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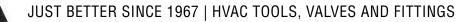
PLATINUM MADE IN THE USA

7 CFM





Product Catalog 52







For the year 2020, one of JB's most important goals is to increase our product portfolio. The recent announcement of the acquisition of C&D Valve in Oklahoma City, OK, is a step to offering a more expansive line of premier HVAC/R products. In addition to this acquisition, JB continues to enhance and expand our product offering with new, innovative tools and equipment that serve the HVAC/R industry. Some of the new 2020 product line additions include battery powered pumps, redesigned hoses, and Bluetooth capable manifolds. The goal is to offer tools that not only help technicians be more efficient but respond to changing requirements that are encountered on the job-site. New product development input continues to come from customers, sales representatives, distributors, technicians, and employees to ensure that our product development efforts are in lock-step with our customer's needs.

Our plan for the upcoming year also includes continuous investment in the JB Aurora, IL manufacturing facility and JB's most important asset its people. Throughout the years, we have been fortunate when adding great people to the JB team. We continue to attract highly talented individuals that support our customers and bring JB valuable field and industry experience. You will see that several employees are being featured in this year's catalog.

Please watch out for the launch of JB's new digital platform. This roll-out will include a new more interactive website, additional product and training videos, more prominent social media presence, and more collateral. We are developing a program to be announced in the near future to strengthen our partnerships with our most loyal customers.

Of course, none of what we do at JB has any meaning without our loyal distributors and the customers they serve. We are indebted to them all for their support. Honesty, flexibility, fairness, integrity, and consistency represent JB's approach to customer relationships. These core values have served JB well for 50 plus years.

All of these investments will make 2020 a very exciting year and the goal is always to ensure that JB's reputation as a high-quality Made in America manufacturer never changes.

Thank you for a great 2019, and all the best to you for a healthy and prosperous 2020.

Jeff Cherif President

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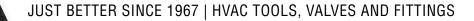
"I like that JB is a smaller company with a comfortable atmosphere—feels like family. I don't have a favorite product because I'm proud of all the products we sell!"

– Patti Berke, Customer Service

Just Better Tools

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PLATINUM® FLEX



Battery Powered Vacuum Pump

EXTRA FREEDOM. EXTRA POWER. EXTRA CAPACITY. Work better with the American made PLATINUM® FLEX battery or AC powered vacuum pump. Top of the line for both quality and durability—pump of choice for HVAC/R technicians.

Compatible with major brand 18v/20v Lithium-ion Battery (not included) 3 CFM; 1725 RPM 5 CFM; 1725 RPM Low Battery Warning 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-see 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 Field repairable 1 year OTC warranty



"Working with JB ownership and employees is a pleasure. My favorite product is the quality built, highly functional and easily maintained PLATINUM Vacuum Pump".

George Kief, Western U.S.
 Manufacturer's Representative

PLATINUM® BATTERY POWERED VACUUM PUMPS				
	DV-85BP	DV-142BP		
CFM	3 CFM (85 l/m)	5 CFM (142 l/m)		
MOTOR	1/2 HP, 1725 RPM	1/2 HP, 1725 RPM		
VOLTAGE	18v/20v	18v/20v		
INTAKE PORT	1/2" x 1/4" x 3/8"	1/2" x 1/4" x 3/8"		
OIL CAPACITY	26oz (798cc)	21oz (680cc)		
110V-18V AC ADAPTER	Included	Included		

Vacuum Pumps

MADE

PLATINUM®

Best Vacuum Pump in the Industry

 $2\mbox{-Stage}$ direct drive with 1/2 HP capacitor start and thermal overload protection

Available in 1.5, 3, 5, 7 and 10 $\ensuremath{\mathsf{CFM}}$

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

<code>PLATINUM®</code> -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.</code>



US Cord

PR-110 (110v)

PR-230 (230v)







BR Cord PR-436







Sliding switch for 115v or 230v on dual voltage models



Sliding switch for 115v or 230v on spark-proof models

AWARDS

DV-200N-250SP Spark-Proof



PLATINUM® PUMPS

PLATINUM [®] PUMPS						
	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 (798cc)	26oz (798cc)	21oz (680cc)	21oz (680cc)		26oz (798cc)
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 VOLTA	GE PUMPS					
	DV-42N-250	DV-85N-250	DV-142N-250	DV-200N-250	DV-200N-250SP SPARK-PROOF	DV-285N-250
MOTOR	1/2 HP, 1725/1425 RPM	1/2 HP, 1725/1425 RPM				
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

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

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

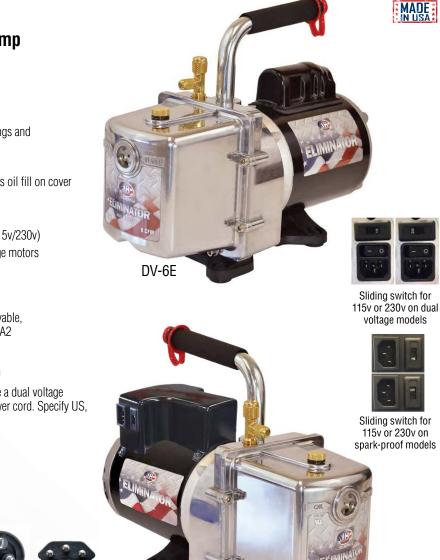
Available in 115v or dual voltage motor with switch (115v/230v) Removable, interchangeable power cord on dual voltage motors 2 year OTC warranty

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.



Sliding switch for 115v or 230v on spark-proof models



PR-110 (110v)

PR-230 (230v)



EU Cord PR-136

UK Cord PR-236



BR Cord PR-436

DV-6E-250SP Spark-Proof



ELIMINATOR [®] PUMPS							
		DV-3E		DV-4E		DV-6	E
	CFM	3 CFM (85 l/m)		4 CFM (113 l/m)		6 CFM	(170 l/m)
N	IOTOR	1/2 HP, 1725 RPM		1/2 HP, 1725 RPI	M	1/2 HP,	1725 RPM
VO	LTAGE	115v/60Hz		115v/60Hz		115v/60	OHz
INTAKE	PORT	1/4" x 3/8"		1/4" x 3/8"		1/4" x 3	3/8"
OIL CAP	ACITY	28oz (828cc)		25oz (739cc)		25oz (7	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"
W	EIGHT	29lbs (13.2kg)		30lbs (13.6kg)		30lbs (*	13.6kg)
ELIMINATOR® DUAL VOLTAGE							
	DV-3	E-250	DV-4E-250		DV-6E-250		DV-6E-250SP
MOTOR	1/2 HP,	1725/1425 RPM	1/2 HP, 1725/14	25 RPM	1/2 HP, 1725/1425 RPM		1/2 HP, 1725/1425 RPM
VOLTAGE	115v/60)Hz, 230v/50Hz	115v/60Hz, 230v	//50Hz	115v/60Hz, 230v/50Hz		115v/60Hz, 230v/50Hz
PLUG	US 220	/	US 220v		US 220v		US 220v
PLUG OPTIONS*	US/EU/	'UK/AU/BR	US/EU/UK/AU/	BR	US/EU/UK/AU/BR		US/EU/UK/AU/BR

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

MADE :

MADE :

MADE :

MADE

BLACK GOLD®

Pump Oil

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



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

Oil Mist Filter

Eliminates oil mist from pump handle





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

Quick **Couplers**

Features o-ring seal and no depressor.



