Manifold

- Full-flow, free-floating, dual o-ring sealing system design for faster evacuation and charging
- Forged brass bar with angled bar for increased knuckle clearance to rotate handwheels
- Heavy-duty, all-metal gauge cases for added durability
- Surge dampened gauges for reduced needle movement
- Available in 2-1/2" and 3-1/8" gauges
- Easy-to-read, color-coded refrigerant dials
- Replaceable, durable hanging hook and intake/hose holder fittings
- Easy-to-turn plastic handwheels; metal available on select models
- 1 year warranty; lifetime on bar
- Made in the USA 



M2-23125

| R32 | R454B | R410A | |
|----------------|---------------|-----------------|----------------|
| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
| M2-5-454-32 | CCL-60" | 2-1/2" (63.5mm) | Standard |
| M2-8-454-32 | Manifold Only | 2-1/2" (63.5mm) | Standard |
| M2-5-454-32-SS | CCLS-60" | 2-1/2" (63.5mm) | Standard |



| R22 | R404A | R410A | |
|--------------|---------------|-----------------|---------------------------|
| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
| M2-8-410A | Manifold Only | 2-1/2" (63.5mm) | Standard |
| M2-8-410AB | Manifold Only | 2-1/2" (63.5mm) | Standard w/boots |
| M2-5-410A | CCL-60" | 2-1/2" (63.5mm) | Standard |
| M2-5-410AB | CCL-60" | 2-1/2" (63.5mm) | Standard w/boots |
| M2-5-410A-SS | CCLS-60" | 2-1/2" (63.5mm) | Standard |
| M2-23225 | Manifold Only | 3-1/8" (80mm) | Illuminating, Class 1, 1% |
| M2-22225 | Manifold Only | 3-1/8" (80mm) | Illuminating |
| M2-23231 | CCL-60" | 3-1/8" (80mm) | Illuminating, Class 1, 1% |
| M2-22231 | CCL-60" | 3-1/8" (80mm) | Illuminating |
| M2-22244 | CCLS-60" | 3-1/8" (80mm) | Illuminating |

| R22 | R134A | R404A | |
|-----------|---------------|-----------------|---------------------------|
| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
| M2-21125 | Manifold Only | 2-1/2" (63.5mm) | Standard |
| M2-21125B | Manifold Only | 2-1/2" (63.5mm) | Standard w/boots |
| M2-21131 | CCL-60" | 2-1/2" (63.5mm) | Standard |
| M2-21131B | CCL-60" | 2-1/2" (63.5mm) | Standard w/boots |
| M2-23125 | Manifold Only | 3-1/8" (80mm) | Illuminating, Class 1, 1% |
| M2-22125 | Manifold Only | 3-1/8" (80mm) | Illuminating |
| M2-23131 | CCL-60" | 3-1/8" (80mm) | Illuminating, Class 1, 1% |
| M2-22131 | CCL-60" | 3-1/8" (80mm) | Illuminating |

| R22 | R407C | 410A | |
|----------|---------------|---------------|----------------|
| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
| M2-22425 | Manifold Only | 3-1/8" (80mm) | Illuminating |

| R12 | R22 | R502 | |
|----------|------------------------|-----------------|------------------|
| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
| M2-8 | Manifold Only | 2-1/2" (63.5mm) | Standard |
| M2-8B | Manifold Only | 2-1/2" (63.5mm) | Standard w/boots |
| M2-6 | CL-36R, CL-36B, CL-60Y | 2-1/2" (63.5mm) | Standard |
| M2-6B | CL-36R, CL-36B, CL-60Y | 2-1/2" (63.5mm) | Standard w/boots |
| M2-5 | CCL-60" | 2-1/2" (63.5mm) | Standard |
| M2-5B | CCL-60" | 2-1/2" (63.5mm) | Standard w/boots |
| M2-36 | CCL-36" | 2-1/2" (63.5mm) | Standard |
| M2-36B | CCL-36" | 2-1/2" (63.5mm) | Standard w/boots |

| R410A | | | |
|-----------|---------------|-----------------|--------------------|
| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
| M2-21525 | Manifold Only | 2-1/2" (63.5mm) | R410A Only |
| M2-21525B | Manifold Only | 2-1/2" (63.5mm) | R410A Only w/boots |
| M2-22525 | Manifold Only | 3-1/8" (80mm) | R410A Only |
| M2-21531 | CCL-60" | 2-1/2" (63.5mm) | R410A Only |
| M2-21531B | CCL-60" | 2-1/2" (63.5mm) | R410A Only w/boots |
| M2-22531 | CCL-60" | 3-1/8" (80mm) | R410A Only |

| R407A | R422B | R427A | |
|----------|---------------|---------------|----------------|
| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
| M2-22325 | Manifold Only | 3-1/8" (80mm) | Illuminating |

| M099 | R407C | 422D | |
|----------|---------------|---------------|----------------|
| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
| M2-22825 | Manifold Only | 3-1/8" (80mm) | Illuminating |
| M2-22831 | CCL-60" | 3-1/8" (80mm) | Illuminating |

Additional manifold gauge options, refrigerant combinations and accessories available on page 35. Hose options available begin on page 36. Manifold rebuild kits and repair parts start on pages 89.

M2 Heat Pump Manifold 2-Valve Forged Brass Body

- Full-flow, free-floating, dual o-ring sealing system design for faster evacuation and charging
- Includes Illuminating, Class 1, 1% metal gauges designed for 800 psi to handle heat pump pressures
- Pressure/temperature scale has two sections to accommodate temperature glide on R407c
- Replaceable, durable hanging hook and intake/hose holder fittings
- 1 year warranty; lifetime on bar
- Made in the USA 



M2-HP

| | | |
|-----|-------|------|
| R22 | R407C | 410A |
|-----|-------|------|

| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
|----------|-------------------|---------------|---------------------------|
| M2-HP | Manifold Only | 3-1/8" (80mm) | Illuminating, Class 1, 1% |
| M2-HP-5 | CL6-60" (3) | 3-1/8" (80mm) | Illuminating, Class 1, 1% |
| M2-808 | Replacement Gauge | 3-1/8" (80mm) | Illuminating, Class 1, 1% |

CO₂ Manifold 2-Valve Aluminum Manifold

- For transcritical CO₂ applications
- Unique spindle valves tighten easily
- 3-1/8" (80mm) Class 1, 1% pulse-free liquid filled gauges
- 36" hoses with 1/4" SAE fittings (3 pack)
- Working pressure 2900 psi (200 bar)
- 3 year warranty




Specifications

| | |
|-------------------|---|
| Low Pressure | 30" of Hg to 1200 psi (83 bar) |
| High Pressure | 30" of Hg to 2300 psi (160 bar) |
| Temperature Range | -60°F to 80°F (-55°C to 30°C) |
| Critical Point | 87.98°F/1.071 psi (31.1°C/72.9 bar) |
| Certifications | EN472/EN837 Pressure Equipment Directive and 2014/6 8/CE Article 4, Paragraph 3 |



| PART NO. | DESCRIPTION |
|----------|--|
| 30744 | CO ₂ Manifold with 36" hose set in protective carrying case |
| CL744-36 | 36" single hose for CO ₂ manifold |

Metric Manifolds

Metric manifolds come with 63.5 mm (2-1/2") metric gauges in bar/psi, kPa/psi and kg/cm², as well as standard CL and KOBRA® CLE series hoses. Refer to the M2 Brass, 2-Valve Aluminum ZEPPELIN® and 4-Valve ZEPPELIN® pages for a full list of features for each. Also available with 80mm (3-1/8") metric gauges in select quantities. For more information, contact customer service. Made in the USA 

| DESCRIPTION | M2 BRASS | | | 2-VALVE ZEPPELIN® | | | 4-VALVE ZEPPELIN® | | | REFRIGERANTS | | |
|------------------|----------|---------|--------------------|-------------------|---------|--------------------|-------------------|---------|--------------------|--------------|-------|-------|
| | bar/psi | kPa/psi | Kg/cm ² | bar/psi | kPa/psi | Kg/cm ² | bar/psi | kPa/psi | Kg/cm ² | R22 | R404A | R410A |
| Manifold Only | 28592 | 28292 | 28192 | 28752 | 28852 | 28952 | 27752 | 27852 | 27952 | • | • | • |
| CCL6-60" (152cm) | 28596 | 28296 | 28196 | 28754 | 28854 | 28954 | 27754 | 27854 | 27954 | • | • | • |
| CCLS5-60 (152cm) | 28597 | 28297 | 28197 | — | — | — | — | — | — | • | • | • |
| CCLBV KOBRA® | 28599 | 28299 | 28199 | 28759 | 28859 | 28959 | 27759 | 27859 | 27959 | • | • | • |


| DESCRIPTION | M2 BRASS | | | 2-VALVE ZEPPELIN® | | | 4-VALVE ZEPPELIN® | | | REFRIGERANTS | | |
|---------------------------|----------|---------|--------------------|-------------------|---------|--------------------|-------------------|---------|--------------------|--------------|-----|------|
| | bar/psi | kPa/psi | Kg/cm ² | bar/psi | kPa/psi | Kg/cm ² | bar/psi | kPa/psi | Kg/cm ² | R12 | R22 | R502 |
| Manifold Only | 28572 | 28272 | 28172 | 28772 | 28872 | 28972 | 27772 | 27872 | 27972 | • | • | • |
| CCL-36" (91cm) | 28570 | 28270 | 28170 | 28770 | 28870 | 28970 | 27770 | 27870 | 27970 | • | • | • |
| CCL-60" (152cm) | 28574 | 28274 | 28174 | 28774 | 28874 | 28974 | 27774 | 27874 | 27974 | • | • | • |
| CCLS-60" (152cm) UL R410A | 28576 | 28276 | 28176 | 28776 | 28876 | 28876 | 27776 | 27774 | 27776 | • | • | • |

| DESCRIPTION | M2 BRASS | | | 2-VALVE ZEPPELIN® | | | 4-VALVE ZEPPELIN® | | | REFRIGERANTS | | |
|----------------------------|----------|---------|--------------------|-------------------|---------|--------------------|-------------------|---------|--------------------|--------------|-------|-------|
| | bar/psi | kPa/psi | Kg/cm ² | bar/psi | kPa/psi | Kg/cm ² | bar/psi | kPa/psi | Kg/cm ² | R134A | R404A | R507A |
| Manifold Only | 28582 | 28282 | 28182 | 28782 | 28882 | 28982 | 27782 | 27882 | 27982 | • | • | • |
| CCL-36" (91cm) | 28580 | 28280 | 28180 | 28780 | 28880 | 28980 | 27780 | 27880 | 27980 | • | • | • |
| CCL-60" (152cm) | 28584 | 28284 | 28184 | 28784 | 28884 | 28984 | 27784 | 27884 | 27984 | • | • | • |
| CCL6-60" (152cm) | 28586 | 28286 | 28186 | 28786 | 28886 | 28986 | 27786 | 27886 | 27986 | • | • | • |
| CCLS-60" (152 cm) UL R410A | 28588 | 28288 | 28188 | 28788 | 28888 | 28988 | 27788 | 27888 | 27988 | • | • | • |

| DESCRIPTION | M2 BRASS | | | 2-VALVE ZEPPELIN® | | | 4-VALVE ZEPPELIN® | | | REFRIG. |
|-----------------|----------|---------|--------------------|-------------------|---------|--------------------|-------------------|---------|--------------------|---------|
| | bar/psi | kPa/psi | Kg/cm ² | bar/psi | kPa/psi | Kg/cm ² | bar/psi | kPa/psi | Kg/cm ² | R134A |
| Manifold Only | 28502 | 28202 | 28102 | 28732 | 28832 | 28932 | — | — | — | • |
| CCL-36" (91 cm) | 28505 | 28205 | 28105 | 28735 | 28835 | 28935 | — | — | — | • |

Gauges

LED Gauges

- 3-1/8" Metal gauges for use with R22, R404A and R410A
- On/off rocker switch; 250+ hour battery life
- 3v Lithium coin cell battery (included)
- Available in convenient 8-pack counter display as **M2-LED8PK**
- Made in the USA 



| PART NO. | DESCRIPTION |
|-----------|----------------------------|
| M2-820L | 3-1/8" Compound, LED |
| M2-825L | 3-1/8" Pressure, LED |
| M2-LED8PK | 8 pack LED counter display |

Gauge Boots/Lenses

- Protective gauge boots add increased durability to manifold gauges
- Available for 2-1/2" and 3-1/8" gauges
- Made in the USA 




MR-596



MR-533


| PART NO. | DESCRIPTION |
|----------|---|
| MR-590 | 2-1/2" Black boot (single) |
| MR-593 | 3-1/8" Black boot (single) |
| MR-594 | 3-1/8" Red boot for M2-865 liquid filled (single) |
| MR-595 | 3-1/8" Blue boot for M2-860 liquid filled (single) |
| MR-596 | Set of two 3-1/8" black boots |
| MR-596L | Set of two 3-1/8" black boots for LED gauges |
| MR-598 | Set of two black 2-1/2" black boots |
| MR-517 | 2-1/2" Screw-on lens fits both plastic and metal gauges |
| MR-533 | 3-1/8" Snap-on lens |

A2L and Hydrocarbon Gauges

- Flammable gas gauges for A2L, A3, and hydrocarbon refrigerants
- 3-1/8" Illuminating, Class 1, 1% metal gauges with high impact clear view Lexan lens
- Full-size brass movements
- See page 35 for full descriptions and refrigerants
- Made in the USA 



Gas Pressure Test Kits

- Made in the USA 



| PART NO. | DESCRIPTION |
|----------|---|
| 29433 | Natural and LP gas; Scale 0-20 oz/sq. in; 0-15" of water column |
| 29435 | Natural and LP gas; Scale 0-20 oz/sq. in; 0-35" of water column |
| 29436 | Natural gas only; Scale 0-6 oz/sq. in; 0-10" of water column |

Gas Test Bell Gauges

- Made in the USA 



| PART NO. | DESCRIPTION |
|----------|-----------------------------------|
| GTBG-12 | 3-1/2" Test gauge 0-30lb 3/4" end |
| GTBG-16 | 3-1/2" Test gauge 0-30lb 1" end |

Gauge Options



M2-861
3-1/8" Illuminating,
Standard



M2-820
3-1/8" Illuminating,
Standard



M2-860
3-1/8" Liquid Filled,
Class 1, 1%



M2-810 (R410A Only)
3-1/8" Non-illuminating,
Standard



M2-460
2-1/2" Non-illuminating,
Standard



M2-400
4" Illuminating,
Class 1, 1%









QC-G430
2-1/2" Single Test,
Standard



QC-G851
3-1/8" Single Test,
Standard

Gauge Options

All-metal gauges with high impact clear view Lexan lens, full-size brass movements and recalibrating screw. Available for compound and pressure in assorted sizes and options for use, visibility and refrigerant type. Metric gauges and replacement lenses also available; contact customer service. Made in the USA 

| | PART NO. | | SIZE | DESCRIPTION | REFRIGERANTS | | | | | | | | | | | | | | | | | | | | |
|---|----------|----------|-----------------|----------------------------|--------------|--------|-----|-----|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------------|
| | COMPOUND | PRESSURE | | | R12 | 1234YF | R22 | R32 | R134A | R438A | R290 | R404A | R407A | R407C | R410A | R422D | R427A | R448A | R449A | R454A | R454B | R454C | R502 | R507A | R600A |
|  | M2-863 | M2-864 | 2-1/2" (63.5mm) | Non-Illuminating, Standard | | | | ● | | | | | | ● | | | | | | | ● | | | | |
|  | M2-861 | M2-862 | 3-1/8" (80mm) | Illuminating, Standard | | | | ● | | | | | | ● | | | | | | | ● | | | | |
|  | M2-866 | M2-867 | 3-1/8" (80mm) | Illuminating, Standard | | | | | | | | | | | | ● | | | ● | | ● | | | | NEW |
|  | M2-868 | M2-869 | 3-1/8" (80mm) | Illuminating, Standard | | | | | | | | | | | | | ● | | ● | | ● | | | | NEW |
| | M2-871 | M2-872 | 3-1/8" (80mm) | Illuminating, Standard | | | | | | | | | ● | | | | ● | ● | | | | | | | |
| | M2-472 | M2-473 | 2-1/2" (63.5mm) | Non-Illuminating, Standard | | ● | | | ● | | | | | | | | | | | | | | | | |
| | M2-876 | M2-877 | 3-1/8" (80mm) | Illuminating, Standard | | | | | | | | | | ● | | | ● | ● | | | | | | | |
| | M2-250 | M2-500 | 2-1/2" (63.5mm) | Non-Illuminating, Standard | ● | | ● | | | | | | | | | | | | | | | ● | | | |
| | M2-350 | M2-355 | 2-1/2" (63.5mm) | Non-Illuminating, Standard | | | | | ● | | | | | | | | | | | | | | | | |
| | M2-400 | M2-405 | 4" (102mm) | Illuminating, Class 1, 1% | | | ● | | ● | | | | ● | | | | | | | | | | | | |
| | M2-410 | M2-415 | 2-1/2" (63.5mm) | Non-Illuminating, Standard | | | | | | | | | | ● | | | | | | | | | | | |
| | M2-420 | M2-425 | 2-1/2" (63.5mm) | Non-Illuminating, Standard | | | | | ● | | | | ● | | | | | | | | | | | ● | |
| | M2-430 | M2-435 | 2-1/2" (63.5mm) | Non-Illuminating, Standard | | | ● | | ● | | | | ● | | | | | | | | | | | | |
| | M2-460 | M2-465 | 2-1/2" (63.5mm) | Non-Illuminating, Standard | | | ● | | | | | | ● | | | | | | | | | | | | |
| | M2-600 | M2-605 | 3-1/8" (80mm) | Illuminating, Class 1, 1% | | | | | | ● | | | | | | | | | | | | | | | ● |
| | M2-800 | M2-805 | 3-1/8" (80mm) | Illuminating, Standard | ● | | ● | | | | | | | | | | | | | | | ● | | | |
| | M2-810 | M2-815 | 3-1/8" (80mm) | Non-Illuminating, Standard | | | | | | | | | | ● | | | | | | | | | | | |
| | M2-820 | M2-825 | 3-1/8" (80mm) | Illuminating, Standard | | | ● | | | | | | ● | | | | | | | | | | | | |
| | M2-820L | M2-825L | 3-1/8" (80mm) | LED, Standard | | | ● | | | | | | ● | | | | | | | | | | | | |
| | M2-826 | M2-827 | 3-1/8" (80mm) | Illuminating, Standard | | | ● | | ● | | | | | ● | | | | | | | | | | | |
| | M2-828 | M2-829 | 3-1/8" (80mm) | Illuminating, Standard | | | | | | | | | ● | | ● | | | | | | | | | | |
| | M2-830 | M2-831 | 3-1/8" (80mm) | Illuminating, Standard | | | ● | | | | | | ● | ● | | | | | | | | | | | |
| | M2-844 | M2-845 | 3-1/8" (80mm) | Illuminating, Standard | | | | | | ● | | | | ● | | ● | | | | | | | | | |
| | M2-851 | M2-856 | 3-1/8" (80mm) | Illuminating, Standard | | | ● | | ● | | | | ● | | | | | | | | | | | | |
| | M2-860 | M2-865 | 3-1/8" (80mm) | Liquid Filled, Class 1, 1% | | | ● | | ● | | | | ● | | | | | | | | | | | | |
| | M2-870 | M2-875 | 3-1/8" (80mm) | Liquid Filled, Standard | ● | | ● | | | | | | | | | | | | | | | ● | | | |
| | M2-880 | M2-885 | 3-1/8" (80mm) | Liquid Filled, Standard | | | ● | | ● | | | | ● | | | | | | | | | | | | |
| | M2-890 | M2-895 | 3-1/8" (80mm) | Liquid Filled, Standard | | | ● | | | | | | ● | | | | | | | | | | | | |
| | M2-924 | M2-925 | 3-1/8" (80mm) | Illuminating, Class 1, 1% | | | ● | | | | | | ● | | | | | | | | | | | | |
| | M2-951 | M2-956 | 3-1/8" (80mm) | Illuminating, Class 1, 1% | | | ● | | ● | | | | ● | | | | | | | | | | | | |
| | QC-G430 | QC-G434 | 2-1/2" (63.5mm) | Single Test, Standard | | | ● | | ● | | | | ● | | | | | | | | | | | | |
| | QC-G460 | QC-G465 | 2-1/2" (63.5mm) | Single Test, Standard | | | ● | | | | | | ● | | | | | | | | | | | | |
| | QC-G820 | QC-G825 | 3-1/8" (80mm) | Single Test, Standard | | | ● | | | | | | ● | | | | | | | | | | | | |
| | QC-G851 | QC-G856 | 3-1/8" (80mm) | Single Test, Standard | | | ● | | ● | | | | ● | | | | | | | | | | | | |
|  | QC-G861 | QC-G862 | 3-1/8" (80mm) | Single Test, Standard | | | | ● | | | | | ● | | | | | | | | ● | | | | |
|  | QC-G863 | QC-G864 | 2-1/2" (63.5mm) | Single Test, Standard | | | ● | | | | | | ● | | | | | | | | ● | | | | |

Gauges indicated as Standard are accuracy rated 3-2-3%
 Note: Gauges and hoses not specified for use with R410A can damage tool and cause injury.


Vacuum Pumps
 Climate Class
 A2L/A3
 Recovery
 Scales
 Digital Gauges
 Leak Detection
 Manifolds/Gauges
 Hoses
 Mini-Split Tool Kits
 SHIELD
 CoreMax
 Access Valves
 Brass Fittings
 Ball Valves
 Just Better Tools
 Capillary Tubing
 Automotive/LA-CO
 Warranty/Repair
 Index/Contacts

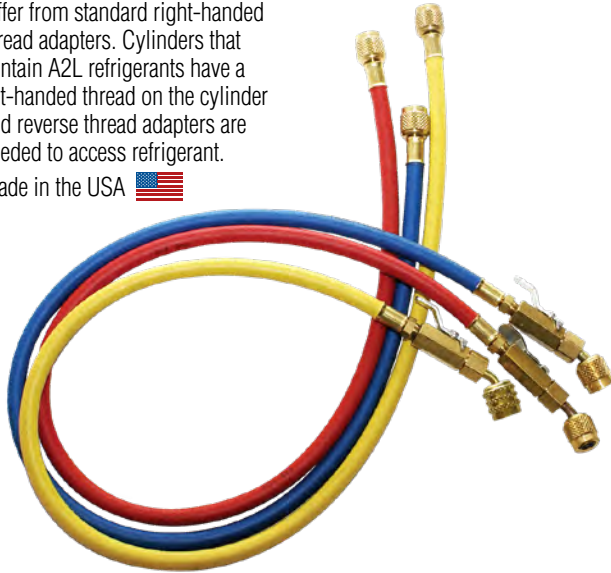
Hoses

A2L Adapter Series Hose **NEW**

Ready to Connect to A2L Recovery Cylinders Out of the Box

Same great KOBRA Hoses with A2L fittings! A2L refrigerant cylinder adapters differ from standard right-handed thread adapters. Cylinders that contain A2L refrigerants have a left-handed thread on the cylinder and reverse thread adapters are needed to access refrigerant.

Made in the USA 



CCLBV-A2L-60



CLBV-A2L-60Y




| PART NO. | DESCRIPTION |
|----------------------|---|
| CCLBV-A2L-60 | 1/4" x 60" Yellow KOBRA Hose Set with Ball-Valve and A2L Fitting |
| CCLBV4-A2L-60 | 1/4" x 60" Yellow KOBRA Hose Set with Ball-Valve and A2L Fitting including Black Hose |
| CCLE-A2L-60 | 1/4" x 60" Yellow KOBRA Hose Set and A2L Fitting |
| CCLE-CV-60Y | 1/4" x 60" Yellow KOBRA Hose Set and Large Cylinder A2L Fitting |
| CCLV-A2L-60 | 1/4" x 60" Yellow KOBRA Hose Set with Ball Valve Whip End and A2L Fitting NEW |
| CLBV-A2L-60Y | 1/4" x 60" Yellow KOBRA Hose with Ball Valve and A2L Fitting |
| CLE-A2L-60Y | 1/4" x 60" Yellow KOBRA Charging Hose and A2L Fitting |
| CLV-A2L-6Y | 1/4" x 6" Yellow KOBRA Whip End with Shut-Off Ball Valve and A2L Fitting |
| CLV-A2L-60Y | 1/4" x 60" Yellow KOBRA Hose with Ball Valve Whip End and A2L Fitting |

A2L Adapters **NEW**

Connect to A2L Cylinders with Left-handed, Reverse-thread Adapters

A2L cylinders feature left-handed threads, requiring reverse-thread adapters for proper access. We offer both reverse-thread hose adapters for connecting charging hoses, along with left-handed cylinder adapters designed to fit larger R454B and R32 refrigerant tanks.

Made in the USA 



QC-A2L-45LH

QC-A2L-LH

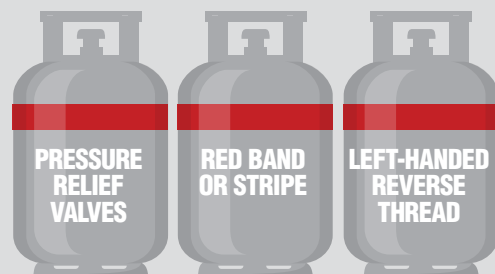
CV-LH-20004



| PART NO. | QTY. | DESCRIPTION |
|------------------------|------|--|
| QC-A2L-LH | 1 | 1/4" Female SAE flare left-handed x 1/4" Male flare |
| QC-A2L-LH-25 | 25 | 1/4" Female SAE flare left-handed x 1/4" Male flare (bulk) |
| QC-A2L-LH-50 | 50 | 1/4" Female SAE flare left-handed x 1/4" Male flare (bulk) |
| QC-A2L-LH-100 | 100 | 1/4" Female SAE flare left-handed x 1/4" Male flare (bulk) |
| QC-A2L-LH45 | 1 | 1/4" FE SAE flare left-handed x 1/4" Male flare 45° |
| QC-A2L-LH45-25 | 25 | 1/4" FE SAE flare left-handed x 1/4" Male flare 45° (bulk) |
| QC-A2L-LH45-50 | 50 | 1/4" FE SAE flare left-handed x 1/4" Male flare 45° (bulk) |
| QC-A2L-LH45-100 | 100 | 1/4" FE SAE flare left-handed x 1/4" Male flare 45° (bulk) |
| QC-A2L-LH90 | 1 | 1/4" FE SAE flare left-handed x 1/4" Male flare 90° NEW |
| CV-LH-20004 | 1 | 3/4" NPS x 1/4" M flare Swivel Cylinder Valve Adapter |
| CV-LH-20006 | 1 | 3/4" NPS x 3/8" M flare NEW |

A2L Cylinders

A2L reclaim and recovery cylinders have three distinct features to help distinguish them from other types of refrigerants.



CLRF Series

2mm Polyamide Capillary Flexible Vibration Eliminating Hydrocarbon Hose

The sophisticated CLRF Series hose system is a safe and cost effective polyamide capillary hose for use with critical charge hydrocarbon refrigeration systems. CLRF Series hose has excellent mechanical and thermal properties combined with extreme durability and vibration eliminating performance.

- Hose ID of 2mm; Highly flexible with a small bend radius
- Suitable for all non-corrosive refrigerants including flammable gases, HFC, HFO, HC and CO2 sub-critical refrigerants and the relevant special oils such as ester- and PAG
- Absorbs all possible multi-directional vibrations
- Maximum working pressure 1160 psi (80 bar)
- Very high burst proof value > 14,500 psi (1,000 bar)
- Temp Range -40°(-40°C) to 266°(130°C)
- Ozone-, UV- and oil resistant



Available individually or with the PATRIOT™ 2-valve brass manifold

CLRF SERIES

| CLRF SERIES 1/4" X 1/4" FLEXIBLE HYDROCARBON HOSE (psi 1160/14,500) | | | | |
|---|---|----------|----------|--------------|
| LENGTH | BLUE | YELLOW | RED | B/Y/R 3 PACK |
| 18" (46cm) | CLRF-18B | CLRF-18Y | CLRF-18R | CCLRF-18 |
| 22733RF-18 | 2-Valve PATRIOT™ w/R290/R600 illuminating gauges and 18" CLRF Series Hose Set | | | |

CNTL90 Series

2mm Pressure Control Hose

Pressure control hose is constructed of an inner core of polyamide and an outer cover of vinyl. The polyamide inner core is wrapped with a synthetic fiber to give the hose pull strength. The polyamide inner lining is the reason it can withstand higher pressures and eliminates the vibration failures of copper capillary tube installations. Higher temperature ratings up to 266°F eliminate the failures caused by maximum loads on rubber hoses.

