JB INDUSTRIES







JUST BETTER SINCE 1967 | HVAC TOOLS, VALVES AND FITTINGS



JBIND.COM

Product Catalog 53



JB INDUSTRIES Exclusively Supports Authorized Wholesale Distribution Channels



Wow! 2020 was an incredible roller coaster of a ride. All facets of our lives, business and personal, were impacted in an unprecedented manner. As an essential USA manufacturer in Aurora, Illinois, JB was incredibly fortunate to be able to operate relatively normally, albeit with new protocols that did not exist 18 months ago. Our campaign of "Where Are Your Tools Made" took on even more significance in 2020 with our ability to minimize lead times and commodity volatility. Did you know that 85% of JB products are Made in the USA? All of our other products are engineered and designed in the USA.

Our JB team is especially proud of the new products in this year's catalog. These JB-designed and manufactured products not only are recognized by the industry with awards but provide time-saving tools for our customers. JB's newest products include:

- The industries only PLATINUM® FLEX AC/Battery Powered Vacuum Pump
- ACCELERATOR_® Rapid Evacuation Kit featuring the new Valve Core Removal Tools and Y-Force Dual, High-Speed Coupler Connectors
- JB's updated hose offering includes CLSX KOBRA® Secure Seal, CLRF Hydrocarbon Hose, and CNTL90 Series Hose Flexible Pressure Control Series
- ZEPPELIN® and REVOLVER® Digital Manifolds with Bluetooth capability

We are equally excited about our product roadmap that will include the F6-BOOST Recovery Unit, wireless temperature clamps, revamped pump line-up, and ATLAS® DS-250 Digital Scale.

JB's sales and marketing also ramped up their efforts in 2020. New products, meant new package designs, new videos, a more prominent presence in social media, JB GO app, participation in online training sessions, virtual trade shows, and outdoor pump days. Coming soon will be a revamped website.

As we enter 2021, please know we sincerely thank everyone for the continued business and partnerships. JB's philosophy is to continue to support only authorized wholesale distributors and offer the best American-designed, manufactured products just as we have done since 1967. We strive to excel in product quality and innovation, outstanding customer service, and best-in-class product delivery.

We thank our customers for the continued support and look forward to a great 2021 and beyond. We cannot wait to see you in person. Wishing all of you a safe and healthy 2021!

Jeff Cherif President

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New Product Overview



JUST BETTER SINCE 1967 | HVAC TOOLS, VALVES AND FITTINGS

New Product Overview



Vacuum Pumps

JUST BETTER SINCE 1967 | HVAC TOOLS, VALVES AND FITTINGS

PLATINUM® **FLEX** AC/Battery Powered Vacuum Pump

EXTRA FREEDOM EXTRA POWER EXTRA CAPACITY Work better with the Dealer Design Award Winning PLATINUM® FLEX

battery or AC powered vacuum pump. American made top-of-the-line for both quality and durability—Pump of Choice for HVAC/R technicians.

- Powered by JB's 9.0 Ah/18v lithium-ion battery or auto-switching dual voltage AC Adapter
- 1/2 HP DC brushless motor
- Available in 3 CFM or 5 CFM
- Low battery warning light with audible alert
- Easy access 1/4", 3/8" or 1/2" intake tee
- 15 micron vacuum rating
- 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 backflow during power failure
- 22oz. Oil Capacity
- Field repairable
- 1 year OTC warranty; 2 year on vacuum pump

Accessories

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



DV-BP-BAT



DEALER DESIGN

AWARDS



DV-BP-CHRG

DV-BP-AC

9.0 /18

PLATIN

DV-142-FLEX

MADE

| PLATINUM® FLEX BATTERY F | DV-85-FLEX | DV-85-FLEX-AC | DV-85-FLEX-BAT | DV-142-FLEX | DV-142-FLEX-AC | DV-142-FLEX-BAT |
|---|--|--|--|--|--|--|
| CFM | 3 CFM (85 l/m) | 3 CFM (85 l/m) | 3 CFM (85 l/m) | 5 CFM (142 l/m) | 5 CFM (142 l/m) | 5 CFM (142 l/m) |
| MOTOR | 1/2 HP, 1725 RPM |
| VOLTAGE | Battery: 9.0 Ah/18v Adapter: 115v/60Hz 230v/50Hz |
| INTAKE PORT | 1/2" x 1/4" x 3/8" |
| OIL CAPACITY | 26oz (769cc) | 26oz (769cc) | 26oz (769cc) | 21oz (621cc) | 21oz (621cc) | 21oz (621cc) |
| AC ADAPTER: DV-BP-AC | Included | Included | Not Included | Included | Included | Not Included |
| BATTERY: DV-BP-BAT Charger: DV-BP-Chrg | Included | Not Included | Included | Included | Not Included | Included |
| BATTERY RUN TIME | Approximately 90 minutes | Approximately 90 minutes | Approximately 90 minutes | Approximately 60 minutes | Approximately 60 minutes | Approximately 60 minutes |

JUST BETTER SINCE 1967 | HVAC TOOLS, VALVES AND FITTINGS

Vacuum Pumps

MADE

PLATINUM®

Best Vacuum Pump in the Industry

- 2-Stage direct drive with 1/2 HP capacitor start and thermal overload protection
- Available in 1.5, 3, 5, 7 and 10 CFM
- Easy access 1/4", 3/8" or 1/2" intake tee
- 15 micron vacuum rating
- Gas ballast and blank-off isolation valve
- All metal construction with finned aluminum heavy-duty housing, brass fittings, stainless steel valving and splash guard
- Ergonomic 1/2" NPT break-resistant exhaust handle with lift ring
- · Large, easy-to-see oil level sight glass with easy access oil fill on cover
- O-ring sealed oil drain valve to prevent leaks and tethered safety cap to prevent oil spills
- Internal check valve prevents oil backflow during power failure
- 100% field repairable; see page 74 for repair parts
- Available in 115v or dual voltage motor with switch (115v/230v)
- Removable, interchangeable power cord on dual voltage motors
- 2 year OTC warranty

Spark-Proof Pump

Spark-proof, dual voltage motor with switch and removable, interchangeable power cord for use on Class A1, A2L, A2 and A3 refrigeration systems, DV-200N-250SP

International Dual Voltage Pump

PLATINUM® -250 and -250SP Series models feature a dual voltage motor with switch and removable, interchangeable power cord. Specify US, EU, UK, AU or BR plug type.



US Cord







AU Cord

PR-336

EU Cord PR-110 (110v) PR-136 PR-230 (230v)

UK Cord PR-236

BR Cord PR-436



DV-200N

DV-200N-250SP Spark-Proof



Sliding switch for 115v or 230v on dual

voltage models

| | DV-42N | DV-85N | DV-142N | DV | -200N | DV-285N |
|------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------------|------------------------|
| CFM | 1.5 CFM (42 l/m) | 3 CFM (85 l/m) | 5 CFM (142 l/m) | 7 CFM (200 l/m) | | 10 CFM (285 l/m) |
| MOTOR | 1/2 HP, 1725 RPM | | 1/2 HP, 1725 RPM |
| VOLTAGE | 115v/60Hz | 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" | | 1/2" x 1/4" x 3/8" |
| OIL CAPACITY | 26oz (769cc) | 26oz (769cc) | 26oz (769cc) | 21oz (621cc) | 21oz (621cc) | 21oz (621cc) |
| 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) | 32lbs (14.5kg) | 32lbs (14.5kg) | | 34lbs (15.4kg) |
| PLATINUM _® dual v | OLTAGE AND SPARK-PROO | F 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 RPN |
| VOLTAGE | 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 |

Vacuum Pumps

JUST BETTER SINCE 1967 | HVAC TOOLS, VALVES AND FITTINGS

ELIMINATOR®

- USA Made Economy Vacuum Pump
- 2-Stage direct drive with 1/2 HP 1725 RPM motor
- Available in 3, 4 and 6 CFM
- Easy access 1/4" or 3/8" intake tee
- 25 micron vacuum rating
- All metal construction with burnished cover, brass fittings and stainless steel valving
- Ergonomic 1/2" break-resistant exhaust handle
- · Large, easy-to-see oil level sight glass with easy access oil fill on cover
- Tethered safety cap to prevent oil spills
- 100% field repairable; see page 76 for repair parts
- Available in 115v or dual voltage motor with switch (115v/230v)
- Removable, interchangeable power cord on dual voltage motors
- 2 year OTC warranty

Spark-Proof Pump

Spark-proof, dual voltage motor with switch and removable, interchangeable power cord for use on Class A1, A2L, A2 and A3 refrigeration systems, **DV-6E-250SP**

International Dual Voltage Pump

ELIMINATOR[®] -250 and -250SP Series models feature a dual voltage motor with switch and removable, interchangeable power cord. Specify US, EU, UK, AU or BR plug type.







US Cord EU Cord PR-110 (110v) PR-136 PR-230 (230v)

UK Cord PR-236



AU Cord

PR-336

BR Cord PR-436

DV-6E-250SP Spark-Proof



ELIMINATOR® PUMPS

| ELIMINATOR [®] PUMPS | | | | | | | | | |
|--------------------------------------|---------|------------------------|-----------------------------|------------------------|----------------------------|------------------------|-----------------------|--|--|
| DV-3E | | | | DV-4E | | | DV-6E | | |
| | CFM | 3 CFM (85 l/m) | | 4 CFM (113 l/m) | | 6 CFM (170 l/m) | | | |
| Ν | NOTOR | 1/2 HP, 1725 RPM | | 1/2 HP, 1725 RPN | Λ | 1/2 HP, 1725 RPM | | | |
| VC | OLTAGE | 115v/60Hz | | 115v/60Hz | | 115v/60 |)Hz | | |
| INTAKI | E PORT | 1/4" x 3/8" | | 1/4" x 3/8" | | 1/4" x 3 | /8" | | |
| OIL CAPACITY 28oz (828cc) | | 28oz (828cc) | (828cc) 25oz (73 | | 25oz (739cc) | | 39cc) | | |
| 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" | | | |
| N | /EIGHT | 29lbs (13.2kg) | | 30lbs (13.6kg) | | 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, 1725/142 | 5 RPM | 1/2 HP, 1725/1425 RPM | | 1/2 HP, 1725/1425 RPM | | |
| VOLTAGE | 115v/60 |)Hz, 230v/50Hz | 230v/50Hz 115v/60Hz, 230v/5 | | /50Hz 115v/60Hz, 230v/50Hz | | 115v/60Hz, 230v/50Hz | | |
| PLUG | US 220 | V | US 220v | | US 220v | | US 220v | | |
| PLUG OPTIONS* | US/EU, | 'UK/AU/BR | US/EU/UK/AU/E | 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.

JUST BETTER SINCE 1967 | HVAC TOOLS, VALVES AND FITTINGS

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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 HVAC/R system evacuations up to 20x Faster.

- 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
- A32525N 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
- A32525SV Easily attaches and protects vacuum gauge with the slide valve side port





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

4)

| PART NO. | DESCRIPTION |
|----------|---|
| VL-200 | ACCELERATOR evacuation kit with A32525N, A32525SV, QC-208, QC-206, CL264-48 (2) and JB branded convenient storage bag |
| 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 | Two 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) |

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 HVAC/R system evacuations up to 10x Faster.