QC-E64

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

DV-T1

THE TANK Vacuum Pump Caddy

Extend pump life with easy and convenient oil changes between jobs No mess - no spills Environmentally friendly Capacity to hold up to five oil changes



PART NO. DESCRIPTION DV-T1 The TANK pump oil caddy

O-ring quick coupler shutoff valves for blanking

D10162

1/4" Female QC x 1/4" flare

DESCRIPTION

off vacuum system; pressures up to 800lbs.

Shutoff Valve

PART NO.

D10162







Features an o-ring seal



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)

VL-100 MADE :

VELOCITY Rapid **Evacuation Kit**

The Velocity Rapid Evacuation Kit paired with a vacuum pump allows technicians to remove restrictive valve cores and perform AC/R system evacuations up to ten times faster

60 inch, 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	60 inch, 1/2" diameter hose; 3/8" x 1/4" SAE flare
P325	1/4" and 5/16" replacement gaskets for A32525N (1 each)

Vacuum Pump Tips

Change Your Pump Oil

Deep vacuum cannot be achieved with contaminated oil, which can damage 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 micron gauge is not reading a deep vacuum, the oil is contaminated and should be changed. During 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.

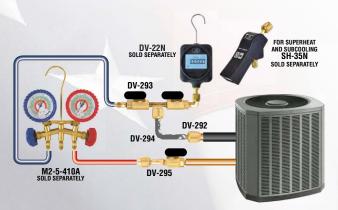
JB pumps are built to last and are the best and longest lasting pumps in the industry. To learn how to properly care for your pump, visit jbind.com.

DV-29

8

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

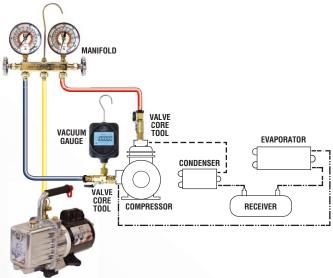
How to Measure Evacuation

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

Refrigerant Recovery

F6-DP[™] **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 Recessed gauges Micro-channel condenser Sturdy metal knobs for industry leading recovery rates Large fan for superior heat dissipation Circuit breaker Easy access filter Detachable and replaceable power cord for easy maintenance 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	30Ib Empty refrigerant tank cylinder
REC-TANK-50	50lb Empty refrigerant tank cylinder



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 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)

SH-35N

Wireless Gauge for Superheat and Subcooling

Wirelessly connects to smart devices with SH-35N app; 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

Storage Temperature Pressure Range Pressure Accuracy **Temperature Range** Temperature Accuracy

Operating Temperature 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



DESCRIPTION
Digital wireless gauge for superheat/subcooling includes temperature clamp, power charger and protective carrying case
Temperature clamp
Socks (5)
Protective carrying case
Replacement gasket (6 pack)
Replacement gasket (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 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



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

DV-40S

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)

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 Easy-to-clean sensor Operates with AC adapter (included) or three AA batteries Protective carrying case 1 year warranty JUST I BETTER MICRONS ----DV-41 SUPERNOVA

DEALER DESIGN AWARDS

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)

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 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 Sensitivity R1234yf .0125 oz/yr **R32** .05 oz/yr R404A .05 oz/yr R407A **R410A** .05 oz/yr CE R427A .05 oz/yr

PART NO.	DESCRIPTION
LD-5000	PROWLER 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

Leak Detection

MADE

LDC-4000 Combustible Gas and HC

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

Detects

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

Refrigerant Scales

JUST BETTER SINCE 1967 | HVAC TOOLS, VALVES AND FITTINGS

DS-20000

ATLAS® Digital Refrigerant Scale

Features all metal construction, superior sensitivity and accuracy with replaceable parts 220lb (100kg) capacity 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 Operates with 9v battery (included) 2 year warranty

Specifications

Usage Operating Temperature Storage Temperature Humidity Altitude Battery Life 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 6500ft (2000m) Approximately 60 hours

DS-20000S ATLAS_® Wireless Refrigerant Scale

Features a sleek, water-resistant design Easy-to-read and record measurements with a smart device and the free DS-20000S app 250lb (115kg) capacity Wirelessly connects to smart devices via the DS-20000S app Oversized, slip-resistant platform User defined, programmable weight and approaching alarms Job time recording and email accessible data logging Adjustable units of measurement LED connectivity and power lights Water-resistant design Protective carrying case Operates with four AA batteries (included) 2 year warranty

Specifications

Usage Operating Temperature Storage Temperature Humidity 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 Approximately 60 hours

Battery Life





PART NO.	DESCRIPTION
DS-20000	ATLAS® Digital Refrigerant Scale in case
DSR-10	Communication cable
DSR-20	Handheld remote
DSR-30	Weighing platform





XI ≭\'\A

DM4-RW



$\textbf{REVOLVER}{\scriptstyle {\scriptstyle { \mathbb{O}} }} Wireless \ Digital \ Manifold$

Wirelessly connects to smart devices with DM4 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 (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-RW	REVOLVER® 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)

DM4-ZW

ZEPPELIN® Wireless Digital Manifold

Wirelessly connects to smart devices with DM4 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 (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 turning to open/close Protective carrying case allows storage with connected hoses

Convenient strap with hanging hook

Operates with three AA batteries (included)





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)		

Manifolds

JUST BETTER SINCE 1967 | HVAC TOOLS, VALVES AND FITTINGS

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

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PART NO.	DESCRIPTION		
DM4-R	REVOLVER® 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)		

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 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



PART NO.	DESCRIPTION		
DM4-Z	ZEPPELIN® Digital Manifold with KOBRA® 60" hose set (4) in case		
DM4-CS	Digital manifold protective carrying case		
DM4-TC	emperature 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)		

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 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 (7/16" UNF)



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

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)		

Manifolds

JUST BETTER SINCE 1967 | HVAC TOOLS, VALVES AND FITTINGS

PATRIOT

2-Valve Brass Manifold

Rugged bar design paired with easy-to-grip metal handles Available with assorted gauge options Original 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





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

R22	R134A	404A	
PART NO.	HOSES	GAUGE SIZE	GAUGE FEATURES
22125	Manifold Only	3-1/8" (80mm)	Illuminating, Class 1, 1%
22131	CCLE-60"	3-1/8" (80mm)	Illuminating, Class 1, 1%
22133	CCLE-60"	3-1/8" (80mm)	Illuminating, Class 1, 1%

22225

R32	R290	R600A	
PART NO.	HOSES	GAUGE SIZE	GAUGE FEATURES
22725	Manifold Only	3-1/8" (80mm)	Natural Gas
22733	CCLE-60"	3-1/8" (80mm)	Natural Gas
22733RF-18	18" REFFLEX® 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 25. KOBRA hose options available begin on page 26. Manifold rebuild kits and repair parts on page 78.