- Hose ID of 2mm; Highly flexible with a small bend radius
- Suitable for all non-corrosive refrigerants including flammable gases, HFC, HFO, HC and CO2 sub-critical refrigerants and the relevant special oils such as ester- and PAG
- 90° x Straight, 1/4" FFL Connects
- Absorbs all possible multi-directional vibrations
- 1000 psi working; 5000 psi burst
- Temp Range -40°(-40°C) to 266°(130°C)
- Ozone-, UV- and oil resistant




CNTL90 SERIES

| CNTL90 SERIES 1/4" X 1/4" 2MM PRESSURE CONTROL HOSE (psi 1160/14,500) | | |
|---|-------------|-------|
| PART NO. | LENGTH | COLOR |
| CNTL90-12 | 12" (30cm) | Black |
| CNTL90-18 | 18" (46cm) | Black |
| CNTL90-24 | 24" (61cm) | Black |
| CNTL90-30 | 30" (76cm) | Black |
| CNTL90-36 | 36" (91cm) | Black |
| CNTL90-48 | 48" (122cm) | Black |
| CNTL90-60 | 60" (152cm) | Black |

Hoses

CLSX Series

KOBRA® Secure Seal Hose

- 800 psi working; 4000 psi burst
- Larger fitting for increased flow
- UL approved for R410A
- Removable head and rebuildable seal kit for quick, easy field repair or replacement
- Angled depressor with custom gasket and large fitting to prevent leaks and increase flow
- Dual thrust washers (Teflon and stainless steel) for easy turn and free rotation under high pressure
- Smooth action, low-loss fitting minimizes refrigerant loss and prevents spray
- Made in the USA 



| CLSX SERIES KOBRA® 1/4" X 1/4" SECURE SEAL (psi 800/4000) | | | | |
|---|----------|----------|----------|--------------|
| LENGTH | BLUE | YELLOW | RED | B/Y/R 3 PACK |
| 36" (91cm) | CLSX-36B | CLSX-36Y | CLSX-36R | CCLSX-36 |
| 48" (122cm) | CLSX-48B | CLSX-48Y | CLSX-48R | CCLSX-48 |
| 60" (152cm) | CLSX-60B | CLSX-60Y | CLSX-60R | CCLSX-60 |
| 72" (182cm) | CLSX-72B | CLSX-72Y | CLSX-72R | CCLSX-72 |
| Replaceable Head | | CLSX-RH | | |
| Rebuild Kit | | CLSX-RK | | |

CLSX Series Repair Instructions

Easily Replace/Repair Head with Basic Tools

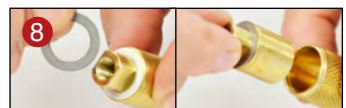
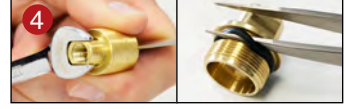
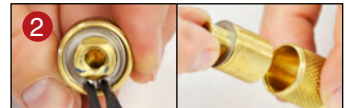
Replace Head CLSX-RH

1. Attach 3/8" wrench to the flats of the head base. Use an adjustable wrench on hex of the barb and turn counterclockwise to remove the head. Apply one to two drops of a standard thread sealant or Teflon tape to the pipe thread of the hose barb.
2. Attach new head and finger tighten turning clockwise. Use 3/8" wrench and adjustable wrench to fully tighten. Torque to 6ft/lbs (approximately 3/4 to 1-1/2 turns past finger tight).




Rebuild Head CLSX-RK

1. Attach 3/8" wrench to the flats of the head base. Use an adjustable wrench on hex of the barb and turn counterclockwise to remove the head.
2. Use spring clip pliers to remove internal spring clip from inside of end cap assembly. Remove coupler nut exposing cup assembly.
3. Remove the Teflon and stainless steel thrust washers.
4. Stabilize slot at base of cup assembly with straight-edge and using a 3/8" wrench turn counterclockwise to detach end cap from cup assembly. Remove and replace end cap o-ring.
5. Remove and discard spring, depressor, and gasket from inside cup using pointed hook or removal tool.
6. Remove and replace o-ring from slotted end of cup.
7. Insert new gasket, depressor and spring in cup. Apply one to two drops of a standard thread sealant or Teflon tape to the pipe thread of the end cap. Reattach end cap with new o-ring to cup assembly using a 3/8" wrench and a straight edge.
8. Replace the Teflon and stainless steel thrust washers. Place cup assembly into coupler nut.
9. Use spring clip pliers to secure internal snap ring inside of end cap assembly. Refer to REPLACE HEAD Step 1 and 2 to reassemble.



CLS Series

KOBRA® Secure Seal Hose

- 800 psi working; 4000 psi burst
- UL R410A approved Secure Seal, specially designed to lock refrigerant inside the hose without the need for a ball valve attachment
- Fully field repairable with **33112RK/33115RK Rebuild Kits**
- Stainless steel thrust washer ensures free rotation under high pressure
- Three-point contact on depressor
- Made in the USA 



CLS SERIES

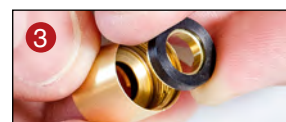


| CLS SERIES KOBRA® 1/4" X 1/4" SECURE SEAL HOSE (psi 800/4000) | | | | | |
|--|-----------|-----------|-----------|-----------------|-----------------------------------|
| LENGTH | BLUE | YELLOW | RED | B/Y/R 3 PACK | B/Y/R BLACK: 3/8" 4 PACK |
| 36" (91cm) | CLS-36B | CLS-36Y | CLS-36R | CCLS-36 | CCLS4-36 |
| 48" (122cm) | CLS-48B | CLS-48Y | CLS-48R | CCLS-48 | CCLS4-48 |
| 60" (152cm) | CLS-60B | CLS-60Y | CLS-60R | CCLS-60 | CCLS4-60 |
| 72" (182cm) | CLS-72B | CLS-72Y | CLS-72R | CCLS-72 | CCLS4-72 |
| 10' (3m) | CLS-120B | CLS-120Y | CLS-120R | | |
| 25' (7.6m) | CLS-300B | CLS-300Y | CLS-300R | | |
| 50' (15.2m) | CLS-600B | CLS-600Y | CLS-600R | | |
| 75' (22.8m) | CLS-900B | CLS-900Y | CLS-900R | | |
| 100' (30.5m) | CLS-1200B | CLS-1200Y | CLS-1200R | | |
| CLS5 SERIES KOBRA® 1/4" X 5/16" SECURE SEAL HOSE* (psi 800/4000) | | | | | |
| 36" (91cm) | CLS5-36B | CLS5-36Y | CLS5-36R | CCLS5-36 | |
| 48" (122cm) | CLS5-48B | CLS5-48Y | CLS5-48R | CCLS5-48 | |
| 60" (152cm) | CLS5-60B | CLS5-60Y | CLS5-60R | CCLS5-60 | |
| 72" (182cm) | CLS5-72B | CLS5-72Y | CLS5-72R | CCLS5-72 | |

CLS Series Repair Instructions

For use with 33112RK/33115RK Rebuild Kits

1. Hold the cup in one hand so that the slotted face of the cup is exposed. Pinch the cup seal o-ring and insert it into the large groove to seat it correctly as shown.
2. Install the barb seal o-ring in the groove located between the hex feature and the back portion of thread. Gently stretch and pull it over the threads of the barb fitting. Ensure the seal is not torn or damaged.
3. Insert bushing/seal into the thread side of the cup. Brass bushing side goes in first with seal facing up as shown.
4. Insert depressor with three-blade feature into the cup assembly. The depressor fits into the bushing/seal installed in the previous step. The depressor must sit flat and true to the seal surface.
5. Place spring into cup assembly over the emboss on the back of the depressor.
6. Screw cup assembly, with spring in an upward position, onto hose barb fitting. Hand tighten the cup to the barb ensuring cup seats over the barb gasket (o-ring) and does not damage the o-ring.
7. Tighten the cup and hose barb using a 9/16" open-end wrench and 1/16" steel blade. Do not over tighten—only 25 to 30 in/lbs is required.
8. Insert barb/cup assembly into the coupler. Seat the thrust washer flat onto the hose barb and inside the coupler. Install the internal snap ring and seat it into the groove of the coupler.




For additional information on assembly or disassembly, refer to 33112RK or 33115RK Rebuild Kit Instructions online at JBIND.COM.

Hoses

CLE Series

KOBRA® Gasket Seal Hose

- 800 psi working; 4000 psi burst
- Gasket seal, high-pressure charging hose
- Blow-out resistant gasket locks into the cup of the fitting
- Barbed depressor precisely machined to guide the valve core into place
- Easy grip 14 TPI pitch knurl
- Made in the USA 



CLE SERIES



| CLE SERIES KOBRA® 1/4" X 1/4" GASKET SEAL HOSE (psi 800/4000) | | | | | |
|---|----------------------|------------------------|---------------------|---|-----------------------------------|
| LENGTH | BLUE | YELLOW | RED | B/Y/R 3 PACK | B/Y/R BLACK: 3/8" 4 PACK |
| 36" (91cm) | CLE-36B | CLE-36Y | CLE-36R | CCLC-36 | CCLC4-36 |
| 48" (122cm) | CLE-48B | CLE-48Y | CLE-48R | CCLC-48 | CCLC4-48 |
| 60" (152cm) | CLE-60B | CLE-60Y | CLE-60R | CCLC-60 | CCLC4-60 |
| 72" (182cm) | CLE-72B | CLE-72Y | CLE-72R | CCLC-72 | CCLC4-72 |
| 10' (3m) | CLE-120B | CLE-120Y | CLE-120R | | |
| 25' (7.6m) | CLE-300B | CLE-300Y | CLE-300R | | |
| 50' (15.2m) | CLE-600B | CLE-600Y | CLE-600R | | |
| 75' (22.8m) | CLE-900B | CLE-900Y | CLE-900R | | |
| 100' (30.5m) | CLE-1200B | CLE-1200Y | CLE-1200R | | |
| CLE5 SERIES KOBRA® 1/4" X 5/16" GASKET SEAL HOSE (psi 800/4000) | | | | | |
| LENGTH | BLUE 1/4" x 5/16" | YELLOW 1/4" x 5/16" | RED 1/4" x 5/16" | BLUE/RED: 1/4" x 5/16" YELLOW: 1/4" x 1/4" 3 PACK | B/Y/R 5/16" x 5/16" |
| 36" (91cm) | CLE5-36B | CLE5-36Y | CLE5-36R | CCLC5-36 | CCLC55-36 |
| 60" (152cm) | CLE5-60B | CLE5-60Y | CLE5-60R | CCLC5-60 | CCLC55-60 |
| 72" (182cm) | CLE5-72B | CLE5-72Y | CLE5-72R | CCLC5-72 | CCLC55-72 |

CLBV Series

KOBRA® Gasket Seal Quarter-Turn Ball Valve Hose

- 800 psi working; 4000 psi burst
- Meets non-venting requirements by trapping refrigerant with ball valve
- 1/4 turn lever-style ball valve fitting at one end opens to full flow
- Barbed depressor locks into the gasket exerting more outward force pushing the gasket further into place
- Depressor is precisely machined for maximum flow and has a dimple that guides the valve core into place
- Made in the USA 




CLBV SERIES



| CLBV SERIES KOBRA® 1/4" X 1/4" WITH BALL VALVE (psi 800/4000) | | | | | |
|--|---|----------|----------|-----------------|-----------------------------------|
| LENGTH | BLUE | YELLOW | RED | B/Y/R 3 PACK | B/Y/R BLACK: 3/8" 4 PACK |
| 36" (91cm) | CLBV-36B | CLBV-36Y | CLBV-36R | CCLBV-36 | CCLBV4-36 |
| 48" (122cm) | CLBV-48B | CLBV-48Y | CLBV-48R | CCLBV-48 | CCLBV4-48 |
| 60" (152cm) | CLBV-60B | CLBV-60Y | CLBV-60R | CCLBV-60 | CCLBV4-60 |
| 72" (182cm) | CLBV-72B | CLBV-72Y | CLBV-72R | CCLBV-72 | CCLBV4-72 |
| CCLBV5 SERIES KOBRA® 1/4" X 5/16" WITH BALL VALVE (psi 800/4000) | | | | | |
| LENGTH | BLUE/RED: 1/4" x 5/16" YELLOW: 1/4" x 1/4" 3 PACK | | | | |
| 36" (91cm) | CCLBV5-36 | | | | |
| 60" (152cm) | CCLBV5-60 | | | | |
| 72" (182cm) | CCLBV5-72 | | | | |

CLV Series

KOBRA® Gasket Seal Quarter-Turn Ball Valve Hose with 6" Whip End

- 800 psi working; 4000 psi burst
- Meets non-venting requirements by trapping refrigerant with ball valve
- **CLV6:** 6" Ball valve with whip end
- **CLP:** 6" Whip end only
- Made in the USA 



| CLV SERIES KOBRA® 1/4" X 1/4" W/BALL VALVE WHIP END (psi 800/4000) | | | | | |
|---|---------|--------------------|---------|-----------------|------------------------------------|
| LENGTH | BLUE | YELLOW | RED | B/Y/R 3 PACK | B/Y/R BLACK (3/8") 4 PACK |
| 36" (91cm) | CLV-36B | CLV-36Y | CLV-36R | CCLV-36 | CCLV4-36 |
| 48" (122cm) | CLV-48B | CLV-48Y | CLV-48R | CCLV-48 | CCLV4-48 |
| 60" (152cm) | CLV-60B | CLV-60Y | CLV-60R | CCLV-60 | CCLV4-60 |
| 72" (182cm) | CLV-72B | CLV-72Y | CLV-72R | CCLV-72 | CCLV4-72 |
| CLV SERIES W/BALL VALVE WHIP END ONLY (psi 800/4000) | | | | | |
| 1/4" x 6" | CLV-6B | CLV-6Y | CLV-6R | CCLV-6 | CLV-6BL |
| 3/8" x 6" | | CLV6-6Y | | | CLV6-6BL |
| CLP SERIES KOBRA® 1/4" X 1/4" HOSE WHIP END ONLY (psi 800/4000) | | | | | |
| 6" (15cm) | CLP-6B | CLP-6Y | CLP-6R | | |
| CLV6 AND CL6 SERIES KOBRA® 3/8" X 3/8" CHARGING HOSE (psi 600/3000) | | | | | |
| LENGTH | BLACK | BLACK W/BALL VALVE | YELLOW | | |
| 36" (91cm) | CL6-36 | CLV6-36 | CL6-36Y | | |
| 48" (122cm) | CL6-48 | CLV6-48 | CL6-48Y | | |
| 60" (152cm) | CL6-60 | CLV6-60 | CL6-60Y | | |
| 72" (182cm) | CL6-72 | CLV6-72 | CL6-72Y | | |

| CLV5 AND CCLV5 SERIES KOBRA® W/BALL VALVE WHIP END 1/4" X 5/16" (psi 800/4000) | | | | |
|--|---|----------------------|------------------------|---------------------|
| LENGTH | BLUE/RED: 1/4" x 5/16" YELLOW: 1/4" x 1/4" 3 PACK | BLUE 1/4" x 5/16" | YELLOW 1/4" x 5/16" | RED 1/4" x 5/16" |
| 36" (91cm) | CCLV5-36 | | | |
| 60" (152cm) | CCLV5-60 | CLV5-60B | CLV5-60Y | CLV5-60R |
| 72" (182cm) | CCLV5-72 | | | |



Hoses

Fast Evacuation Hose

1/2" Heavy-Duty Black


- 1/2": 640 psi working; 3200 psi burst
- Heavy-duty charging hose reduces permeation
- Straight fittings by straight fittings
- Made in the USA 



| FAST EVACUATION HOSE (640PSI/3200PSI) | |
|---------------------------------------|---|
| LENGTH | BLACK (1/2" DIAMETER) |
| 48" (122cm) | CL264-48 (1/4" x 3/8" SAE FE swivel fittings) |
| 60" (152cm) | CL264-60 (1/4" x 3/8" SAE FE swivel fittings) |

Heavy-Duty Series

1/4", 3/8" and 1/2" Heavy-Duty Black Charging Hose


- 1/4": 800 psi working; 4000 psi burst
- 3/8": 800 psi working; 4000 psi burst
- 1/2": 640 psi working; 3200 psi burst
- Heavy-duty charging hose reduces permeation
- Straight fittings by straight fittings
- Made in the USA 



| LENGTH | 800PSI/4000PSI | 500PSI/2000PSI | 640PSI/3200PSI |
|-------------|---|---|---|
| | BLACK (1/4" DIAMETER) (1/4" x 1/4" fittings) | BLACK (3/8" DIAMETER) (3/8" x 3/8" fittings) | BLACK (1/2" DIAMETER) (1/2" x 1/2" fittings) |
| 36" (91cm) | CL4HD-36 | CL6HD-36 | CL2HD-36 |
| 48" (122cm) | CL4HD-48 | CL6HD-48 | CL2HD-48 |
| 60" (152cm) | CL4HD-60 | CL6HD-60 | CL2HD-60 |
| 72" (182cm) | CL4HD-72 | CL6HD-72 | CL2HD-72 |
| LENGTH | 640PSI/3200PSI | | |
| | BLACK (3/8" DIAMETER) (1/4" x 1/4" fittings) | BLACK (1/2" DIAMETER) (1/4" x 1/2" fittings) | |
| 60" (152cm) | CL64-60 | CL84-60 | |
| 48" (122cm) | CL644-48 | | |

Standard Series

1/4" Standard Charging Hose


- 750 psi working; 3000 psi burst
- Ideal for use with all standard refrigerants (except high pressure)
- Permeation can be detected and will vary with refrigerant type and time of exposure
- Made in the USA 



STANDARD SERIES

| STANDARD 1/4" X 1/4" CHARGING HOSE (psi 750/3000) | | | | |
|---|--------|--------|--------|--------------|
| LENGTH | BLUE | YELLOW | RED | B/Y/R 3 PACK |
| 36" (91cm) | CL-36B | CL-36Y | CL-36R | CCL-36 |
| 48" (122cm) | CL-48B | CL-48Y | CL-48R | CCL-48 |
| 60" (152cm) | CL-60B | CL-60Y | CL-60R | CCL-60 |
| 72" (182cm) | CL-72B | CL-72Y | CL-72R | CCL-72 |


Hose Replacement Parts

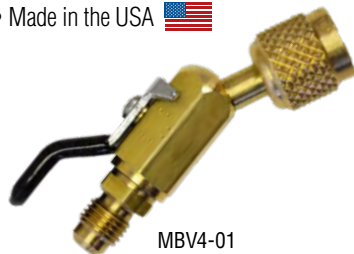
- Made in the USA 





| PART NO. | DESCRIPTION |
|----------------|--|
| A10974 | O-ring/Gasket Removal Tool |
| 33112RK | 1/4" Secure Seal Rebuild Kit |
| 33115RK | 5/16" Secure Seal Rebuild Kit |
| CLSXRK | CLSX Secure Seal Rebuild Kit |
| CLSXRH | CLSX Replacement Head |
| T21295 | Snap Ring Pliers for CLS Secure Seal Fittings, Includes 33112RK 1/4" Rebuild Kit |
| P90022 | O-ring for T21295 and 33112RK (10 pack) |
| P511 | Gasket for 1/4" CLE, CLV, CLB Series Hose (6 pack) |
| P90514 | 1/4" Depressor for CLE, CLV and CLB Series (5 pack) used with P509 |
| P90016 | Gasket for 3/8" Hose (10 pack) |
| P90008 | Gasket for 1/2" Heavy-duty Black Charging Hose (5 pack) |

Mini Ball Valves


- 1/4" for use up to 4000 psi (276 bar) minimum burst; 800 psi (55 bar) maximum working pressure
- 5/16" for R410A applications; 4000 psi (276 bar) minimum burst; 800 psi (55 bar) maximum working pressure
- Made in the USA 



MBV4-01

| PART NO. | DESCRIPTION |
|-------------------|--|
| MBV4-LH-01 | 1/4" Compact mini ball valve A2L left-hand thread (1 pack)  |
| MBV4-LH-03 | 1/4" Compact mini ball valve set A2L left-hand thread (3 pack)  |
| MBV4-03 | 1/4" Compact mini ball valve set (3 pack) |
| MBV4-01 | 1/4" Compact mini ball valve (1 pack) |
| MBV5-03 | 5/16" QC x 1/4" SAE compact mini ball valve set (3 pack) |
| MBV5-01 | 5/16" QC x 1/4" SAE compact mini ball valve (1 pack) |
| P511 | Replacement Gasket |

Flexible Metal Hose

- 900 psi working; 3500 psi burst
- Unlike charging hoses, flexible metal lines will not permeate under vacuum
- Metal lines feature finger-tight o-ring coupler ends
- Made in the USA 



D10472

| PART NO. | DESCRIPTION |
|---------------|--|
| D10436 | 1/4" x 36" Flexible metal line (one 45° fitting) |
| D10472 | 1/4" x 72" Flexible metal line (one 45° fitting) |
| D10636 | 3/8" x 36" Flexible metal line (one 45° fitting) |
| D10660 | 3/8" x 60" Flexible metal line (one 45° fitting) |
| DV-294 | 1/4" x 10" Flexible metal line (one 45° fitting) |
| P90009 | 1/4" Replacement o-ring (10 pack) |
| P90012 | 3/8" Replacement o-ring (10 pack) |

Secure Seal Adapters

- Convert your CLE Series hose into CLS Secure Seal
- Made in the USA 



33112N

33113N

| PART NO. | DESCRIPTION |
|---------------|-------------------------|
| 33112N | 1/4" QC x 1/4" SAE |
| 33113N | 1/4" QC x 1/4" SAE 90° |
| 33115N | 5/16" QC x 1/4" SAE |
| 33116N | 5/16" QC x 1/4" SAE 90° |

Mini-Split Tool Kits

JB INDUSTRIES 

Mini-Split Tool Kits MSKIT1 and MSKIT2

Everything you need for R410A ductless mini-splits in one convenient kit. MSKIT1 and MSKIT2 contain all essential tools to get the job done, including the award-winning PATRIOT™ 2-Valve Manifold, a KOBRA® Secure Seal hose set that is UL approved for R410A, and a heavy-duty six spanner head torque wrench.

MSKIT3

The MSKIT3 is an affordable solution for service technicians who already have a few basic tools in their toolbox.

The Manifold that Gives Back



For each PATRIOT™, MSKIT1 or MSKIT2 sold JB will donate to Operation Homefront. To learn more about Operation Homefront visit www.operationhomefront.net



NEW

Updated Manifold
Gauge Refrigerants
R410A/R32/R454B



MSKIT1 and
MSKIT2



MSKIT 3

MSKIT1 (1/4") AND MSKIT2 (5/16") BACKPACK

| MSKIT1 INCLUDES | MSKIT2 INCLUDES | DESCRIPTION |
|-----------------|-----------------|--|
| 22625 | 22605 | PATRIOT™ manifold with R410A/R32/R454B gauges NEW |
| CCLS-60 | CCLS5-60 | KOBRA® UL approved Secure Seal hose set |
| A32525N | A32535N | Valve core remover w/side port |
| SHLD-P4 | SHLD-E4 | SHIELD® locking cap R410A (4 pack) |
| A31656 | A31665 | SAE brass adapters (2 included) |
| NFT5-4 | NFT5-5 | Brass caps (NFT5-4, 10 pack/NFT5-5, 5 pack) |
| T30605 | | Metric (2-8mm) and Imperial (5/64" - 1/4") hex key set |
| T30600 | | Ratcheting eccentric cone flare tool |
| T30600-G | | Metal Flare Size Gauge; 1/4", 3/8", 1/2", 5/8", 3/4" SAE (6.4mm, 9.5mm, 12.7mm, 15.9mm, 19.1mm) NEW |
| TRQ1080 | | Torque wrench set with 6 spanner heads |
| JB-BACKPACK1 | | JB backpack (40 pockets) |

MSKIT3 TOOLBAG (1/4" AND 5/16")

| MSKIT3 INCLUDES | DESCRIPTION |
|-----------------|--|
| JB-TOOLBAG1 | JB tool bag (30 pockets) |
| T30605 | Metric (2-8mm) and Imperial (5/64" - 1/4") hex key set |
| T30600 | Ratcheting eccentric cone flare tool |
| T30600-G | Metal Flare Size Gauge; 1/4", 3/8", 1/2", 5/8", 3/4" SAE (6.4mm, 9.5mm, 12.7mm, 15.9mm, 19.1mm) NEW |
| TRQ1080 | Torque wrench set with 6 spanner heads |
| NFT5-4 | 1/4" Brass caps (10 pack) |
| NFT5-5 | 5/16" Brass caps (5 pack) |
| A31656 | 5/16" Female x 1/4" SAE brass adapters (2 included) |

Mini-Split Kit Tool Descriptions

NEW



22625 1/4" | 22605 5/16"

PATRIOT™ 2-valve Brass Manifold with **R410A/R32/R454B** Gauges

Made in the USA



CCLS-60 1/4" | CCLS5-60 5/16"

KOBRA® Secure Seal refrigerant charging hoses with low-loss, UL-approved for R410A

Made in the USA



TRQ1080

7.375-59.004 pound-feet (10-80 N-M) torque wrench with six spanner heads (17, 22, 24, 26, 27, 29mm) and 1/2" DR Ratchet head

Made in the USA



T30600

Ratcheting eccentric cone flaring tool with internal clutch to prevent over-torquing. For tube OD: 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4"



A32525N 1/4" | A32535N 5/16"

Valve core removal tool with side port for removing valve cores without losing system charge

Made in the USA



SHLD-P4 1/4" | SHLD-E4 5/16"

SHIELD® Refrigerant locking cap with water-resistant rubber sleeves color-coded for R410A

Made in the USA

NEW



T30600-G

Metal Flare Size Gauge; 1/4", 3/8", 1/2", 5/8", 3/4" SAE (6.4mm, 9.5mm, 12.7mm, 15.9mm, 19.1mm)



NFT5-4 1/4" | NFT5-5 5/16"

Five finger-tight 1/4" o-ring sealed brass caps

Made in the USA



A31656 1/4" | A31665 5/16" male

Brass adapters for 5/16" - 1/4" SAE connections

Made in the USA



T30605

Metric (2-8mm) and Imperial (5/64" - 1/4") hex key sets

Made in the USA



JB-BACKPACK1

Heavy-duty canvas JB backpack



JB-TOOLBAG1

Heavy-duty canvas JB tool bag

SHIELD



REFRIGERANT LOCKING CAPS

Enhance A2L Refrigerant Safety with Clear Identification

As mildly flammable A2L refrigerants become more widespread, the SHIELD A2L Locking Cap provides an easy way to help quickly identify A2L refrigerants while safeguarding against unauthorized access or accidental refrigerant release.


Key Benefits:

Standardized Identification: Helps to quickly identify systems using A2L refrigerants.

Cross-Contamination Prevention: Helps reduce the risk of refrigerant mix-ups while servicing systems.

Enhanced Safety: Minimizes the risk of refrigerant mishandling and encourages proper servicing procedures, especially in commercial or industrial settings where multiple individuals have access to equipment.