- 60" long, 1/2" diameter evacuation hose; 3/8" x 1/4" SAE flare
- A32525N 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

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



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





Pump Accessories

MADE

RVEN **Y-FORCE** Dual, High-Speed MADE **Coupler Connectors**

Work faster with the 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 multiple hoses to one point
- Vacuum rated and designed for high-pressure refrigerants
- Rugged solid brass construction
- Use with any vacuum pump



3/8" or 1/2"

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" |
| | |



THE TANK Vacuum Pump Oil Caddy

- Changing the oil after every job will extend the life of your vacuum pump
- · Clean oil ensures peak pump efficiency and deep vacuum
- Holds up to 5 oil changes
- Easy-to-carry handle
- No mess, No spills
- Environmentally friendly



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



| 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 | |
| | |











D10162

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

BLACK GOLD®



Pump Oil

Acts as a coolant, lubricant and sealantsimultaneously. Non-detergent, hydro-processed



| PART NO. | QTY. | DESCRIPTION |
|----------|------|------------------------|
| DVO-1 | 24 | BLACK GOLD pint case |
| DV0-12 | 12 | BLACK GOLD quart case |
| DVO-24 | 6 | BLACK GOLD gallon case |

Oil Mist Filter Eliminates oil mist from pump handle

MADE



DV-F8

| PART NO. | DESCRIPTION |
|----------|------------------------------------|
| DV-F6 | Oil mist filter 3/8"; ELIMINATOR |
| 5410 | (pre-2011) and PLATINUM (pre-2008) |
| DV-F8 | Oil mist filter 1/2"; ELIMINATOR |
| DV-FO | (2011+) and PLATINUM (2000+) |





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) |

Vacuum Pump Tips

Change Your Pump Oil

Deep vacuum cannot be achieved with contaminated oil, which can damage the pump and shorten pump life. JB recommends pump oil be changed after every evacuation for maximum performance and pump efficiency.

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.

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. To learn how to properly care for your pump, visit jbind.com.

DV-29

Vacuum Gauge Blank-off Test Kit

The **DV-29** Vacuum Gauge Blank-off Test Kit works with vacuum gauges and the **SH-35N** Wireless Digital Gauge for Superheat and Subcooling to create a closed system ideal for checking leaks.



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

Using a Vacuum Gauge

How to Measure Evacuation

Digital vacuum gauges such as the **DV-41 SUPERNOVA**, the **DV-40S** or the **DV-22N** can precisely read the low pressures produced when evacuation/ dehydration is complete. Evacuation is complete when a system holds at 500 microns. Although a compound gauge can indicate that a vacuum is being produced, it cannot measure pressure accurately or indicate whether moisture or contaminants remain in the system. A digital vacuum gauge can positively indicate that the system is free of leaks and non-condensables.

Placement of the digital vacuum gauge is important. The ideal location to measure vacuum is at the system, not the pump. Attach the digital vacuum gauge directly to the system, isolating the gauge from the pump, hoses and manifold for an accurate measurement of the vacuum in a system.

For faster evacuation time and to achieve optimum pump performance:

- 1. Select the correct pump CFM.
- 2. Use clean oil and be sure to change pump oil with **BLACK GOLD** Vacuum Pump Oil after each use. Clean oil improves pump efficiency and extends pump life.
- 3. Remove restrictive valve cores from both high and low side fitting with the A32525N and A32500N valve core tools.
- 4. Evacuate both high and low side of the system simultaneously with a short, 3/8" diameter or larger size evacuation hose, such as the **VL-100 VELOCITY** Rapid Evacuation Kit.
- 5. Attach a **DV-22N** digital vacuum gauge directly to the system to monitor accurate measurement of vacuum.



VACUUM PUMP

MADE

RECOVERY



BLDC Ignition-Proof Refrigerant Recovery Unit

The F6-BOOST Refrigerant Recovery Unit provides over 20% faster recovery rates than competitor models. The unique 2-cylinder, oilless compressor and long-lasting pistons are contained in a light-weight, ergonomically designed, easy-to-use unit. The F6-BOOST gives the user fast and reliable refrigerant recovery of ARHI groups III, IV, and V refrigerants.

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
- Non-pressurized vented crank case (prevents refrigerant from damaging bearings or 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" high/low gauges
- Auto shut-off when recovery complete
- Status Indicator light
- Optional stainless steel interior model for medical related industries
- Compact light-weight 24lb 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
- 2- year warranty

| PART NO. | DESCRIPTION |
|--------------|--|
| F6-B00ST | BLDC Ignition-Proof Refrigerant Recovery Unit |
| F6-B00ST-SS | BLDC Ignition-Proof Refrigerant Recovery Unit (Stainless Steel) |
| F6-BOOST-TOC | Optional tank overflow switch |





Knock-out location for optional tank overflow switch (sold separately)



RUEVA



RECOVERY



Refrigerant Recovery Unit

- 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
- For use with all Class III, IV and V refrigerants, including R410A
- Filter/drier included
- 3 year OTC warranty

Refrigerant Recovery Tanks

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



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

Recessed gauges

Sturdy metal knobs

Easy access filter

Self-purge without changing hoses



| PART NO. | DESCRIPTION |
|-------------|--------------------------------------|
| F6-DP | F6 Refrigerant Recovery Unit (115v) |
| F6-DP-250 | F6 Refrigerant Recovery Unit (230v) |
| F6-FLT | Filter/drier attachment |
| F6-STRAP | Replacement carrying strap |
| F6-BH | Replacement blue knob and screw |
| F6-RH | Replacement red knob and screw |
| F6-110-CRD | Replacement power cord |
| F6-RBFT | Replacement rubber foot |
| F6-RHP | Replacement gauges |
| REC-TANK-30 | 30lb Empty refrigerant tank cylinder |
| REC-TANK-50 | 50lb Empty refrigerant tank cylinder |



Digital Vacuum Gauges

DV-22N Digital Vacuum Gauge

- Extended range MEMS sensor
- Vacuum reading range 100,000 to 10 microns
- Easy-to-read back-lit display
- Improved response time for instantaneous vacuum reading
- Working Temperature +32°F to 120°F (+0°C to 48.9°C)
- Allows for direct connection to A/C unit without a hose
- 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
- Factory calibrated
- 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 |
| DV-27N | Protective carrying case only (models after July 2017) |
| DV-FILTER | Replacement depressor and gasket with filter |
| P511 | Replacement gasket (6 pack) |
| P511-10 | Replacement gasket (10 pack) |
| P90009 | Replacement o-ring for older models with o-ring (10 pack) |

DV-40S

Wireless Digital Vacuum Gauge

- Factory calibrated for accuracy
- Vacuum reading range 100,000 to 10 microns
- Wirelessly connects to smart devices with DV-40S app through JB GO
- Backup display on the gauge
- Heavy-duty, water-resistant design
- 8 hour rechargeable lithium ion battery with USB charging adapter
- Programmable alarm system for low/high limits and approaching/leaking
- Data logging for recording and sharing job statistics
- · Light or dark app theme for easy visibility
- Protective carrying case
- 1 year warranty



U UOB UO JB Main Menu Advanced features including color theme options and scanning for connection devices

Clipboard Access data logging and sharing features; save data and email as text

Target and Leak Alarms Selection boxes arm and silence

– Main Vacuum Reading Display

- Unit of Measure Selection

Job and Rise Test Timers Can be managed and recorded separately

Rise Vacuum Chart Line graph display of the change in vacuum during the rise test



| PART NO. | DESCRIPTION |
|-----------|--|
| DV-40S | Wireless digital vacuum gauge with case and charging adapter |
| DV-40S-CS | Protective carrying case for the DV-40S |
| DV-40S-AC | Charging adapter with cord |
| A34000D | 1/4" QC x 1/4" access tee with depressor |
| DV-FILTER | Replacement depressor and gasket with filter |
| P511 | Replacement gasket (6 pack) |
| P511-10 | Replacement gasket (10 pack) |
| P90009 | Replacement o-ring for older models with o-ring (10 pack) |

JUST BETTER SINCE 1967 | HVAC TOOLS, VALVES AND FITTINGS

Digital Vacuum Gauges

DV-41

SUPERNOVA® Digital Vacuum Gauge

- Fully programmable gauge includes approach and leak alarm settings with automatic shutoff and back light duration
- Vacuum reading range 100,000 to 10 microns
- Measures in microns, psia, inHg, pascals, Torr, mTorr and mBar
- Easy-to-read LCD screen
- Factory calibrated
- 1/4" SAE flare brass fitting with flexible five foot cord for hard-to-reach spaces
- Operates with AC adapter (included) or three AA batteries
- Protective carrying case
- 1 year warranty



| PART NO. | DESCRIPTION |
|-----------|---|
| DV-41 | Digital vacuum gauge with AC adapter and protective carrying case |
| DV-40C | AC adapter and protective carrying case only |
| DV-40AC | AC Adapter |
| DV-40HK | Hanging hook replacement |
| A34000D | 1/4" QC x 1/4" access tee with depressor |
| DV-FILTER | Replacement depressor and gasket with filter |
| P511 | Replacement gasket (6 pack) |
| P511-10 | Replacement gasket (10 pack) |
| P90009 | Replacement o-ring for older models with o-ring (10 pack) |

SH-35N

Wireless Gauge for Superheat and Subcooling

- Wirelessly connects to smart devices with SH-35N app through JB GO; share screenshots right from your phone
- OLED sunlight readable screen
- Protective carrying case
- Built-in valve port to easily adjust refrigerant charge
- Range up to 400ft (unobstructed)
- Rechargeable lithium polymer battery
- 50+ Refrigerants
- 1 year warranty

Specifications

| Operating Temperature | 14 |
|-----------------------|----|
| Storage Temperature | -4 |
| Pressure Range | -1 |
| Pressure Accuracy | +/ |
| Temperature Range | -5 |
| Temperature Accuracy | +/ |

14°F to 122°F (-10°C to 50°C) -4°F to 140°F (-20°C to 60°C) -14.7 psi to 670 psi +/- 0.5%FS -58°F to 302°F (-50°C to 150°C) +/- 1.2%FS



Leak Detection

LD-6000IR

AURORA_® Infrared Refrigerant Leak Detector

- Detects all CFC, HFC, HCFC, HFO-1234YF and blended refrigerants
- Infrared sensor life > 10 years
- High (0.10 oz/year and higher), medium (0.25 oz/year and higher), and low (0.5 oz/year and higher) sensitivity settings
- Visual and audible alerts
- Accurate to 0.10oz/year
- Will not trigger on oil or moisture
- Convenient magnetic hanger
- Easy-to-read LED display
- Stores highest change in refrigerant concentration achieved
- 16" flexible probe
- Protective carrying case
- Magnetic hanger
- 8 hour rechargeable lithium ion battery
- 1 year warranty



| PART NO. | DESCRIPTION |
|-----------|---|
| LD-6000IR | AURORA leak detector in case |
| LDA-WE9 | Wand extension – 9" |
| LDA-NNP4 | Needle nose probe – 4-3/4" |
| LDA-NNP9 | Needle nose probe – 9" |
| LDA-VCH | 12v vehicle charger |
| LDA-WCH | 120-240v wall charger |
| LDA-WCHUS | Wall charger – US connector (also available for UK, EU) |
| LDA-LI | 3.7v Lithium ion battery 1800 mAh |
| LDA-WTP | Wand tip |
| LDA-PK | Filters (10) for wand tip and probes plus o-rings (5) |

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

MADE

- Manual calibration mode and reset control
- High, medium, and low sensitivity settings
- Warm up time < 30 seconds; response time immediate
- Mutable alarm with 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



| LD-5000 | PROWLER leak detector in case |
|----------|---|
| LD-\$101 | Replacement sensor (6 prong) |
| LD-RF5 | Replacement filters (5 pack) |
| LD-TV | Replacement leak test vial |
| LD-PK | Parts kit (includes 6 prong sensor, filter kit and test vial) |
| LD-CS | Protective carrying case |
| LD-ST | Replacement sensor tip |

JUST BETTER SINCE 1967 | HVAC TOOLS, VALVES AND FITTINGS

Leak Detection

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



| Methane (R50) |
|-------------------|
| Propane (R290) |
| Isobutane (R600A) |
| Butane (R600) |
| Ethane (R170) |
| Ammonia (R717) |
| Acetylene |
| Ethanol |
| Acetone |
| Gasoline |
| and more |

| PART NO. | DESCRIPTION |
|------------|--|
| LDC-4000 | Combustible Gas and HC Refrigerant leak detector in case |
| LDC-4000-1 | Replacement sensor (4 prong) |
| LDC-4000-2 | 2 Replacement sensor cover |
| LDC-4000-3 | B Combustible leak test vial |
| LDC-4000-4 | Protective carrying case |

CE

LD-3000

QUEST_® Electrochemical **Refrigerant Leak Detector**

- Long life, electrochemical sensor
- Detects all CFC, HFC, HFO and 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 |
| LD-S101 | Replacement sensor (6 prong) |
| LD-RF5 | Replacement filters (5 pack) |
| LD-TV | Replacement leak test vial |
| LD-PK | Parts kit (includes 6 prong sensor, filter kit and test vial) |
| LD-CS | Protective carrying case |
| LD-ST | Replacement sensor tip |