Manifolds

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

1. Full Open







R22	R404A	R410A	
PART NO.	HOSES	GAUGE SIZE	GAUGE FEATURES
26200	Manifold Only	2-1/2" (63.5mm)	Standard
26225	Manifold Only	3-1/8" (80mm)	Illuminating
26225L	Manifold Only	3-1/8" (80mm)	LED
26208	CCLE4-60"	2-1/2" (63.5mm)	Standard
26233	CCLE4-60"	3-1/8" (80mm)	Illuminating
26233L	CCLE-60"	3-1/8" (80mm)	LED
26240	CCLV4-60"	3-1/8" (80mm)	Illuminating
26244	CCLV4-60"	3-1/8" (80mm)	Illuminating
26246	CCLS-60"	3-1/8" (80mm)	Illuminating

R22	R134A	404 A	
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



R12 **R22** R502 HOSES GAUGE SIZE **GAUGE FEATURES** PART NO. 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 26044 CCLS-60" 3-1/8" (80mm) Illuminating

"Working at JB is like being at home—I live two blocks away! The teamwork and knowing the ins and outs of the job make it joyful. I like the spark-proof, dual voltage pumps—best pumps."

– Antonio Chavez, Shipping Supervisor

Additional manifold gauge options, refrigerant combinations and accessories available on page 25. KOBRA hose options available begin on page 26. Manifold rebuild kits and repair parts on page 78.

Manifolds

JUST BETTER SINCE 1967 | HVAC TOOLS, VALVES AND FITTINGS

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



KZZ	K4U4A	K41UA	
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 25. KOBRA hose options available begin on page 26. Manifold rebuild kits and repair parts on page 77. 24225

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

Manifolds

ZEPPELIN®

4-Valve Forged Aluminum Manifold

Heavy-duty forged aluminum body is rugged and durable Rubber handwheels for improved grip and reduced turns 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



KZZ	K4U4A	K4 IUA	
DADTNO	110050	041105 0175	
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

D/104

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

R22

R410A

PART NO.	HOSES	GAUGE SIZE	GAUGE FEATURES
25500	Manifold Only	2-1/2" (63.5mm)	R410 Only
25550	Manifold Only	3-1/8" (80mm)	Liquid Filled, R410 Only
25525	Manifold Only	3-1/8" (80mm)	R410 Only
25508	CCLE4-60"	2-1/2" (63.5mm)	R420 Only
25558	CCLE4-60"	3-1/8" (80mm)	Liquid Filled, R410 Only
25533	CCLE4-60"	3-1/8" (80mm)	R410 Only
25523	CCLV4-60"	2-1/2" (63.5mm)	R420 Only
25573	CCLV4-60"	3-1/8" (80mm)	Liquid Filled, R410 Only
25548	CCLV4-60"	3-1/8" (80mm)	R410 Only

R407A	R422B	R427A	
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%
			•

NZZ	N4U/U	4104	
PART NO.	HOSES	GAUGE SIZE	GAUGE FEATURES
25425	Manifold Only	3-1/8" (80mm)	Illuminating
			_

K438A	K4U/C	4220	
PART NO.	HOSES	GAUGE SIZE	GAUGE FEATURES
25825	Manifold Only	3-1/8" (80mm)	Illuminating
25833	CCLE-60"	3-1/8" (80mm)	Illuminating

Additional manifold gauge options, refrigerant combinations and accessories available on page 25. KOBRA hose options available begin on page 26. 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

Original 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	
10	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		

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

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

Additional manifold gauge options, refrigerant combinations and accessories available on page 25. KOBRA hose options available begin on page 26. Manifold rebuild kits and repair parts on page 78. * Silver metal handles available; order M2-8-410AM or M2-5-410AM.

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 Includes Illuminating, Class 1, 1% metal gauges designed for 800psi to handle heat pump pressures Pressure/temperature scale has two sections to accommodate

410A

GAUGE SIZE

3-1/8" (80mm)

3-1/8" (80mm)

3-1/8" (80mm)

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.

GAUGE 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®	REFRIGERANTS		
DESCRIPTION	BAR/PSI	kPa/PSI	Kg/cm²	BAR/PSI	kPa/PSI	Kg/cm²	BAR/PSI	kPa/PSI	Kg/cm2	R22	R404A	R410A
Manifold Only	28592	28292	28192	28752	28852	28952	27752	27852	27952	•	•	•
CCLE-60" (152cm)	28596	28296	28196	28754	28854	28954	27754	27854	27954	•	•	•
CCLS5-60 (152cm)	28597	28297	28197	—	—	_	—			•	•	•
CCLBV KOBRA®	28599	28299	28199	28759	28859	28959	27759	27859	27959	•	•	•
DESCRIPTION		M2 BRAS			LVE ZEPP			LVE ZEPP			FRIGERA	
	BAR/PSI	kPa/PSI	Kg/cm²	BAR/PSI		Kg/cm²	BAR/PSI		Kg/cm2	R12	R22	R502
Manifold Only	28572	28272	28172	28772	28872	28972	27772	27872	27972	•	•	•
CCL-36" (91cm)	28570	28270	28170	28770	28870	28970	27770	27870	27970	•	•	•
CCL-60" (152cm)	28574	28274	28174	28774	28874	28974	27774	27874	27974	•	•	•
CCLS-60" (152cm) UL R410A	28576	28276	28176	28776	28876	28876	27776	27774	27776	•	•	•
DESCRIPTION		M2 BRAS			LVE ZEPP			LVE ZEPP			FRIGERA	
		kPa/PSI	Kg/cm²	BAR/PSI		Kg/cm²	BAR/PSI			R134A	R404A	R507A
Manifold Only	28582	28282	28182	28782	28882	28982	27782	27882	27982	•	•	•
CCL-36" (91cm)	28580	28280	28180	28780	28880	28980	27780	27880	27980	•	•	٠
CCL-60" (152cm)	28584	28284	28184	28784	28884	28984	27784	27884	27984	•	•	•
CCLE-60" (152cm)	28586	28286	28186	28786	28886	28986	27786	27886	27986	•	•	٠
CCLS-60" (152 cm) UL R410A	28588	28288	28188	28788	28888	28988	27788	27888	27988	•	•	٠
DESCRIPTION	RAR/PSI	M2 BRAS kPa/PSI			LVE ZEPP kPa/PSI			LVE ZEPP kPa/PSI		REFRIG. 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 25. KOBRA hose options available begin on page 26. Manifold rebuild kits and repair parts on page 78.