Features:

- A2L-Specific color-coded cap cover
- UV and Water resistant cover
- Secure lock requires tamper-resistant bit and driver for access
- Secondary Seal adds an extra layer of leak prevention
- Made in the USA from durable, corrosion-resistant brass
- Available in 1/4" and 5/16" sizes
- Offered in packs of 4, 12, 50, 100, or bulk
- Meets International Mechanical Code 1101.10 and International Residential Code M1411.6 standards
- Made in the USA 




| PART NO. | QTY. | SIZE | DESCRIPTION |
|---------------|------|-------------|--|
| SHLD-A2L4 | 4 | 1/4" | Locking caps and 1 bit (4 pack) |
| SHLD-A2L12 | 12 | 1/4" | Locking caps and 1 bit (12 pack) |
| SHLD-A2L50 | 50 | 1/4" | Locking caps, 1 bit and 3" driver (50 pack) |
| SHLD-A2L100 | 100 | 1/4" | Locking caps, 2 bits and 8" long driver (100 pack) |
| SHLD-E4-A2L | 4 | 5/16" | Locking caps and 1 bit (4 pack) |
| SHLD-E12-A2L | 12 | 5/16" | Locking caps and 1 bit (12 pack) |
| SHLD-E50-A2L | 50 | 5/16" | Locking caps, 1 bit and 3" driver (50 pack) |
| SHLD-E100-A2L | 100 | 5/16" | Locking caps, 2 bits and 8" long driver (100 pack) |
| SHLD-A2L-SL20 | 20 | Red Sleeves | |



SHIELD® R22/410A/Universal

Refrigerant Locking Caps

- Easily identifiable with water-resistant color-coded caps for R22, R410A and universal refrigerants
- Secure, tamper-resistant lock
- Protects against unauthorized access to refrigerants and deters against huffing inhalant abuse and theft
- Helps prevent leaks and excessive energy usage by providing a strong secondary seal to Schrader or backseat valve
- All brass, corrosion-resistant design
- Available with 1/4" and 5/16" fittings in packs of 4, 12, 50 and 100; also available in bulk
- Requires tamper-resistant bit and driver for unlocking
- Made in the USA 

Meets International Safety Codes

International Mechanical Code 1101.10 – Refrigerant circuit access ports located outdoors shall be fitted with locking-type tamper-resistant caps

International Residential Code M1411.6 – Refrigerant circuit access ports located outdoors shall be fitted with locking-type tamper-resistant caps

Universal Refrigerant Locking Cap Key

SHLD-MULTI Refrigerant locking cap key with interchangeable bits conveniently stored inside the tool handle. For use with SHIELD, C&D Valve™ and Novent® Refrigerant Locking Caps.

SHIELD Drivers

For use with SHIELD Refrigerant Locking Caps. Available in 3" (includes one bit), 8" (includes two bits) or combination pack with both driver sizes and two bits, **SHLD-COMBO-DRIVER**.



SHLD-MULTI



SHLD-8-DRIVER

SHLD-3-DRIVER



SHLD-G4

1/4" 4 Pack (R22)

SHLD-P4

1/4" 4 Pack (R410A)



SHLD-U4

1/4" 4 Pack (Universal)



SHLD-E4


5/16" 4 Pack (Universal)



| PART NO. | QTY. | FITTING SIZE | SLEEVE COLOR CODE | DESCRIPTION |
|-------------------|------|--|-------------------|--|
| SHLD-U4 | 4 | 1/4" | Universal | Locking caps and 1 bit (4 pack) |
| SHLD-U12 | 12 | 1/4" | Universal | Locking caps and 1 bit (12 pack) |
| SHLD-U50 | 50 | 1/4" | Universal | Locking caps, 1 bit and 3" driver (50 pack) |
| SHLD-U100 | 100 | 1/4" | Universal | Locking caps, 2 bits and 8" long driver (100 pack) |
| SHLD-E4 | 4 | 5/16" | Universal | Locking caps and 1 bit (4 pack) |
| SHLD-E12 | 12 | 5/16" | Universal | Locking caps and 1 bit (12 pack) |
| SHLD-E50 | 50 | 5/16" | Universal | Locking caps, 1 bit and 3" driver (50 pack) |
| SHLD-G4 | 4 | 1/4" | R22 | Locking caps and 1 bit (4 pack) |
| SHLD-G12 | 12 | 1/4" | R22 | Locking caps and 1 bit (12 pack) |
| SHLD-G50 | 50 | 1/4" | R22 | Locking caps, 1 bit and 3" driver (50 pack) |
| SHLD-P4 | 4 | 1/4" | R410A | Locking caps and 1 bit (4 pack) |
| SHLD-P12 | 12 | 1/4" | R410A | Locking caps and 1 bit (12 pack) |
| SHLD-P50 | 50 | 1/4" | R410A | Locking caps, 1 bit and 3" driver (50 pack) |
| PART NO. | | DESCRIPTION | | |
| SHLD-CJ | | Empty storage jar holds 150 SHIELD® caps | | |
| SHLD-SLU20 | | Universal (black) SHIELD® sleeves (20 pack) | | |
| SHLD-SLG20 | | R22 (green) SHIELD® sleeves (20 pack) | | |
| SHLD-SLP20 | | R410A (pink) SHIELD® sleeves (20 pack) | | |
| SHLD-BIT | | SHIELD® 2 pack bit | | |
| SHLD-3-DRIVER | | SHIELD® 3" driver with 1 bit | | |
| SHLD-8-DRIVER | | SHIELD® 8" long driver with 1 bit | | |
| SHLD-COMBO-DRIVER | | SHIELD® 3" and 8" drivers with 2 bits | | |
| SHLD-MULTI | | Universal locking cap key for SHIELD®, Novent® and C&D Valve™ locking caps | | |

CoreMax® Rapid Charge and Evacuation System

The innovative CoreMax® family of manufacturing and service tools is an integrated, flexible system design that shortens processing time and provides up to 5x greater flow. This dramatically improves sealing with faster access connections. CoreMax® gives you the choice of how you want to test, fill and evacuate your systems.

- Process directly through the valve with additional flow and dramatically better sealing
- Easy-to-use connector at every process station
- Automatic valve shutoff on both sides of connection
- Higher flow improves vacuum quality to maximize SEER rating
- Improves line throughput and reduces evacuation stations
- Easy implementation with lower tool costs
- Improves processing time and field service
- Made in the USA 

For more information and instructional video visit jbind.com



CM-VC003
High-Flow Valve Cores



CM-S370
Seats



CM-CRTOOL
Valve Core Removal Tool



CM-TRQ
Manual Torque Wrench
3/8" Drive



CM-SNAP
SnapMate® Connector

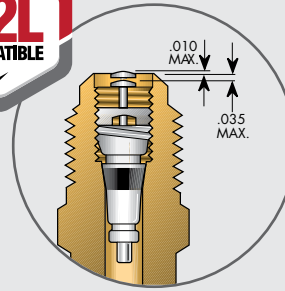
| PART NO. | DESCRIPTION |
|------------------|--|
| CM-VC003 | High-Flow Valves with Caps (3 pack) |
| CM-VC010 | High-Flow Valves with Caps (10 pack) |
| CM-VC025 | High-Flow Valves with Caps (25 pack) |
| CM-VC100 | High-Flow Valves with Caps (100 pack) |
| CM-S370 | 3/8" Seats (3 pack) |
| CM-SS370 | 3/8" Saddle Seats (3 pack) |
| CM-S250 | 1/4" Seats (3 pack) |
| CM-SS250 | 1/4" Saddle Seats (3 pack) |
| CM-CRTOOL | Valve Core Removal Tool |
| CM-SEAL | Main Seal Replacement for CM-CRTOOL (O-ring) |
| CM-RBK | Rebuild Kit for CM-CRTOOL |
| CM-SNAP | SnapMate® Service Connector |
| CM-TRQ | Manual Torque Wrench 3/8" drive |



Access Valve Overview

100% Made in the USA

JB machines access valves at our Aurora, Illinois facility using 100% American C360 alloy brass sourced from US mills. Our brass fittings and access valves have high tensile strength and resist corrosion. All of our valves are machined according to strict AHRI specifications to ensure proper sealing of valve and core surfaces. Quality and dependability come standard with our American-made tools.



Valve Core Pin Location

After valve installation the valve core can be replaced with valve core tools. Torque to AHRI specifications.

| ACCESS VALVES SPECIFICATIONS | |
|------------------------------|---|
| AHRI Standard | 720-2002 |
| AHRI Torque | 3.0 - 5.0 inches/pound |
| Temp Range | -40°F to 250°F (-40°C to 121°C) |
| Valve Bodies | Brass |
| Valve Core | Stainless steel and brass for use with all refrigerants such as R12, R22, R134a, R410A and R502. Resistant to oils, alkalis and diluted mineral acids |

Tube Sizing: ODS and ODF Fit Descriptions

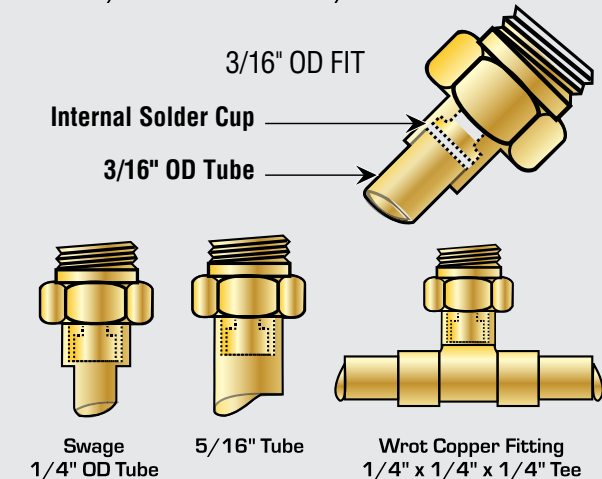
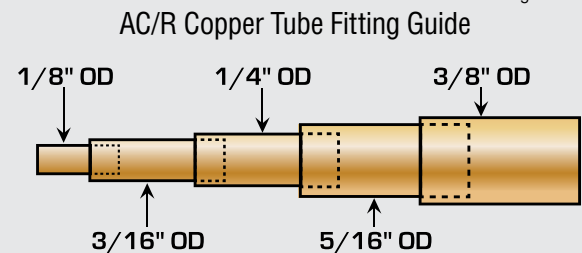
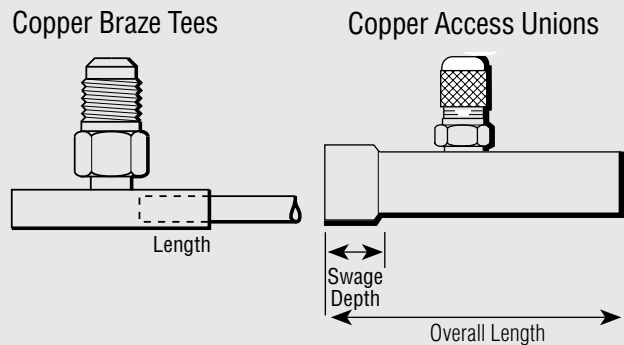
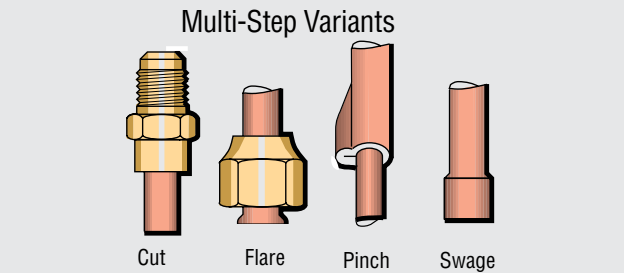
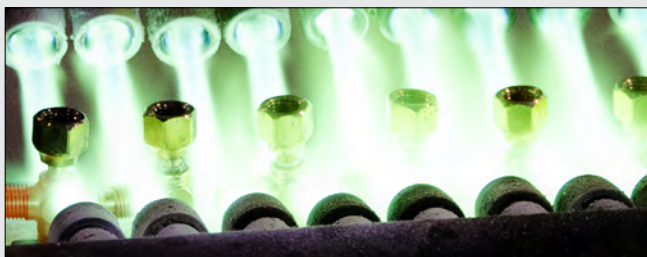
Descriptions for solder/braze access valves specify the connecting tube OD. Size and type fit illustrated are examples of the types of fit for an A31723 valve. The connecting line slips around access fitting; refer to AC/R Copper Tube Fitting Guide and Connecting Tube Size table.

There are two types of ODF fit—external tube fit and swage fit. JB access valve descriptions for ODF refer to swage fit. The connecting tube OD is the same OD as the fitting end. Therefore, the A31723 example above will also slip into 5/16" OD tube. If connecting to wrought copper fitting use ODF swage size.

| CONNECTING TUBE SIZE | | | |
|----------------------|--------------------------|--------------------------|------------------|
| TUBE SIZE | ODS Internal Tube Fit | ODF External Tube Fit | ODF Swage Fit |
| 1/8" | — | 3/16" | — |
| 3/16" | 1/8" | 1/4" | 3/16" |
| 1/4" | 3/16" | 5/16" | 1/4" |
| 5/16" | 1/4" | 3/8" | 5/16" |
| 3/8" | 5/16" | — | 3/8" |

For easy sizing reference the last two numerals of our flare fittings correspond to their respective tube sizes.

| SIZING REFERENCE GUIDE | | | |
|------------------------|-----------|--------|-----------|
| NUMBER | TUBE SIZE | NUMBER | TUBE SIZE |
| 02 | 1/8" | 08 | 1/2" |
| 03 | 3/16" | 10 | 5/8" |
| 04 | 1/4" | 12 | 3/4" |
| 05 | 5/16" | 14 | 7/8" |
| 06 | 3/8" | 18 | 1-1/8" |



Access Valves


A32525SV



Valve Core Removal Tool with Slide Valve Side Port

Designed with the daily job of technicians in mind—The Dealer Design Award-winning A32525SV valve core removal tool utilizes an additional slide valve side port to accommodate a vacuum gauge.

Primary function is to remove and replace the valve core under pressure and/or to remove valve cores in refrigeration systems to increase evacuation and charging performance.

- Swap out damaged valve cores under pressurized air conditioning and refrigeration systems for much faster evacuation
- Slide valve side port valve provides an excellent location to attach a vacuum gauge so system can be checked for absence of moisture and air
- Slide valve side port provides an easy open/close so vacuum gauge can be removed without the introduction of air into the system before charging
- Protect sensitive vacuum gauge sensors when left on during the charging process by closing slide valve side port
- In-line actuated handle allows the contractor to open and close the valve in tight areas with a single finger
- Uses a series of o-rings and precision machining to stay sealed and not leak during evacuation
- Solid brass construction with the tip machined from A2 tool steel extends tool life
- Patented and Made in the USA 


A32525SVT



Valve Core Removal Tool with Slide Valve Side Port and Torque Setting

Designed with the daily job of technicians in mind—The A32525SVT valve core removal tool utilizes an additional slide valve side port to accommodate a vacuum gauge.

Primary function is to remove and replace the valve core under pressure and/or to remove valve cores in refrigeration systems to increase evacuation and charging performance.

- Swap out damaged valve cores under pressurized air conditioning and refrigeration systems for much faster evacuation
- The A32525SVT automatically sets torque 3 to 5 in-lb
- Slide valve side port valve provides an excellent location to attach a vacuum gauge so system can be checked for absence of moisture and air
- Slide valve side port provides an easy open/close so vacuum gauge can be removed without the introduction of air into the system before charging
- Protect sensitive vacuum gauge sensors when left on during the charging process by closing slide valve side port
- In-line actuated handle allows the contractor to open and close the valve in tight areas with a single finger
- Uses a series of o-rings and precision machining to stay sealed and not leak during evacuation
- Solid brass construction with the tip machined from A2 tool steel extends tool life
- Patented and Made in the USA 



Slide Valve Side Port slides open and close protecting attached vacuum gauge

In-Line Actuated Handle for easy open/close



Easily attaches, protects the vacuum gauge.



Slide Valve Side Port slides open and close protecting attached vacuum gauge

In-Line Actuated Handle for easy open/close

AUTOMATICALLY SETS TORQUE 3 to 5 in-lb



Easily attaches, protects the vacuum gauge, and eliminates over tightening

| PART NO. | DESCRIPTION |
|-----------------|---|
| A32525SV | 1/4" x 1/4" Valve Core Removal Tool with Slide Valve Side Port |
| A32535SV | 5/16" x 1/4" Valve Core Removal Tool with Slide Valve Side Port |
| P325 | Replacement o-rings |

| PART NO. | DESCRIPTION |
|------------------|--|
| A32525SVT | 1/4" x 1/4" Valve Core Removal Tool with Slide Valve Side Port and Torque Setting; 3 to 5 in-lb |
| A32535SVT | 5/16" x 1/4" Valve Core Removal Tool with Slide Valve Side Port and Torque Setting; 3 to 5 in-lb |
| P325 | Replacement o-rings |

Vacuum Rated Valve Core Removal Tool with Access Port



- Vacuum rated to 20 microns with quarter-turn ball valve shutoff and o-ring seals
- Speeds up evacuation, recovery or recharging through the full flow port
- Storage area for spare valve cores
- Made in the USA



A32525N

| PART NO. | QUICK CONNECT | FLARE RUN | SIDE PORT |
|----------|---|-----------|-----------|
| A32500N | 1/4" | 1/4" | — |
| A32505N | 5/16" | 1/4" | — |
| A32525N | 1/4" | 1/4" | 1/4" |
| A32530N | 5/16" | 1/4" | 1/4" |
| A32535N | 5/16" | 5/16" | 1/4" |
| A32501N | Core remover bit for A32500N replacement | | |
| A32504 | Core remover bit for A32525N replacement | | |
| P325 | 1/4" and 5/16" replacement gaskets for A32525N (1 each) | | |

Valve Cores and Tool



- Positive stop valve core with neoprene cup washer and PTFE barrel gasket seal for A/C system valves
- Installation torque 3 to 5 in/lbs
- Max 800 psi and 220°F (104°C)
- Made in the USA



A32004

A31999

| PART NO. | QTY. | DESCRIPTION |
|------------|------|---|
| A32004 | 1 | 1/4" Valve core tool with storage for six valve cores |
| A31999 | 5 | 1/4" Valve cores |
| A31999-25 | 25 | 1/4" Valve cores |
| A31999-100 | 100 | 1/4" Valve cores |

Valve Core Torque Tool



- Preset torque to 5 in/lbs for precise torquing of core valves
- Works with all standard valve cores



A32008-BX

A32008

| PART NO. | QTY. | DESCRIPTION |
|-----------|------|---|
| A32008 | 1 | 1/4" Valve core torque tool |
| A32008-B | 12 | 1/4" Valve core torque tools in bulk |
| A32008-BX | 12 | 1/4" Valve core torque tools in display box |

Evacuation Recovery Tool



- Plier-type tool with a quick-release trigger to puncture large holes into the line for discharge of a recovery unit
- Fits 3/16" to 7/8" OD hard tubing




A32100

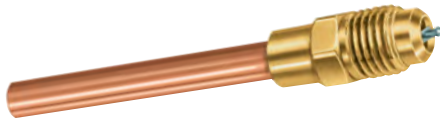
| PART NO. | QTY. | DESCRIPTION |
|----------|------|----------------------------------|
| A32100 | 1 | Evacuation/recovery tool |
| A32101 | 1 | Hardened steel needle and gasket |

Access Valves

Copper Tube Extension Single Step

- For use with Sil-Fos alloy and copper fittings
- Includes 1/4" ID cap (NFT5-4) and valve core
- Generous counterbore allows removal of core if flare becomes damaged
- All tees and crosses are tapped to receive an access core in all 1/4" SAE flare ends
- All pipe connections have internal braze cups for dip tube applications
- Made in the USA 

Note: OD x ID sizes are for copper tube extension




A31004



| PART NO. | QTY. | DESCRIPTION |
|----------|------|--------------------|
| A31002 | 5 | 1/8" OD |
| A31003 | 5 | 3/16" OD x 1/8" ID |
| A31004 | 5 | 1/4" OD x 3/16" ID |
| A31005 | 5 | 5/16" OD x 1/4" ID |
| A31006 | 5 | 3/8" OD x 5/16" ID |
| A31008 | 3 | 1/2" OD |
| A31004S | 5 | 1/4" OD |

Copper Tube Extension Multi-Step

- For use with Sil-Fos alloy and copper fittings
- Includes 1/4" ID cap (NFT5-4) and valve core
- Generous counterbore allows removal of core if flare becomes damaged
- All tees and crosses are tapped to receive an access core in all 1/4" SAE flare ends
- All pipe connections have internal braze cups for dip tube applications
- Made in the USA 


Note: OD x ID sizes are for copper tube extension

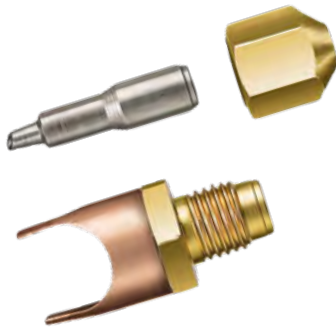


A31009

| PART NO. | QTY. | DESCRIPTION |
|----------|------|---|
| A31009 | 3 | 1/8" OD ext; 3/16", 1/4" and 5/16" ODF body steps |
| A31011 | 3 | 3/16" OD ext; 1/4" and 3/8" ODF body step |
| A31012 | 3 | 1/8" OD ext.; 1/8" and 3/16" body step |

Copper Braze Tapper Only


- Made in the USA 

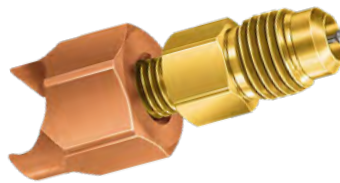


A32804

| PART NO. | QTY. | DESCRIPTION |
|----------|------|-------------|
| A32804 | 5 | 1/4" |
| A32805 | 5 | 5/16" |
| A32806 | 5 | 3/8" |
| A32808 | 3 | 1/2" |
| A32810 | 3 | 5/8" |
| A32812 | 2 | 3/4" |
| A32814 | 2 | 7/8" |
| A32818 | 2 | 1-1/8" |

Copper Braze Saddle with Tapper

- Made in the USA 



A32904

| PART NO. | QTY. | DESCRIPTION |
|----------|------|-------------|
| A32904 | 5 | 1/4" |
| A32905 | 5 | 5/16" |
| A32906 | 5 | 3/8" |
| A32908 | 3 | 1/2" |
| A32910 | 3 | 5/8" |
| A32912 | 2 | 3/4" |
| A32914 | 2 | 7/8" |

Copper 90° Elbow

- Includes cap (NFT5-4) and valve core
- Use Sil-Fos alloy only
- Made in the USA 




A31160

| PART NO. | QTY. | SLIP-FIT CONNECT LINE SIZE |
|----------|------|----------------------------|
| A31160 | 1 | 5/8" ODS |
| A31162 | 1 | 3/4" ODS |
| A31164 | 1 | 7/8" ODS |
| A31168 | 1 | 1-1/8" ODS |

Copper Braze Tee

Adjustable

- Bend, cut, flare, swage or pinch; extra depth slip fit braze cups
- Simple installation anywhere along the line
- Use Sil-Fos alloy only
- Made in the USA 

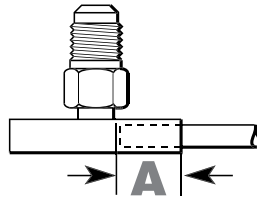
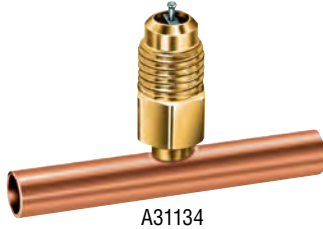



Figure 1. Copper Braze Tees

| PART NO. | QTY. | SLIP-FIT CONNECT LINE SIZE | OVER ALL LENGTH (OAL) | LENGTH FIG 1. (A) |
|----------|------|----------------------------|-----------------------|-------------------|
| A31134 | 3 | 1/4" ODS x 5/16" ODF | 2-1/8" | 1" |
| A31135 | 3 | 5/16" ODS x 3/8" ODF | 2-1/8" | 1" |
| A31136 | 3 | 3/8" ODS x 1/2" ODF | 2-1/8" | 1" |
| A31138 | 3 | 1/2" ODS | 2-1/8" | 1" |
| A31140 | 1 | 5/8" ODS | 2-1/2" | 1" |
| A31142 | 1 | 3/4" ODS | 3" | 1-1/4" |
| A31144 | 1 | 7/8" ODS | 3-1/2" | 1-1/2" |
| A31148 | 1 | 1-1/8" ODS | 3-13/16" | 1-5/8" |
| A31154 | 2 | 3/16" ODS x 1/4" ODF | 4" | 1-15/16" |
| A31155 | 2 | 1/4" ODS x 5/16" ODF | 4" | 1-15/16" |
| A31156 | 2 | 5/16" ODS x 3/8" ODF | 4" | 1-15/16" |

Copper Access Union

- Includes cap (NFT5-4) and valve core
- Install valve in any position
- Connecting line size for ODS and ODF external tube ends
- Use Sil-Fos alloy only
- Made in the USA 

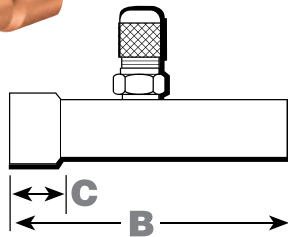
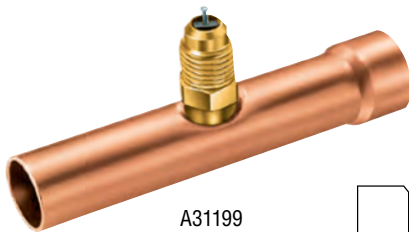


Figure 2. Copper Access Unions

| PART NO. | QTY. | SLIP-FIT CONNECT LINE SIZE | OVER ALL LENGTH (OAL) FIG 2. (B) | MIN. LENGTH (MIN) FIG 2. (C) |
|----------|------|----------------------------|----------------------------------|------------------------------|
| A31199 | 2 | 1/4" OD | 2-3/8" | 5/16" |
| A31200 | 2 | 3/8" OD | 2-3/4" | 5/16" |
| A31201 | 2 | 1/2" OD | 3" | 3/8" |
| A31202 | 2 | 5/8" OD | 3-1/4" | 1/2" |
| A31204 | 2 | 7/8" OD | 3-3/4" | 3/4" |

Copper Braze Tee

Swaged


- Braze cup ends
- Simple installation anywhere along the line
- Use Sil-Fos alloy only
- Made in the USA 



A31334

| PART NO. | QTY. | SLIP-FIT CONNECT LINE SIZE | OVER ALL LENGTH (OAL) |
|----------|------|----------------------------|-----------------------|
| A31334 | 3 | 1/4" OD | 2-1/8" |
| A31335 | 3 | 5/16" OD | 2-1/8" |
| A31336 | 3 | 3/8" OD | 2-1/8" |
| A31338 | 3 | 1/2" OD | 2-1/8" |
| A31340 | 1 | 5/8" OD | 2-1/2" |
| A31342 | 1 | 3/4" OD | 3" |
| A31344 | 1 | 7/8" OD | 3-1/2" |
| A31348 | 1 | 1-1/8" OD | 3-13/16" |

Access Valve Service Kit

- The most popular access fittings for service calls in one convenient storage case. Includes: A31002 (3), A31003 (3), A31004 (3), A31005 (3), A31006 (3), NFT5-4 (6), A31851 (1), A31852 (1), A32004 (1), A31998 (3), A33500 (1), A31729 (3)
- Made in the USA 



AVK-001

| PART NO. | DESCRIPTION |
|----------|--|
| AVK-001 | Access valve service kit in storage case |

Bulk Fitting Jar

- Best selling access valves packaged in a convenient display jar
- Made in the USA 



A31004-CJ

| PART NO. | QTY. | DESCRIPTION |
|-----------|------|--|
| A31004-CJ | 250 | 1/4" OD x 3/16" ID copper tube extension with bulk jar |
| NFT5-4-CJ | 500 | 1/4" SAE cap with bulk jar |

Access Valves

Swivel Flare Connections Add Multiple Ports with One Fitting

- Safe, simple installation without the need for brazing
- Flare ends are tapped to receive access cores
- One core and cap are packaged with each valve

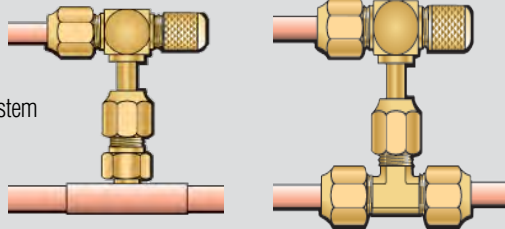


Swivel Flare with Core Depressor


- Add a new line or control
- No refrigerant loss on charged system

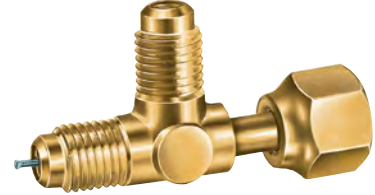
Swivel Flare without Core Depressor

- Multiple ports
- Additional line or controls
- Additional access site



Swivel Flare Tee with Depressor

- Made in the USA 

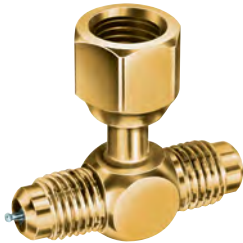


A31851

| PART NO. | QTY. | DESCRIPTION |
|----------|------|--------------------------------------|
| A31851 | 3 | 1/4" Female SAE swivel nut on run |
| A31852 | 3 | 1/4" Female SAE swivel nut on branch |

Swivel Flare Tee without Depressor


- Made in the USA 

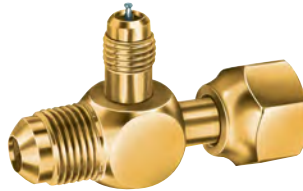


A31854

| PART NO. | QTY. | DESCRIPTION |
|----------|------|---|
| A31854 | 3 | 1/4" Female SAE swivel nut on branch |
| A31864 | 3 | 1/4" FE swivel nut w/o depressor x 1/4" SAE run x 1/4" SAE branch |

Swivel Flare 3/8" SAE Tee


- Made in the USA 



A31853

| PART NO. | QTY. | DESCRIPTION |
|----------|------|---|
| A31853 | 1 | 3/8" SAE x 3/8" Female SAE swivel nut x 1/4" access tee |
| A31856 | 1 | 3/8" SAE x 1/4" access x 3/8" Female SAE swivel nut |

Coupler with Depressor

- Made in the USA 



A33004

| PART NO. | QTY. | DESCRIPTION |
|----------|------|------------------------------------|
| A33004 | 1 | 1/4" SAE swivel flare x male flare |

Bulkhead Mounting

- Made in the USA 



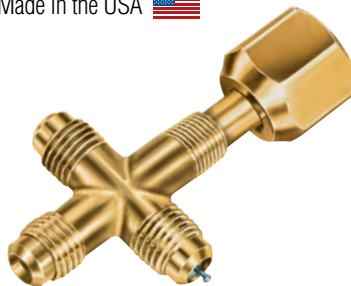
A31434

| PART NO. | QTY. | DESCRIPTION |
|----------|------|---|
| A31434* | 1 | 1/4" SAE x 1/4" SAE w/nut |
| A31727* | 1 | 1/4" SAE x 3/16" and 1/4" ODS or 3/8" ODF |

*Core pre-torqued to AHR!