Digital Manifolds

DM4-RW

RVEIA

MADE

REVOLVER® Wireless Digital Manifold

- Wirelessly connects to smart devices through the JB GO app
- Simple, easy-to-navigate menu with transflective display for easy reading in direct sunlight
- 60+ Refrigerants; update through app
- Measures high side and low side pressure (ps, kPa and bar) and temperature (°F and °C)
- Calculates superheat, subcooling, vapor and liquid saturation
- Laser welded stainless steel transducers
- Universal K-Type clamp thermocouples
- Protective boot and water-resistant design
- American made forged brass REVOLVER® 4-valve liquid metering ball valve style manifold
- Quarter-turn full open/close handle and 3/8" bore for faster evacuation
- 60" CCLE4-60 KOBRA® hose set included (4 pack)
- · Protective carrying case allows storage with connected hoses
- Convenient strap with hanging hook
- Operates with three AA batteries (included)





| | DM4-RW | $REVOLVER_{\circledast}$ Digital Manifold with KOBRA $_{\circledast}$ 60" hose set (4) in case |
|--------|----------|--|
| 11111 | DM4-CS | Digital manifold protective carrying case |
| 111111 | DM4-TC | Temperature clamps |
| 11111 | DM4-BRK | Brackets for clamps and strap |
| 10110 | DM4-STRP | Strap with hook |
| 111111 | DM4-BT | Protective boot |
| 100.0 | CCLE4-60 | 60" Gasket seal KOBRA _® hose set (4) |
| | | |

DM4-ZW

ZEPPELIN® Wireless Digital Manifold

- Wirelessly connects to smart devices through the JB GO app
- Simple, easy-to-navigate menu with transflective display for easy reading in direct sunlight
- 60+ Refrigerants; update through app
- Measures high side and low side pressure (ps, kPa and bar) and temperature (°F and °C)
- Calculates superheat, subcooling, vapor and liquid saturation
- · Laser welded stainless steel transducers
- Universal K-Type clamp thermocouples
- · Protective boot and water-resistant design
- American made heavy-duty forged aluminum ZEPPELIN® 4-valve piston style manifold
- 3/8" bore for faster evacuation
- 60" CCLE4-60 KOBRA® hose set included (4 pack)
- Soft grip rubber handwheels reduce turning to open/close
- · Protective carrying case allows storage with connected hoses
- Convenient strap with hanging hook
- Operates with three AA batteries (included)
- 1 year warranty

*



MADE



App Store

| PART NO. | DESCRIPTION |
|----------|---|
| DM4-ZW | ZEPPELIN® Digital Manifold with KOBRA® 60" hose set (4) in case |
| DM4-CS | Digital manifold protective carrying case |
| DM4-TC | Temperature clamps |
| DM4-BRK | Brackets for clamps and strap |
| DM4-STRP | Strap with hook |
| DM4-BT | Protective boot |
| CCLE4-60 | 60" Gasket seal KOBRA _® hose set (4) |

PART NO.

Digital Manifolds

MADE

DM4-R

REVOLVER® Digital Manifold

- Simple, easy-to-navigate menu with transflective display for easy reading in direct sunlight
- 60+ Refrigerants
- Measures high side and low side pressure (psi and kPa) and temperature (°F and °C)
- Calculates superheat, subcooling, vapor and liquid saturation
- Laser welded stainless steel transducers
- Universal K-Type clamp thermocouples
- Protective boot and water-resistant design
- American made forged brass REVOLVER_® 4-valve liquid metering ball valve style manifold
- Quarter-turn full open/close handle and 3/8" bore for faster evacuation
- 60" CCLE4-60 KOBRA® hose set included (4 pack)
- · Protective carrying case allows storage with connected hoses
- Convenient strap with hanging hook
- Operates with three AA batteries (included)
- 1 year warranty



| PART NO. | DESCRIPTION |
|----------|--|
| DM4-R | $REVOLVER_\circledast$ Digital Manifold with KOBRA $_\circledast$ 60" hose set (4) in case |
| DM4-CS | Digital manifold protective carrying case |
| DM4-TC | Temperature clamps |
| DM4-BRK | Brackets for clamps and strap |
| DM4-STRP | Strap with hook |
| DM4-BT | Protective boot |
| CCLE4-60 | 60" Gasket seal KOBRA _® hose set (4) |

DM4-Z

ZEPPELIN® Digital Manifold

- Simple, easy-to-navigate menu with transflective display for easy reading in direct sunlight
- 60+ Refrigerants
- Measures high side and low side pressure (psi and kPa) and temperature (°F and °C)
- Calculates superheat, subcooling, vapor and liquid saturation
- Laser welded stainless steel transducers
- Universal K-Type clamp thermocouples
- Protective boot and water-resistant design
- American made heavy-duty forged aluminum ZEPPELIN® 4-valve piston style manifold
- 3/8" bore for faster evacuation
- 60" CCLE4-60 KOBRA® hose set included (4 pack)
- Soft grip rubber handwheels reduce effort turning to open/close
- · Protective carrying case allows storage with connected hoses
- Convenient strap with hanging hook
- Operates with three AA batteries (included)
- 1 year warranty

MADE



| PART NO. | DESCRIPTION |
|----------|--|
| DM4-Z | ZEPPELIN $_{\ensuremath{\circledast}}$ Digital Manifold with KOBRA $_{\ensuremath{\$}}$ 60" hose set (4) in case |
| DM4-CS | Digital manifold protective carrying case |
| DM4-TC | Temperature clamps |
| DM4-BRK | Brackets for clamps and strap |
| DM4-STRP | Strap with hook |
| DM4-BT | Protective boot |
| CCLE4-60 | 60" Gasket seal KOBRA _® hose set (4) |

Digital/CO² Manifolds

DMG2-5 2-Valve Digital Manifold

- Easy-to-read screen with intuitive buttons
- 80+ preprogrammed refrigerants
- Simultaneous calculation of superheat and subcooling
- Data logging capability with DMG2-DATA
- Robust transducer design
- Sturdy body designed for resiliency
- Simple and accessible data display
- Vacuum sensor and data recording modules sold separately
- Heavy-duty K-type thermocouples included
- 60" KOBRA® CCLE hoses included (3 pack)
- Protective carrying case
- 1 year warranty

Specifications

Pressure Display Temperature Display Vacuum Display

Power Source

Monitor (diagonal) Pressure Range

Precision (at 72°F)

Temperature Range Working Temperature

Connections

bar, psi, KPa, Mpa °F and °C microns, mbar, mmHg, pascals, mtorr (w/DMG2-VAC) 9V battery (included) 4 -1/3" or 11cm -14.5 to 870 psi +/- 0.5% fs -58°F to 392°F (-50°C to 200°C) 14°F to 122°F (-10°C to50°C) 1/4" SAE



| PART NO. | DESCRIPTION |
|-----------|--|
| DMG2-5 | 2-Valve digital manifold with 60" KOBRA® CCLE Hose set |
| DMG2-8 | 2-Valve digital manifold |
| DMG2-CASE | Protective carrying case |
| DMG2-TC | Heavy-duty K-type thermocouple |
| DMG2-VAC | DMG2 vacuum sensor module |
| | DMG2-5 DMG2-8 DMG2-CASE DMG2-TC |

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)
- Protective carrying case
- 3 year warranty

Specifications

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



CE

| PART NO. | DESCRIPTION |
|----------|--|
| 30744 | CO2 Manifold with 36" hose set in protective carrying case |
| M2-744L | Low side replacement gauge (blue) |
| M2-744H | High side replacement gauge (red) |
| CL744-36 | 36" hose set for CO2 manifold |
| CL744-60 | 60" hose set for CO2 manifold |
| 744-GK | Replacement gasket kit |
| U1-4A-2 | Flare X male pipe adapter (pack of 2) |
| 29860-CV | Replacement gauge boot (blue) |
| 29865-CV | Replacement gauge boot (red) |

JUST BETTER SINCE 1967 | HVAC TOOLS, VALVES AND FITTINGS

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
- Pull-out proof hanging hook
- Easy-to-turn metal handwheels
- Solid brass forging
- 1 year warranty; lifetime on bar

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





| R404A | R410A | |
|---------------|--|---|
| HOSES | GAUGE SIZE | GAUGE FEATURES |
| Manifold Only | 3-1/8" (80mm) | Illuminating Class 1, 1% |
| Manifold Only | 3-1/8" (80mm) | LED, Class 1, 1% |
| Manifold Only | 3-1/8" (80mm) | Illuminating, Class 1, 1% Camo |
| CCLE-60" | 3-1/8" (80mm) | Illuminating, Class 1, 1% |
| CCLE-60" | 3-1/8" (80mm) | LED, Class 1, 1% |
| CCLE-60" | 3-1/8" (80mm) | Illuminating, Class 1, 1% Camo |
| CCLS-60" | 3-1/8" (80mm) | Illuminating, Class 1, 1% |
| CCLS-60" | 3-1/8" (80mm) | Illuminating, Class 1, 1%, Camo |
| | HOSES Manifold Only Manifold Only Manifold Only CCLE-60" CCLE-60" CCLE-60" CCLS-60" | HOSES GAUGE SIZE Manifold Only 3-1/8" (80mm) Manifold Only 3-1/8" (80mm) Manifold Only 3-1/8" (80mm) Manifold Only 3-1/8" (80mm) CCLE-60" 3-1/8" (80mm) CCLE-60" 3-1/8" (80mm) CCLE-60" 3-1/8" (80mm) CCLE-60" 3-1/8" (80mm) CCLS-60" 3-1/8" (80mm) |

| R22 | R134A | 404A | |
|----------|---------------|---------------|---------------------------|
| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
| 22125 | Manifold Only | 3-1/8" (80mm) | Illuminating, Class 1, 1% |
| 22133 | CCLE-60" | 3-1/8" (80mm) | Illuminating, Class 1, 1% |

| R32 | R290 | R600A | |
|------------|----------------|---------------|----------------|
| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
| 22725 | Manifold Only | 3-1/8" (80mm) | Natural Gas |
| 22733 | CCLE-36" | 3-1/8" (80mm) | Natural Gas |
| 22733RF-18 | 18" CLRF Hoses | 3-1/8" (80mm) | Natural Gas |

R410A

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

Additional manifold gauge options, refrigerant combinations and accessories available on page 29. KOBRA hose options available begin on page 31. Manifold rebuild kits and repair parts on page 78.

JUST BETTER SINCE 1967 | HVAC TOOLS, VALVES AND FITTINGS

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

Liquid Charging











| R22 | R134A | 404A | |
|----------|---------------|-----------------|----------------|
| 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 | CCLE4-60" | 2-1/2" (63.5mm) | Standard |
| 26133 | CCLE4-60" | 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 29. KOBRA hose options available begin on page 31. Manifold rebuild kits and repair parts on page 78.