MADE :



Gauge Options



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

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	•	•											•		
M2-350	M2-355	2-1/2" (63.5mm)	Non-illuminating, Standard				•											
M2-400	M2-405	4" (102mm)	Illuminating, Class 1, 1%		•		•			•			•					
M2-410	M2-415	2-1/2" (63.5mm)	Non-illuminating, Standard										•					
M2-420	M2-425	2-1/2" (63.5mm)	Non-illuminating, Standard				•			•							•	
M2-430	M2-435	2-1/2" (63.5mm)	Non-illuminating, Standard		•		•			•								
M2-460	M2-465	2-1/2" (63.5mm)	Non-illuminating, Standard		•					•			•					
M2-600	M2-605	3-1/8" (80mm)	Illuminating, Class 1, 1%			•			•									•
M2-800	M2-805	3-1/8" (80mm)	Illuminating, Standard	•	•											•		
M2-810	M2-815	3-1/8" (80mm)	Non-illuminating, Standard										•					
M2-820	M2-825	3-1/8" (80mm)	Illuminating, Standard		•					•			•					
M2-820L	M2-825L	3-1/8" (80mm)	LED, Standard		•					•			•					
M2-826	M2-827	3-1/8" (80mm)	Illuminating, Standard		•		•						•					
M2-828	M2-829	3-1/8" (80mm)	Illuminating, Standard								•			•	•			
M2-830	M2-831	3-1/8" (80mm)	Illuminating, Standard		•							٠	•					
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	•											•		
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

(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			•							

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MADE

Refrigerant Hoses

JUST BETTER SINCE 1967 | HVAC TOOLS, VALVES AND FITTINGS

Hose Overview 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

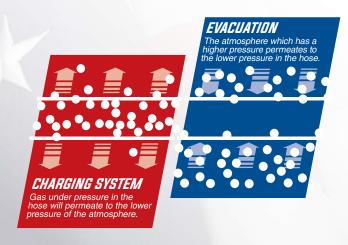


Permeation

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.

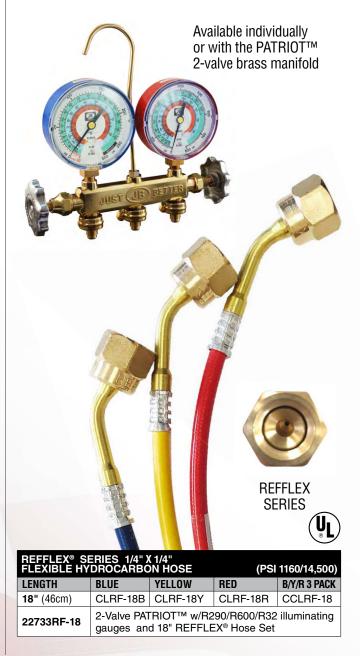
When checking pressure rise, the atmosphere will permeate to the lower pressure in the hoses and the micron reading will slowly rise.



REFFLEX. CLRF Series

Flexible Vibration Eliminating Hose

The sophisticated REFFLEX® system is a safe and cost effective polyamide capillary hose for use with critical charge hydrocarbon refrigeration systems. REFFLEX® has excellent mechanical and thermal properties combined with extreme durability and vibration eliminating performance. Highly flexible; extremely short bending radius; 2mm ID Suitable all non-corrosive refrigerants including HFC/HFO, HC and natural gases such as propane and the relevant special oils such as POE an PAG Absorbs all possible multi directional vibrations Temp Range -40°(-40°C) to 266°(130°C) Maximum working pressure 1160 psi (80 bar) Very high burst proof value > 14,500 psi (1,000 bar) Ozone-, UV-, and oil resistant



CLSX Series MADE KOBRA® Secure Seal Hose

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

Removable head and rebuildable seal kit for quick, easy field repair or replacement

Angled depressor with custom gasket and large fitting to prevent leaks and increase flow

Dual thrust washers (Teflon and stainless steel) for easy turn and free rotation under high pressure

Smooth action, low-loss fitting minimizes refrigerant loss and prevents spray



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).

Bebuild Head CLSX-BK

1. Attach 3/8" wrench to the flats of the

clockwise to remove the head.

 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

 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

 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.

washers.

end of cup.

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





















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8. Replace the metal and nylon thrust washers. Place cup assembly into CLSX-36B CLSX-36R CCLSX-36 CLSX-36Y coupler nut. 48" (122cm) CLSX-48B CLSX-48Y CLSX-48R CCLSX-48 CLSX-60B CCLSX-60 60" (152cm) CLSX-60Y CLSX-60R 9. Use spring clip pliers to secure internal 72" (182cm) CLSX-72B CLSX-72Y CLSX-72R CCLSX-72 snap ring inside of end cap assembly. CLSX-RH **Replaceable Head** Refer to REPLACE HEAD Step 1 and 2 **Rebuild Kit** CLSX-RK

J to reassemble. JB INDUSTRIES • Product Catalog 52 • 800.323.0811 • sales@jbind.com

CLS Series

MADE :

800 psi working; 4000 psi burst

KOBRA® Secure Seal Hose

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



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

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- 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.

















CLE Series KOBRA® Gasket Seal Hose

MADE :

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



CLE SERIES KOBRA® 1/4" X 1/4" GASKET SEAL HOSE (PSI 800/4000)					
LENGTH	BLUE	YELLOW	RED	B/Y/R 3 Pack	B/Y/R BLACK (3/8") 4 PACK
36" (91cm)	CLE-36B	CLE-36Y	CLE-36R	CCLE-36	CCLE4-36
48" (122cm)	CLE-48B	CLE-48Y	CLE-48R	CCLE-48	CCLE4-48
60" (152cm)	CLE-60B	CLE-60Y	CLE-60R	CCLE-60	CCLE4-60
72" (182cm)	CLE-72B	CLE-72Y	CLE-72R	CCLE-72	CCLE4-72
10' (3m)	CLE-120B	CLE-120Y	CLE-120R		
25' (7.6m)	CLE-300B	CLE-300Y	CLE-300R		
50' (15.2m)	CLE-600B	CLE-600Y	CLE-600R		
75' (22.8m)	CLE-900B	CLE-900Y	CLE-900R		
100' (30.5m)	CLE-1200B	CLE-1200Y	CLE-1200R		

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



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

Refrigerant Hoses

CLV Series

MADE :

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



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	0BRA® 1/4")	X 1/4" HOSE	WHIP END O	NLY (PSI 800)/4000)
6" (15cm)	CLP-6B	CLP-6Y	CLP-6R		
CLV6 AND CL6	SERIES KOB	3/8" X 3/8" X	3/8" CHARGI	NG HOSE (PS	SI 600/3000)
LENGTH	BLACK	BLACK W/	BALL VALVE	YEL	LOW
36" (91cm)	CL6-36	CLV6-36		CL	.6-36Y
48" (122cm)	CL6-48	CLV6-48		CL	.6-48Y
60" (152cm)	CL6-60	CLV6-60		CL	.6-60Y
72" (182cm)	CL6-72	CL	V6-72	CL	.6-72Y