Swivel Cross with Depressor


- Made in the USA 



A31520

| PART NO. | QTY. | DESCRIPTION |
|----------|------|-------------------------------------|
| A31520 | 1 | 1/4" Female SAE swivel nut x access |

Cross with Three Access Points

- Made in the USA 



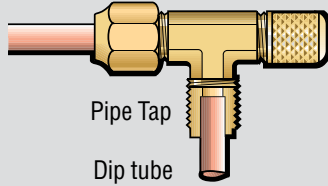
A31522

| PART NO. | QTY. | DESCRIPTION |
|----------|------|----------------|
| A31522 | 1 | 1/8" MPT cross |

PRO TIPS

MPT Connections

Most MPT Connections have internal braze cup for dip tube installation



MPT Connection

- Made in the USA



A31482

| PART NO. | QTY. | DESCRIPTION |
|----------|------|----------------------------------|
| A31482* | 5 | 1/4" Flare x 1/8" MPT Half Union |
| A31484* | 5 | 1/4" Flare x 1/4" MPT Half Union |
| A31492* | 3 | 1/4" Flare x 1/8" MPT Elbow |
| A31494* | 3 | 1/4" Flare x 1/4" MPT Elbow |

*Core pre-torqued to AHRI

MPT Tee Connection

- Made in the USA

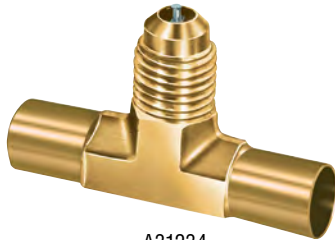


A31452

| PART NO. | QTY. | DESCRIPTION |
|----------|------|---|
| A31452 | 3 | 1/8" MPT x 1/4" SAE Branch Tee |
| A31454 | 3 | 1/4" MPT x 1/4" SAE Branch Tee |
| A31512 | 3 | 1/8" MPT run |
| A31514 | 3 | 1/4" MPT x 1/4" SAE Run x 1/4" SAE Branch Tee |

MPT Forged Brass Braze Tee

- Made in the USA



A31234

| PART NO. | QTY. | DESCRIPTION |
|----------|------|----------------------|
| A31234 | 3 | 1/4" ODS x 3/8" ODF |
| A31235 | 3 | 5/16" ODS x 3/8" ODF |
| A31236 | 3 | 3/8" ODS x 1/2" ODF |
| A31238 | 3 | 1/2" ODS x 5/8" ODF |

MPT Flared Tube Connection

- Made in the USA



A31424

| PART NO. | QTY. | DESCRIPTION |
|----------|------|-----------------------------------|
| A31424* | 3 | 1/4" Female SAE union w/flare nut |
| A31444 | 3 | 1/4" Female SAE union w/flare nut |

*Core pre-torqued to AHRI

MPT Flare Connection and Flare Fitting Adapter

- Made in the USA



A31734

| PART NO. | QTY. | DESCRIPTION |
|----------|------|--|
| A31614* | 5 | 1/4" Female SAE w/copper gasket |
| A31734* | 3 | 1/4" Female SAE swivel nut w/depressor |

*Core pre-torqued to AHRI

MPT Brass Bodies

- Made in the USA



A31722

| PART NO. | QTY. | DESCRIPTION |
|----------|------|----------------------|
| A31722 | 3 | 1/8" ODS x 1/4" ODF |
| A31723 | 3 | 3/16" ODS x 1/4" ODF |
| A31724 | 3 | 1/4" ODS x 3/8" ODF |
| A31725 | 3 | 5/16" ODS x 1/2" ODF |
| A31726 | 3 | 3/8" ODS x 1/2" ODF |
| A31728 | 3 | 1/2" ODS x 5/8" ODF |

MPT Multi-Step

- Made in the USA



A31720




A31729

| PART NO. | QTY. | DESCRIPTION |
|----------|------|-------------------------------------|
| A31720 | 5 | 3/16" ODS x 1/4" or 3/8" ODF steps |
| A31729 | 3 | 3/16", 1/4", 5/16", 1/2" ODF steps |
| A31736 | 3 | 1/8" ODS x 3/16", 1/4" or 5/16" ODF |

Access Valves

Red A2L Quick Seal O-Ring Caps

NEW

- Deep vacuum and A/C refrigeration
- Finger-tight sealing for all male 1/4" SAE connections
- Made in the USA 



NFT5-4-A2L-10

| PART NO. | QTY. | DESCRIPTION |
|----------------|------|-------------------------|
| NFT5-4-A2L-10 | 10 | A2L 1/4" SAE cap |
| NFT5-4-A2L-25 | 25 | A2L 1/4" SAE cap |
| NFT5-4-A2L-50 | 50 | A2L 1/4" SAE cap |
| NFT5-4-A2L-100 | 100 | A2L 1/4" SAE cap |
| P90010 | 10 | Replacement 1/4" o-ring |

E-Z Tapper

- Backseating stem eliminates line restriction when servicing through access port or when using the valve for flow control
- Made in the USA 



EZ-40288

| PART NO. | QTY. | DESCRIPTION |
|--------------|------|--|
| EZ-40288 | 1 | E-Z tapper piercing valve 3/16" x 3/8" OD tube |
| EZ-40288-126 | 5 | E-Z tapper gasket |

Quick Seal O-Ring Caps


- Deep vacuum and A/C refrigeration
- Finger-tight sealing for all male SAE connections
- Made in the USA 



NFT5-4

| PART NO. | QTY. | DESCRIPTION |
|------------|------|--------------------------|
| NFT5-4 | 10 | 1/4" SAE cap |
| NFT5-5 | 5 | 5/16" SAE cap |
| NFT5-6 | 3 | 3/8" SAE cap |
| NFT5-8 | 3 | 1/2" SAE cap |
| NFT5-4-25 | 25 | 1/4" SAE cap |
| NFT5-4-100 | 100 | 1/4" SAE cap |
| NFT5-4-101 | 1000 | 1/4" SAE cap |
| NFT5-6-100 | 100 | 3/8" SAE cap |
| NFT5-6-101 | 500 | 3/8" SAE cap |
| P90010 | 10 | Replacement 1/4" o-ring |
| P90011 | 5 | Replacement 5/16" o-ring |

O-Ring Seal Line Piercing


- Spring-loaded needle automatically backseats forming a leakproof seal
- Simple installation that is 100% restriction-free
- Made in the USA 



LT-456

| PART NO. | DESCRIPTION |
|----------|---------------------------------|
| LT-456 | 1/4" – 3/8" Line piercing valve |
| LT-810 | 1/2" – 5/8" Line piercing valve |

Quick Seal Gasket Caps


- Deep vacuum and A/C refrigeration
- Finger-tight sealing for all male SAE connections
- Made in the USA 



A31985

| PART NO. | QTY. | DESCRIPTION |
|------------|------|-------------------------|
| A31985 | 10 | 1/4" SAE cap |
| A31985-100 | 100 | 1/4" SAE cap |
| P509 | 6 | 1/4" Replacement gasket |
| P509-25 | 25 | 1/4" Replacement gasket |

Backseating Control Valve

- Ideal for use on pre-charged line sets
- Stops spray of leak detection dye/refrigerant
- Compact brass body for long service and swivel coupler with double safety grooves
- Made in the USA 



A33000

| PART NO. | QTY. | DESCRIPTION |
|----------|------|--------------------------------------|
| A33000 | 1 | 1/4" SAE x 1/4" o-ring quick coupler |
| P90009 | 10 | Replacement o-ring |

QC Angled Adapter 45°


- Made in the USA 



QC-S45-45

| PART NO. | DESCRIPTION |
|-----------|---|
| QC-S45-45 | 5/16" Female x 1/4" SAE Male Angled Adapter 45° |

QC Straight


- Made in the USA 



QC-S4

| PART NO. | DESCRIPTION |
|----------|------------------------------------|
| QC-S3 | 3/16" QC x 1/4" SAE |
| QC-S4 | 1/4" QC x 1/4" SAE |
| QC-S46 | 1/4" QC x 3/8" SAE |
| QC-S5 | 5/16" QC x 1/4" SAE |
| QC-S5S | 5/16" QC x 1/4" SAE (w/valve core) |
| QC-S64 | 3/8" QC x 1/4" SAE (no depressor) |
| QC-S65 | 3/8" QC x 5/16" SAE (no depressor) |

QC Female NPT Thread

- Made in the USA 



QC-S4A

| PART NO. | DESCRIPTION |
|----------|---------------------------|
| QC-S4A | 1/4" QC x 1/8" Female NPT |
| QC-S4B | 1/4" QC x 1/4" Female NPT |

Wrench Style Seal Cap

- For A/C refrigeration service
- Brass-to-brass positive seal and permanent installation
- Made in the USA 



A31986

| PART NO. | QTY. | DESCRIPTION |
|----------|------|--------------|
| A31986 | 5 | 1/4" SAE cap |

Core Removers

- Made in the USA 




A31997



A31998

| PART NO. | QTY. | DESCRIPTION |
|----------|------|----------------------------|
| A31997 | 10 | 1/4" Core remover cap |
| A31998 | 5 | 1/4" Plastic core removers |

Specialty Caps

- Made in the USA 




A31992

| PART NO. | QTY. | DESCRIPTION |
|------------|------|---------------------------------|
| A31992 | 5 | 1/4" SAE cap |
| A31992-100 | 100 | 1/4" SAE cap |
| 13493 | 2 | Plastic cap with retainer strap |
| 13494 | 1 | Plastic cap |

Access Valves

QC Elbow


- Made in the USA 



QC-E5

| PART NO. | DESCRIPTION |
|----------|---|
| QC-E4 | 1/4" QC x 1/4" SAE elbow |
| QC-E5 | 5/16" QC x 1/4" SAE elbow |
| QC-E64 | 3/8" QC x 1/4" SAE elbow (no depressor) |

QC SAE Female Adapter


- Made in the USA 



A31656

| PART NO. | DESCRIPTION |
|----------|--|
| A31656 | 1/4" SAE Male x 5/16" SAE Female Adapter |
| A31665 | 5/16" SAE Male x 1/4" SAE Female Adapter |

QC Access Tee

- O-ring seal quick coupler
- Includes cap and valve core
- Made in the USA 



A34000

| PART NO. | QTY. | DESCRIPTION |
|----------|------|----------------------------------|
| A34000 | 1 | 1/4" QC x 1/4" access branch tee |
| P90009 | 10 | Replacement o-ring |

Core Depressor

- Made in the USA 



A33500

| PART NO. | DESCRIPTION |
|----------|--------------------------------|
| A33500 | 1/4" Thumbscrew core depressor |
| P90009 | Replacement o-ring |

Liquid Charging Adapters

- Metering element assures a safe, fast charge without damaging the compressor
- Made in the USA 




LC-4/LC-5

| PART NO. | DESCRIPTION |
|----------|-------------------------------|
| LC-4 | 1/4" Liquid charging adapter |
| LC-5 | 5/16" Liquid charging adapter |



Swivel Cylinder Valve Adapter

NEW

- O-ring seal quick coupler
- Includes cap and valve core
- Made in the USA 



CV-20004

| PART NO. | DESCRIPTION |
|-------------|---|
| CV-LH-20004 | 3/4" NPS x 1/4" M flare  |
| CV-LH-20006 | 3/4" NPS x 3/8" M flare  |
| CV-20004 | 3/4" NPS x 1/4" M flare |
| CV-20006 | 3/4" NPS x 3/8" M flare |

O-Rings/Gaskets Replacement Parts

• Made in the USA 



P90009



P90010



P90012



P90016



A10974

| PART NO. | QTY. | DESCRIPTION |
|-----------|------|--|
| A10974 | 1 | O-ring/Gasket Removal Tool |
| A10974-BX | 12 | O-ring/Gasket Removal Tool Display Box NEW |
| P325 | 2 | 1/4" and 5/16" replacement gaskets for A32525N (1 each) |
| P509 | 6 | 1/4" Gasket for quick couplers, gasket caps (6 pack) |
| P509-25 | 25 | 1/4" Gasket for quick couplers, gasket caps (25 pack) |
| P510 | 6 | 1/4" CLA Series R134a gasket (6 pack) |
| P511 | 6 | Gasket for 1/4" CLE, CLV, CLBV Series hose (6 pack) |
| P511-10 | 10 | Gasket for 1/4" CLE, CLV, CLBV Series hose (10 pack) |
| P90008 | 5 | Gasket for 1/2" heavy-duty black charging hose (5 pack) |
| P90009 | 10 | 1/4" O-ring for couplers, vacuum pumps and flexible metal hose (10 pack) |
| P90010 | 5 | 1/4" O-ring for access valves and liquid charging adapters, 1/4" caps (5 pack) |
| P90011 | 5 | 5/16" O-ring for liquid charging adapters (5 pack) |
| P90012 | 10 | 3/8" O-ring for couplers, vacuum pumps and flexible metal hose (10 pack) |
| P90016 | 10 | Gasket for 3/8" hose (10 pack) |
| P90022 | 10 | O-ring for T21295 and 33112RK (10 pack) |
| P90513 | 5 | 1/4" Spring type clip depressor for coupler; used with P509 (5 pack) |
| P90514 | 5 | 1/4" Depressor for CLE, CLV and CLBV Series used with P511 (5 pack) |



P90513



P509



P90514



P511



A10974-BX

American-made Brass

SAE 45° Flared Tube Fittings

JB fittings are for use with copper, brass, aluminum, steel and plastic tube provided an acceptable flare can be generated with the material.

Vacuum and pressures of 5,000 psi can be handled depending upon the size, material and conditions. Using a 4:1 safety factor, the following general rule (excluding plastic tube) is used:

3,000 psi to 1/4" 2,000 psi to 1/2" 1,500 psi to 1"

Long nuts are recommended when vibration is a factor. Tubing should be double-flared in extreme applications to minimize flare thinning on over-tightening.

Fittings listed generally comply with SAE, ASA, ASME and MS standards; however, when design makes dimensions critical, please contact customer service for samples and/or prints for testing and evaluation.

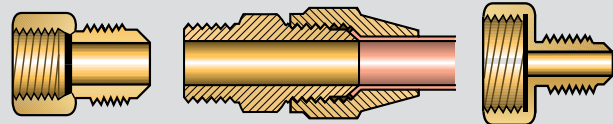
Tube sizes listed are OD (outside diameter). To determine nominal (water tube) size, subtract 1/8", thus 5/8" OD equals 1/2" nominal. Pipe sizes listed are standard nominal pipe size and threads are to dry seal taper pipe standards. JB will provide flare fitting to SAE Standard J513 whenever possible. In some cases slight deviations will occur when full compliance fittings are not available.

Heavy-duty ACR tube fittings generally conform to SAE, ASA and AHRI Standards for hydraulic, marine and refrigeration service. Long dry seal pipe threads minimize leakage and provide more clearance for tightening flare nuts. Shapes, elbows, tees, etc. are made from brass forgings to maximize strength and eliminate cracks.

Assembly Instructions

1. Cut tube square and remove cut-off burr
 2. Slide nut on tube, threaded end facing end of tube
 3. Flare tube following flaring tool manufacturers instructions (check flare quality)
 4. Thread nut on to fitting body "hand tighten"
 5. With proper wrench, tighten to a solid feel
- CAUTION: Over-tightening and dirt can damage fittings and/or tube causing leaks.

NOTE: Lubrication of flare faces and threads is recommended when practical.



Copper seal gaskets (B2) series furnished with all female flares

Fiber gaskets (K1 and D/E) furnished with all drum adapters (K1-1 through 8)

| THREAD SIZE OF TUBE ENDS | | | |
|--------------------------|-------------|---------|--------------|
| OD TUBE | SAE - FLARE | OD TUBE | SAE FLARE |
| 1/8" | 5/16" - 24 | 1/2" | 3/4" - 16 |
| 3/16" | 3/8" - 24 | 5/8" | 7/8" - 14 |
| 1/4" | 7/16" - 20 | 3/4" | 1-1/16" - 14 |
| 5/16" | 1/2" - 20 | 7/8" | 1-1/4" - 12 |
| 3/8" | 5/8" - 18 | 1" | 1-3/8" - 12 |
| 7/16" | 11/16" - 16 | — | — |

| TORQUE POUNDS FOR FLARE FITTING (DRY THREAD) | |
|--|--------|
| SIZE | FT/LBS |
| 1/4" | 8-10 |
| 3/8" | 15-25 |
| 1/2" | 25-35 |
| 5/8" | 40-55 |
| 3/4" | 50-60 |

PRO TIPS ★

Brass Fittings

Copper Flare Bonnet


- Use with flare nut to cap fittings
- Made in the USA 



B1-3

| PART NO. | QTY. | SIZE |
|----------|------|-------|
| B1-3 | 5 | 3/16" |
| B1-4 | 25 | 1/4" |
| B1-6 | 5 | 3/8" |
| B1-8 | 5 | 1/2" |
| B1-10 | 10 | 5/8" |
| B1-12 | 5 | 3/4" |

Swivel Female Flare x Solder Adapter


- Made in the USA 

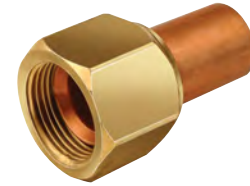


A32700

| PART NO. | QTY. | DESCRIPTION |
|----------|------|------------------------|
| A32700 | 4 | 1/4" x 1/4" (US5-44) |
| A32701 | 4 | 3/8" x 3/8" (US5-66) |
| A32702 | 4 | 1/2" x 1/2" (US5-88) |
| A32703 | 2 | 5/8" x 5/8" (US5-1010) |
| A32704 | 2 | 3/4" x 3/4" (US5-1212) |

Swivel Female Flare x Solder Adapter

- Made in the USA 



US5-1212

| PART NO. | QTY. | SIZE |
|----------|------|-------------|
| US5-44 | 5 | 1/4" x 1/4" |
| US5-66 | 5 | 3/8" x 3/8" |
| US5-88 | 5 | 1/2" x 1/2" |
| US5-1010 | 5 | 5/8" x 5/8" |
| US5-1212 | 2 | 3/4" x 3/4" |

Copper Flare Gasket

- For brass-to-brass or brass-to-steel connections to prevent leaks
- Made in the USA 



B2-3

| PART NO. | QTY. | SIZE |
|----------|------|-------|
| B2-3 | 5 | 3/16" |
| B2-4 | 25 | 1/4" |
| B2-5 | 5 | 5/16" |
| B2-6 | 25 | 3/8" |
| B2-8 | 25 | 1/2" |
| B2-10 | 10 | 5/8" |
| B2-12 | 10 | 3/4" |

Short Forged Nut


- Made in the USA 



A32600

| PART NO. | QTY. | DESCRIPTION |
|----------|------|---------------|
| A32600 | 10 | 1/4" (NS4-4) |
| A32601 | 5 | 5/16" (NS4-5) |
| A32602 | 10 | 3/8" (NS4-6) |
| A32603 | 5 | 1/2" (NS4-8) |
| A32604 | 5 | 5/8" (NS4-10) |
| A32605 | 2 | 3/4" (NS4-12) |

Short Forged Nut

- Made in the USA 



NS4-14

| PART NO. | QTY. | SIZE |
|-----------|------|----------------|
| NS4-3 | 10 | 3/16" |
| NS4-4 | 25 | 1/4" (A32600) |
| NS4-4-CS | 1000 | 1/4" (A32600) |
| NS4-5 | 10 | 5/16" (A32601) |
| NS4-6 | 25 | 3/8" (A32602) |
| NS4-6-CS | 500 | 3/8" (A32602) |
| NS4-8 | 25 | 1/2" (A32603) |
| NS4-8-CS | 350 | 1/2" (A32603) |
| NS4-10 | 10 | 5/8" (A32604) |
| NS4-10-CS | 200 | 5/8" (A32604) |
| NS4-12 | 5 | 3/4" (A32605) |
| NS4-12-CS | 100 | 3/4" (A32605) |
| NS4-14 | 2 | 7/8" |

Flare x Female Solder Ell

- For brass-to-brass or brass-to-steel connections to prevent leaks
- Made in the USA 



ES2-44

| PART NO. | QTY. | SIZE |
|----------|------|-------------|
| ES2-44 | 5 | 1/4" x 1/4" |
| ES2-66 | 5 | 3/8" x 3/8" |
| ES2-68 | 2 | 3/8" x 1/2" |
| ES2-88 | 2 | 1/2" x 1/2" |

Female Flare x Flare Ell

- Includes copper gasket
- Made in the USA 



E4-44

| PART NO. | QTY. | SIZE |
|----------|------|-------------|
| E4-44 | 5 | 1/4" x 1/4" |
| E4-66 | 2 | 3/8" x 3/8" |
| E4-88 | 2 | 1/2" x 1/2" |

Flare x Male Pipe Ell

• Made in the USA 




E1-12E

| PART NO. | QTY. | SIZE |
|----------|------|--------------|
| E1-2A | 5 | 1/8" x 1/8" |
| E1-3A | 2 | 3/16" x 1/8" |
| E1-4A | 10 | 1/4" x 1/8" |
| E1-4B | 10 | 1/4" x 1/4" |
| E1-4C | 5 | 1/4" x 3/8" |
| E1-5A | 5 | 5/16" x 1/8" |
| E1-5B | 5 | 5/16" x 1/4" |
| E1-5C | 5 | 5/16" x 3/8" |
| E1-6A | 5 | 3/8" x 1/8" |
| E1-6B | 10 | 3/8" x 1/4" |
| E1-6C | 10 | 3/8" x 3/8" |

| PART NO. | QTY. | SIZE |
|----------|------|-------------|
| E1-6D | 5 | 3/8" x 1/2" |
| E1-6E | 2 | 3/8" x 3/4" |
| E1-8B | 5 | 1/2" x 1/4" |
| E1-8C | 5 | 1/2" x 3/8" |
| E1-8D | 10 | 1/2" x 1/2" |
| E1-8E | 2 | 1/2" x 3/4" |
| E1-10C | 2 | 5/8" x 3/8" |
| E1-10D | 2 | 5/8" x 1/2" |
| E1-10E | 2 | 5/8" x 3/4" |
| E1-12D | 2 | 3/4" x 1/2" |
| E1-12E | 2 | 3/4" x 3/4" |

Flare Ell


• Made in the USA 



E2-2

| PART NO. | QTY. | SIZE |
|----------|------|-------|
| E2-2 | 5 | 1/8" |
| E2-3 | 5 | 3/16" |
| E2-4 | 5 | 1/4" |
| E2-5 | 5 | 5/16" |
| E2-6 | 5 | 3/8" |
| E2-8 | 5 | 1/2" |
| E2-10 | 2 | 5/8" |
| E2-12 | 2 | 3/4" |

Reducing Flare Ell


• Made in the USA 



ER2-64

| PART NO. | QTY. | SIZE |
|----------|------|-------------|
| ER2-64 | 5 | 3/8" x 1/4" |
| ER2-84 | 2 | 1/2" x 1/4" |
| ER2-86 | 5 | 1/2" x 3/8" |
| ER2-108 | 2 | 5/8" x 1/2" |

Swivel Female Flare x Flare Ell

• Made in the USA 



ES4-44

| PART NO. | QTY. | SIZE |
|----------|------|-------------|
| ES4-44 | 2 | 1/4" x 1/4" |
| ES4-66 | 2 | 3/8" x 3/8" |
| ES4-88 | 2 | 1/2" x 1/2" |
| ES4-1212 | 2 | 3/4" x 3/4" |

Flare x Female Pipe Ell

• Made in the USA 



E3-5B

| PART NO. | QTY. | SIZE |
|----------|------|--------------|
| E3-4A | 5 | 1/4" x 1/8" |
| E3-4B | 2 | 1/4" x 1/4" |
| E3-5B | 2 | 5/16" x 1/4" |
| E3-6A | 5 | 3/8" x 1/8" |
| E3-6B | 2 | 3/8" x 1/4" |
| E3-6C | 2 | 3/8" x 3/8" |
| E3-6D | 2 | 3/8" x 1/2" |
| E3-8C | 2 | 1/2" x 3/8" |
| E3-8D | 2 | 1/2" x 1/2" |
| E3-10D | 2 | 5/8" x 1/2" |
| E3-10E | 2 | 5/8" x 3/4" |

Brass Fittings

Fusible Pipe Plug

- Made in the USA 




FP-C-283



| PART NO. | SIZE | QTY. |
|--------------|------|------|
| 168°F | | |
| FP-A-168 | 1/8" | 5 |
| FP-B-168 | 1/4" | 5 |
| FP-C-168 | 3/8" | 2 |
| 210°F | | |
| FP-A-210 | 1/8" | 5 |
| FP-B-210 | 1/4" | 5 |
| FP-C-210 | 3/8" | 2 |
| 283°F | | |
| FP-A-283 | 1/8" | 5 |
| FP-B-283 | 1/4" | 2 |
| FP-C-283 | 3/8" | 2 |

Flare Cap

- Made in the USA 



N5-4

| PART NO. | QTY. | SIZE |
|----------|------|-------|
| N5-3 | 5 | 3/16" |
| N5-4 | 25 | 1/4" |
| N5-5 | 5 | 5/16" |
| N5-6 | 25 | 3/8" |
| N5-8 | 10 | 1/2" |
| N5-10 | 10 | 5/8" |
| N5-12 | 2 | 3/4" |

Fusible Flare x Pipe Adapter

- Made in the USA 




FU-4C-210



| PART NO. | SIZE | QTY. |
|--------------|-------------|------|
| 168°F | | |
| FU-4B-168 | 1/4" x 1/4" | 2 |
| FU-6C-168 | 3/8" x 3/8" | 2 |
| 210°F | | |
| FU-4B-210 | 1/4" x 1/4" | 2 |
| FU-4C-210 | 1/4" x 3/8" | 2 |
| FU-6C-210 | 3/8" x 3/8" | 2 |
| 283°F | | |
| FU-4B-283 | 1/4" x 1/4" | 2 |
| FU-4C-283 | 1/4" x 3/8" | 2 |
| FU-6C-283 | 3/8" x 3/8" | 2 |