R12 R502 R22 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 CCLE4-60" 2-1/2" (63.5mm) Standard 26033 CCLE4-60" 3-1/8" (80mm) Illuminating 26040 CCLV4-60" 3-1/8" (80mm) Illuminating CCLS-60" 26044 3-1/8" (80mm) Illuminating

JUST BETTER SINCE 1967 | HVAC TOOLS, VALVES AND FITTINGS

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

| 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, Class 1, 1% |
| 24225 | Manifold Only | 3-1/8" (80mm) | Illuminating |
| 24208 | CCLE-60" | 2-1/2" (63.5mm) | Standard |
| 24258 | CCLE-60" | 3-1/8" (80mm) | Liquid Filled, Class 1, 1% |
| 24233 | CCLE-60" | 3-1/8" (80mm) | Illuminating |
| 24265 | CCLV-60" | 3-1/8" (80mm) | Liquid Filled, Class 1, 1% |
| 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, Class 1, 1% |
| 24125 | Manifold Only | 3-1/8" (80mm) | Illuminating |
| 24108 | CCLE-60" | 2-1/2" (63.5mm) | Standard |
| 24158 | CCLE-60" | 3-1/8" (80mm) | Liquid Filled, Class 1, 1% |
| 24133 | CCLE-60" | 3-1/8" (80mm) | Illuminating |
| 24165 | CCLBV-60" | 3-1/8" (80mm) | Liquid Filled, Class 1, 1% |
| 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 | CCLE-60" | 3-1/8" (80mm) | Liquid Filled, Class 1, 1% |
| 24615 | CCLBV-60" | 3-1/8" (80mm) | Liquid Filled, Class 1, 1% |

Additional manifold gauge options, refrigerant combinations and accessories available on page 29. KOBRA hose options available begin on page 31. Manifold rebuild kits and repair parts on page 77.



| 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, Class 1, 1% |
| 24025 | Manifold Only | 3-1/8" (80mm) | Illuminating |
| 24008 | CCLE-60" | 2-1/2" (63.5mm) | Standard |
| 24058 | CCLE-60" | 3-1/8" (80mm) | Liquid Filled, Class 1, 1% |
| 24033 | CCLE-60" | 3-1/8" (80mm) | Illuminating |
| 24065 | CCLBV-60" | 3-1/8" (80mm) | Liquid Filled, Class 1, 1% |
| 24040 | CCLBV-60" | 3-1/8" (80mm) | Illuminating |
| 24069 | CCLS-60" | 3-1/8" (80mm) | Liquid Filled, Class 1, 1% |
| 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 | CCLE-60" | 2-1/2" (63.5mm) | R410A Only |
| 24533 | CCLE-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 |] |
| | | | |
| R22 Part No. 24425 | R407C HOSES Manifold Only | 410A GAUGE SIZE 3-1/8" (80mm) | GAUGE FEATURES |

JUST BETTER SINCE 1967 | HVAC TOOLS, VALVES AND FITTINGS

ZEPPELIN®

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

P22



| nzz | N404A | N4 IUA | |
|----------|---------------|-----------------|----------------------------|
| 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, Class 1, 1% |
| 25225 | Manifold Only | 3-1/8" (80mm) | Illuminating |
| 25225L | Manifold Only | 3-1/8" (80mm) | LED |
| 25208 | CCLE4-60" | 2-1/2" (63.5mm) | Standard |
| 25258 | CCLE4-60" | 3-1/8" (80mm) | Liquid Filled, Class 1, 1% |
| 25233 | CCLE4-60" | 3-1/8" (80mm) | Illuminating |
| 25233L | CCLE4-60" | 3-1/8" (80mm) | LED |
| 25265 | CCLV4-60" | 3-1/8" (80mm) | Liquid Filled, Class 1, 1% |
| 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, Class 1, 1% |
| 25246 | CCLS-60" | 3-1/8" (80mm) | Illuminating |

R410A

| R22 | R134A | 404A | |
|----------|---------------|-----------------|----------------------------|
| 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, Class 1, 1% |
| 25125 | Manifold Only | 3-1/8" (80mm) | Illuminating |
| 25108 | CCLE4-60" | 2-1/2" (63.5mm) | Standard |
| 25158 | CCLE4-60" | 3-1/8" (80mm) | Liquid Filled, Class 1, 1% |
| 25133 | CCLE4-60" | 3-1/8" (80mm) | Illuminating |
| 25165 | CCLV4-60" | 3-1/8" (80mm) | Liquid Filled, Class 1, 1% |
| 25140 | CCLBV-60" | 3-1/8" (80mm) | Illuminating |
| 25169 | CCLS-60" | 3-1/8" (80mm) | Liquid Filled, Class 1, 1% |
| 25144 | CCLS-60" | 3-1/8" (80mm) | Illuminating |

| R22 | R134A | R404A | R410A |
|----------|-----------|------------|----------------|
| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
| 25708 | CCLE4-60" | 4" (102mm) | Illuminating |
| 25713 | CCLV4-60" | 4" (102mm) | Illuminating |

| 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, Class 1, 1% |
| 25025 | Manifold Only | 3-1/8" (80mm) | Illuminating |
| 25008 | CCLE4-60" | 2-1/2" (63.5mm) | Standard |
| 25058 | CCLE4-60" | 3-1/8" (80mm) | Liquid Filled, Class 1, 1% |
| 25033 | CCLE4-60" | 3-1/8" (80mm) | Illuminating |
| 25065 | CCLV4-60" | 3-1/8" (80mm) | Liquid Filled, Class 1, 1% |
| 25040 | CCLV4-60" | 3-1/8" (80mm) | Illuminating |
| 25069 | CCLS-60" | 3-1/8" (80mm) | Liquid Filled, Class 1, 1% |
| 25044 | CCLS-60" | 3-1/8" (80mm) | Illuminating |

R410A

25833

CCLE-60"

| 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 | CCLE4-60" | 2-1/2" (63.5mm) | R410A Only |
| 25558 | CCLE4-60" | 3-1/8" (80mm) | Liquid Filled, R410 Only |
| 25533 | CCLE4-60" | 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 |

| K4U/A | K4ZZB | K4Z/A | |
|----------|-----------|---------------|----------------------------|
| PART NO. | HOSES | GAUGE SIZE | GAUGE FEATURES |
| 25325 | CCLE-60" | 3-1/8" (80mm) | Illuminating |
| 25608 | CCLE4-60" | 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 |

3-1/8" (80mm)

Illuminating

Additional manifold gauge options, refrigerant combinations and accessories available on page 29. KOBRA hose options available begin on page 31. Manifold rebuild kits and repair parts on page 77.

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

Free-Floating, Dual O-Ring Sealing System

Stem seats retract completely for full flow path



Zero leakage high pressure raised seat for positive seating

| 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* | CCLE-60" | 2-1/2" (63.5mm) | Standard |
| M2-5-410AB | CCLE-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 | CCLE-60" | 3-1/8" (80mm) | Illuminating, Class 1, 1% |
| M2-22231 | CCLE-60" | 3-1/8" (80mm) | Illuminating |
| M2-22244 | CCLS-60" | 3-1/8" (80mm) | Illuminating |

| R22 | R134A | 404A | |
|-----------|---------------|-----------------|---------------------------|
| 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 | CCLE-60" | 2-1/2" (63.5mm) | Standard |
| M2-21131B | CCLE-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 | CCLE-60" | 3-1/8" (80mm) | Illuminating, Class 1, 1% |
| M2-22131 | CCLE-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 |



M2-23125

| 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 | CCLE-60" | 2-1/2" (63.5mm) | R410A Only |
| M2-21531B | CCLE-60" | 2-1/2" (63.5mm) | R410A Only w/boots |
| M2-22531 | CCLE-60" | 3-1/8" (80mm) | R410A Only |
| | | | |
| | | | |

| 1140/A | 117220 | 11427 A | |
|----------|---------------|---------------|----------------|
| 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 | CCLE-60" | 3-1/8" (80mm) | Illuminating |

Additional manifold gauge options, refrigerant combinations and accessories available on page 29. KOBRA hose options available begin on page 31. Manifold rebuild kits and repair parts on page 78. * Silver metal handles available; order M2-8-410AM or M2-5-410AM.

JUST BETTER SINCE 1967 | HVAC TOOLS, VALVES AND FITTINGS

M2 Heat Pump Manifold

2-Valve Forged Brass Body

- 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

410A

GAUGE SIZE

3-1/8" (80mm)

3-1/8" (80mm)

3-1/8" (80mm)

- Includes Illuminating, Class 1, 1% metal gauges designed for 800psi to handle heat pump pressures
- Pressure/temperature scale has two sections to accommodate temperature glide on R407c
- Available with KOBRA® high pressure black hoses

R407C

HOSES

Manifold Only

CL6-60" (3)

Replacement

- Replaceable, durable hanging hook and intake/hose holder fittings
- 1 year warranty; lifetime on bar

R22

PART NO.

M2-HP

M2-HP-5

M2-808



M2-HP

Metric Manifolds

Gauge



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.

AUGE FEATURES Illuminating,

Class 1, 1% Illuminating,

Class 1, 1%

Illuminating,

Class 1, 1%

| DESCRIPTION | | M2 BRAS | S | 2-VA | LVE ZEPP | ELIN® | 4-VA | LVE ZEPP | ELIN® | RE | FRIGERAM | ITS |
|----------------------------|---------|---------------------|------------------------|---------|---------------------|------------------------|------------------|---------------------|------------------------|------------|-----------------|-------------|
| DESCRIPTION | BAR/PSI | kPa/PSI | Kg/cm² | BAR/PSI | kPa/PSI | Kg/cm² | BAR/PSI | kPa/PSI | Kg/cm2 | R22 | R404A | R410/ |
| Manifold Only | 28592 | 28292 | 28192 | 28752 | 28852 | 28952 | 27752 | 27852 | 27952 | • | • | • |
| CCLE-60" (152cm) | 28596 | 28296 | 28196 | 28754 | 28854 | 28954 | 27754 | 27854 | 27954 | • | • | ٠ |
| CCLS5-60 (152cm) | 28597 | 28297 | 28197 | — | — | _ | _ | _ | _ | • | • | ٠ |
| CCLBV KOBRA® | 28599 | 28299 | 28199 | 28759 | 28859 | 28959 | 27759 | 27859 | 27959 | • | • | ٠ |
| DESCRIPTION | BAD/DÊL | M2 BRASS kPa/PSI | S Kg/cm² | | LVE ZEPP kPa/PSI | ELIN® Kg/cm² | | LVE ZEPP kPa/PSI | ELIN® Kg/cm2 | RI R12 | FRIGERAN R22 | NTS R502 |
| Manifold Only | 28572 | 28272 | 28172 | 28772 | 28872 | 28972 | 27772 | 27872 | 27972 | • | n22 | n 902 |
| 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 BRAS | | | LVE ZEPP | | | LVE ZEPP | | | FRIGERAN | |
| Manifold Only | 28582 | kPa/PSI 28282 | Kg/cm² 28182 | 28782 | kPa/PSI 28882 | Kg/cm² 28982 | BAR/PSI 27782 | 27882 | Kg/cm2 27982 | R134A • | R404A | R507 |
| CCL-36" (91cm) | 28580 | 28280 | 28180 | 28780 | 28880 | 28980 | 27780 | 27880 | 27980 | • | • | • |
| CCL-60" (152cm) | 28584 | 28284 | 28184 | 28784 | 28884 | 28984 | 27784 | 27884 | 27984 | • | • | • |
| CCLE-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 | • | • | • |
| | 20000 | M2 BRAS | | | LVE ZEPP | | | | | REFRIG. | | S |
| DESCRIPTION | BAR/PSI | kPa/PSI | | | kPa/PSI | | | kPa/PSI | | R134A | | |
| Manifold Only | 28502 | 28202 | 28102 | 28732 | 28832 | 28932 | | — | | • | | |
| CCL-36" (91 cm) | 28505 | 28205 | 28105 | 28735 | 28835 | 28935 | _ | _ | _ | • | | |

Additional manifold gauge options, refrigerant combinations and accessories available on page 29. KOBRA hose options available begin on page31. Manifold rebuild kits and repair parts on page 78.