Heavy-Duty Series

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

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



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

Refrigerant Hoses



STANDARD 1/4" X 1/4" CHARGING HOSE (PSI 750/3000)				
BLUE	YELLOW	RED	B/Y/R 3 PACK	
CL-36B	CL-36Y	CL-36R	CCL-36	
CL-48B	CL-48Y	CL-48R	CCL-48	
CL-60B	CL-60Y	CL-60R	CCL-60	
CL-72B	CL-72Y	CL-72R	CCL-72	
	BLUE CL-36B CL-48B CL-60B	BLUE YELLOW CL-36B CL-36Y CL-48B CL-48Y CL-60B CL-60Y	BLUE YELLOW RED CL-36B CL-36Y CL-36R CL-48B CL-48Y CL-48R CL-60B CL-60Y CL-60R	

Flexible Metal Hose

MADE IN USA

900 psi working; 3500 psi burst

DV-294

P90009

P90012

Unlike charging hoses, flexible metal lines will not permeate under vacuum. Our metal lines feature finger-tight o-ring coupler ends.



1/4" x 10" Flexible metal line (one 45° fitting)

1/4" Replacement o-ring (10 pack)

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

Hose Rep	laceme	nt Parts	* MADE *
	33112RK		Ortentino
CLSX-RH		T21295	j

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

Secure Seal Adapters





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

Mini-Split Tool Kits

JUST BETTER SINCE 1967 | HVAC TOOLS, VALVES AND FITTINGS

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

B

MSKIT 3



	and the second			
	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	SAE brass adapters (2 included)		
NFT5-4	NFT5-5	Brass caps (NFT5-4, 10 pack/NFT5-5, 5 pack)		
T3060	5	Metric (2-8mm) and Imperial (5/64" - 1/4") hex key set		
T30600		Ratcheting eccentric cone flare tool		
TRQ10	80	Torque wrench set with 6 spanner heads		
JB-BACKPACK1		JB backpack		

MSKIT3 TOOLBAG (1/4" AND 5/16")			
PART NO. DESCRIPTION			
JB-TOOLBAG1	JB tool bag		
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



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



MADE

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

Additional Accessories



JB-BACKPACK1 Heavy-duty canvas JB backpack



JB-TOOLBAG1 Heavy-duty canvas JB tool bag



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

- "JB has been an industry leader for over 50 years because of unmatched customer service, and exceptional product quality. They have built a community that makes it easy to come to work every day."
- Preston Collier, Sales Representative

SHIELD®

MADE :

Refrigerant Locking Caps

Easily identifiable with waterproof 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)





DEALER DESIGN AWARDS



SHLD-E4 5/16" 4 Pack (Universal)

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

CoreMax[®]



Rapid Charge and Evacuation System

The innovative CoreMax[®] family of manufacturing and service tools is an integrated, flexible system design that shortens processing time and provides up to 5x greater flow, 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







CM-SNAP SnapMate[®] Connector



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.

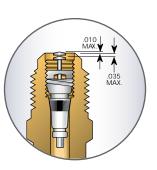
There are two types of ODF fit-external tube fit and swage fit. JB access valve descriptions for ODF refer to swage fit. The connecting tube OD is the same OD as the fitting end. Therefore, the A31723 example above will also slip into 5/16" OD tube. If connecting to wrot copper fitting, use ODF swage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



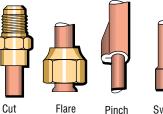


Valve Core Pin Location

MADE :

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



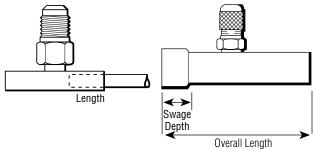




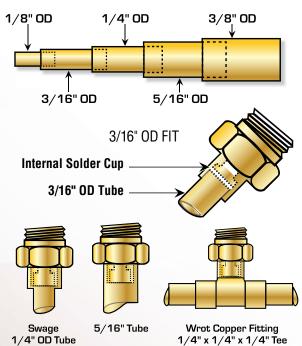
Pinch Swage

Copper Braze Tees

Copper Access Unions



AC/R Copper Tube Fitting Guide



Copper Tube Extension

MADE : IN USA :

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

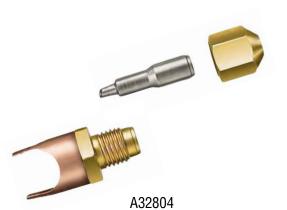
All pipe connections have internal braze cups for dip tube applications Note: OD \times ID sizes are for copper tube extension



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 Braze Tapper Only





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

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



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

Copper Braze Saddle with Tapper



37



A32904

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

Copper Braze Tee

Adjustable

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



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 :

MADE :

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



A31199

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





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"	
A31348	1	1-1/8" OD	3-13/16"	

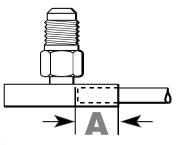
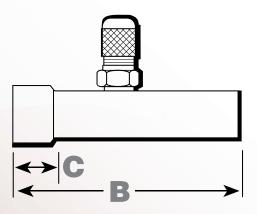


Figure 1. Copper Braze Tees





MADE

Copper 90° Elbow

Includes cap (NFT5-4) and valve core Use sil-phos alloy only



A31160

Access Valve Mage 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)





Bulk Fitting Jar

Best selling access valves packaged in a

A31004-CJ

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

PART NO.DESCRIPTIONAVK-001Access valve service kit in storage case

MADE :

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

Access Valve

Repair and Replacement





NFT5-4

A31999



P90010

PART NO.	QTY.	DESCRIPTION	
NFT5-4	10	1/4" SAE o-ring cap	
P90010	10	Replacement 1/4" o-ring	
A31999	5	1/4" Valve cores	

"Every morning I walk into the plant and I see customer orders ready to be shipped out. I cannot help but feel pride knowing that some of the products passed through my hands on their way to the customer."

– Willis McInerney, CNC Department Manager



MADE :