Old Style Extra Heavy Nut


- Made in the USA 



HNS4-12

| PART NO. | QTY. | SIZE |
|----------|------|-------------------|
| HNS4-4 | 25 | 1/4" (3/4" hex) |
| HNS4-6 | 25 | 3/8" (7/8" hex) |
| HNS4-8 | 10 | 1/2" (1" hex) |
| HNS4-10 | 10 | 5/8" (1-1/8" hex) |
| HNS4-12 | 2 | 3/4" (1-3/8" hex) |

Cross

- Made in the USA 



C1-6

| PART NO. | QTY. | SIZE |
|----------|------|------|
| C1-4 | 2 | 1/4" |
| C1-6 | 2 | 3/8" |

Frost-Proof Forged Nut


- Holes relieve frost in thread area
- Made in the USA 



NST4-10

| PART NO. | QTY. | SIZE |
|----------|------|------|
| NST4-4 | 5 | 1/4" |
| NST4-6 | 5 | 3/8" |
| NST4-8 | 10 | 1/2" |
| NST4-10 | 2 | 5/8" |

Long Forged Refrigeration Nut

- Made in the USA 



N4-12

| PART NO. | QTY. | SIZE |
|----------|------|-------|
| N4-4 | 10 | 1/4" |
| N4-5 | 5 | 5/16" |
| N4-6 | 10 | 3/8" |
| N4-8 | 5 | 1/2" |
| N4-10 | 5 | 5/8" |
| N4-12 | 2 | 3/4" |

Flare x Flare x Male Pipe Tee

- Made in the USA 



T1-10D

| PART NO. | QTY. | SIZE |
|----------|------|----------------------|
| T1-4A | 10 | 1/4" x 1/4" x 1/8" |
| T1-4B | 10 | 1/4" x 1/4" x 1/4" |
| T1-4C | 2 | 1/4" x 1/4" x 3/8" |
| T1-5B | 2 | 5/16" x 5/16" x 1/4" |
| T1-6B | 5 | 3/8" x 3/8" x 1/4" |
| T1-6C | 5 | 3/8" x 3/8" x 3/8" |
| T1-6D | 2 | 3/8" x 3/8" x 1/2" |
| T1-8B | 2 | 1/2" x 1/2" x 1/4" |
| T1-8C | 2 | 1/2" x 1/2" x 3/8" |
| T1-8D | 2 | 1/2" x 1/2" x 1/2" |
| T1-10C | 2 | 5/8" x 5/8" x 3/8" |
| T1-10D | 2 | 5/8" x 5/8" x 1/2" |

Flare Tee

- Made in the USA 



T2-12

| PART NO. | QTY. | SIZE |
|----------|------|-------|
| T2-3 | 5 | 3/16" |
| T2-4 | 10 | 1/4" |
| T2-5 | 5 | 5/16" |
| T2-6 | 10 | 3/8" |
| T2-8 | 5 | 1/2" |
| T2-10 | 2 | 5/8" |
| T2-12 | 2 | 3/4" |

Refrigerant Drum Adapter


- NPS cylinder x male flare; with fiber gasket
- Made in the USA 



K1-1

| PART NO. | QTY. | SIZE |
|----------|------|-------------|
| K1-1 | 10 | 3/4" x 1/4" |
| K1-3 | 2 | 3/4" x 3/8" |
| K1-5 | 2 | 3/4" x 1/2" |
| K1-8 | 2 | 1/2" x 1/4" |

Reducing Flare Tee


- Made in the USA 



TR2-446

| PART NO. | QTY. | SIZE |
|----------|------|--------------------|
| TR2-446 | 5 | 1/4" x 1/4" x 3/8" |
| TR2-664 | 5 | 3/8" x 3/8" x 1/4" |
| TR2-668 | 2 | 3/8" x 3/8" x 1/2" |
| TR2-886 | 2 | 1/2" x 1/2" x 3/8" |

Fiber Drum Adapter Seal Gasket

- Made in the USA 



K1-D

| PART NO. | QTY. | SIZE |
|----------|------|------|
| K1-D | 10 | 1/2" |
| K1-E | 10 | 3/4" |

Reducing Nut



NRS4-43

| PART NO. | QTY. | SIZE |
|-----------|------|--------------|
| NRS4-43 | 5 | 1/4" x 3/16" |
| NRS4-54 | 5 | 5/16" x 1/4" |
| NRS4-64 | 10 | 3/8" x 1/4" |
| NRS4-65 | 10 | 3/8" x 5/16" |
| NRS4-86 | 10 | 1/2" x 3/8" |
| NRS4-108 | 5 | 5/8" x 1/2" |
| NRS4-1210 | 2 | 3/4" x 5/8" |

Flare Plug

- Made in the USA 



P2-12

| PART NO. | QTY. | SIZE |
|----------|------|-------|
| P2-3 | 5 | 3/16" |
| P2-4 | 10 | 1/4" |
| P2-5 | 5 | 5/16" |
| P2-6 | 10 | 3/8" |
| P2-8 | 10 | 1/2" |
| P2-10 | 5 | 5/8" |
| P2-12 | 2 | 3/4" |

Brass Fittings

Flare x Male Pipe Adapter

- Made in the USA



U1-12E

| PART NO. | QTY. | SIZE |
|----------|------|--------------|
| U1-3A | 5 | 3/16" x 1/8" |
| U1-3B | 5 | 3/16" x 1/4" |
| U1-4A | 25 | 1/4" x 1/8" |
| U1-4B | 25 | 1/4" x 1/4" |
| U1-4C | 10 | 1/4" x 3/8" |
| U1-4D | 10 | 1/4" x 1/2" |
| U1-5A | 5 | 5/16" x 1/8" |
| U1-5B | 5 | 5/16" x 1/4" |
| U1-5C | 5 | 5/16" x 3/8" |
| U1-6A | 10 | 3/8" x 1/8" |
| U1-6B | 10 | 3/8" x 1/4" |
| U1-6C | 10 | 3/8" x 3/8" |
| U1-6D | 10 | 3/8" x 1/2" |
| U1-6E | 5 | 3/8" x 3/4" |
| U1-8A | 2 | 1/2" x 1/8" |
| U1-8B | 5 | 1/2" x 1/4" |
| U1-8C | 10 | 1/2" x 3/8" |
| U1-8D | 10 | 1/2" x 1/2" |
| U1-8E | 5 | 1/2" x 3/4" |
| U1-10B | 5 | 5/8" x 1/4" |
| U1-10C | 5 | 5/8" x 3/8" |
| U1-10D | 10 | 5/8" x 1/2" |
| U1-10E | 5 | 5/8" x 3/4" |
| U1-12C | 2 | 3/4" x 3/8" |
| U1-12D | 2 | 3/4" x 1/2" |
| U1-12E | 2 | 3/4" x 3/4" |
| U1-14E | 2 | 7/8" x 3/4" |

Flare x Female Pipe Adapter

- Made in the USA



U3-10E

| PART NO. | QTY. | SIZE |
|----------|------|--------------|
| U3-2A | 5 | 1/8" x 1/8" |
| U3-3A | 5 | 3/16" x 1/8" |
| U3-4A | 10 | 1/4" x 1/8" |
| U3-4B | 10 | 1/4" x 1/4" |
| U3-4C | 5 | 1/4" x 3/8" |
| U3-5A | 5 | 5/16" x 1/8" |
| U3-5B | 5 | 5/16" x 1/4" |
| U3-6A | 5 | 3/8" x 1/8" |
| U3-6B | 5 | 3/8" x 1/4" |
| U3-6C | 5 | 3/8" x 3/8" |
| U3-6D | 5 | 3/8" x 1/2" |
| U3-8B | 5 | 1/2" x 1/4" |
| U3-8C | 5 | 1/2" x 3/8" |
| U3-8D | 5 | 1/2" x 1/2" |
| U3-8E | 2 | 1/2" x 3/4" |
| U3-10C | 5 | 5/8" x 3/8" |
| U3-10D | 5 | 5/8" x 1/2" |
| U3-10E | 2 | 5/8" x 3/4" |

Flare x Solder Adapter

- Furnished with copper gasket
- Made in the USA

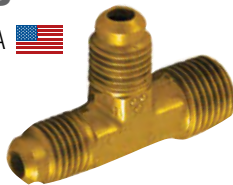


US3-1214

| PART NO. | QTY. | SIZE |
|----------|------|--------------|
| US3-44 | 10 | 1/4" x 1/4" |
| US3-45 | 5 | 1/4" x 5/16" |
| US3-46 | 5 | 1/4" x 3/8" |
| US3-64 | 5 | 3/8" x 1/4" |
| US3-65 | 5 | 3/8" x 5/16" |
| US3-66 | 10 | 3/8" x 3/8" |
| US3-68 | 5 | 3/8" x 1/2" |
| US3-610 | 5 | 3/8" x 5/8" |
| US3-86 | 2 | 1/2" x 3/8" |
| US3-88 | 5 | 1/2" x 1/2" |
| US3-810 | 2 | 1/2" x 5/8" |
| US3-108 | 2 | 5/8" x 1/2" |
| US3-1010 | 5 | 5/8" x 5/8" |
| US3-1012 | 2 | 5/8" x 3/4" |
| US3-1212 | 5 | 3/4" x 3/4" |
| US3-1214 | 2 | 3/4" x 7/8" |

Flare x Male Pipe x Flare Tee

- Made in the USA



T3-4A

| PART NO. | QTY. | SIZE |
|----------|------|----------------------|
| T3-4A | 5 | 1/4" x 1/8" x 1/4" |
| T3-4B | 5 | 1/4" x 1/4" x 1/4" |
| T3-5B | 2 | 5/16" x 1/4" x 5/16" |
| T3-6B | 5 | 3/8" x 1/4" x 3/8" |
| T3-6C | 2 | 3/8" x 3/8" x 3/8" |
| T3-6D | 2 | 3/8" x 1/2" x 3/8" |
| T3-8C | 2 | 1/2" x 3/8" x 1/2" |
| T3-8D | 2 | 1/2" x 1/2" x 1/2" |
| T3-10D | 2 | 5/8" x 1/2" x 5/8" |

Flare x Flare x Female Flare Tee

- Made in the USA



T6-4

| PART NO. | QTY. | SIZE |
|----------|------|------|
| T6-4 | 2 | 1/4" |

Flare Union


- Made in the USA 



U2-3

| PART NO. | QTY. | SIZE |
|----------|------|-------|
| U2-2 | 5 | 1/8" |
| U2-3 | 5 | 3/16" |
| U2-4 | 25 | 1/4" |
| U2-5 | 10 | 5/16" |
| U2-6 | 25 | 3/8" |
| U2-8 | 10 | 1/2" |
| U2-10 | 10 | 5/8" |
| U2-12 | 2 | 3/4" |
| U2-14 | 2 | 7/8" |

Reducing Flare Union


- Made in the USA 



UR2-54

| PART NO. | QTY. | SIZE |
|----------|------|--------------|
| UR2-43 | 5 | 1/4" x 3/16" |
| UR2-54 | 5 | 5/16" x 1/4" |
| UR2-64 | 10 | 3/8" x 1/4" |
| UR2-65 | 5 | 3/8" x 5/16" |
| UR2-84 | 5 | 1/2" x 1/4" |
| UR2-86 | 10 | 1/2" x 3/8" |
| UR2-106 | 5 | 5/8" x 3/8" |
| UR2-108 | 5 | 5/8" x 1/2" |
| UR2-128 | 2 | 3/4" x 1/2" |
| UR2-1210 | 2 | 3/4" x 5/8" |

Female Flare x Flare Adapter

- Made in the USA 



UR3-1210

| PART NO. | QTY. | SIZE |
|----------|------|--------------|
| UR3-43 | 2 | 1/4" x 3/16" |
| UR3-46 | 10 | 1/4" x 3/8" |
| UR3-48 | 5 | 1/4" x 1/2" |
| UR3-64 | 20 | 3/8" x 1/4" |
| UR3-68 | 10 | 3/8" x 1/2" |
| UR3-84 | 10 | 1/2" x 1/4" |
| UR3-86 | 10 | 1/2" x 3/8" |
| UR3-810 | 10 | 1/2" x 5/8" |
| UR3-108 | 5 | 5/8" x 1/2" |
| UR3-1012 | 2 | 5/8" x 3/4" |
| UR3-1210 | 2 | 3/4" x 5/8" |

Female Flare x Female Flare Connector


- Includes two copper gaskets
- Made in the USA 



U4-12

| PART NO. | QTY. | SIZE |
|----------|------|------|
| U4-4 | 10 | 1/4" |
| U4-6 | 10 | 3/8" |
| U4-8 | 2 | 1/2" |
| U4-10 | 2 | 5/8" |
| U4-12 | 2 | 3/4" |

Female SAE Flare x Female Pipe Thread

- Made in the USA 



U6-4B

| PART NO. | QTY. | SIZE |
|----------|------|-------------|
| U6-4A | 2 | 1/4" x 1/8" |
| U6-4B | 2 | 1/4" x 1/4" |

Swivel Female Flare Connector

- Made in the USA 



US4-10

| PART NO. | QTY. | SIZE |
|----------|------|-------|
| US4-4 | 10 | 1/4" |
| US4-5 | 5 | 5/16" |
| US4-6 | 10 | 3/8" |
| US4-8 | 10 | 1/2" |
| US4-10 | 5 | 5/8" |

Brass Fittings

JB INDUSTRIES

PRO TIPS

Brass Pipe Fittings

American-made forged brass pipe fittings manufactured from CA 377 alloy and threaded to Dry Seal Taper Pipe Standards to comply with SAE, ASA, ASME and MS Standards.

Forgings can be used to pressures of 5,000 psi depending on size, material and conditions.

- Vibration-resistant
- Low cost
- Easy assembly

Recommended for use with a compatible thread sealant and tightened 2-1/2 full turns past hand tight; over-tightening and dirt can damage fittings.

| NOMINAL PIPE SIZE THREADS | | | |
|---------------------------|------------|-----------|------------|
| NOM. PIPE | THD. / IN. | NOM. PIPE | THD. / IN. |
| 1/16" | 27 | 2" | 11.5 |
| 1/8" | 27 | 2-1/2" | 8 |
| 1/4" | 18 | 3" | 8 |
| 3/8" | 18 | 3-1/2" | 8 |
| 1/2" | 14 | 4" | 8 |
| 3/4" | 14 | 5" | 8 |
| 1" | 11.5 | 6" | 8 |
| 1-1/4" | 11.5 | 8" | 8 |
| 1-1/2" | 11.5 | — | — |

Extra Long Flare x Male Pipe Adapter

- Made in the USA



UX1-4B

| PART NO. | QTY. | SIZE |
|----------|------|-------------|
| UX1-4A | 2 | 1/4" x 1/8" |
| UX1-4B | 5 | 1/4" x 1/4" |

Long Nipple

- Made in the USA



113-D35

| PART NO. | QTY. | SIZE |
|----------|------|----------------|
| 113-A15 | 5 | 1/8" x 1-1/2" |
| 113-A2 | 5 | 1/8" x 2" |
| 113-A25 | 5 | 1/8" x 2-1/2" |
| 113-A3 | 5 | 1/8" x 3" |
| 113-A35 | 5 | 1/8" x 3-1/2" |
| 113-B15 | 5 | 1/4" x 1-1/2" |
| 113-B2 | 5 | 1/4" x 2" |
| 113-B25 | 5 | 1/4" x 2-1/2" |
| 113-B3 | 5 | 1/4" x 3" |
| 113-B35 | 5 | 1/4" x 3-1/2" |
| 113-C15 | 5 | 3/8" x 1- 1/2" |
| 113-C2 | 5 | 3/8" x 2" |
| 113-C25 | 5 | 3/8" x 2-1/2" |
| 113-C3 | 5 | 3/8" x 3" |
| 113-D15 | 5 | 1/2" x 1-1/2" |
| 113-D2 | 5 | 1/2" x 2" |
| 113-D25 | 5 | 1/2" x 2-1/2" |
| 113-D3 | 2 | 1/2" x 3" |
| 113-D35 | 2 | 1/2" x 3-1/2" |

Extra Long Flare Union

- Made in the USA



UX2-4

| PART NO. | QTY. | SIZE |
|----------|------|------|
| UX2-4 | 5 | 1/4" |

Hex Nipple (U10)

- Made in the USA



122-E

| PART NO. | QTY. | SIZE |
|----------|------|------|
| 122-A | 5 | 1/8" |
| 122-B | 10 | 1/4" |
| 122-C | 5 | 3/8" |
| 122-D | 5 | 1/2" |
| 122-E | 5 | 3/4" |

Close Nipple

- Made in the USA



112-B

| PART NO. | QTY. | SIZE |
|----------|------|------|
| 112-A | 5 | 1/8" |
| 112-B | 10 | 1/4" |
| 112-C | 5 | 3/8" |
| 112-D | 5 | 1/2" |
| 112-E | 5 | 3/4" |

Female SAE Flare x Male Pipe Thread

- Includes copper seal gasket
- Made in the USA



U5-4B

| PART NO. | QTY. | SIZE |
|----------|------|-------------|
| U5-4A | 5 | 1/4" x 1/8" |
| U5-4B | 10 | 1/4" x 1/4" |
| U5-6B | 5 | 3/8" x 1/4" |
| U5-8C | 2 | 1/2" x 3/8" |
| U5-8D | 2 | 1/2" x 1/2" |

EII


- Made in the USA 



100-E

| PART NO. | QTY. | SIZE |
|----------|------|------|
| 100-A | 5 | 1/8" |
| 100-B | 5 | 1/4" |
| 100-C | 5 | 3/8" |
| 100-D | 2 | 1/2" |
| 100-E | 2 | 3/4" |

Street EII

- Made in the USA 



116-D

| PART NO. | QTY. | SIZE |
|----------|------|-------------|
| 116-A | 5 | 1/8" Forged |
| 116-B | 5 | 1/4" Forged |
| 116-C | 5 | 3/8" Forged |
| 116-D | 2 | 1/2" Forged |

One-way Check Valve

NEW

- 1/4" x 1/4" Flare
- Self centering seal design
- O-ring soft seat / metal back-up seal
- Zero leakage
- 1/3 psi cracking pressure
- Maximum pressure 1500 psig
- Temperature -40 to 300°F
- Made in the USA 



| PART NO. | QTY. | SIZE |
|----------|------|-------------------------|
| U2-4CHK | 1 | 1/4" x 1/4" Flare Valve |

Coupling PC


- Made in the USA 



103-E

| PART NO. | QTY. | SIZE |
|----------|------|------|
| 103-A | 5 | 1/8" |
| 103-B | 10 | 1/4" |
| 103-C | 5 | 3/8" |
| 103-D | 5 | 1/2" |
| 103-E | 5 | 3/4" |

Tee


- Made in the USA 



101-E

| PART NO. | QTY. | SIZE |
|----------|------|------|
| 101-A | 5 | 1/8" |
| 101-B | 10 | 1/4" |
| 101-C | 5 | 3/8" |
| 101-D | 2 | 1/2" |
| 101-E | 2 | 3/4" |

Hex Brushing (R1)

- Made in the USA 



110-EA

| PART NO. | QTY. | SIZE |
|----------|------|-------------|
| 110-BA | 10 | 1/4" x 1/8" |
| 110-CA | 5 | 3/8" x 1/8" |
| 110-CB | 10 | 3/8" x 1/4" |
| 110-DA | 5 | 1/2" x 1/8" |
| 110-DB | 10 | 1/2" x 1/4" |
| 110-DC | 10 | 1/2" x 3/8" |
| 110-EA | 2 | 3/4" x 1/8" |
| 110-EB | 5 | 3/4" x 1/4" |
| 110-EC | 5 | 3/4" x 3/8" |
| 110-ED | 5 | 3/4" x 1/2" |
| 110-FD | 2 | 1" x 1/2" |
| 110-FE | 2 | 1" x 3/4" |

Compression Break-Off Sleeve Pilot Nut


- Made in the USA 



81LB-4

| PART NO. | QTY. | SIZE |
|----------|------|------|
| 81LB-4 | 10 | 1/4" |

Hex Head Plug (P3)

- Made in the USA 



121-C

| PART NO. | QTY. | SIZE |
|----------|------|------|
| 121-A | 10 | 1/8" |
| 121-B | 10 | 1/4" |
| 121-C | 5 | 3/8" |
| 121-D | 5 | 1/2" |
| 121-E | 5 | 3/4" |
| 121-F | 2 | 1" |

Ball Valves

Full Flow Refrigeration Ball Valves

Large port design that provides a minimum pressure drop with straight through flow. Copper end fittings reduce installation time without disturbing the valve. Two types of ball valves to suit your needs—traditional refrigerant ball valves with brass actuators and a working pressure rating of 500 psi, and E-Line ball valves featuring stainless steel actuators and a working pressure rating of 700 psi.

Fig 1 – Measurement Chart Key (Fig 1:1 - Fig 1:6 chart below)

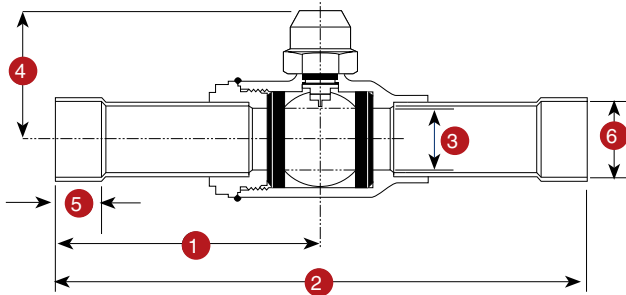
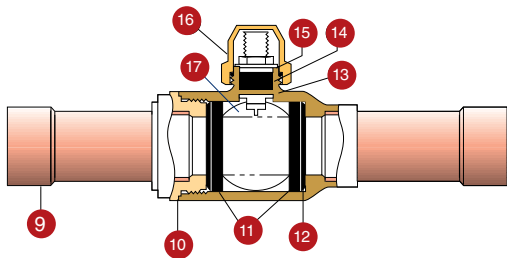


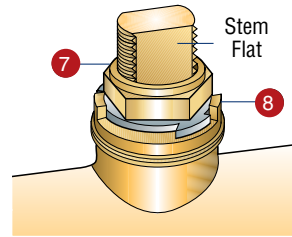
Fig 3 - Anatomy of a Ball Valve (9-17)



- 9 Copper tube extensions
- 10 Hermetic welded and brazed joints
- 11 Reinforced Teflon seats
- 12 One-piece forged brass body
- 13 Bearing washer
- 14 Changeable reinforced PTFE stem packing
- 15 Packing gland
- 16 Stem cap assembly with neoprene seal
- 17 Chromium plated ball with vented valve

Fig 2 – Ball Valve Operation (7-8)

- 7 Quarter-turn mechanical stop. Positive open and closed positions. Packing gland adjusting nut.



E-Line Actuators

- Pressure rated to 700 psi
- Bolted or screwed bonnets or flanges
- UL Listed 32DC



| PART NO. WITHOUT PORT | PART NO. WITH PORT | ID FIG 1: 6 | FIG 1: 1 | FIG 1: 2 | FIG 1: 3 | FIG 1: 4 | FIG 1: 5 |
|-----------------------|--------------------|-------------|----------|----------|----------|----------|----------|
| V34350 | V34525 | 1/4" | 3.25" | 6.5" | 0.50" | 1.51" | 3/8" |
| V34300 | V34500 | 3/8" | 3.18" | 6.09" | 0.30" | 1.55" | 3/8" |
| V34301 | V34501 | 1/2" | 3.18" | 6.09" | 0.45" | 1.55" | 3/8" |
| V34302 | V34502 | 5/8" | 3.43" | 6.59" | 0.50" | 1.55" | 1/2" |
| V34303 | V34503 | 3/4" | 3.45" | 7.27" | 0.69" | 1.89" | 3/4" |
| V34304 | V34504 | 7/8" | 3.69" | 7.07" | 0.75" | 1.83" | 3/4" |
| V34306 | V34506 | 1-1/8" | 4.20" | 8" | 1" | 2.01" | 2-9/32" |
| V34307 | V34507 | 1-3/8" | 4.54" | 8.63" | 1.25" | 2.61" | 3-1/32" |
| V34308 | V34508 | 1-5/8" | 4.47" | 8.85" | 1.50" | 2.79" | 1-3/32" |
| V34309 | V34509 | 2-1/8" | 4.84" | 9.59" | 2" | 3.17" | 1-11/32" |
| V34310 | V34510 | 2-5/8" | 5" | 10" | 2.43" | 3.90" | 1-31/64" |
| V34311 | V34511 | 3-1/8" | 7" | 14" | 2.50" | 3.90" | 1-43/64" |

Shutoff Ball Valves

- Straight through flow design has no restriction
- Quarter-turn and valve is fully open or closed
- Made in the USA 



V34900




V34901

| PART NO. | DESCRIPTION |
|----------|-----------------------------------|
| V34900 | 1/8" Female NPT x 1/8" Female NPT |
| V34901 | 1/4" SAE x 1/8" NPT |
| V34905 | 1/4" SAE x 1/4" NPT |
| V34910 | 3/8" Female NPT x 3/8" Female NPT |



Mini Ball Valves

NEW

- 1/4" for use up to 4000 psi (276 bar) minimum burst; 800 psi (55 bar) maximum working pressure
- 5/16" for R410A applications; 4000 psi (276 bar) minimum burst; 800 psi (55 bar) maximum working pressure
- Made in the USA 

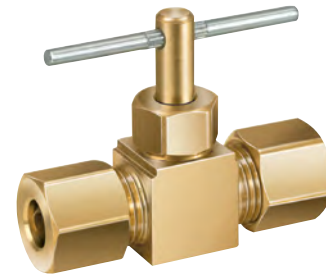


MBV4-01

| PART NO. | DESCRIPTION |
|------------|--|
| MBV4-LH-01 | 1/4" Compact mini ball valve left-hand thread (1 pack)  |
| MBV4-LH-03 | 1/4" Compact mini ball valve set left-hand thread (3 pack)  |
| MBV4-03 | 1/4" Compact mini ball valve set (3 pack) |
| MBV4-01 | 1/4" Compact mini ball valve (1 pack) |
| MBV5-03 | 5/16" QC x 1/4" SAE compact mini ball valve set (3 pack) |
| MBV5-01 | 5/16" QC x 1/4" SAE compact mini ball valve (1 pack) |
| P511 | Replacement Gasket |

Needle Ball Valves

- Resistant to gasoline, oils and water
- Metal-to-metal seating provides ease in shutoff
- Working pressures of 105 psi

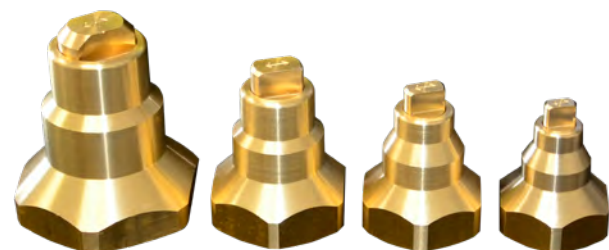


NV62-4

| PART NO. | DESCRIPTION |
|----------|-----------------------|
| NV62-4 | 1/4" COMP x 1/4" COMP |

E-Line Actuator Retrofit Caps

For the replacement of existing caps on installed valves. Secures the cap assembly to valve neck, allowing the center post to easily turn for on/off operation. Utilizes a Teflon® o-ring stem seal and base seal to assure a positive seal offsetting any stem packing leak.



V34-RC33

V34-RC19

V34-RC12

V34-RC4

| PART NO. | DESCRIPTION |
|----------|---|
| V34-RC33 | 2-1/8" - 3-1/8" Ball valve retrofit cap |
| V34-RC19 | 1-3/8" - 1-5/8" Ball valve retrofit cap |
| V34-RC12 | 3/4" - 1-1/8" Ball valve retrofit cap |
| V34-RC4 | 1/4" - 5/8" Ball valve retrofit cap |

JUST BETTER TOOLS

Our JUST BETTER tool lineup is a carefully selected range of durable, high-performance tools and accessories designed to meet the demands of the HVACR trade and complete any technician's toolkit. From everyday essentials to specialized problem-solvers, we source tools that technicians can rely on.

For wholesale distributors, we offer flexible planogram options for showroom displays. Contact our customer service team to learn more.