Refrigerant Scales

RUEWB

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 mail 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

Specifications

| Capacity | 250lb (115kg) |
|-----------------------|--------------------------------------|
| 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 |
| Bluetooth® Range | 300ft (92m) |
| | |





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/10gm)
- 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 |
|-----------------------|
| Usage |
| Operating Temperature |
| Storage Temperature |
| Humidity |
| Power Supply |
| Battery Life |

220lb (100kg) Indoor/outdoor +32°F to 122°F (0°C to +50°C) +14°F to 140°F (-10°C to +60°C) 85% RH @113°F (45°C), non-condensing One 9v battery (included) Approximately 60 hours



Weighing platform

DSR-30

Gauges

MADE

LED Gauges

• 3-1/8" Metal gauges for use with R22, R404A and R410A

MADE

MADE

- On/off rocker switch; 250+ Hour battery life
- 3v Lithium coin cell battery (included)
- Available in convenient 8-pack counter display as M2-LED8PK



| 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 and Lenses

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



| 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 |

Natural Gas Gauges

- Natural gas gauges for hydrocarbon refrigerants R290, R600Å, and R32
- 3-1/8" Illuminating, Class 1, 1% metal gauges with high impact clear view Lexan lens
- Full size brass movements
- See page 21 for manifold pairings



| PART NO. | DESCRIPTION |
|----------|---|
| M2-600 | 3-1/8" Compound, Illuminating, Class 1, 1% |
| M2-605 | 3-1/8" Pressure, Illuminating, Class 1, 1% |





Gauge Options



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



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





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

M2-924CM 3-1/8" Illuminating, Class 1, 1%





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

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





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

Gauge Options

MADE

Gauges

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.

| PAR | T NO. | 0175 | DECODIDITION | | | | | | | REF | RIGERA | NTS | | | | | | |
|----------|----------|-----------------|---------------------------------|-----|-----|-----|-------|-------|-------|-------|--------|-------|-------|-------|-------|------|-------|-------|
| COMPOUND | PRESSURE | SIZE | DESCRIPTION | R12 | R22 | R32 | R134A | R438A | R-290 | R404A | R407A | R407C | R410A | R422B | R427A | R502 | R507A | R600A |
| M2-250 | M2-500 | 2-1/2" (63.5mm) | Non-illuminating, Standard | ٠ | • | | | | | | | | | | | • | | |
| 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 | • | • | | | | | | | | | | | ٠ | | |
| 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, Class 1, 1% | ٠ | • | | | | | | | | | | | ٠ | | |
| M2-880 | M2-885 | 3-1/8" (80mm) | Liquid Filled, Class 1, 1% | | • | | • | | | • | | | | | | | | |
| M2-890 | M2-895 | 3-1/8" (80mm) | Liquid Filled, Class 1, 1% | | • | | | | | • | | | • | | | | | |
| M2-924 | M2-925 | 3-1/8" (80mm) | Illuminating, Class 1, 1% | | • | | | | | • | | | • | | | | | |
| M2-924CM | M2-925CM | 3-1/8" (80mm) | Illuminating, Class 1, 1%, Camo | | • | | | | | • | | | • | | | | | |
| 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 | | • | | • | | | • | | | | | | | | |

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

Metric Gauges

| C | OMPOUN | D | REFRIGERANTS | | | | | | | | |
|---------|--------|--------------------|--------------|-----|-------|-------|-------|------|-------|--|--|
| BAR/PSI | K/PSI | KG/CM ² | R12 | R22 | R134A | R404A | R410A | R502 | R507A | | |
| 29310 | 29311 | 29312 | | • | | • | • | | | | |
| 29333 | | | | • | • | • | | | | | |
| 29290 | | 29292 | | | • | • | | | • | | |
| 29280 | 29260 | 29384 | • | • | | | | • | | | |
| 29330 | 29331 | 29332 | | | • | | | | | | |

| | PRESSURE | | REFRIGERANTS | | | | | | | | |
|---------|----------|--------------------|--------------|-----|-------|-------|-------|------|-------|--|--|
| BAR/PSI | K/PSI | KG/CM ² | R12 | R22 | R134A | R404A | R410A | R502 | R507A | | |
| 29315 | 29316 | 29317 | | • | | • | • | | | | |
| 29338 | | | | • | • | • | | | | | |
| 29295 | | 29297 | | | • | • | | | • | | |
| 29285 | 29263 | 29385 | • | • | | | | • | | | |
| 29335 | 29336 | 29337 | | | • | | | | | | |

MADE :

CNTL90 Series

2mm Pressure Control Hose

Pressure control hose is constructed of a inner core of polyamide and the outer cover is 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 these higher pressure and eliminate the vibration failures of copper capillary tube installations. The higher temperature ratings up to 266°F eliminate the failures caused by maximum loads on rubber hoses.

- Highly flexible; extremely short bending radius; 2mm ID
- Suitable for all non-corrosive refrigerants including natural 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 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 | | |

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.

- · Highly flexible; extremely short bending radius; 2mm ID
- Suitable for all non-corrosive refrigerants including natural 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



JB INDUSTRIES • Product Catalog 53 • 800.323.0811 • sales@jbind.com

MADE

Refrigerant Hoses

CLSX Series KOBRA® Secure Seal Hose

- 800 psi working; 4000 psi burst
- Larger fitting for increased flow
- UL approved for R410A

Replaceable Head

Rebuild Kit

- 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



CLSX-RH

CLSX-RK

CLSX Series Repair Instructions Easily Replace/Repair Head with Basic Tools

Replace Head CLSX-RH

- Attach 3/8" wrench to the flats of the head base. Use an adjustable wrench on hex of the barb, and turn counter clockwise 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.
- 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

clockwise to remove the head.

head base. Use an adjustable wrench on hex of the barb, and turn counter





















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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 metal and nylon thrust

- Remove the metal and nylon thrust washers.
- 4. Stabilize slot at base of cup assembly with straight-edge and using a 3/8" wrench, turn counter clockwise to detach end cap from cup assembly. Remove and replace end cap o-ring.
- 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 metal and nylon 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.

MADE

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



| CLS SERIES K | (OBRA _® 1/4") | X 1/4" SECUR | E SEAL HOSI | E (PSI 800/40 | 00) |
|--------------------|---------------------------|---------------|-------------|-----------------|-----------------------------------|
| 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" SEC | URE SEAL H | OSE* (PSI 80 | 0/4000) |
| 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

- 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.
- 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.
- 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 boss on the back side of the depressor.
- 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.
- 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.

















*B/Y/R 3 pack for CLS5 Series includes 5/16" blue and red hose with 1/4" yellow hose.

MADE

CLE Series KOBRA® Gasket Seal Hose

MADE :

eal 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

25' (7.6m)

50' (15.2m)

75' (22.8m)

100' (30.5m)

LENGTH

36" (91cm)

60" (152cm)

72" (182cm)

CLE-300B

CLE-600B

CLE-900B

CLE-1200B

CLE5-36B

CLE5-60B

CLE5-72B

CLE-300Y

CLE-600Y

CLE-900Y

CLE-1200Y

CLE5-36Y

CLE5-60Y

CLE5-72Y

BLUE YELLOW 1/4" x 5/16" 1/4" x 5/16"

CLE5 SERIES KOBRA® 1/4" X 5/16" GASKET SEAL HOSE PSI 800/4000)

CLE-300R

CLE-600R

CLE-900R

CLE-1200R

RED 1/4" x 5/16"

CLE5-36R

CLE5-60R

CLE5-72R

B/Y/R 5/16" x 5/16"

CCLE55-36

CCLE55-60

CCLE55-72

BLUE/RED:

1/4" x 5/16" YELLOW: 1/4" x 1/4" 3 PACK

CCLE5-36

CCLE5-60

CCLE5-72



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, exuding more outward force and pushing the gasket further into place
- Depressor is precisely machined for maximum flow and has a dimple that guides the valve core into place

CLBV SERIES

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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" | | | | | |

| 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 | |

MADE :

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



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 80 | 0/4000) | |
| 1/4" x 6" | CLV-6B | CLV-6Y | CLV-6R | CCLV-6 | CLV-6BL |
| 3/8" x 6" | | CLV6-6Y | | | CLV6-6BL |
| CLP SERIES K | CLP SERIES KOBRA $_{\odot}$ 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 | | CI6 | -72Y |
| CLV5 AND CCLV5 SERIES KOBRA® W/BALL VALVE WHIP END 1/4" X 5/16" (PSI 800/4000) | | | | | |
| CLV5 AND CC (PSI 800/4000 | LV5 SERIES | | • · - | | |
| CLV5 AND CC (PSI 800/4000 LENGTH | LV5 SERIES | KOBRA® W/ | • · - | | |
| (PSI 800/4000 | LV5 SERIES) BLUE/RED: 1 YELLOW: 1/4 | KOBRA® W/ | BALL VALVE | WHIP END 1/ Yellow | 4" X 5/16" RED |
| (PSI 800/4000 Length | LV5 SERIES) BLUE/RED: 1 YELLOW: 1/4 3 PACK | KOBRA® W/ | BALL VALVE | WHIP END 1/ Yellow | 4" X 5/16" RED |

Heavy-Duty Series 1/4", 3/8" and 1/2" Heavy-Duty

• 1/4": 800 psi working; 4000 psi burst

- 3/8": 800 psi working; 4000 psi burst
- 3/8 : 800 psi working; 4000 psi burst
 1/2": 640 psi working; 3200 psi burst
- 1/2 . 040 psi working, 3200 psi bursi
- Heavy-duty charging hose reduces permeation
- Straight fittings by straight fittings





MADE

| HEAVY-DUTY BLACK CHARGING (PSI 1/4", 3/8" 800/4000, 1/2" 640/3200) | | | | | |
|--|-------------------------------|---------------|-------------------------------|----------------------|--|
| LENGTH | BLACK (1/4" X 1/4") | BLACK (3 | 3/8" X 3/8") | BLACK (1/2" X 1/2") | |
| 36" (91cm) | CL4HD-36 CL6HD-36 | | HD-36 | CL2HD-36 | |
| 48" (122cm) | CL4HD-48 CL6HD-48 | | CL2HD-48 | | |
| 60" (152cm) | CL4HD-60 |)-60 CL6HD-60 | | CL2HD-60 | |
| 72" (182cm) | CL4HD-72 CL6 | | HD-72 | CL2HD-72 | |
| HEAVY-DUTY BLACK EVACUATION/CHARGING HOSE (PSI 800/4000) | | | | | |
| LENGTH | BLACK (3/8") | | B | BLACK (1/2") | |
| 60" (152cm) | CL64-60 (1/4" x 3/8" fitting) | | CL84-60 (1/4" x 1/2" fitting) | | |

KOBRA® Hose Construction

- Kevlar lined for strength and flexibility
- All brass fittings open to maximum flow
- No blow-outs at high pressures
- UV protective bag to prevent color fading
- Hose fittings field repairable with replacement parts and rebuild kits
- Provides an industry superior 5-to-1 safety factor
- Custom lengths and fittings available; contact customer service







Permeation

Even with the advanced technology of today's hoses, permeation through the hose compound still exists.

Only the finest materials available are used to manufacture JB hoses to ensure a minimum amount of permeation (seepage or diffusion) of the refrigerant through the hose. KOBRA® hoses are designed as transfer lines for all refrigerants (except ammonia), nitrogen, and refrigerant oils.

When checking pressure rise, the atmosphere will permeate to the lower pressure in the hoses and the micron reading will slowly rise.



Flexible Metal Hose

- 900 psi working; 3500 psi burst
- Unlike charging hoses, flexible metal lines will not permeate under vacuum

MADE

• Metal lines feature finger-tight o-ring coupler ends



3/8" Replacement o-ring (10 pack)

P90012

Secure Seal Adapters Image: Seal Adapters

Mini-Split Tool Kits

JUST BETTER SINCE 1967 | HVAC TOOLS, VALVES AND FITTINGS

B

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MSKIT1 and MSKIT2

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 tool box.

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

MSKIT 3

| MSKIT1 (1/4") AND MSKIT2 (5/16") BACKPACK | | | | |
|---|----------|--|--|--|
| MSKIT1 | MSKIT2 | DESCRIPTION | | |
| 22500 | 22505 | PATRIOT™ manifold with R410A gauges | | |
| 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 | 5 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 | | |
| TRQ1080 | | Torque wrench set with 6 spanner heads | | |
| JB-BACKPACK1 | | JB backpack (40 pockets) | | |

| MSKIT3 TOOLBAG (1/4" AND 5/16") | | | |
|---------------------------------|--|--|--|
| PART NO. 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 | | |
| 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 Tool Kits

Mini-Split Kit Product Descriptions



22500 1/4" | 22505 5/16"

PATRIOT™ manifold with surge dampened R410A gauges and 360° swiveling hose holders



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" and 3/4"



T30605 Metric (2-8mm) and Imperial (5/64" - 1/4") hex key sets

Additional Accessories



MADE .