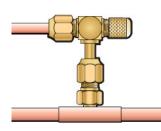
Swivel Flare Connections

Add Multiple Ports with One Fitting

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

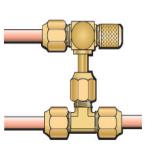
Swivel Flare with Core Depressor

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



Swivel Flare without Core Depressor

Multiple ports Additional line or controls Additional access site





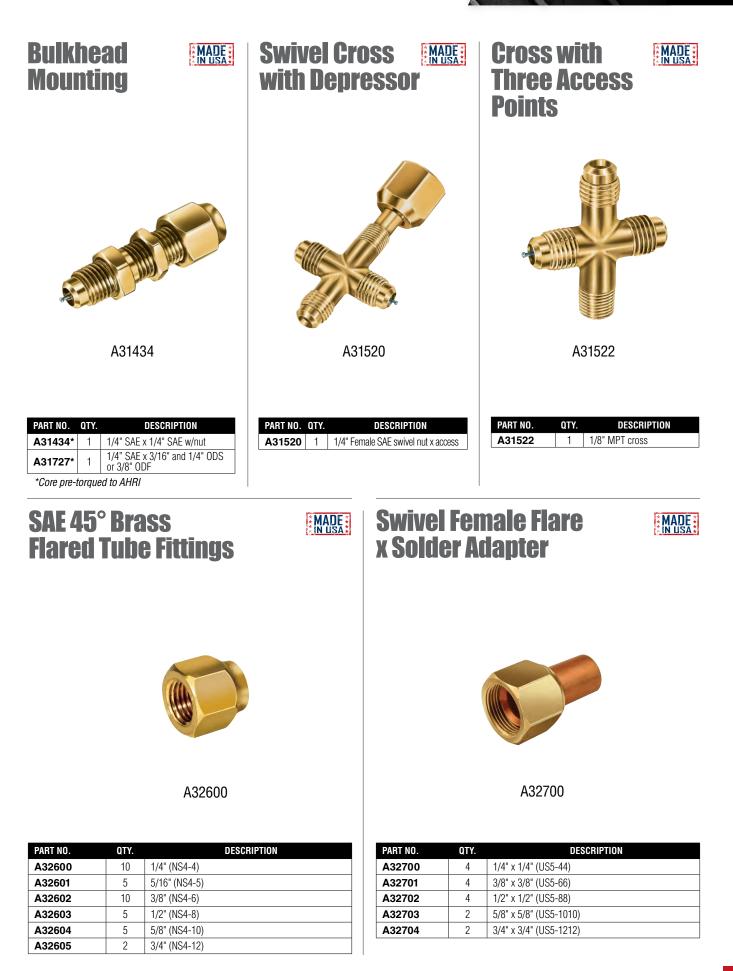


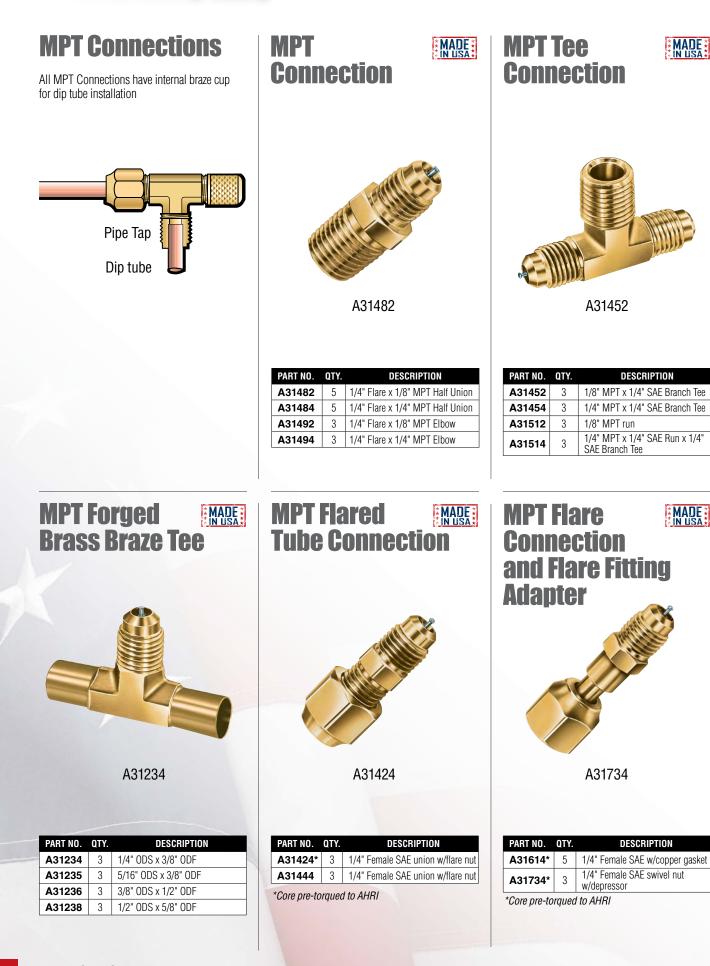


A31851

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

Swivel Flare Tee without Depressor	Swivel Flare 3/8" SAE Tee	Coupler with Depressor
A31854	A31853	A33004
PART NO.QTY.DESCRIPTIONA3185431/4" Female SAE swivel nut on branchA3186431/4" FE swivel nut w/o depressor x 1/4" SAE run x 1/4" SAE branch	PART NO.QTY.DESCRIPTIONA3185313/8" SAE x 3/8" Female SAE swivel nut x 1/4" access teeA3185613/8" SAE x 1/4" access x 3/8" Female SAE swivel nut	PART NO. OTY. DESCRIPTION A33004 1 1/4" SAE swivel flare x male flare





Access Valves



MPT Brass Bodies

MADE



MADE :

"JB has amazing customers that I enjoy working with everyday. Our tight knit JB team makes it a pleasure to meet our customers needs"

-Tom Muncey, Director of Sales





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

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

Vacuum Rated Valve Core Removal Tool with Access Port

MADE

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 torgue 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

Valve Core Torque Tool

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



A32008

A32008-BX

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

MADE

Quick Seal O-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 3/8" o-ring

E-Z Tapper

* MADE *

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



EZ-40288

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

Quick Seal Gasket Caps

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

MADE



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

O-Ring Seal 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

Wrench Style Seal Cap

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

A31986

1/4" SAE cap

PART NO.

A31986

OTY.

5

DESCRIPTION

Backseating Control Valve



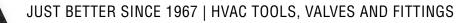
Ideal for use on pre-charged line sets Eliminates spraying of leak detection dye and refrigerant

Compact brass body for long service Swivel coupler with double safety grooves



A33000

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





* MADE *

QC SAE Female Adapter



O-ring seal quick coupler Includes cap and valve core



MADE IN USA

Swivel

Cylinder Valve

O-ring seal quick coupler

Includes cap and valve core

A34000

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 :

A31656

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



CV-20004

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

Core Depressor



A33500

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

Liquid MARE Charging Adapters

Metering element assures a safe, fast charge without damaging the compressor



LC-4/LC-5

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

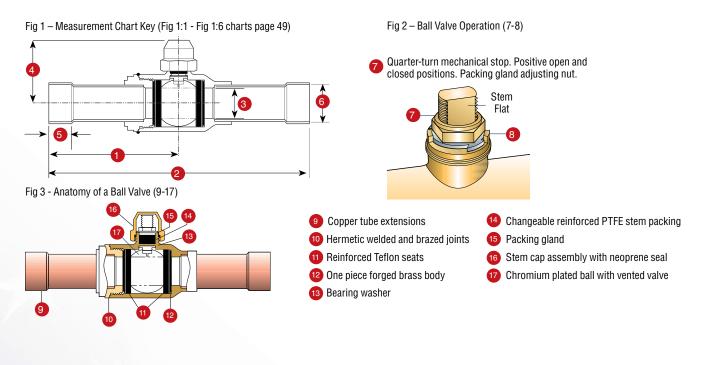
"U.S. manufacturing is not just a sales slogan, but rather a way of doing business that offers utmost flexibility in meeting our customers' expectations."