Mini Tube Cutters

- For use with copper
- Large knurled knob for fatigue-free pressure control



RT70401



RT70015

| PART NO. | QTY. | DESCRIPTION |
|----------|------|-------------------------------------|
| RT70401 | 1 | Copper Mini-Cut Pro 1/8" to 5/8" OD |
| RT70402 | 1 | Copper Mini-Pro 1/4" to 7/8" OD |
| RT70105 | 1 | Copper Mini-Pro 1/8" to 7/8" OD |
| RT70015 | 1 | Copper Mini-Max 1/8" to 1-1/8" OD |
| RT70017B | 2 | Replacement cutter wheel |
| RT70017D | 5 | Replacement cutter wheel |
| RT70041 | 1 | Replacement axle screw/pin |

Professional Tube Cutters

- For use with copper, brass and aluminum
- Retractable deburrer blade and a spare cutter wheel in the handle
- Easy-to-turn knob for quick adjustment



RT70027



RT70029

| PART NO. | QTY. | DESCRIPTION |
|----------|------|---|
| RT70027 | 1 | 1/4" to 1-3/8" OD copper, brass and aluminum pipe |
| RT70029 | 1 | 1/4" to 1-5/8" OD copper, brass and aluminum pipe |
| RT21652 | 1 | Replacement deburring blade |
| RT21652B | 10 | Replacement deburring blades |
| RT70017B | 2 | Replacement cutter wheel |
| RT70017D | 5 | Replacement cutter wheel |
| RT70056D | 5 | Replacement cutter wheel for stainless steel |

Rotrac Plus Tube Cutters

- For use with copper
- Smooth-running telescopic action for consistent working radius
- Protected screw spindle to shield against dirt and jamming
- Includes three spare cutter wheels; storage in handle



RT70020



RT70021

| PART NO. | QTY. | DESCRIPTION |
|----------|------|-------------------------------|
| RT70020 | 1 | Copper tube 1/8" to 1-1/8" OD |
| RT70021 | 1 | Copper tube 1/4" to 1-5/8" OD |
| RT70007B | 2 | Replacement cutter wheel |
| RT70007X | 10 | Replacement cutter wheel |
| RT99016 | 1 | Replacement clip and axle |

Ratchet Tube Cutter

- For use with copper, brass, aluminum, thin-walled steel and plastic coated tubes
- Telescopic guide; automatic spring-driven withdrawal
- Retractable internal deburring tool
- Spare cutter wheel in handle



RT70030

| PART NO. | QTY. | DESCRIPTION |
|----------|------|------------------------------|
| RT70030 | 1 | 1/4" to 2-5/8" OD |
| RT70142 | 1 | 2" to 5" OD |
| RT70017B | 2 | RT70030 Replacement wheel |
| RT70017D | 5 | RT70030 Replacement wheel |
| RT70057D | 2 | RT70142 Replacement wheel |
| RT21652 | 1 | Replacement deburring blade |
| RT21652B | 10 | Replacement deburring blades |
| RT75007 | 1 | Replacement pin/axle |

Pipe Shears

- For use with PVC, PP, PE, PEX, PB, CPVC and PVDF
- Quick-release lever
- Double-sided stainless steel blade with v-shaped edges
- Locking lever

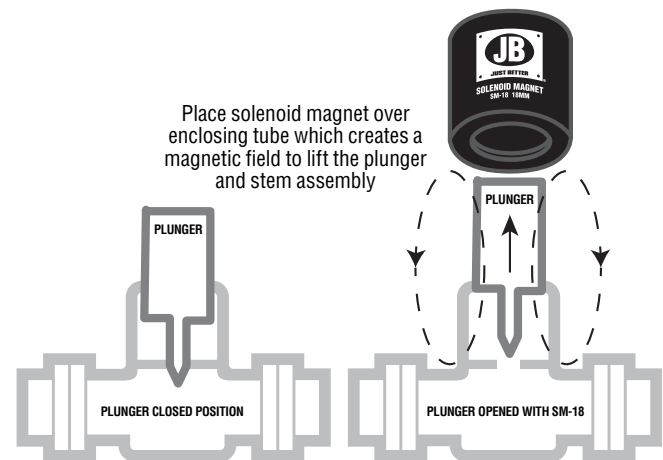


RT52000

| PART NO. | QTY. | DESCRIPTION |
|----------|------|--|
| RT52000 | 1 | Max. OD 1-5/8", Schedule 40 PVC 1-1/4" |
| RT52010 | 1 | Max. OD 2", Schedule 40 PVC 1-1/2" |
| RT52011 | 1 | Replacement blade for RT52010 |
| RT52030 | 1 | ROCUT® 63TC, Max. OD 2-1/2" |
| RT52042 | 1 | Replacement blade for RT52000 |

Solenoid Valve Operating Magnet

- Designed to convert electrically operated solenoid valves into hand-operated valves to enable service engineers to operate valves manually
- Operates by magnetically lifting the stem assembly and plunger to actuate the valve during service
- Use this solenoid service magnet to test, troubleshoot or manually activate and control a direct connected or pilot operated 2-way solenoid, 3-way reclaim or 4-way reversing valve
- Use to hold a solenoid valve open during recovery and evacuation
- Use in place of the powerhead on a hot water oil shutoff valve to eliminate the need to wait for the delay on open
- Use to temporarily replace faulty coil to open solenoid valve
- Use to turn the power on or replace faulty solenoid
- Handy pocket size
- Easy to use and time-saving
- Permanent magnet molded in ABS plastic
- Safe design fits all makes of solenoid valves
- 18mm



| PART NO. | DESCRIPTION |
|----------|----------------------|
| SM-18 | 18mm Solenoid Magnet |

Just Better Tools

Digital Adjustable Torque Wrench

NEW

The Digital Adjustable Torque Wrench captures and displays torque measurements in real-time, ensuring accuracy and ease of use. With nine common preset torque values and advanced features, this tool simplifies demanding tasks and boosts productivity.

3/8" Square Drive: 85 N-m, 62.7 ft-lb, 752 in-lb, 867 kg-cm



| PART NO. | DESCRIPTION |
|-----------|--|
| TRQ-1080D | Digital Torque Wrench Kit with adjustable head and 3/8" square drive |

Torque Wrench Kit

- Torque range of 7.375 - 59.004 lb-ft or 10-80 Nm with a 1/2" DR ratchet head



| PART NO. | DESCRIPTION |
|----------|--|
| TRQ-1080 | Torque wrench kit; six spanner heads: 17, 22, 24, 26, 27, 29mm |

Imperial Spanner Heads

- For use with TRQ1080 torque wrench



| PART NO. | DESCRIPTION |
|----------|--|
| TRQ-IMP | Imperial spanner heads; four spanner heads: 5/8", 13/16", 15/16", 1-1/8" |

Water Pump Pliers

- Ideal for hard to reach places
- Heavy-duty, slip-proof with self-clamping jaws



RT70522

| PART NO. | DESCRIPTION |
|----------|---------------------------|
| RT70521 | 7" Pliers Max. 1" OD |
| RT70522 | 10" Pliers Max. 1-1/4" OD |
| RT70523 | 12" Pliers Max. 1-1/4" OD |

Rolock Pliers

- Professional-grade jaw locking system
- Groove opening positions up to 2-1/3"



RT70532

| PART NO. | DESCRIPTION |
|----------|-------------|
| RT70531 | 7" Rolock |
| RT70532 | 10" Rolock |

Machine Grooved Joint Pliers



RT70534

| PART NO. | SIZE |
|----------|----------------------------------|
| RT70534 | 12" Machine grooved joint pliers |

Slim Profile Adjustable Wrench

- Slim profile; Extra-wide jaw opening
- Designed for TXV/TEV valves, motor mounts, gas lines, pumps and more
- 40% slimmer jaw allows for greater capacity and range of motion in tight spaces
- Extremely strong and durable for years of use
- Comfortable cushion grip handle



| PART NO. | DESCRIPTION |
|----------|----------------------|
| RT70170 | 6" Adjustable wrench |
| RT70171 | 8" Adjustable wrench |

Service Wrenches

- Double-end reversible
- Available in offset, hex and square ends
- Made in the USA



T21127U-HKA

| PART NO. | DESCRIPTION |
|-------------|---|
| T21124U | 3/16", 1/4" square x 1/2", 9/16" hex port |
| T21125U | 3/8" Square end and 1/2" square end |
| T21126U | Offset 1/4", 3/16" x 3/8", 5/16" |
| T21127U | 1/4", 3/16" x 3/8", 5/16" on other end |
| T21127U-HKA | 1/4", 3/16" x 3/8", 5/16" on other end with a Hex Key Adapter |
| T21128U | 1/8" End Sporlan Wrench |

Aluminum Pipe Wrench



RT70160

| PART NO. | DESCRIPTION |
|----------|--------------------------|
| RT70159 | 10" Aluminum pipe wrench |
| RT70160 | 14" Aluminum pipe wrench |
| RT70161 | 18" Aluminum pipe wrench |

Minibend® Tube Bender

- For use with soft copper, brass, aluminum and precision steel
- Precise bending up to 180° 1/4", 5/16" and 3/8" OD



| PART NO. | DESCRIPTION |
|----------|-----------------------|
| RT25151 | Minibend® tube bender |

Hand Tube Bender

- For use with soft copper, aluminum and light grade stainless steel tubing
- Universal tool for bending of 1/2", 5/8", 3/4" and 7/8" OD



| PART NO. | DESCRIPTION |
|----------|------------------|
| RT90614 | Hand tube bender |

Standard Tube Bender Pro

- For use with 1/2" and 3/4" soft copper, aluminum and precision steel
- Precise bending radius up to 180°
- Clamping mechanism



RT25140

| PART NO. | DESCRIPTION |
|----------|--------------------------------|
| RT25140 | 1/4" OD radius (0.71") |
| RT25131 | 5/16" OD radius (0.95") |
| RT25913 | Tube Bender Pro 1/2" OD radius |
| RT25914 | Tube Bender Pro 3/4" OD radius |
| RT25142 | 1/2" OD radius |
| RT25136 | 5/8" OD radius (2.28") |

Spring Tube Benders

- For use with soft copper, aluminum, brass and steel
- Made in the USA 



| SPRING TUBE BENDER SETS | | |
|----------------------------|---|------|
| PART NO. | DESCRIPTION | |
| BS-55 | 1/4", 5/16", 3/8", 1/2", 5/8" in pouch | |
| BS-77 | 1/4", 5/16", 3/8", 7/16", 1/2", 5/8", 3/4", 7/8" in pouch | |
| SINGLE SPRING TUBE BENDERS | | |
| PART NO. | TUBE OD | NOM |
| BS-4 | 1/4" | 1/8" |
| BS-5 | 5/16" | — |
| BS-6 | 3/8" | 1/4" |
| BS-7 | 7/16" | — |
| BS-8 | 1/2" | 3/8" |
| BS-10 | 5/8" | 1/2" |
| BS-12 | 3/4" | 5/8" |
| BS-14 | 7/8" | 3/4" |

Ratcheting Flare Tool



| PART NO. | DESCRIPTION |
|----------|---|
| T20195 | 3/16", 1/4", 5/16", 3/8", 7/16" OD (Nom: 1/8", 1/4", 3/8" and 1/2") |
| T20203 | 5/8", 3/4", 7/8", and 1-1/8" OD |
| T20500 | 3/16", 1/4", 5/16", 3/8", 1/2", 5/8" OD |


Maxi Tube Bender Set

- For use on copper and soft aluminum 3/8", 1/2", 5/8", 3/4" and 7/8" OD
- Smooth-running feed lever ideal in tight spaces
- Single-handed operation
- Quick-release side lever
- Includes tool, bending support, bending formers and case



| PART NO. | DESCRIPTION |
|----------|---|
| RT23022 | Maxi tube bender set for use on copper and soft aluminum 3/8", 1/2", 5/8", 3/4" and 7/8" OD |

45° Flare Tool

- Made in the USA 



| PART NO. | DESCRIPTION |
|----------|---|
| RT26036 | 45° Flare tool; flares 3/16", 1/4", 5/16", 3/8", 1/2", and 5/8" |

Ratcheting Flare Tool



| PART NO. | DESCRIPTION |
|----------|---|
| T30600 | Flares: 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" OD |

Flare Tool



| PART NO. | DESCRIPTION |
|----------|--|
| RT222601 | Flare tool; adjustable from 3/16" to 5/8" OD |

45° Flare Tool



| PART NO. | DESCRIPTION |
|----------|---|
| RT222402 | Flares: 1/8", 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" OD |

45° Flare/Swage

- Heavy-duty, wide range bar type flaring tool
- Centering yoke with hardened chrome plated and swivel-type cone



| PART NO. | DESCRIPTION |
|---------------|---|
| T20275 | Flare: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 3/4" Swage: 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" |

Tube Expander Kit

- High strength, forged aluminum body for lower weight and easy handling
- Automatic retractable pin guide



| PART NO. | DESCRIPTION |
|----------------|---|
| RT12518 | Tube expander kit; riveted expander heads in 3/8", 1/2", 5/8", 3/4", 7/8", 1-1/8", internal/external deburring tool, steel case |

Metal Flare Size Gauge

- Measures all flares to provide superior seal tightness against flare fittings—a must for every toolbox
- Made in the USA



| PART NO. | DESCRIPTION |
|-----------------|---|
| T30600-G | Metal Flare Size Gauge; 1/4", 3/8", 1/2", 5/8", 3/4" SAE (6.4mm, 9.5mm, 12.7mm, 15.9mm, 19.1mm) |

Hex Key Adapter

- For use with 3/16" and 5/16" hex valves
- Made in the USA



| PART NO. | DESCRIPTION |
|---------------|-----------------|
| T2-HKA | Hex key adapter |

Steel Strap

- Zinc plated with alternating 1/8" and 1/4" nail and bolt holes
- Made in the USA



PS-10

| PART NO. | DESCRIPTION |
|---------------|--------------------------|
| PS-10 | 10' (3m) Steel strap |
| PS-25 | 25' (7.6m) Steel strap |
| PS-50 | 50' (15m) Steel strap |
| PS-100 | 100' (30.5m) Steel strap |

Oil Transfer Pump

- Pumps oil into the system without shutting down for charging
- Universal tapered rubber adapter fits all 1, 2.5 and 5-gallon containers
- Works against 200 psi of pressure
- Compatible with all oil types
- Pumps 2.6 ounces (78ml) per stroke



| PART NO. | DESCRIPTION |
|---------------|-------------------|
| T30251 | Oil transfer pump |

Just Better Tools

Swaging Kit

- For use with copper, brass, aluminum and steel tubes
- Includes flaring tool, 45° cone, expander pin, internal/external deburrer, tube cutter and plastic case



| PART NO. | DESCRIPTION |
|----------|---|
| RT26715 | Swaging kit; 3/16", 1/4", 5/16", 3/8", 1/2", 5/8" |


Single Size Swage Tools

- Made in the USA 



| PART NO. | TUBE OD | NOM |
|----------|---|---|
| T21002 | 1/8" | — |
| T21003 | 3/16" | — |
| T21004 | 1/4" | 1/8" |
| T21005 | 5/16" | — |
| T21006 | 3/8" | 1/4" |
| T21007 | 7/16" | — |
| T21008 | 1/2" | 3/8" |
| T21010 | 5/8" | 1/2" |
| T21012 | 3/4" | 5/8" |
| T21014 | 7/8" | 3/4" |
| T21018 | 1-1/8" | 1" |
| T21024 | Packaged set: 1/4", 3/8", 1/2" and 5/8" | Packaged set: 1/8", 1/4", 3/8" and 1/2" |


Multi-Swage

- Made in the USA 



| PART NO. | DESCRIPTION |
|----------|---|
| T21000 | Multi-swage Tool Set; 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8", 3/4", 7/8" OD. 1/8", 1/4", 3/8", 1/2", 5/8", 3/4" Nominal |


Multi-Swage

- Made in the USA 



| PART NO. | DESCRIPTION |
|----------|---|
| T20095 | Multi-swage Tool; 1/4", 5/16", 3/8", 7/16", 1/2", 5/8" OD |


Hex Key Sets

- Made in the USA 



| PART NO. | DESCRIPTION |
|----------|---|
| T30605 | Metric (2-8mm) and Imperial (5/64" - 1/4") hex key sets |

Braze-Rite Adapter

- For use with copper tube
- Stepped nitrogen purging adapter for HVACR pipe
- Made in the USA 



| PART NO. | DESCRIPTION |
|----------------|--|
| BRZ1000 | Braze-Rite Adapter; ACR copper tube size: 1-1/8", 7/8", 3/4", 5/8", 1/2", 3/8" |

Pinch-Off Tool

- Temporarily closes off line during repairs
- Quick-release trigger and rounded jaws



| PART NO. | DESCRIPTION |
|---------------|--|
| T21294 | Pinch-off tool; For 1/8" to 5/8" OD (1/8" to 1/2" Nominal) |

O-ring/Gasket Removal Tool



| PART NO. | DESCRIPTION |
|------------------|--|
| A10974 | O-ring/Gasket Removal Tool |
| A10974-BX | O-ring/Gasket Removal Tool Display Box of 12 |

Deburring Tools

- For copper and plastic tube



RT11006



RT70075



RT21655



RT21660

| PART NO. | QTY. | DESCRIPTION |
|-----------------|------|---|
| RT11006 | 1 | Copper and stainless steel internal/external reamer 1/8" to 1-3/8" OD |
| RT70075 | 1 | Copper and stainless steel internal/external reamer 1/8" to 2" OD |
| RT21660 | 1 | Deburring tool (blade non-replaceable) |
| RT21655 | 1 | Deburring tool |
| RT21652 | 1 | Replacement deburring blade |
| RT21652B | 10 | Replacement deburring blades |

Fin Straighteners



T20351



T20352




T20353

| PART NO. | DESCRIPTION |
|---------------|--|
| T20351 | For 8, 9, 10, 12, 14 and 15 spacings per inch |
| T20352 | Stainless steel fin straightener |
| T20353 | Stainless steel fin straightener with large, easy-to-grip handle |

Capillary Tubing

Capillary Tubing


- Cut from 100' (30.5m) tube
- Boxed with conversion and application charts
- Available in cartons of 10; add suffix -101 to part number
- Made in the USA 



TC-26-16

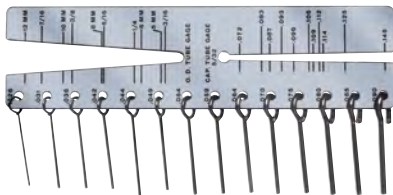
| SHORT COIL | 100' COILS | DESCRIPTION |
|------------|------------|---------------------------|
| TC-26-16 | TC-26-100 | 0.026 ID x 0.072 OD x 16' |
| TC-31-12 | TC-31-100 | 0.031 ID x 0.083 OD x 12' |
| TC-36-12 | TC-36-100 | 0.036 ID x 0.087 OD x 12' |
| TC-42-12 | TC-42-100 | 0.042 ID x 0.093 OD x 12' |
| TC-44-12 | TC-44-100 | 0.044 ID x 0.109 OD x 12' |
| TC-49-11 | TC-49-100 | 0.049 ID x 0.099 OD x 11' |
| TC-50-11 | TC-50-100 | 0.050 ID x 0.114 OD x 11' |
| TC-54-11 | TC-54-100 | 0.054 ID x 0.106 OD x 11' |
| TC-55-11 | TC-55-100 | 0.055 ID x 0.125 OD x 11' |
| TC-59-10 | TC-59-100 | 0.059 ID x 0.112 OD x 10' |
| TC-64-10 | TC-64-100 | 0.064 ID x 0.125 OD x 10' |
| TC-70-12 | TC-70-100 | 0.070 ID x 0.125 OD x 12' |
| TC-75-9 | TC-75-100 | 0.075 ID x 0.125 OD x 9' |
| TC-80-10 | TC-80-100 | 0.080 ID x 0.145 OD x 10' |
| TC-85-9 | TC-85-100 | 0.085 ID x 0.145 OD x 9' |
| TC-90-7 | TC-90-100 | 0.090 ID x 0.145 OD x 7' |
| TC-100-10 | TC-100-100 | 0.100 ID x 0.156 OD x 10' |

Cap Tube Gauge and File

- Specially designed file to cut and open tubes
- ID sizes 0.026 to 0.090 units and OD sizes 0.072" to 7/16" (5 to 12mm)
- Made in the USA 



A10972



A10971

| PART NO. | DESCRIPTION |
|----------|----------------------------------|
| A10971 | Cap tube gauge and file in pouch |
| A10972 | Cap tube file |

Cap Tube Cutting Tool

- Sturdy cap tube cutter—no collapsing of the tube, no chips and clean cuts



| PART NO. | DESCRIPTION |
|----------|-----------------------|
| A10973 | Cap tube cutting tool |

Acid Brushes

- Ideal for thread sealant, flux and paste solders



| PART NO. | DESCRIPTION |
|------------|----------------------------|
| C33804 | 1/4" Flux brush (12 pack) |
| C33808 | 1/2" Flux brush (10 pack) |
| C33808-CTN | 1/2" Flux brush (144 bulk) |

Capillary Tubing Length Conversion Chart

It is recommended that conversions be made using factors within the unshaded area.

1. Locate recommended Cap Tube ID in left hand column
2. Read across and find conversion factor under Cap Tube ID Size
3. Multiply the given length of the recommended cap tube by the conversion factor
4. The resulting length (min. 5ft/max.16ft) of copper cap tube will give the same flow characteristics as the original recommended cap tube

Example:

Recommended cap tube: 9'-.040 ID

Locate .040 in left hand column. Read across the recommended conversion:

Part No. TC-36 = .62, Part No. TC-42 = 1.25

Multiply the recommended cap tube length of 9' by the conversion factor:

Part No. TC-36 = 9' x .62 = 5.58"


Part No. TC-42 = 9' x 1.25 = 11.25"

Either of these cap tubes will give the same results as the original cap tube

| CAP TUBE ID | PART NO. | | | | | | | | | | | | | | | | |
|-------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|
| | TC-26 (.026) | TC-31 (.031) | TC-36 (.036) | TC-42 (.042) | TC-44 (.044) | TC-49 (.049) | TC-50 (.050) | TC-54 (.054) | TC-55 (.055) | TC-59 (.059) | TC-64 (.064) | TC-70 (.070) | TC-75 (.075) | TC-80 (.080) | TC-85 (.085) | TC-90 (.090) | TC-100 (.100) |
| .024 | 1.44 | | | | | | | | | | | | | | | | |
| .025 | 1.20 | | | | | | | | | | | | | | | | |
| .026 | 1.00 | 2.24 | | | | | | | | | | | | | | | |
| .028 | .72 | 1.59 | | | | | | | | | | | | | | | |
| .030 | .52 | 1.16 | | | | | | | | | | | | | | | |
| .031 | .45 | 1.00 | 2.00 | | | | | | | | | | | | | | |
| .032 | | .86 | 1.75 | | | | | | | | | | | | | | |
| .033 | | .75 | 1.54 | | | | | | | | | | | | | | |
| .034 | | .65 | 1.35 | | | | | | | | | | | | | | |
| .035 | | .58 | 1.16 | 2.31 | | | | | | | | | | | | | |
| .036 | | .50 | 1.00 | 2.10 | | | | | | | | | | | | | |
| .037 | | .45 | .90 | 1.79 | 2.22 | | | | | | | | | | | | |
| .038 | | .39 | .80 | 1.59 | 1.92 | | | | | | | | | | | | |
| .039 | | .35 | .71 | 1.41 | 1.75 | | | | | | | | | | | | |
| .040 | | .31 | .62 | 1.25 | 1.55 | 2.51 | | | | | | | | | | | |
| .041 | | .28 | .56 | 1.12 | 1.38 | 2.26 | 2.50 | | | | | | | | | | |
| .042 | | .25 | .50 | 1.00 | 1.24 | 2.03 | 2.23 | | | | | | | | | | |
| .043 | | .23 | .45 | .87 | 1.11 | 1.83 | 1.98 | | | | | | | | | | |
| .044 | | .20 | .39 | .81 | 1.00 | 1.62 | 1.79 | | | | | | | | | | |
| .045 | | | .35 | .73 | .90 | 1.47 | 1.60 | 2.32 | | | | | | | | | |
| .046 | | | .32 | .67 | .82 | 1.34 | 1.47 | 2.08 | 2.27 | | | | | | | | |
| .047 | | | | .59 | .74 | 1.20 | 1.31 | 1.89 | 2.06 | | | | | | | | |
| .048 | | | | .54 | .67 | 1.10 | 1.20 | 1.72 | 1.87 | | | | | | | | |
| .049 | | | | .49 | .61 | 1.00 | 1.09 | 1.55 | 1.69 | | | | | | | | |
| .050 | | | | .45 | .56 | .91 | 1.00 | 1.43 | 1.56 | 2.14 | | | | | | | |
| .051 | | | | .41 | .51 | .84 | .93 | 1.31 | 1.44 | 1.96 | | | | | | | |
| .052 | | | | | .47 | .76 | .85 | 1.19 | 1.32 | 1.78 | | | | | | | |
| .053 | | | | | .43 | .69 | .78 | 1.09 | 1.20 | 1.64 | | | | | | | |
| .054 | | | | | .39 | .65 | .70 | 1.00 | 1.09 | 1.52 | 2.18 | | | | | | |
| .055 | | | | | .36 | .59 | .64 | .92 | 1.00 | 1.38 | 2.00 | | | | | | |
| .056 | | | | | | .54 | .60 | .85 | .94 | 1.27 | 1.85 | | | | | | |
| .057 | | | | | | .50 | .55 | .79 | .87 | 1.17 | 1.72 | | | | | | |
| .058 | | | | | | .46 | .51 | .73 | .80 | 1.07 | 1.56 | | | | | | |
| .059 | | | | | | .42 | .47 | .67 | .73 | 1.00 | 1.44 | 2.18 | | | | | |
| .060 | | | | | | .39 | .43 | .62 | .67 | .93 | 1.33 | 2.04 | | | | | |
| .064 | | | | | | | .32 | .47 | .50 | .69 | 1.00 | 1.50 | 2.07 | | | | |
| .070 | | | | | | | | .30 | .33 | .46 | .67 | 1.00 | 1.37 | 1.84 | | | |
| .075 | | | | | | | | | | | .48 | .73 | 1.00 | 1.37 | 1.75 | | |
| .080 | | | | | | | | | | | | .54 | .74 | 1.00 | 1.32 | 1.71 | |
| .085 | | | | | | | | | | | | | .57 | .76 | 1.00 | 1.29 | |
| .090 | | | | | | | | | | | | | .43 | .62 | .76 | 1.00 | 1.62 |
| .095 | | | | | | | | | | | | | | .46 | .60 | .79 | 1.27 |
| .100 | | | | | | | | | | | | | | | .48 | .62 | 1.00 |
| .105 | | | | | | | | | | | | | | | | .49 | .80 |
| .110 | | | | | | | | | | | | | | | | | .65 |
| .115 | | | | | | | | | | | | | | | | | .53 |
| .120 | | | | | | | | | | | | | | | | | .43 |

Automotive

R134a Automotive Couplers

- Quick connect/disconnect valve actuation without refrigerant venting
- Safety sleeve holds coupler securely to service port
- Color-coded knobs
- Made in the USA 



AC-15530



AC-15535

| PART NO. | DESCRIPTION |
|----------|---------------------------------------|
| AC-13430 | High side 90° snap coupler x 14 mm |
| AC-13435 | Low side 90° snap coupler x 14 mm |
| AC-15530 | High side 90° snap coupler x 1/4" SAE |
| AC-15535 | Low side 90° snap coupler x 1/4" SAE |

R134a Automotive Quick Adapters

NEW

- Retrofit existing SAE flare fitting for R134a auto service
- Made in the USA 




QC-1234-LH (A2L)




QC-13445-134a

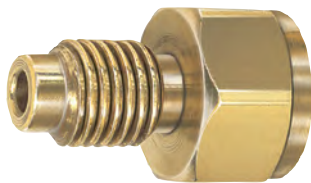


QC-S4A-134a

| PART NO. | QC GASKET | DESCRIPTION |
|---------------|-----------|--|
| QC-1234-LH | P510 | 1/2" Acme left-handed x 1/4" Male Flare for automotive and R1234yf  |
| QC-S4A-134A | P509 | 1/4" QC x 1/2" male ACME thread |
| QC-13445-134A | P510 | 1/2" ACME QC x 1/4" male flare |