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

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

A32525N 1/4" | A32535N 5/16"

Valve core remover tool with side port

for removing valve cores without losing

system charge



TRQ1080

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



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

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



NFT5-4 1/4" | NFT5-5 5/16" Five finger-tight 1/4" o-ring sealed brass caps



A31656 1/4" | A31665 5/16" male Brass adapters for 5/16" - 1/4" SAE connections



JB-BACKPACK1 Heavy-duty canvas JB backpack





TRQ-IMP

Torque wrench imperial heads for TRQ1080 (5/8", 13/16" 15/16", 1-1/8")

SHIELD_® Locking Caps

SHIELD®

MADE In USA

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

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-G4 1/4" 4 Pack (R22)



SHLD-P4 1/4" 4 Pack (R410A)





ALER DESIGN AWARDS



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) |
| PA | RT NO. | | | DESCRIPTION |
| SHLD-CJ | | | Empty stora | ige jar holds 150 SHIELD® caps |
| SHLD-SLU20 | | | Universal (b | black) SHIELD® sleeves (20 pack) |
| SHLD-SLG20 | | | R22 (green) | SHIELD _® sleeves (20 pack) |
| SHLD-SLP20 | | | R410A (pin | k) 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 2 bits |
| SHLD-COMBO | -DRIVER | | SHIELD _® 3' | ' and 8" drivers with 2 bits |
| SHLD-MULTI | | | Universal Ic Novent _® , ar | ocking cap key for SHIELD⊛, nd C&D Valve™ locking caps |

CoreMax®

CoreMax®

MADE IN USA

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, dramatically improving 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

For more information and instructional video visit jbind.com





CM-VC003 High-Flow Valve Cores

CM-S370 Seats



Valve Core Removal Tool

| 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-SNAP | SnapMate [®] Service |
| 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 an American made product.

| 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, alkalites, 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 wrot 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" |





Valve Core Pin Location

MADE

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







Copper Braze Tees

Copper Access Unions







Copper Tube Extension Single Step

• For use with sil-phos alloy and copper fittings

- Includes cap (NFT5-4) and valve core, 1/4" ID
- Generous counter bore 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

A32818

2

1-1/8"

• All pipe connections have internal braze cups for dip tube applications

Note: OD x ID sizes are for copper tube extension



A31004



MADE

431004

| 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-phos alloy and copper fittings
- Includes cap (NFT5-4) and valve core, 1/4" ID
- Generous counter bore 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 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 |



41

Copper Braze Tee

MADE -In USA -

Adjustable

- · Bend, cut, flare, swage or pinch; extra depth slip fit braze cups
- Simple installation anywhere along the line
- Use sil-phos alloy only



A31134

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

MADE : In USA :

- Includes cap (NFT5-4) and valve core
- Install valve in any position
- Connecting line size for ODS and ODF external tube ends
- Use sil-phos alloy only



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

- Braze cup ends
- Simple installation anywhere along the line
- Use sil-phos alloy only



| 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)



AVK-001

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

MADE

Bulk Fitting Jar

Best selling access valves packaged in aconvenient display jar



| 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 |

JUST BETTER SINCE 1967 | HVAC TOOLS, VALVES AND FITTINGS

Access Valves



*Core pre-torqued to AHRI

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|--|--|
| Forged Brass Image: base Braze Tee Image: base Image: base Image: base | Flared Tube Connection |
| 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 Brass Brass 5/16" ODS x 5/8" ODF | 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 Image: |



MADE :

MPT Tee

| 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 |

Flare MADE : **Connection and Flare Fitting Adapter**



| 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-toraued to AHRI | | | |

MADE IN 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 | |



A31720

| 1 | 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 |

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 product life

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 product life

VACUUM

RATED



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 and protects the vacuum gauge with the slide valve side port CRIPTION

| PART NO. | DESC |
|-----------|---|
| A32525SVT | Valve Core Removal Tool with S Setting; 3 to 5 in-lb |
| P325 | Replacement o-rings |

P/

Slide Valve Side Port and Torque

Vacuum Rated Valve Core Removal Tool with Access Port

MADE IN USA

Preset torque to 5 in/lbs for precise torquing of core valves

Valve Core Torque Tool

• Works with all standard valve cores



| 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



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

 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



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" rep | 1/4" and 5/16" replacement gaskets for A32525N (1 each) | | |

Valve Cores and Tool

MADE :

- 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)



| 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 |

Caps and Couplers

Quick Seal Ö-Ring Caps

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



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 |
| NFT5-6-100 | 100 | 3/8" SAE cap |
| P90010 | 10 | Replacement 1/4" o-ring |
| P90011 | 5 | Replacement 5/16" o-ring |

Quick Seal Gasket Caps

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



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 |

E-Z Tapper

• Backseating stem eliminates line restriction when servicing through access port or when using the valve for flow control

MADE



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 |

Backseating Control Valve MADE

- · 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



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



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

O-Ring Seal MADE **Line Piercing**

- · Spring loaded needle automatically backseats, forming a leak proof seal
- Simple installation that is 100% restriction-free



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

MADE

Wrench **Style Seal Cap**

- For A/C refrigeration service
- Brass-to-brass positive seal and permanent installation



A31986

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





A31992

| 1 | PART NO. | QTY. | DESCRIPTION | |
|--------|------------|------|---------------------------------|--|
| | A31992 | 5 | 1/4" SAE cap | |
| 10.000 | A31992-100 | 100 | 1/4" SAE cap | |
| | 13493 | 2 | Plastic cap with retainer strap | |
| | 13494 | 1 | Plastic cap | |

Caps and Couplers

| QC An Adapt | gled er 45° | MADE I |
|-----------------------|--|--------------------------------|
| | | |
| | QC-S45-45 | |
| PART NO. QC-S45-45 | DESC 5/16" Female x 1 Angled Adapter 4 | RIPTION /4" SAE Male 15° |
| QC Elb | WO | MADE |



QC-E3

| PART NO. | DESCRIPTION |
|----------|---|
| QC-E3 | 3/16" QC x 1/4" SAE elbow |
| 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-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 SAE Female Adapter MADE :



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 |





MADE

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 | |

QC Access Tee MADE

- O-ring seal guick coupler
- Includes cap and valve core



A34000

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





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JUST BETTER SINCE 1967 | HVAC TOOLS, VALVES AND FITTINGS

Caps and Couplers

O-Rings/Gaskets Replacement Parts

MADE In USA



P90009



P90010



P90012



P90016

| PART NO. | QTY. | DESCRIPTION |
|----------|------|--|
| P509 | 6 | 1/4" Gasket for quick couplers, gasket caps (6 pack) |
| P325 | 2 | 1/4" and 5/16" replacement gaskets for A32525N (1 each) |
| 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) |









P509

P511

MADE

American Made Brass

SAE 45° Flared Tube Fittings

For use with copper, brass, aluminum, steel, and plastic tube provided an acceptable flare could 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

P90514

- 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 |) 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 | | | |



SAE 45° Brass Flared Tube Fittings

MADE : IN LISA :

Swivel Female Flare x Solder Adapter





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) |

MADE



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) |

Copper Flare Bonnet

• Use with flare nut to cap fittings

Copper Flare MARE Gasket

• For brass-to-brass or brass-to-steel connections to prevent leaks



B1-3

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



B2-3

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



• For brass-to-brass or brass-to-steel connections to prevent leaks



ES2-44

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

Flare x

MADE :

Brass Fittings

MADE :

Flare x Male Pipe Ell



E1-12E

| PART NO. | SIZE | QTY. |
|----------|--------------|------|
| E1-2A | 1/8" x 1/8" | 5 |
| E1-3A | 3/16" x 1/8" | 2 |
| E1-4A | 1/4" x 1/8" | 10 |
| E1-4B | 1/4" x 1/4" | 10 |
| E1-4C | 1/4" x 3/8" | 5 |
| E1-5A | 5/16" x 1/8" | 5 |
| E1-5B | 5/16" x 1/4" | 5 |
| E1-5C | 5/16" x 3/8" | 5 |
| E1-6A | 3/8" x 1/8" | 5 |
| E1-6B | 3/8" x 1/4" | 10 |
| E1-6C | 3/8" x 3/8" | 10 |
| E1-6D | 3/8" x 1/2" | 5 |
| E1-6E | 3/8" x 3/4" | 2 |
| E1-8B | 1/2" x 1/4" | 5 |
| E1-8C | 1/2" x 3/8" | 5 |
| E1-8D | 1/2" x 1/2" | 10 |
| E1-8E | 1/2" x 3/4" | 2 |
| E1-10C | 5/8" x 3/8" | 2 |
| E1-10D | 5/8" x 1/2" | 2 |
| E1-10E | 5/8" x 3/4" | 2 |
| E1-12D | 3/4" x 1/2" | 2 |
| E1-12E | 3/4" x 3/4" | 2 |



Female Pipe Ell

E3-5B

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

E2-2

Flare Ell

MADE :

| SIZE | QTY. |
|-------|--|
| 1/8" | 5 |
| 3/16" | 5 |
| 1/4" | 5 |
| 5/16" | 5 |
| 3/8" | 5 |
| 1/2" | 5 |
| 5/8" | 2 |
| 3/4" | 2 |
| | 1/8" 3/16" 1/4" 5/16" 3/8" 1/2" 5/8" |

Refrigerant Drum Adapter



MADE

• NPS cylinder x male flare; with fiber gasket



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



ES4-44

| PART NO. | SIZE | QTY. |
|----------|-------------|------|
| ES4-44 | 1/4" x 1/4" | 2 |
| ES4-66 | 3/8" x 3/8" | 2 |
| ES4-88 | 1/2" x 1/2" | 2 |
| ES4-1010 | 5/8" x 5/8" | 2 |
| ES4-1212 | 3/4" x 3/4" | 2 |

Female MADE Flare x Flare Ell Includes copper gasket



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



 PART NO.
 SIZE
 QTY.

 ER2-64
 3/8" x 1/4"
 5

 ER2-84
 1/2" x 1/4"
 2

 ER2-86
 1/2" x 3/8"
 5

 ER2-108
 5/8" x 1/2"
 2

Brass Fittings

JUST BETTER SINCE 1967 | HVAC TOOLS, VALVES AND FITTINGS



JUST BETTER SINCE 1967 | HVAC TOOLS, VALVES AND FITTINGS

Brass Fittings



T2-5

T2-6

T2-8

T2-10

T2-12

5/16'

3/8"

1/2"

5/8"

3/4"

5

10

5

2

2

TR2-668

TR2-886

3/8" x 3/8" x 1/2"

1/2" x 1/2" x 3/8"

2

2

5/16'

3/8"

1/2"

5/8"

3/4"

5

10

10

5

2

53

P2-5

P2-6

P2-8

P2-10

P2-12

Brass Fittings

JUST BETTER SINCE 1967 | HVAC TOOLS, VALVES AND FITTINGS

MADE :

Flare x

Solder Adapter

Furnished with copper gasket

Flare x Male MADE **Pipe Adapter** U1-12E PART NO. SIZE QTY. U1-3A 3/16" x 1/8" 5 U1-3B 3/16" x 1/4" 5 U1-4A 1/4" x 1/8" 25 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 5/16" x 1/8" 5 U1-5B 5/16" x 1/4" 5 U1-5C 5/16" x 3/8" 5 U1-6A 3/8" x 1/8" 10 U1-6B 3/8" x 1/4" 10 U1-6C 3/8" x 3/8" 10 U1-6D 3/8" x 1/2" 10 U1-6E 3/8" x 3/4" 5 U1-8A 1/2" x 1/8" 2 U1-8B 1/2" x 1/4" 5 U1-8C 1/2" x 3/8" 10 U1-8D 1/2" x 1/2" 10 U1-8E 1/2" x 3/4" 5 5/8" x 1/4" U1-10B 5 U1-10C 5/8" x 3/8" 5 U1-10D 5/8" x 1/2" 10 U1-10E 5/8" x 3/4" 5 U1-12C 3/4" x 3/8" 2 U1-12D 3/4" x 1/2" 2 U1-12E 2 3/4" x 3/4"

Flare x Female Pipe Adapter



U3-10E

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



MADE :

US3-1214

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



7/8" x 3/4"

2

U1-14E

| T3-4A | 1/4" x 1/8" x 1/4" | 5 |
|--------|----------------------|---|
| T3-4B | 1/4" x 1/4" x 1/4" | 5 |
| T3-5B | 5/16" x 1/4" x 5/16" | 2 |
| T3-6B | 3/8" x 1/4" x 3/8" | 5 |
| T3-6C | 3/8" x 3/8" x 3/8" | 2 |
| T3-6D | 3/8" x 1/2" x 3/8" | 2 |
| T3-8C | 1/2" x 3/8" x 1/2" | 2 |
| T3-8D | 1/2" x 1/2" x 1/2" | 2 |
| T3-10D | 5/8" x 1/2" x 5/8" | 2 |







| PART NO. | SIZE | QTY. |
|------------|------|------|
| NFT5-4-101 | 1/4" | 1000 |
| NFT5-6-101 | 3/8" | 500 |

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MADE :

Reducing Flare Union

Brass Fittings

Flare Union



U2-3

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



UR2-54

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

Female Flare MADE x Flare Adapter



UR3-1210

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

Female Flare MADE **x Female Flare Connector**



MADE

MADE :

Swivel **Female Flare** x Solder Adapter



55

Includes two copper gaskets



U4-12

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



US4-10

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



US5-1212

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

Brass Fittings

MADE

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 | NOM. PIPE THD. / IN. NOM. PIPE | | | |
| 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



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

Female Flare x Female Pipe Adapter

Includes copper seal gasket



U5-4B

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

Female Flare Male x Male Pipe Adapter



U6-4B

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





MADE

Long Nipple

113-D35

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

Compression Break-Off Sleeve Pilot Nut



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

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Brass Fittings

MADE :

Hex Brushing (R1)



110-EA

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



116-D

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

MADE :

EII



100-E

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



122-E

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

Coupling PC

MADE In USA



103-E

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







112-B

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



121-C

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





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101-E

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

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 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.