- Dave Madden, Director of Manufacturing



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



V34900

PART NO.	DESCRIPTION
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
V34910	3/8" Female NPT x 3/8" Female NPT



NV62-4

 PART NO.
 DESCRIPTION

 NV62-4
 1/4" COMP x 1/4" COMP

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



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

Refrigerant Ball Valves

MADE *

Pressure rated to 500 psi Bolted or screwed bonnets or flanges Up to +500°F working temperature at 0 psi Up to +300°F working temperature at 500 psi Registered to ISO 9001 UL Listed 57R7



Part no. Without Port	Part no. With Port	OD Fig 1: 6	FIG 1: 1	FIG 1: 2	FIG 1: 3	FIG 1: 4	FIG 1: 5
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



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"



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
- 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

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

MADE :

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

MADE

TORQUE POUNDS For Flare Fitting (Dry Thread)				
SIZE FT/LBS				
1/4"	8-10			
3/8"	15-25			
1/2"	25-35			
5/8"	40-55			
3/4" 50-60				

Copper Flare MADE Bonnet

Use with flare nut to cap fittings



B1-3

SIZE	QTY.
3/16"	5
1/4"	25
3/8"	5
1/2"	5
5/8"	10
3/4"	5
	3/16" 1/4" 3/8" 1/2" 5/8"

Copper Flare Gasket

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



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

Flare x Female MARKE Solder Ell

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

Female Pipe Ell

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



E3-4A

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



Flare Ell

MADE :

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

Refrigerant Drum Adapter



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



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

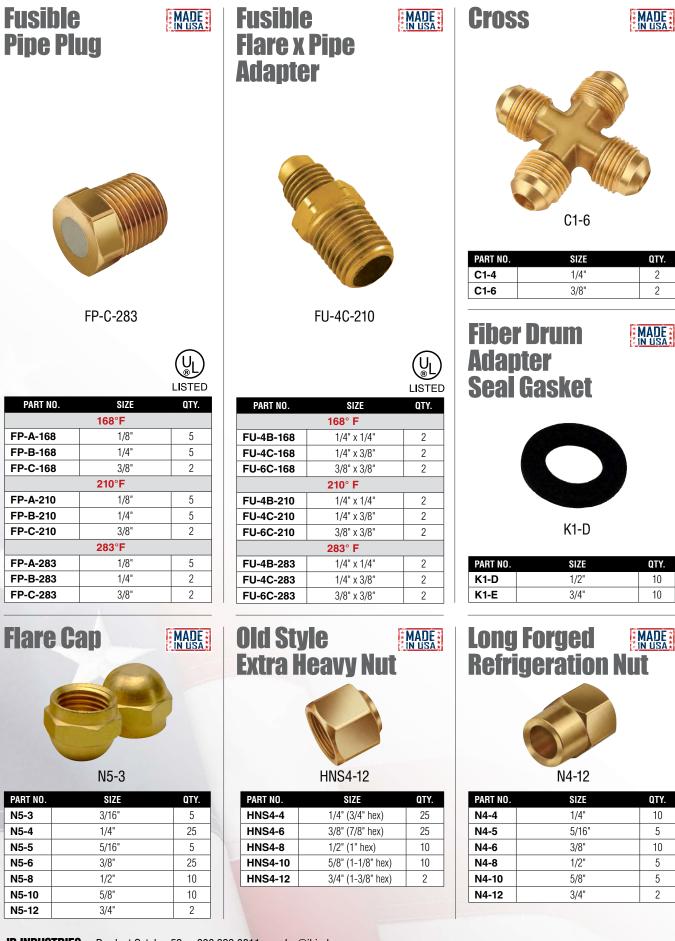


PART NO.	SIZE	QTY.
E4-44	1/4" x 1/4"	5
E4-66	3/8" x 3/8"	2
E4-88	1/2" x 1/2"	2



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







MADE *

Flare x

Solder Adapter

Furnished with copper gasket

Pipe Adapter UI-12E PART NO. SIZE QTY. U1-2A 1/8" x 1/8" 5 U1-3B 3/16" x 1/4" 5 U1-3B 3/16" x 1/4" 5 U1-3B 3/16" x 1/4" 5 U1-4A 1/4" x 1/4" 25 U1-4B 1/4" x 1/4" 25 U1-4B 1/4" x 1/4" 25 U1-4C 1/4" x 1/4" 25 U1-4B 1/4" x 1/4" 25 U1-4C 1/4" x 3/8" 10 U1-4D 1/4" x 1/2" 10 U1-5A 5/16" x 3/8" 5 U1-5B 5/16" x 1/8" 5 U1-5C 5/16" x 3/8" 10 U1-6A 3/8" x 1/4" 10 U1-6B 3/8" x 1/4" 10 U1-6C 3/8" x 3/8" 10 U1-6E 3/8" x 3/4" 5 U1-6B 3/8" x 1/2" 10 U1-6E 3/8" x 3/4" 5 U1-8B 1	· · · · · · · · · · · · · · · · · · ·	MADE : In USA :	x Male	
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U1-10E 5/8" x 3/4" 5 U1-12C 3/4" x 3/8" 2				
U1-12C 3/4" x 3/8" 2				
U1-12E 3/4" x 3/4" 2				
U1-14E 7/8" x 3/4" 2				-

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
US3-1014	5/8" x 7/8"	2
US3-1212	3/4" x 3/4"	5
US3-1214	3/4" x 7/8"	2



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

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





Neoprene seal; small packs



NFT5-4

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

Flare Union

MADE :

Reducing Flare Union **MARKE** Female Flare x Flare Adapter

MADE :



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



UR2-84

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



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 FlareMAREx Female FlareConnector

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

Swivel Female Flare Connector

US4-10

SIZE

1/4"

5/16"

3/8"

1/2"

5/8"

QTY.

10

5

10

10

5

PART NO.

US4-4

US4-5

US4-6

US4-8

US4-10

MADE *

Swivel Female Flare x Solder Adapter



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US5-1212

SIZE	QTY.
1/4" x 1/4"	5
3/8" x 3/8"	5
1/2" x 1/2"	5
5/8" x 5/8"	5
3/4" x 3/4"	2
	1/4" x 1/4" 3/8" x 3/8" 1/2" x 1/2" 5/8" x 5/8"

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 on vacuums to pressures of 5,000 psi depending on size, material, and conditions

- Vibration-resistant
- Low cost
- Easy assembly

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

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

Extra Long Flare x Male Pipe Adapter



UX1-4B

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

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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 MARE 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



UX2-4

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



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





81LB-4

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MADE :





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



MADE :

MADE :

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

EII

Street Ell



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





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

Close Nipple



MADE IN USA

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-E	3/4"	5

Hex Head Plug (P3)



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

Tee





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



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 guality 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

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



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

Pipe Shears

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



RT52000

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

Aluminum Pipe Wrench



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

Water Pump Pliers

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

Rolock Pliers

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

Machine Grooved Joint Pliers



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

60



RT70532

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



PART NO.	SIZE
RT70534	12" Machine grooved joint pliers

Ro-Grip

Self-adjusting rhombus-shaped jaws securely grab round, hex, sheets, and other shapes up to 1-5/8" OD

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

Minibend® tube bender

RT25151

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



RT70558 Ro-Grip self-adjusting pliers

Adjustable Wrench

SIZE

Slim profile; Extra-wide jaw opening

PART NO.