1/2" ACME Thread Half Union

- Made in the USA 



AF-13457

| PART NO. | DESCRIPTION |
|----------|-----------------|
| AF-13450 | 1/8" NPTF |
| AF-13451 | 1/4" NPTF |
| AF-13452 | 3/8" NPTF |
| AF-13455 | 1/4" Female SAE |
| AF-13457 | 3/8" Female SAE |

Automotive Oil Tap Tube

- Reduces motor burnout by simplifying acid tests
- Can be left in place for future tests and oil changes
- Made in the USA 



| PART NO. | DESCRIPTION |
|----------|-------------------------|
| A33600 | Automotive oil tap tube |

1/2" ACME Service Valve

- 1/2" ACME x 1/8" NPTF with cap
- Made in the USA 



| PART NO. | DESCRIPTION |
|----------|-------------------------|
| AF-13550 | 1/2" Acme service valve |


Cool Gel™ Heat Barrier Spray

- Prevents heat damage during soldering, brazing and welding
- Safe, non-toxic and odorless
- Made in the USA 



| PART NO. | QTY. | DESCRIPTION |
|----------|------|---------------------------|
| 11509 | 12 | Cool Gel™ 1 quart bottles |

Pipetite-Stik®

- For use with water, steam, air, natural gas and LP gas
- Non-toxic and lead-free
- Sealing temperature to 350°F (177°C)
- Pressures to 2,000 psi (136 bar) for liquids and 350 psi (24 bar) for gases
- Made in the USA 



| PART NO. | QTY. | DESCRIPTION |
|----------|------|------------------------------|
| 11175 | 12 | Pipetite-Stik® 1.25oz sticks |
| 19571 | 12 | Epoxy-Stik® 4oz sticks |


Bloc-It® Heat Absorbing Paste

- Protects against damage caused by heat from soldering brazing and welding
- Made in the USA 



| PART NO. | QTY. | DESCRIPTION |
|----------|------|---------------------|
| 11511 | 12 | Bloc-It® 10oz tubes |


Slic-Tite® Paste with PTFE

- Seals water, air, steam, natural gas, LP gas, refrigerants, ammonia, gasoline and oil
- For use with metal, PVC, CPVC and ABS plastic threads
- Sealing temperature -50°F to 500° F (-46°C to 260°C)
- Pressures 3,000 psi (204 bar) for gas, 10,000 psi (680 bar) for liquid.
- Made in the USA 



| PART NO. | QTY. | DESCRIPTION |
|----------|------|------------------------|
| 42019 | 12 | Slic-Tite® 8oz bottles |


Heat-Seal Stik® Premixed Epoxy Sealer

- For use on aluminum, copper, metals, glass and ceramics
- Works on R410A based systems
- Cures in 90 seconds
- Sealing temperature to 350° F (177°C); pressures to 450 psi (31 bar)
- Made in the USA 



| PART NO. | QTY. | DESCRIPTION |
|----------|------|------------------------------|
| 11575 | 12 | Heat-Seal Stik® 3/8oz sticks |

Valve Action™ Paint Marker

- Lead-free, weather, water, UV-resistant paint marker dries in three minutes
- For use on metal, wood, glass, plastic, rubber, cardboard and paper
- Marking range -50°F to 150°F (-46°C to 66°C)
- Made in the USA 



| PART NO. | QTY. | DESCRIPTION |
|----------|------|----------------------------------|
| 96820 | 12 | White Valve Action™ paint marker |
| 96822 | 12 | Red Valve Action™ paint marker |
| 96823 | 12 | Black Valve Action™ paint marker |

Warranty



LIMITED WARRANTY

All JB Industries, Inc. tools are covered by a warranty against defects in materials and workmanship for a period of 1-year from the date of purchase. The following categories of products are also covered for 1-year unless otherwise specified:

- CLIMATE CLASS:**
 WC-1, WC-2, WH-1, WH-2, WM-2. WM-2, WP-1, WP-2, DM4-ZW, DM4-RW, and DV-22W 1 year
- Leak Detectors:**
 LD-6000IR, LD-5000, LD-3000, LDC-4000 2 years
- ATLAS® Scales:**
 DS-250, DS-20000 2 years
 DS-5000 1 year
- CO2 Manifold:** 3 years
- Recovery:**
 F6-DP 3 years OTC
 F6-BOOST 1 year OTC
- Vacuum Pumps:**
 PLATINUM® PRO 2 years OTC
 PLATINUM® FORCE 2 years OTC
 PLATINUM® FLEX 1 year OTC
 ELIMINATOR® CLASSIC 2 years OTC
 Rebuilt Vacuum Pumps 6 months
 Out of Warranty Vacuum Pump Repairs 90 days

JB tools are guaranteed when used according to our guidelines and recommendations. Warranty coverage includes repair, replacement, or credit at the invoice price (at our discretion) for tools deemed defective due to materials or workmanship. Warranty coverage strictly excludes charges for labor, additional expenses, and any consequential damages. Repairs on items outside of warranty are invoiced at nominal rates; please contact your wholesaler for details. Additional tool warranty information is available at www.jbind.com.

NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. Technical information, recommendations and advice as to properties and usages of materials, design, installation and use of tools, engineering and other matters are provided as an accommodation and are intended only as suggestions. Although they are believed to be accurate, based on JB's knowledge and experience, JB assumes no obligation or liability for any results obtained in their use or application and they are not to be construed as establishing any warranty, expressed or implied. In no event shall JB be liable for claims for any damages whatsoever (whether direct, foreseeable, consequential or special) suffered by buyer or anyone else arising out of any breach by JB. JB makes no warranty to those defined as consumers in the Magnuson-Moss Warranty-Federal Trade Commission Improvement Act.

Disclaimers: All tool items pictured, described or otherwise displayed herein are subject to change, alteration and/or modification at any time by JB Industries, Inc. The terms and conditions for the purchase of JB Industries, Inc. tools are subject to change, alteration and/or modification at any time by JB Industries, Inc. and will be made

available upon request to JB Industries Inc. and shall be provided to customers of JB Industries, Inc. at time of purchase.

Over-the-Counter (OTC) Warranty: Applies ONLY to newly purchased F6™ Refrigerant Recovery Machines (3 year OTC), PLATINUM® Vacuum Pumps (2 year OTC), ELIMINATOR® Vacuum Pumps (2 year OTC) and PLATINUM® FLEX Vacuum Pumps (1 year OTC).

The OTC Warranty covers manufacturing defects in materials and workmanship, as determined by JB. Warranty claims will not be honored for product abuse, misuse (e.g., broken parts, inadequate maintenance, failure to keep vacuum pump oil clean), abnormal use, or normal wear and tear.

All OTC warranty claims must include the contractor's invoice with model number, serial number, and proof of purchase/invoice. Products replaced under warranty should be returned by the wholesaler to JB. Upon receipt and verification, JB will issue appropriate credit to the designated wholesaler.

Please note, JB vacuum pumps are not designed for use with ammonia or lithium bromide (salt water) systems. Use on such systems will VOID the warranty.

Lifetime Manifold Bar Warranty: Manifold bar only has a lifetime warranty, while the components, i.e. gauges, hoses, handles, hose holders, etc. are covered under the limited warranty policy.

For Professional Use Only: JB manifolds and tools are designed exclusively for use by technically trained HVACR service professionals. Given the high pressures in these systems and the physical and chemical hazards of refrigerants and oils present in all systems, improper use or misapplication could result in serious injury or death.

VACUUM PUMPS: 1 AND 2 YEAR OTC WARRANTIES

All warranty statements apply to the PLATINUM® (2-year OTC), PLATINUM® FLEX (1-Year OTC) and ELIMINATOR® (2-year OTC) pumps.

JB Industries vacuum pumps are warranted to be free of defects in materials and workmanship for period indicated from the date of purchase. This warranty applies to all repairable instruments that have not been tampered with or damaged through improper use including unauthorized opening of the unit.

Pumps received within warranty period are assessed upon arrival at the JB Industries facility to determine warranty coverage. Wholesaler will be notified of warranty coverage determination. Over-the-counter warranty applies only to manufacturing defects and is VOID if determination has been deemed tool misuse.

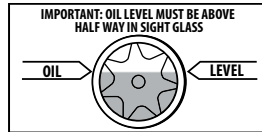
To eliminate unnecessary returns and/or costly repairs, verify oil has been changed and proper pump operation guidelines have been followed prior to requesting a Return Goods Authorization (RGA) number.

Warranty void if purchased from a third party and not purchased from authorized JB Industries Wholesaler.

NOT CHANGING OIL WILL VOID WARRANTY

CHECK FOR SIGNS OF MISUSE

- A. Housing area
- B. Broken base
- C. Trap
- D. Damage to fins or drain valve
- E. Sight glass
- F. Damage or dents to pump body
- G. Broken or bent handle
- H. Damaged or missing intake valve



REASONS FOR VOID OF WARRANTY

- Improper usage of pump and pump oil
- Oil has not been changed
- Corrosive substances and/or contaminants found in pump
- Pump has been damaged, altered or components have been removed or are missing

PACKING VACUUM PUMP FOR RETURN

To ensure that no additional charges are incurred due to improper packaging:

1. Drain **all** oil from pump and close off valves.
2. Place pump in a sealed plastic bag.
3. Package pump in a cushioned bottom carton with packing paper. Be sure to secure and protect pump in carton on all sides. Do not use packing peanuts.
4. Include RGA number issued by JB Industries and supporting paperwork with detailed description of issue in a sealed, separate plastic bag.
5. If an estimate is required, be sure to specify in documentation and include contact information (name/address/phone/email).

F6-DP: 3 YEAR OTC WARRANTY

JB Industries warrants the F6-DP Refrigerant Recovery Machine to be free from defects of materials or workmanship for three years from the date of purchase. JB Industries does not warrant any machine that has been subjected to misuse, negligence or accident, or has been repaired or altered by anyone other than JB Industries.

The compressor is warrantied for a period of three years by the manufacturer. To keep this warranty in force, a filter (included) must be used on the inlet port or hose at all times to prevent particulates from entering the compressor. Failure to use the included filter will void the compressor warranty.

JB Industries liability is limited to repairing or replacing, at its option, a defective machine or part. If a defect arises, a valid claim must be received by JB Industries, with transportation prepaid, no later than thirty (30) days after the warranty period expires. JB Industries will determine whether the machine has malfunctioned due to defective materials or workmanship.

RETURN FOR REPAIR

JB provides reliable, superior quality tools—However, in the event your instrument requires repair, your wholesaler is required to contact JB Customer Service Department to obtain a Return Goods Authorization (RGA) number.

Ensure that all returned tools are packed to avoid damage in shipment. Warranty claims for items damaged in transit will not be honored. Refrain from applying stickers or strong tape on tool face as item may be returned with no manufacturer defects. Paperwork should be placed in a separate plastic bag and should include JB's assigned RGA number, a description of the problem, copy of invoice and any customer assigned repair or purchase order number, if applicable. Please provide contact information (name/address/phone/email) of whom to inform of package receipt as well as the person authorized to accept repair charges should the warranty be void. Tool returns for repair will not be accepted without an RGA number from JB Industries.

Contact Customer Service for RGA number:

800.323.0811 Toll-free 630.851.9444 Tel
800.552.5593 Toll-free Fax 630.851.9448 Fax

Tools should be shipped with freight prepaid to:

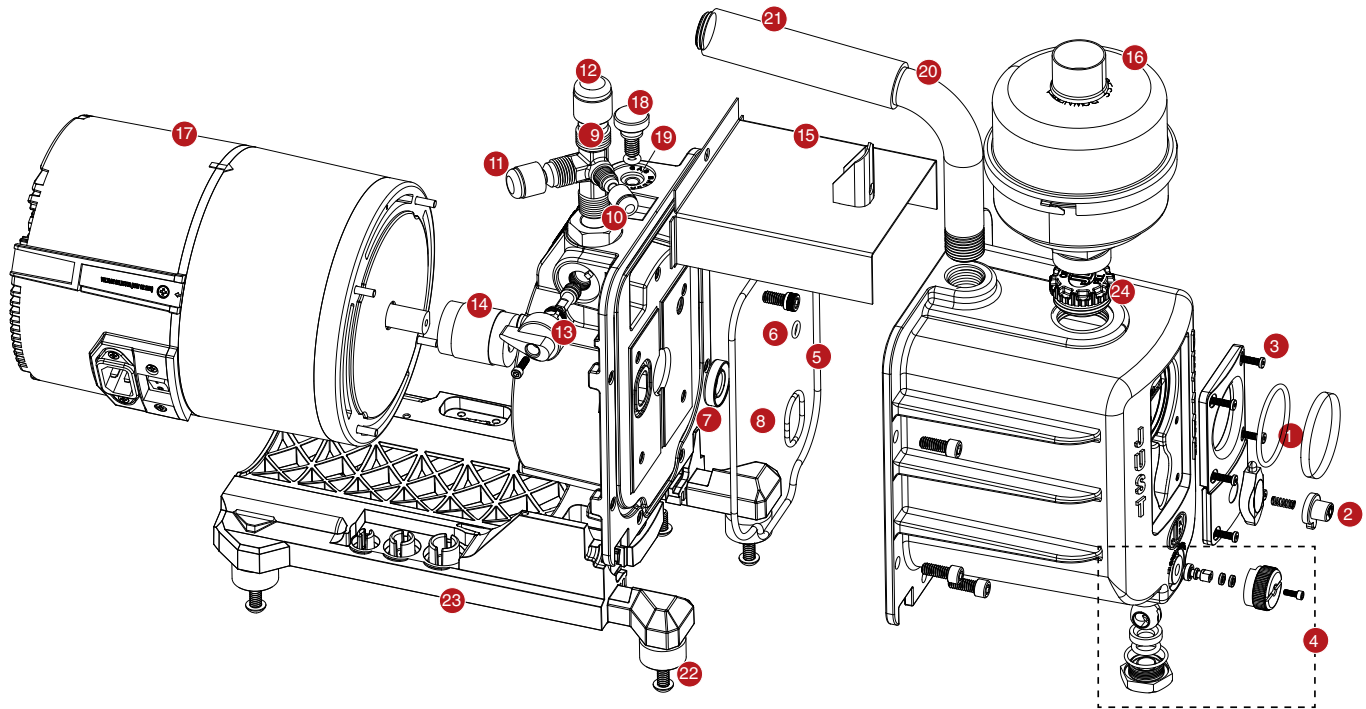
JB Industries
RGA# _____
601 N. Farnsworth Ave.
Aurora, IL 60505 USA

Repair

PLATINUM[®] PRO Vacuum Pump Repair DV-240DC, DV-285DC, and DV-340N (2026)

Repair parts can be ordered from your local JB wholesaler. When ordering please provide the following information:

- Model number
- Serial number
- Part number and description



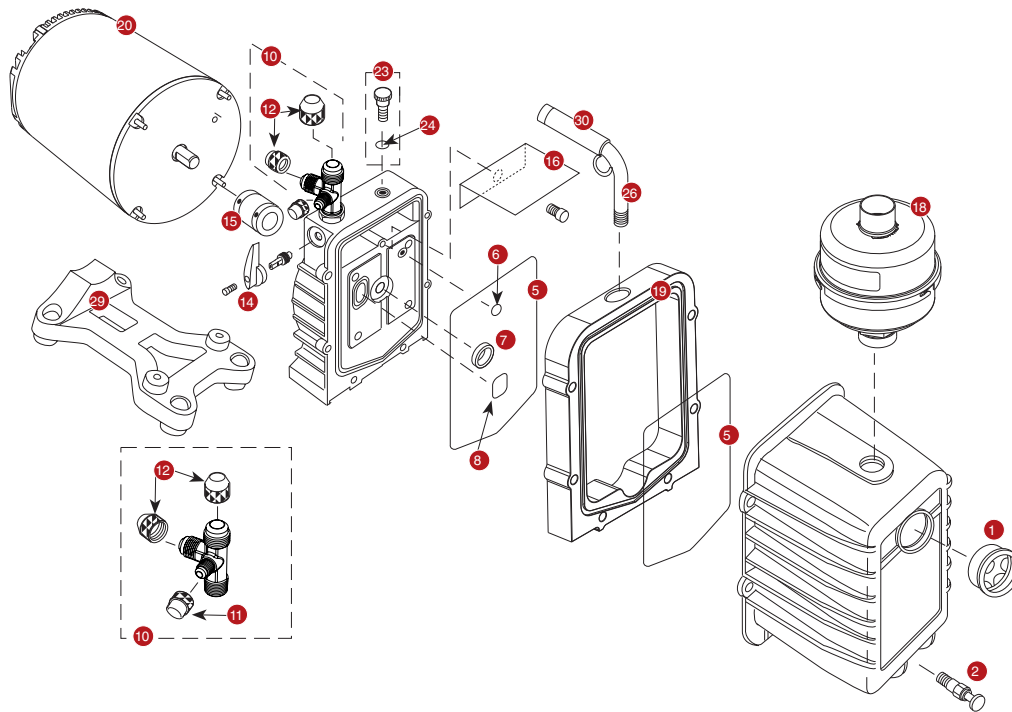
| PLATINUM [®] PRO REPAIR PARTS | | |
|--|----------|-----------------------------|
| REF.NO. | PART NO. | DESCRIPTION |
| 1 | PR-801 | Sight glass with o-ring |
| 2 | PR-805 | Light and button |
| 3 | PR-806 | Light cover screw |
| 4 | PR-807 | Oil drain repair kit |
| 5 | PR-811 | Cover seal |
| 6 | PR-211 | Trap o-ring, gas ballast |
| 7 | PR-3 | Shaft seal |
| 8 | PR-315 | Trap o-ring, intake |
| 9 | PR-66 | Angled intake tee with caps |
| 10 | NFT5-4 | 1/4" O-ring, cap |
| 11 | NFT5-6 | 3/8" O-ring, cap |
| 12 | NFT5-8 | 1/2" O-ring, cap |

| PLATINUM [®] PRO REPAIR PARTS | | |
|--|----------|---|
| REF.NO. | PART NO. | DESCRIPTION |
| 13 | PR-209 | Plastic isolation valve handle and screw w/stem, o-rings and retainer |
| 14 | PR-208 | Flexible coupler |
| 15 | PR-840 | Splash guard with piercing valve |
| 16 | PR-307 | Oil mist filter |
| 17 | PR-607 | Motor (DV-240DC AND DV-285DC) 1/2 HP |
| 20 | PR-608 | Motor (DV-340N) 1 HP |
| 18 | PR-7 | Gas ballast valve w/o-ring |
| 19 | P90009 | O-ring, gas ballast valve |
| 20 | PR-75 | Cushioned handle w/lift ring 1/2" NPT |
| 21 | PR-501 | Cushion and cap 1/2" NPT for DV-240DC |
| 22 | PR-4 | Rubber feet assembly |
| 23 | PR-862 | Pump base with feet |
| 24 | PR-822 | Oil fill cap for DV-240DC |
| NOT SHOWN | DV-EP8 | 1/2" Red tethered safety exhaust cap for DV-240DC |
| NOT SHOWN | PR-49 | Replacement Cord |

PLATINUM® BEAST Vacuum Pump Repair DV-340N (Pre-2026)

Repair parts can be ordered from your local JB wholesaler. When ordering please provide the following information:

- Model number
- Serial number
- Part number and description



| PLATINUM® BEAST REPAIR PARTS | | |
|------------------------------|----------|---|
| REF.NO. | PART NO. | DESCRIPTION |
| 1 | PR-1 | Sight glass |
| 2 | PR-2 | Drain valve |
| 6 | PR-211 | Trap o-ring, gas ballast |
| 7 | PR-3 | Shaft seal |
| 8 | PR-315 | Trap o-ring, intake |
| 10 | PR-66 | Angled intake tee with caps |
| 11 | NFT5-4 | 1/4" O-ring, cap |
| 12 | NFT5-6 | 3/8" O-ring, cap |
| | NFT5-8 | 1/2" O-ring, cap |
| 14 | PR-209 | Plastic isolation valve handle and screw w/stem, o-rings and retainer |
| 15 | PR-208 | Flexible coupler* 1-1/2" (Start of 1995) 2-1/2" (Prior to 12/1994)* |
| | PR-308 | Flexible section only 7/8"; use w/PR-208 flexible coupler* |
| 16 | PR-41 | Splash Guard |
| 17 | PR-59 | Base |
| 18 | PR-307 | Oil Mist Filter |
| 19 | PR-306 | Spacer with handle and cushion |
| 20 | PR-608 | Motor |
| 23 | PR-7 | Gas ballast valve w/o-ring |
| 24 | P90009 | O-ring, gas ballast valve |

| PLATINUM® BEAST REPAIR PARTS | | |
|------------------------------|----------|--|
| REF.NO. | PART NO. | DESCRIPTION |
| 26 | PR-75 | Cushioned handle w/lift ring 1/2" NPT |
| 27 | PR-22 | Oil fill plug w/o-ring |
| 28 | PR-56 | Adapter nut w/nut o-ring |
| 30 | PR-501 | Cushion and cap 1/2" NPT |
| 5 | PR-311 | Cover seal |
| 29 | PR-62 | Pump base (includes feet); fits all pumps with serial #0101 and higher |
| NOT SHOWN | PR-45 | Pump repair kit PR-1, PR-59 (4), PR-2, PR-208 |
| NOT SHOWN | PR-110 | Replacement Cord |

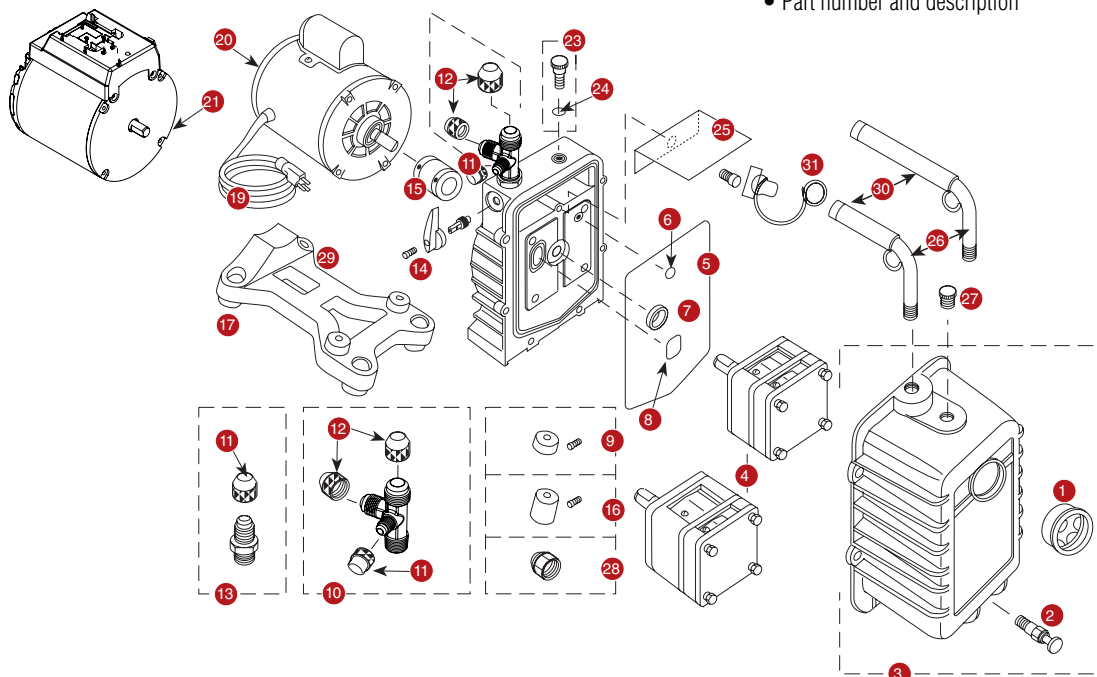
* Coat with thread sealant when replacing.

Repair

PLATINUM® Vacuum Pump Repair DV-42N through DV-285N Series and DV6EDC (2026)

Repair parts can be ordered from your local JB wholesaler. When ordering, please provide the following information:

- Model number
- Serial number
- Part number and description



| PLATINUM® SERIES REPAIR PARTS – ALL MODELS | | |
|--|----------|---|
| REF.NO. | PART NO. | DESCRIPTION |
| 1 | PR-1 | Sight glass |
| 2 | PR-2 | Drain valve |
| 6 | PR-211 | Trap o-ring, gas ballast |
| 7 | PR-3 | Shaft seal |
| 8 | PR-315 | Trap o-ring, intake |
| 9 | PR-4 | Rubber foot and screw assembly – 1 per package (Prior to 2006) |
| 10 | PR-66 | Angled intake tee with caps |
| 11 | NFT5-4 | 1/4" O-ring, cap |
| 12 | NFT5-6 | 3/8" O-ring, cap |
| | NFT5-8 | 1/2" O-ring, cap |
| 14 | PR-209 | Plastic isolation valve handle and screw w/stem, o-rings and retainer |
| 15 | PR-208 | Flexible coupler* 1-1/2"(Start of 1995) 2-1/2" (Prior to 12/1994)* |
| | PR-308 | Flexible section only 7/8"; use w/PR-208 flexible coupler* |
| | PR-6 | Flexible coupler* 2-1/4" |
| | PR-77 | 1-5/8" Middle section; use w/PR-6 flexible coupler* |
| 16 | PR-42 | Motor foot w/screw (prior to 2006) |
| 17 | PR-59 | Base foot |
| 19 | PR-31 | Line cord (Marathon motor) old style |
| 20 | PR-54 | Rocker switch w/wire leads (Emerson) models since 2004 |
| | PR-610 | FLEX motor |
| | PR-206 | 1/2 Hp, 115v, 60 Hz Motor w/line cord and switch |
| | PR-207 | 1/2 Hp, 115/230v, 50/60 Hz Dual Voltage Motor (not shown) |
| 23 | PR-7 | Gas ballast valve w/o-ring |
| 24 | P90009 | O-ring, gas ballast valve |
| 25 | PR-40 | Splash guard and screw (excludes 3 CFM manufactured before 1/01) |

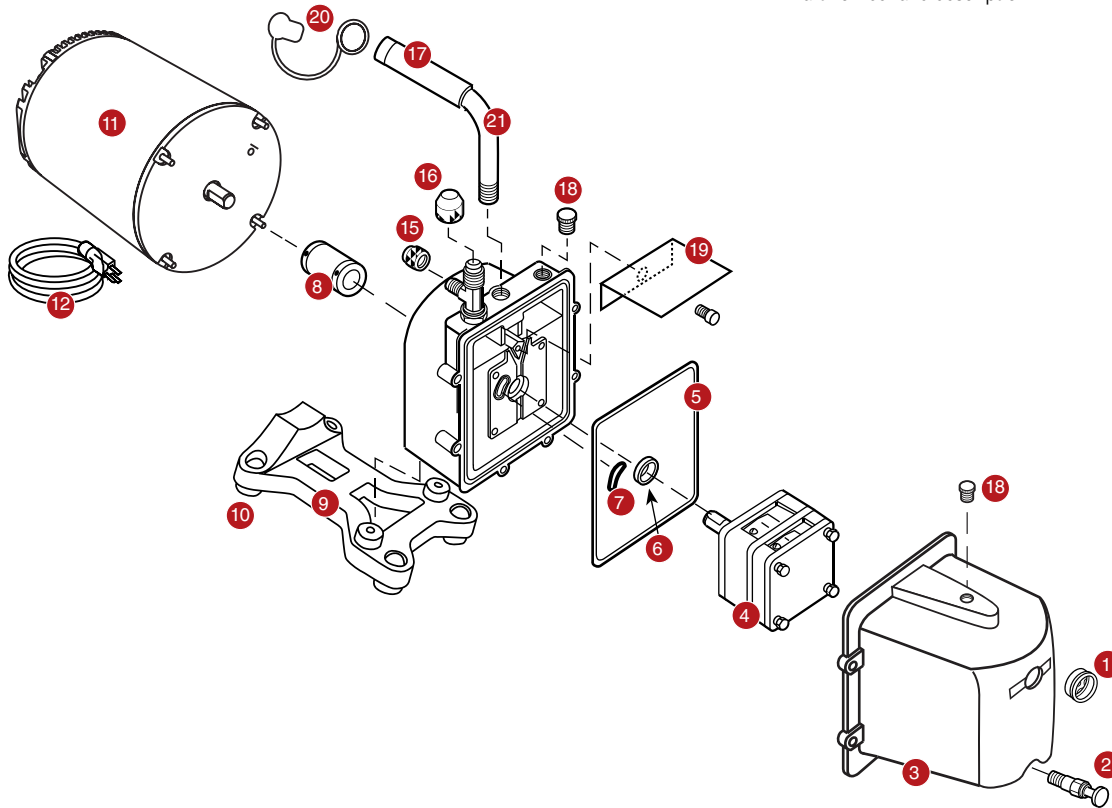
| 26 | PR-75 | Cushioned handle w/lift ring 1/2" NPT and DV-EP-8 as of 2008 |
|--|----------|--|
| | PR-205 | Cushioned handle 3/8" NPT |
| | PR-605 | Cushioned handle w/lift ring FLEX |
| 27 | PR-22 | Oil fill plug w/o-ring |
| 28 | PR-56 | Adapter nut w/nut o-ring |
| 30 | PR-500 | Cushion and cap 3/8" NPT |
| | PR-501 | Cushion and cap 1/2" NPT |
| | PR-601 | Cushion and cap FLEX |
| 31 | DV-EP6 | Tethered safety cap 3/8" NPT (prior to 2008) |
| | DV-EP8 | Tethered safety cap 1/2" NPT |
| PLATINUM® SERIES REPAIR PARTS – MANUFACTURED AFTER JANUARY 2001 | | |
| REF.NO. | PART NO. | DESCRIPTION |
| 3 | PR-300 | DV-42N through DV-200N cover assembly w/sight glass and drain valve |
| | PR-301 | DV-285N Cover assembly w/sight glass and drain valve |
| 4 | PR-302 | DV-42N and DV-85N Cartridge w/o-rings and cover seal |
| | PR-303 | DV-142N Cartridge w/o-rings and cover seal |
| | PR-304 | DV-200N Cartridge w/o-rings and cover seal |
| | PR-314 | DV-285N Cartridge w/o-rings and cover seal |
| 5 | PR-311 | Cover seal |
| 13 | PR-32 | 1/4" Intake w/cap |
| 29 | PR-62 | Pump base (includes feet); fits all pumps with serial #0101 and higher |
| PLATINUM® SERIES REPAIR PARTS – MANUFACTURED BEFORE JANUARY 2001 | | |
| 5 | PR-217 | Cover seal |
| 8 | PR-215 | Trap o-ring, intake |
| NOT SHOWN | PR-18 | Cartridge valve repair kit (includes DV-285N as of 2007 models) |
| NOT SHOWN | PR-52 | DV-285N Cartridge valve repair kit (prior to 2007 models) |
| NOT SHOWN | PR-45 | Pump repair kit PR-1, PR-59 (4), PR-42, PR-208 |

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* Coat with thread sealant when replacing.