Shutoff Ball Valves

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

Needle Ball Valves

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

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



DESCRIPTION

DADT NO

| FANT NO. | DESCHIFTION |
|----------|-----------------------------------|
| V34900 | 1/8" Female NPT x 1/8" Female NPT |
| V34901 | 1/4" SAE x 1/8" MPT |
| V34905 | 1/4" SAE x 1/4" MPT |
| V34910 | 3/8" Female NPT x 3/8" Female NPT |
| | |



NV62-4

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



| PART NO. | DESCRIPTION | | | | |
|----------|--|--|--|--|--|
| MBV4-03 | 1/4" Compact mini ball valve set (3 pack) | | | | |
| MBV4-01 | 1/4" Compact mini ball valve | | | | |
| 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 | | | | |
| P511 | Replacement Gasket | | | | |

JUST BETTER SINCE 1967 | HVAC TOOLS, VALVES AND FITTINGS

Ball Valves

Refrigerant Ball Valves Image: State 1 to 500 psi 9 Pressure rated to 500 psi Bolted or screwed bonnets or flanges 1 Up to +500°F working temperature at 0 psi 9 psi 1 Up to +300°F working temperature at 500 psi 9 psi 9 Registered to ISO 9001 1 UL Listed 57R7 Image: Value Valu

| V34200 | V34400 | 3/8" | 3.18" | 6.09" | 0.30" | 1.55" | 3/8" |
|--------|--------|--------|-------|-------|-------|-------|----------|
| V34201 | V34401 | 1/2" | 3.18" | 6.09" | 0.45" | 1.55" | 3/8" |
| V34202 | V34402 | 5/8" | 3.43" | 6.59" | 0.50" | 1.55" | 1/2" |
| V34203 | _ | 3/4" | 3.45" | 7.27" | 0.69" | 1.89" | 3/4" |
| V34204 | V34404 | 7/8" | 3.69" | 7.07" | 0.75" | 1.83" | 3/4" |
| V34206 | V34406 | 1-1/8" | 4.20" | 8" | 1" | 2.01" | 2-9/32" |
| V34207 | V34407 | 1-3/8" | 4.54" | 8.63" | 1.25" | 2.61" | 3-1/32" |
| V34208 | V34408 | 1-5/8" | 4.47" | 8.85" | 1.50" | 2.79" | 1-3/32" |
| V34209 | V34409 | 2-1/8" | 4.84" | 9.59" | 2" | 3.17" | 1-11/32" |
| V34210 | _ | 2-1/8" | 5" | 10" | 2.43" | 3.90" | 1-31/64" |
| V34211 | _ | 3-1/8" | 7" | 14" | 2.50" | 3.90" | 1-43/64" |

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 offseting any stem packing leak.

| 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 |

E-Line Actuators

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







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For more information see jbind.com

| 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" |



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Introducing JUST BETTER TOOLS for HVAC/R industry professionals

High quality JUST BETTER TOOLS feature superior craftsmanship for dependable performance, reliability and durability you can count on—from the brand you trust. The full line of heavy-duty, high performance tools and accessories from JB Industries ensures your tool kit has everything you need to get the job done.

JUST BETTER SINCE 1967—JB Industries is dedicated to providing quality and innovative products to satisfy customer needs and serve the HVAC industry.



PLNG-JBTOOL-LG Large JUST BETTER TOOL Planogram

Large and small planogram options available for quick and easy displays.

Product literature can be downloaded at jbind.com. Contact customer service for more information.



PLNG-JBTOOL-SM Large JUST BETTER TOOL Planogram

Just Better Tools

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 |

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 and axle |

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 |

Just Better Tools

JUST BETTER SINCE 1967 | HVAC TOOLS, VALVES AND FITTINGS

IIST BETTER TOOLS

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



| 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 |

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 |

Aluminum Pipe Wrench



RT70160

| PART NO. | QTY. | DESCRIPTION |
|----------|------|--------------------------|
| RT70159 | 1 | 10" Aluminum pipe wrench |
| RT70160 | 1 | 14" Aluminum pipe wrench |
| RT70161 | 1 | 18" Aluminum pipe wrench |

Rolock Pliers

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



RT70532

| PART NO. | QTY. | DESCRIPTION |
|----------|------|-------------|
| RT70531 | 1 | 7" Rolock |
| RT70532 | 1 | 10" Rolock |
| RT70533 | 1 | 12" Rolock |

Slim Profile **CLEW/** 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 |

Machine Grooved Joint Pliers



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

H

Just Better Tools

Service Wrenches

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



T21126U

| 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 | |

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



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" |

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



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



| 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



| 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" |

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



Flare Tool

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 |

45° Flare Tool



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

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

PART NO. RT23022

DESCRIPTION

022 Maxi tube bender set for use on copper and soft aluminum 3/8", 1/2", 5/8", 3/4", and 7/8" OD



 PART NO.
 DESCRIPTION

 T30600
 Flares: 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" OD

 PART NO.
 DESCRIPTION

 RT222601
 Flare tool; adjustable from 3/16" to 5/8" OD

Just Better Tools

45° Flare/ Swage

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



| PART NO. | DESCRIPTION | | |
|----------|--|--|--|
| | Flare: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 3/4" | | |
| T20275 | Nominal Flare: 1/8", 1/4", 1/2", 5/8" | | |
| 120275 | Swage: 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" | | |
| | Nominal Swage: 1/8", 1/4", 3/8", 1/2", 5/8" | | |

Tube Expander Kit

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



| PART NO. | DESCRIPTION | |
|----------|--|--|
| RT12318 | 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 MADE

• Designed to measure all flares to provide superior seal tightness against flare fittings, a must for every toolbox.



| 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

Steel Strap

• Zinc plated with alternating 1/8" and 1/4" nail and bolt holes

MADE

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 |
|----------|-----------------|
| T2-HKA | Hex key adapter |

| R | |
|---|-------|
| | , |
| 0 | • |

| DESCRIPTION | |
|--|--|
| 10' (3m) Steel strap | |
| 25' (7.6m) Steel strap | |
| 50' (15m) Steel strap | |
| PS-100 100' (30.5m) Steel strap | |
| | |

| | • Pumps 2.6 ounces (78ml) per stroke |
|-------------------------|---|
| DESCRIPTION | PART NO. DESCRIPTION |
|) Steel strap | T30251 Oil transfer pump |
| m) Steel strap | |
| n) Steel strap | |
| 0.5m) Steel strap | |
| JB INDUSTRIES • Product | Catalog 53 • 800.323.0811 • sales@jbind.com |

Just Better Tools



- 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" | |

MADE :

Single Size Swage Tools



| 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" |



| 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" Nom. |

MADE

Braze-Rite Adapter

- For use with copper tube
- Stepped nitrogen purging adapter for HVAC/R pipe



| | BEGOM |
|-----|---|
| 000 | Braze-Rite Adapter; ACR copper tube size: 1-1/8", 7/8", 3/4", 5/8", 1/2", 3/8" |

T30605



BRZ1

Just Better Tools

SM-18 Solenoid Valve Operating Magnet

- Designed to convert electrically operated solenoid valves in to 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
- Can be used to hold a solenoid valve open during recovery and evacuation
- Can be used in place of the power head on a hot water oil shutoff valve to eliminate the need to wait for the delay on open
- Can be used to temporarily replace faulty coil to open solenoid valve
- Can be used 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

Place solenoid magnet over enclosing tube which creates a magnetic field to lift the plunder and stem assembly



Deburring Tools

• For copper and plastic tube



RT21660

| PART NO. | QTY. | DESCRIPTION |
|----------|------|---|
| RT11006 | 1 | Copper and stainless steel internal/external reamer 1/4" to 1-1/2" 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



| 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

JUST BETTER SINCE 1967 | HVAC TOOLS, VALVES AND FITTINGS

Capillary Tubing

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



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 TubeGauge 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)

Cap Tube Cutting Tool

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

Acid Brushes

• Ideal for thread sealant, flux, and paste solders

MADE



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





Capillary Tubing

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
- 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

| | PART NO. | | | | | | | | | | | | | | | | |
|--------------|----------|------------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|
| CAP TUBE ID | TC-26 | TC-31 | TC-36 | TC-42 | TC-44 | TC-49 | TC-50 | TC-54 | TC-55 | TC-59 | TC-64 | TC-70 | TC-75 | TC-80 | TC-85 | TC-90 | TC-100 |
| | (.026) | (.031) | (.036) | (.042) | (.044) | (.049) | (.050) | (.054) | (.055) | (.059) | (.064) | (.070) | (.075) | (.080) | (.085) | (.090) | (.100) |
| .024 | 1.44 | | | | | | | | | | | | | | | | |
| .025 | 1.20 | 0.04 | | | | | | | | | | | | | | | |
| .026 | 1.00 | 2.24 | | | | | | | | | | | | | | | |
| .028 | .72 | 1.59 | | | | | | | | | | | | | | | |
| .030 | .52 | 1.16 | 0.00 | | | | | | | | | | | | | | |
| .031 | .45 | 1.00 | 2.00 | | | | | | | | | | | | | | |
| .032 | | .86 | 1.75 | | | | | | | | | | | | | | |
| .033 .034 | | .75 .65 | 1.54 1.35 | | | | | | | | | | | | | | |
| .034 | | .05 | 1.35 | 2.31 | | | | | | | | | | | | | |
| .035 | | .50 | 1.00 | 2.31 | | | | | | | | | | | | | |
| .037 | | .45 | .90 | 1.79 | 2.22 | | | | | | | | | | | | |
| .038 | | .45 | .80 | 1.59 | 1.92 | | | | | | | | | | | | |
| .039 | | .35 | .71 | 1.41 | 1.75 | | | | | | | | | | | | |
| .040 | | .31 | .62 | 1.25 | 1.55 | 2.51 | | | | | | | | | | | |
| .040 | | .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 .110 | | | | | | | | | | | | | | | | .49 | .80 .65 |
| | | | | | | | | | | | | | | | | | .00 |
| .115 .120 | | | | | | | | | | | | | | | | | Contraction of the second s |
| . 120 | | | | | | | | | | | | | | | | 11 | .43 |

Automotive

R134a Automotive Couplers

MADE : IN USA :



- Safety sleeve holds coupler securely to service port
- · Color-coded knobs





• Retrofit existing SAE flare fitting for R134a auto service



QC-13445-134a

MADE

QC-S4A-134a

MADE

| 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 |

| PART NO. | QC GASKET | DESCRIPTION |
|---------------|-----------|---------------------------------|
| 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

Service Valve

• 1/2" ACME x 1/8" NPTF with cap

1/2" ACMEThread Half Union

AC-13430

Automotive Oil Tap Tube

AC-15530

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



AF-13457

| 1 | PART NO. | DESCRIPTION |
|--------|----------|-----------------|
| 11111 | AF-13450 | 1/8" NPTF |
| 11111 | AF-13451 | 1/4" NPTF |
| 1000 | AF-13452 | 3/8" NPTF |
| 111111 | AF-13455 | 1/4" Female SAE |
| 1.111 | AF-13457 | 3/8" Female SAE |





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

JUST BETTER SINCE 1967 | HVAC TOOLS, VALVES AND FITTINGS

MADE

LA-CO Products

Cool GelTM

Heat Barrier Spray

- Prevents heat damage during soldering, brazing, and welding
- Safe, non-toxic and odorless

Bloc-It®

Heat Absorbing Paste

• Protects against damage caused by heat from soldering brazing and welding

MADE

MADE

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)



Valve Action™

Paint Marker Lead-free, weather, water, UV-resistant paint marker dries in three minutes

- For use with on metal, wood, glass, plastic, rubber, cardboard, and paper
- Marking range -50°F to 150°F (-46°C to 66°C)



| 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 |



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

Pipetite-Stik®

• For use with water, steam, air, natural gas, and LP gas

MADE

- 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





| PART NO. | QTY. | DESCRIPTION |
|----------|------|---------------------------------|
| 11511 | 24 | Bloc-It _® 10oz tubes |
| 11511 | 24 | 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.