ELIMINATOR® DC Vacuum Pump Repair DV-6EDC (Pre-2026)

Repair parts can be ordered from your local JB wholesaler. When ordering please provide the following information:

- Model number
- Serial number
- Part number and description



| ELIMINATOR 6EDC REPAIR PARTS | | |
|------------------------------|----------|--|
| REF.NO. | PART NO. | DESCRIPTION |
| 1 | PR-1 | Sight glass |
| 2 | PR-2 | Oil drain valve |
| 3 | PR-10 | DV-3E, DV-4E and DV-6E cover assembly w/sight glass, drain valve and oil fill plug |
| 4 | PR-406 | DV-6E Cartridge complete w/o-rings and cover seal |
| 5 | PR-217 | Cover seal |
| 6 | PR-3 | Shaft seal |
| 7 | PR-315 | Trap intake o-ring |
| 8 | PR-208 | 2-1/2" Flexible coupler* |
| 9 | PR-62 | Pump base w/rubber feet and screws (4) |
| 10 | PR-59 | Rubber pump foot (1) |

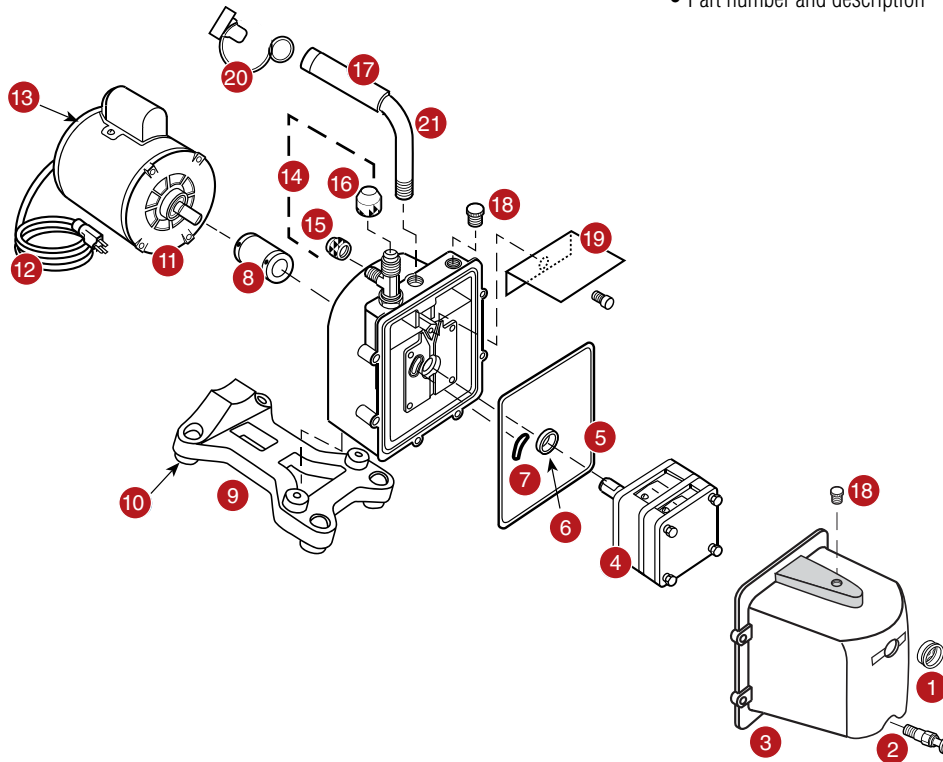
| ELIMINATOR 6EDC REPAIR PARTS | | |
|------------------------------|----------|--------------------------------------|
| REF.NO. | PART NO. | DESCRIPTION |
| 11 | PR-607 | DC Motor |
| 12 | PR-49 | IEC 10 ft. locking cord |
| 14 | PR-63 | Intake tee w/cap |
| 15 | NFT5-4 | 1/4" O-ring cap |
| 16 | NFT5-6 | 3/8" O-ring cap |
| 17 | PR-501 | 1/2" Rubber grip and cap |
| 18 | PR-22 | Oil fill plug w/o-ring |
| 19 | PR-40 | Stainless steel splash guard w/screw |
| 20 | DV-EP8 | 1/2" Red tethered safety exhaust cap |
| 21 | PR-205 | 3/8" Cushioned handle |
| | PR-65 | 1/2" Cushioned handle |

Repair

ELIMINATOR[®] Vacuum Pump Repair DV-3E, DV-4E and DV-6E Series

Repair parts can be ordered from your local JB wholesaler. When ordering, please provide the following information:

- Model number
- Serial number
- Part number and description



Current chrome cover will fit older black
ELIMINATOR models

| ELIMINATOR SERIES REPAIR PARTS | | |
|--------------------------------|----------|--|
| REF.NO. | PART NO. | DESCRIPTION |
| 1 | PR-1 | Sight glass |
| 2 | PR-2 | Oil drain valve |
| 3 | PR-10 | DV-3E, DV-4E and DV-6E cover assembly w/sight glass, drain valve and oil fill plug |
| 4 | PR-403 | DV-3E Cartridge complete w/o-rings and cover seal |
| | PR-404 | DV-4E Cartridge complete w/o-rings and cover seal |
| | PR-406 | DV-6E Cartridge complete w/o-rings and cover seal |
| 5 | PR-217 | Cover seal |
| 6 | PR-3 | Shaft seal |
| 7 | PR-315 | Trap intake o-ring |
| 8 | PR-208 | Flexible coupler* 1-1/2"(Start of 1995) 2-1/2" (Prior to 12/1994)* |
| | PR-308 | 7/8" Middle section; used w/PR-208 2-1/2" Flexible coupler* |
| | PR-6 | Flexible coupler* 2-1/4" |
| | PR-77 | 1-5/8" Middle section; used w/PR-6 flexible coupler* |
| 9 | PR-62 | Pump base w/rubber feet and screws (4) |
| 10 | PR-59 | Rubber pump foot (1) |
| Not Shown | PR-18 | Cartridge valve repair kit |

| ELIMINATOR SERIES REPAIR PARTS | | |
|--------------------------------|----------|---|
| REF.NO. | PART NO. | DESCRIPTION |
| 11 | PR-206 | 1/2 HP, 115v/60Hz motor w/line cord and switch |
| | PR-207 | 1/2 HP, 115/230v, 50/60Hz dual voltage motor w/line cord and switch (not shown) |
| 12 | PR-31 | 6' Line cord (Emerson [®] motor) |
| 13 | PR-54 | Rocker-switch 115v Emerson Motor (wire leads) |
| 14 | PR-63 | Intake tee w/cap |
| 15 | NFT5-4 | 1/4" O-ring cap |
| 16 | NFT5-6 | 3/8" O-ring cap |
| 17 | PR-500 | 3/8" Rubber grip and cap |
| | PR-501 | 1/2" Rubber grip and cap |
| 18 | PR-22 | Oil fill plug w/o-ring |
| 19 | PR-40 | Stainless steel splash guard w/screw |
| 20 | DV-EP6 | 3/8" Red tethered safety exhaust cap |
| | DV-EP8 | 1/2" Red tethered safety exhaust cap |
| 21 | PR-205 | 3/8" Cushioned handle |
| | PR-65 | 1/2" Cushioned handle |

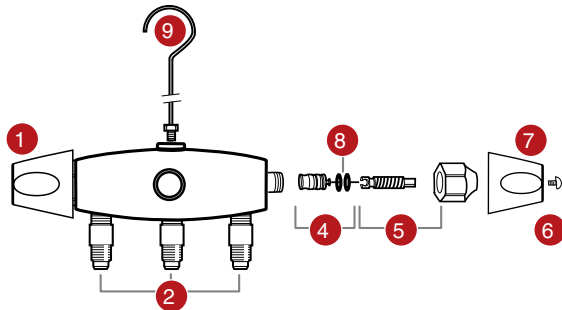
Emerson[®] is a registered trademark of US Motors. Marathon[®] is a registered trademark of Marathon Electric.
* Coat with thread sealant when replacing.

Manifold Rebuild Kits

- Rebuild kits are available for all manifold series
- Standard rebuild kits include a stem, nut, piston with seat and o-rings
- Premium rebuild kits feature two standard kits plus two handwheels and screws
- Caution: gauges and hoses not specified for R410A can damage tools and cause injury

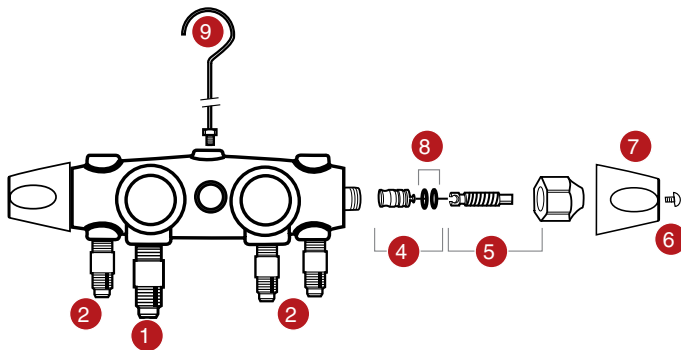
| MANIFOLD REBUILD KITS | |
|-----------------------|--|
| PART NO. | DESCRIPTION |
| M2R-S | Standard M2 rebuild (also fits M5 through M9 series) |
| M2R-P | Premium M2 rebuild (fits M2 series only) |
| M4R-S | Standard M4 rebuild |
| M4R-P | Premium M4 rebuild |
| 2VZR-S | Standard ZEPPELIN 2-valve rebuild (fits both aluminum and brass) |
| 2VZR-P | Premium ZEPPELIN 2-valve rebuild (fits both aluminum and brass) |
| 4VZR-S | Standard ZEPPELIN 4-valve rebuild |
| 4VZR-P | Premium ZEPPELIN 4-valve rebuild |
| M2-106 | 1/8" FPT Gauge mounting brackets |
| M2-108 | 1/4" FPT Gauge mounting brackets |

ZEPPELIN® 2-Valve Aluminum Series



| ZEPPELIN 2-VALVE ALUMINUM | | |
|---------------------------|----------------|---------------------------|
| REF.NO. | PART NO. | DESCRIPTION |
| 1 | MR-601 | Handwheel and screw |
| 2 | U1-4A | 1/4" Intake |
| 4 | MR-505 | Piston w/seat and o-rings |
| 5 | MR-516 | Stem and nut |
| 6 | MR-601 | Handwheel and screw |
| 7 | MR-503 | Handwheel screws (two) |
| 8 | MR-509 | O-rings (two) |
| 9 | M2-102N | Hanging hook |

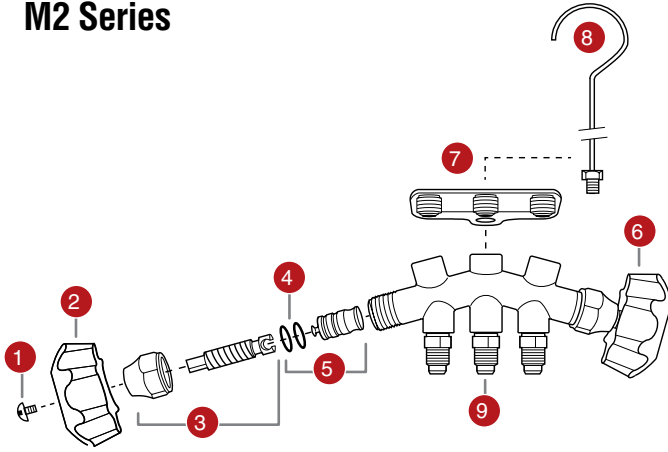
ZEPPELIN® 4-Valve Aluminum Series



| ZEPPELIN 4-VALVE ALUMINUM | | |
|---------------------------|----------------|---------------------------|
| REF.NO. | PART NO. | DESCRIPTION |
| 1 | U1-6B | 3/8" Intake |
| 2 | U1-4A | 1/4" Intake |
| 4 | MR-605 | Piston w/seat and o-rings |
| 5 | MR-607 | Stem and nut |
| 6 | MR-601 | Handwheel and screw |
| 7 | MR-503 | Handwheel screws (2) |
| 8 | MR-409 | O-rings (2) |
| 9 | M2-102N | Hanging hook |

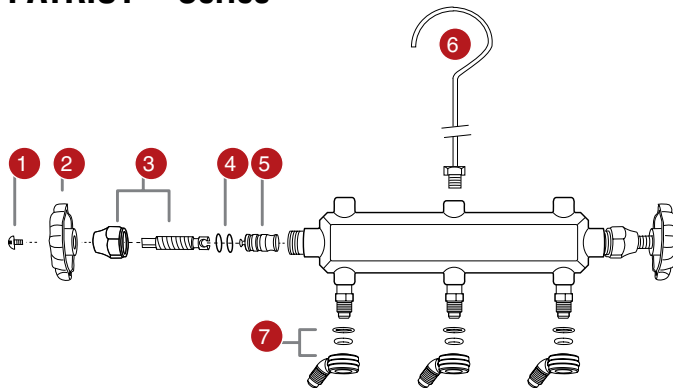
Repair

M2 Series



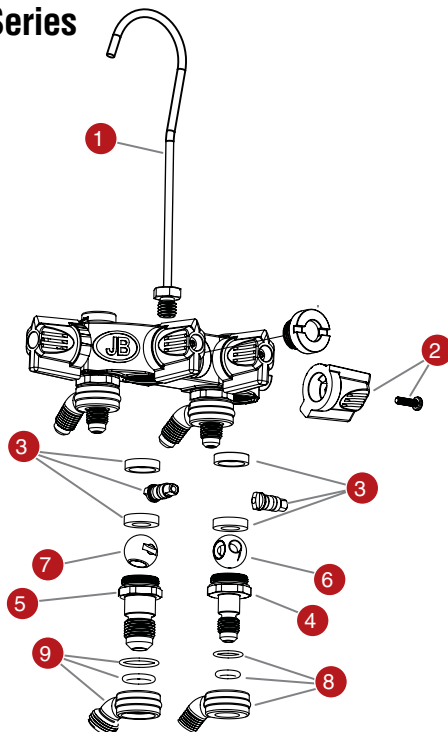
| M2 SERIES MANIFOLDS | | |
|---------------------|----------|---|
| REF. NO. | PART NO. | DESCRIPTION |
| 1 | MR-503 | Handwheel screw (2) |
| 2 | MR-501B | Blue handwheel and screw |
| 3 | MR-516 | Stem and nut |
| 4 | MR-509 | O-ring (2) |
| 5 | MR-505 | Piston w/seat and o-rings |
| 6 | MR-501R | Red handwheel |
| 7 | M2-300 | Hose holder 1/4" |
| 8 | M2-102N | Hanging hook |
| 9 | U1-4A | Intake |
| NOT SHOWN | MR-4LHA | Left-handed Thread Hose holder 1/4" for A2L |

PATRIOT™ Series



| PATRIOT SERIES MANIFOLDS | | |
|--------------------------|----------|---|
| REF. NO. | PART NO. | DESCRIPTION |
| 1 | MR-503 | Handwheel screw (2) |
| 2 | MR-508 | Metal handwheel and screw |
| 3 | MR-516 | Stem and nut |
| 4 | MR-509 | O-ring (2) |
| 5 | MR-505 | Piston w/seat and o-rings |
| 6 | M2-102N | Hanging hook |
| 7 | MR-504 | 1/4" Hose holder sleeve and o-rings |
| NOT SHOWN | MR-4LHA | Left-handed Thread Hose holder 1/4" for A2L |

REVOLVER® Series



| REVOLVER 4-VALVE BALL SERIES MANIFOLD | | |
|---------------------------------------|----------|---|
| REF. NO. | PART NO. | DESCRIPTION |
| 1 | M2-102N | Hanging hook |
| 2 | MR-502 | Handle and screw |
| 3 | MR-BVK | Ball valve kit including: seals (2), stem (1), o-rings (2) and washer (1) |
| 4 | MR-444 | 1/4" Retainer fitting |
| 5 | MR-446 | 3/8" Retainer fitting |
| 6 | MR-611 | Throttle ball |
| 7 | MR-610 | Ball |
| 8 | MR-504 | 1/4" Hose holder sleeve and o-rings |
| 9 | MR-506 | 3/8" Hose holder sleeve and o-rings |
| NOT SHOWN | MR-4LHA | Left-handed Thread Hose holder 1/4" for A2L |



| | | | | | | | | | | | |
|--------------|----|-----------------|-------|-------------|----|-------------|----|-------------|----|----------------|----------|
| 100-A..... | 67 | 13493..... | 57 | 24615..... | 30 | 26140..... | 29 | 28280..... | 33 | 2VZR-S..... | 89 |
| 100-B..... | 67 | 13494..... | 57 | 24625..... | 30 | 26144..... | 29 | 28282..... | 33 | 30744..... | 33 |
| 100-C..... | 67 | 19571..... | 81 | 24633..... | 30 | 26200..... | 29 | 28284..... | 33 | 33112N..... | 43 |
| 100-D..... | 67 | 22125..... | 28 | 25000..... | 31 | 26208..... | 29 | 28286..... | 33 | 33112RK..... | 43 |
| 100-E..... | 67 | 22133..... | 28 | 25008..... | 31 | 26225..... | 29 | 28288..... | 33 | 33113N..... | 43 |
| 101-A..... | 67 | 22225..... | 28 | 25025..... | 31 | 26225L..... | 29 | 28292..... | 33 | 33115N..... | 43 |
| 101-B..... | 67 | 22225CM..... | 28 | 25033..... | 31 | 26233..... | 29 | 28296..... | 33 | 33115RK..... | 43 |
| 101-C..... | 67 | 22433..... | 28 | 25040..... | 31 | 26233L..... | 29 | 28297..... | 33 | 33116N..... | 43 |
| 101-D..... | 67 | 22225L..... | 28 | 25044..... | 31 | 26240..... | 29 | 28299..... | 33 | 42019..... | 81 |
| 101-E..... | 67 | 22233..... | 28 | 25050..... | 31 | 26244..... | 29 | 28502..... | 33 | 4VZR-P..... | 89 |
| 103-A..... | 67 | 22233CM..... | 28 | 25058..... | 31 | 26246..... | 29 | 28505..... | 33 | 4VZR-S..... | 89 |
| 103-B..... | 67 | 22233L..... | 28 | 25065..... | 31 | 26443..... | 29 | 28570..... | 33 | 81LB-4..... | 67 |
| 103-C..... | 67 | 22246..... | 28 | 25069..... | 31 | 26453..... | 29 | 28572..... | 33 | 96820..... | 81 |
| 103-D..... | 67 | 22246CM..... | 28 | 25100..... | 31 | 26625..... | 29 | 28574..... | 33 | 96822..... | 81 |
| 103-E..... | 67 | 22433..... | 28 | 25108..... | 31 | 26633..... | 29 | 28576..... | 33 | 96823..... | 81 |
| 110-BA..... | 67 | 22443..... | 28 | 25125..... | 31 | 27752..... | 33 | 28580..... | 33 | A10971..... | 78 |
| 110-CA..... | 67 | 22445..... | 28 | 25133..... | 31 | 27754..... | 33 | 28582..... | 33 | A10972..... | 78 |
| 110-CB..... | 67 | 22453..... | 28 | 25140..... | 31 | 27759..... | 33 | 28584..... | 33 | A10973..... | 78 |
| 110-DA..... | 67 | 22455..... | 28 | 25144..... | 31 | 27770..... | 33 | 28586..... | 33 | A10974..... | 43,59,77 |
| 110-DB..... | 67 | 22500..... | 28 | 25150..... | 31 | 27772..... | 33 | 28588..... | 33 | A10974-BX..... | 59,77 |
| 110-DC..... | 67 | 22505..... | 28 | 25158..... | 31 | 27774..... | 33 | 28592..... | 33 | A31002..... | 52 |
| 110-EA..... | 67 | 22525..... | 28 | 25165..... | 31 | 27776..... | 33 | 28596..... | 33 | A31003..... | 52 |
| 110-EB..... | 67 | 22531..... | 28 | 25169..... | 31 | 27780..... | 33 | 28597..... | 33 | A31004..... | 52 |
| 110-EC..... | 67 | 22605..... | 28,44 | 25200..... | 31 | 27782..... | 33 | 28599..... | 33 | A31004-CJ..... | 53 |
| 110-ED..... | 67 | 22625..... | 28,44 | 25208..... | 31 | 27784..... | 33 | 28732..... | 33 | A31004S..... | 52 |
| 110-FD..... | 67 | 22633..... | 28 | 25225..... | 31 | 27786..... | 33 | 28735..... | 33 | A31005..... | 52 |
| 110-FE..... | 67 | 22545..... | 28 | 25225L..... | 31 | 27788..... | 33 | 28752..... | 33 | A31006..... | 52 |
| 11175..... | 81 | 22646..... | 28 | 25233..... | 31 | 27852..... | 33 | 28754..... | 33 | A31008..... | 52 |
| 112-A..... | 66 | 22725..... | 28 | 25233L..... | 31 | 27854..... | 33 | 28759..... | 33 | A31009..... | 52 |
| 112-B..... | 66 | 22733..... | 28 | 25240..... | 31 | 27859..... | 33 | 28770..... | 33 | A31011..... | 52 |
| 112-C..... | 66 | 22733RF-18..... | 28,37 | 25246..... | 31 | 27870..... | 33 | 28772..... | 33 | A31012..... | 52 |
| 112-D..... | 66 | 22833..... | 28 | 25248..... | 31 | 27872..... | 33 | 28774..... | 33 | A31134..... | 53 |
| 112-E..... | 66 | 22933..... | 28 | 25250..... | 31 | 27874..... | 33 | 28776..... | 33 | A31135..... | 53 |
| 113-A15..... | 66 | 24000..... | 30 | 25258..... | 31 | 27880..... | 33 | 28780..... | 33 | A31136..... | 53 |
| 113-A2..... | 66 | 24008..... | 30 | 25265..... | 31 | 27882..... | 33 | 28782..... | 33 | A31138..... | 53 |
| 113-A25..... | 66 | 24025..... | 30 | 25269..... | 31 | 27884..... | 33 | 28784..... | 33 | A31140..... | 53 |
| 113-A3..... | 66 | 24033..... | 30 | 25325..... | 31 | 27886..... | 33 | 28786..... | 33 | A31142..... | 53 |
| 113-A35..... | 66 | 24040..... | 30 | 25425..... | 31 | 27888..... | 33 | 28788..... | 33 | A31144..... | 53 |
| 113-B15..... | 66 | 24044..... | 30 | 25443..... | 31 | 27952..... | 33 | 28832..... | 33 | A31148..... | 53 |
| 113-B2..... | 66 | 24050..... | 30 | 25445..... | 31 | 27954..... | 33 | 28835..... | 33 | A31154..... | 53 |
| 113-B25..... | 66 | 24058..... | 30 | 25453..... | 31 | 27959..... | 33 | 28852..... | 33 | A31155..... | 53 |
| 113-B3..... | 66 | 24065..... | 30 | 25455..... | 31 | 27970..... | 33 | 28854..... | 33 | A31156..... | 53 |
| 113-B35..... | 66 | 24069..... | 30 | 25500..... | 31 | 27972..... | 33 | 28859..... | 33 | A31160..... | 52 |
| 113-C15..... | 66 | 24100..... | 30 | 25508..... | 31 | 27974..... | 33 | 28870..... | 33 | A31162..... | 52 |
| 113-C2..... | 66 | 24108..... | 30 | 25523..... | 31 | 27980..... | 33 | 28872..... | 33 | A31164..... | 52 |
| 113-C25..... | 66 | 24125..... | 30 | 25525..... | 31 | 27982..... | 33 | 28874..... | 33 | A31168..... | 52 |
| 113-C3..... | 66 | 24133..... | 30 | 25533..... | 31 | 27984..... | 33 | 28876..... | 33 | A31199..... | 53 |
| 113-D15..... | 66 | 24140..... | 30 | 25548..... | 31 | 27986..... | 33 | 28880..... | 33 | A31200..... | 53 |
| 113-D2..... | 66 | 24144..... | 30 | 25550..... | 31 | 27988..... | 33 | 28882..... | 33 | A31201..... | 53 |
| 113-D25..... | 66 | 24150..... | 30 | 25558..... | 31 | 28102..... | 33 | 28884..... | 33 | A31202..... | 53 |
| 113-D3..... | 66 | 24158..... | 30 | 25573..... | 31 | 28105..... | 33 | 28886..... | 33 | A31204..... | 53 |
| 113-D35..... | 66 | 24165..... | 30 | 25608..... | 31 | 28170..... | 33 | 28888..... | 33 | A31234..... | 55 |
| 11509..... | 81 | 24169..... | 30 | 25625..... | 31 | 28172..... | 33 | 28932..... | 33 | A31235..... | 55 |
| 11511..... | 81 | 24200..... | 30 | 25633..... | 31 | 28174..... | 33 | 28935..... | 33 | A31236..... | 55 |
| 11575..... | 81 | 24208..... | 30 | 25645..... | 31 | 28176..... | 33 | 28952..... | 33 | A31238..... | 55 |
| 116-A..... | 67 | 24225..... | 30 | 25646..... | 31 | 28180..... | 33 | 28954..... | 33 | A31334..... | 53 |
| 116-B..... | 67 | 24233..... | 30 | 25708..... | 31 | 28182..... | 33 | 28959..... | 33 | A31335..... | 53 |
| 116-C..... | 67 | 24240..... | 30 | 25713..... | 31 | 28184..... | 33 | 28970..... | 33 | A31336..... | 53 |
| 116-D..... | 67 | 24244..... | 30 | 25825..... | 31 | 28186..... | 33 | 28972..... | 33 | A31338..... | 53 |
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