42019 12 Slic-Tite_® 8oz bottles

LIMITED WARRANTY

All JB Industries, Inc. products are warrantied against defects in materials and workmanship for a period of 12 months from the date of purchase with the following exceptions:

| • Leak Detectors (LD-5000, LD-3000, LDC-4000 |): 2 years |
|---|---|
| • ATLAS® Scales (DS-20000,DS-20000S): | 2 years |
| • CO2 Manifold (30744): | 3 years |
| • Recovery: | |
| F6-DP F6-B00ST | 3 years OTC ? year OTC |
| • Vacuum Pumps: | |
| PLATINUM® PLATINUM® FLEX ELIMINATOR® Rebuilt Vacuum Pumps Out of Warranty Vacuum Pump Repairs | 2 years OTC 1 year OTC 2 years OTC 6 months 90 days |

JB products are guaranteed when used in accordance with guidelines and recommendations. Warranty is limited to the repair, replacement, or credit at invoice price, (our option) of products which, in our opinion, are defective due to workmanship and/or materials. In no instance will we allow charges for labor, expense or consequential damage. Repairs performed on items out of warranty will be invoiced on a nominal basis; contact wholesaler for details. Additional product warranty information available online 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 products, 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, express 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 product 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. products 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: AApplies ONLY to newly purchased F6[™] Refrigerant Recovery Unit (3 year OTC), PLATINUM[®] Vacuum Pumps (2 year OTC), ELIMINATOR[®] Vacuum Pumps (2 year OTC) and PLATINUM[®] FLEX Vacuum Pumps (1 year OTC). OTC Warranty is limited to manufacturing defects and is VOID if the problem has been determined to be caused by abuse or misuse.

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 products are designed for use by technically trained HVAC/R service engineers only. Due to the high pressures encountered in all systems that manifolds will be used on, plus the dangers due to the physical and chemical nature of refrigerants and oils present in all systems, misapplication could result in injury or death.

RETURN FOR REPAIR

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

Ensure that all returned products 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 product 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. Product returns for repair will not be accepted without an RGA number from JB Industries.

Contact Customer Service for RGA number:

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

Products should be shipped with freight prepaid to:

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

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Warranty and Returns

Over-the-Counter (OTC) Warranty: Applies ONLY to newly purchased F6[™] Refrigerant Recovery Unit (3 year OTC), PLATINUM_® Vacuum Pumps (2 year OTC), ELIMINATOR_® Vacuum Pumps (2 year OTC) and PLATINUM_® FLEX Vacuum Pumps (1 year OTC). OTC Warranty is limited to manufacturing defects and is VOID if the problem has been determined to be caused by abuse or misuse.

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 warrantied 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 product 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.

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.

PLATINUM® **Vacuum Pump Repair** DV-42N through DV-285N Series





PLATINUM® **Vacuum Pump Repair** DV-42N through DV-285N Series

| | DLA | TINUM® SERIES REPAIR PARTS – ALL MODELS | | | | |
|---------|------------------|--|--|--|--|--|
| REF.NO. | PLA 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) | | | | |
| | PR-78 | Angled intake tee with caps | | | | |
| 10 | PR-66 | Intake tee cross with caps | | | | |
| 11 | NFT5-4 | 1/4" O-ring, cap | | | | |
| | NFT5-6 | 3/8" O-ring, cap | | | | |
| 12 | NFT5-8 | 1/2" O-ring, cap | | | | |
| 14 | PR-209 | Plastic isolation valve handle and screw w/stem, O-rings and retainer (not interchangeable w/PR-210) | | | | |
| | PR-208 | Flexible coupler* 1-1/2"(Start of 1995) 2-1/2" (Prior to 12/1994)* | | | | |
| 15 | PR-308 | Flexible section only 7/8"; use w/PR-208 flexible coupler* | | | | |
| 15 | 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 | | | | |
| 19 | PR-58 | Line cord (Emerson motor) new style | | | | |
| 20 | PR-54 | Rocker switch w/wire leads (Emerson) models since 2004 | | | | |
| | PR-607 | FLEX motor | | | | |
| 21 | PR-206 | 1/2 Hp, 115v, 60 Hz Motor w/line cord and switch | | | | |
| 21 | PR-207 | 1/2 Hp, 115/230v, 50/60 Hz Dual Voltage Motor (not shown) | | | | |
| | PR-307 | 1/2 Hp, 115/230v, 50/60 Hz Spark Proof 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) | | | | |
| | PR-75 | Cushioned handle w/lift ring 1/2" NPT and DV-EP-8 as of 2008 | | | | |
| 26 | 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 | | | | |
| 00 | PR-500 | Cushion and cap 3/8" NPT | | | | |
| 30 | PR-501 | Cushion and cap 1/2" NPT | | | | |
| | PR-601 DV-EP6 | Cushion and cap FLEX Tethered safety cap 3/8" NPT (prior to 2008) | | | | |
| 31 | DV-EP6 | Tethered safety cap 3/8 NPT (prior to 2008) | | | | |
| | DULIU | | | | | |

| $\ensuremath{PLATINUM}_{\otimes}$ 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 | | |
| | PR-302 | DV-42N and DV-85N Cartridge w/o-rings and cover seal | | |
| 4 | PR-303 | DV-142N Cartridge w/o-rings and cover seal | | |
| 4 | 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 | | |
| 20 | PR-35 | Rocker switch w/prongs (Marathon 1101-0105) | | |
| 29 | PR-62 | R-62 Pump base (includes feet); fits all pumps with serial #0101 and higher | | |
| PLATI | NUM _® SERIES | S REPAIR PARTS – MANUFACTURED BEFORE JANUARY 2001 | | |
| 5 | PR-217 | Cover seal | | |
| 8 | PR-215 | Trap o-ring, intake | | |
| 14 | PR-210 | Metal isolation valve handle and screw | | |
| | PLATINUM _® SERIES REPAIR PARTS – NOT SHOWN | | | |
| PR-18 | Cartridge valve repair kit (includes DV-285N as of 2007 models) | | | |
| PR-52 | DV-285N Cartridge valve repair kit (prior to 2007 models) | | | |
| PR-45 | Pump repair kit PR-1, PR-59 (4), PR-42, PR-208 | | | |

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

MADE : In USA :





Current chrome cover will fit older black ELIMINATOR models

Black hammertone cover no longer available

| REF.NO. | ELIN Part No. | NINATOR SERIES REPAIR PARTS DESCRIPTION | | | | |
|-----------|------------------|--|--|--|--|--|
| 1 | PART NO. 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 | | | | |
| | PR-403 | DV-3E Cartridge complete w/o-rings and cover seal | | | | |
| 4 | 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 | | | | |
| | PR-208 | 2-1/2" Flexible coupler* | | | | |
| 8 | PR-308 | 7/8" Middle section; used w/PR-208 2-1/2" Flexible coupler* | | | | |
| 0 | PR-6 | 2-1/4" Flexible coupler* | | | | |
| | 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 | | | | |

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

| | ELIMI | NATOR 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) | | |
| | PR-307 | 1/2 Hp, 115/230v, 50/60 Hz Spark Proof Motor (not shown) | | |
| 12 | PR-31 | 6' Line cord (Emerson® motor) | | |
| 12 | PR-58 | 6' Line cord (Marathon⊛ motor) | | |
| 13 | PR-35 | Rocker-switch 115v Marathon Motor (prongs) | | |
| 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 | | |
| 47 | PR-500 | 3/8" Rubber grip and 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 | | |
| 00 | DV-EP6 | 3/8" Red tethered safety exhaust cap | | |
| 20 | DV-EP8 | 1/2" Red tethered safety exhaust cap | | |
| 04 | PR-205 | 3/8" Cushioned handle | | |
| 21 | PR-65 | 1/2" Cushioned handle | | |

Repair Parts

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 product and cause injury $\label{eq:result}$

| | 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® Brass Series



| ZEPPELIN BRASS SERIES MANIFOLD | | | | | |
|--------------------------------|----------|----------------------|--|--|--|
| REF.NO. | PART NO. | DESCRIPTION | | | |
| 1 | MR-601 | Handwheel and screw | | | |
| 2 | U1-4A | 1/4" Intake | | | |
| 3 | MR-525 | Sight glass | | | |
| 4 | MR-505 | 1/4" manifold piston | | | |
| 5 | MR-516 | Stem and nut | | | |
| 6 | MR-601 | Handwheel and screw | | | |
| 7 | MR-503 | Handwheel screws (2) | | | |
| 8 | MR-509 | O-rings (2) | | | |
| 9 | M2-102N | Hanging hook | | | |

ZEPPELIN® 2-Valve Aluminum Series



ZEPPELIN_® 4-Valve Aluminum Series



| ZEPPELIN 2-VALVE ALUMINUM | | | | | | |
|---------------------------|---------------------------------|---------------------------------|--|--|--|--|
| REF.NO. | PART NO. | PART NO. DESCRIPTION | | | | |
| 1 | MR-601 | Handwheel and screw | | | | |
| 2 | U1-4A | 1/4" Intake | | | | |
| 3 | MR-525 | R-525 Sight glass | | | | |
| 4 | MR-505 | R-505 Piston w/seat and o-rings | | | | |
| 5 | MR-516 | VIR-516 Stem and nut | | | | |
| 6 | MR-601 | Handwheel and screw | | | | |
| 7 | 7 MR-503 Handwheel screws (two) | | | | | |
| 8 | MR-509 | O-rings (two) | | | | |
| 9 | M2-102N | Hanging hook | | | | |

| ZEPPELIN 4-VALVE ALUMINUM | | | | |
|---------------------------|------------------------|---------------------------|--|--|
| REF.NO. | PART NO. | DESCRIPTION | | |
| 1 | U1-6B | 3/8" Intake | | |
| 2 | U1-4A | 1/4" Intake | | |
| 3 | MR-525 | Sight glass | | |
| 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 | 8 MR-409 O-rings (2) | | | |
| 9 | 9 M2-102N Hanging hook | | | |

Repair Parts

JUST BETTER SINCE 1967 | HVAC TOOLS, VALVES AND FITTINGS



| 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 | | | |

PATRIOT™ Series



| PATRIOT SERIES MANIFOLDS | | | | | |
|--------------------------|--|----------------------------------|--|--|--|
| REF.NO. | PART NO. DESCRIPTION | | | | |
| 1 | MR-503 | Handwheel screw (2) | | | |
| 2 | MR-508 | 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 | | | | |



| 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 | VIR-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 | R-504 1/4" Hose holder sleeve and o-rings | | | | |
| 9 | MR-506 | R-506 3/8" Hose holder sleeve and o-rings | | | | |
| 10 | MR-525 Sight glass w/o-ring | | | | | |

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