Designed for TXV/TEV Valves, motor mounts, gas lines, pumps and more 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

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

RT90614 Hand tube bender



Maxi tube bender set for use on copper and soft aluminum 3/8", 1/2", 5/8", 3/4", and 7/8" OD RT23022

Spring Tube Benders

For use with soft copper, aluminum, brass and steel

Standard Tube Bender Pro

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



RT25140

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

Flaring Tool 45°



	SPRING TUBE BEND	ER SETS
PART NO.	DES	CRIPTION
BS-55	1/4", 5/16", 3/8", 1/2", 5/8" in p	oouch
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"

45° Flare Tool



MADE IN USA



 PARTINO.
 DESCRIPTION

 RT222402
 Flares: 1/8", 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" OD

Ratcheting 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

Flare Tool

F	PART NO.	DESCRIPTION
۲	Г30600	Flares: 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" OD

45° Flare/Swage

MADE

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"							





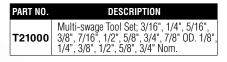
PART NO.	DESCRIPTION
RT222601	Flare tool; adjustable from 3/16" to 5/8" OD

MADE

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Multi-Swage





Multi-Swage

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

Braze-Rite Adapter

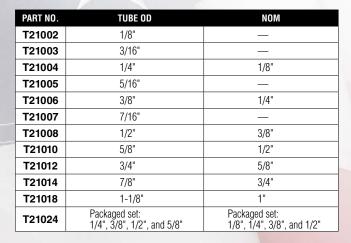




Single Size Swage Tools

For use with copper tube

Stepped nitrogen purging adapter for AC/R pipe





Deburring Tools

For copper and plastic tube



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	eburring tool (blade non-replaceable)							
RT21655	1	Deburring tool							
RT21652	2	Replacement deburring blades							
RT21652B	10	Replacement deburring blades							

Metal Flare Size Gauge

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)

Fin Straighteners



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

"JB Industries is synonymous with high quality and premier partner. We value our customers and strive to produce the highest quality products in the HVACR industry. I'm proud to be part of the JB team."



SM-18 Solenoid Valve N = V/A **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

PLUNGE

PLUNGER OPENED WITH SM-18

PLUNGER CLOSED POSITION

PLUNGE



PART NO. SM-18 18mm Solenoid Magnet

66

Torque Wrench Kit

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



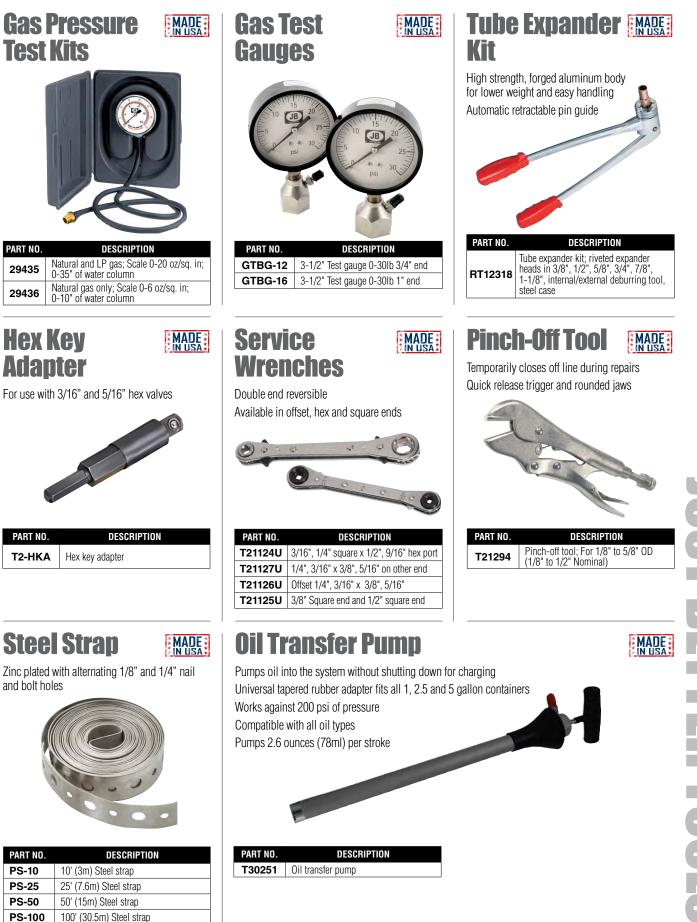
PART NO.	DESCRIPTION
TRQ-1080	Torque wrench kit; six spanner heads: 17, 22, 24, 26, 27, 29mm

Imperial Spanner Heads

For use with TRQ1080 torgue wrench



DESCRIPTION



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	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 TubeMADEGauge 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)

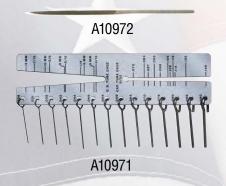
Cap Tube Cutting Tool

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				



 PART NO.
 DESCRIPTION

 A10973
 Cap tube cutting tool



Capillary Tubing Length Conversion Chart

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

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

Example:

Recommended cap tube: 9'-.040 ID Locate .040 in left hand column. Read across the recommended conversion:

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

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

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

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

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

		PART NO.															
CAP TUBE ID	TC-26 (.026)	TC-31 (.031)	TC-36 (.036)	TC-42 (.042)	TC-44 (.044)	TC-49 (.049)	TC-50 (.050)	TC-54 (.054)	TC-55 (.055)	TC-59 (.059)	TC-64 (.064)	TC-70 (.070)	TC-75 (.075)	TC-80 (.080)	TC-85 (.085)	TC-90 (.090)	TC-100 (.100)
.024	1.44																
.025	1.20																
.026	1.00	2.24															
.028	.72	1.59															
.030	.52	1.16															
.031	.45	1.00	2.00														
.032		.86	1.75														
.033		.75	1.54														
.034		.65	1.35														
.035		.58	1.16	2.31													
.036		.50	1.00	2.10													
.037		.45	.90	1.79	2.22												
.038		.39	.80	1.59	1.92												
.039		.35	.71	1.41	1.75												
.040		.31	.62	1.25	1.55	2.51											
.041		.28	.56	1.12	1.38	2.26	2.50										
.042		.25	.50	1.00	1.24	2.03	2.23										
.043		.23	.45	.87	1.11	1.83	1.98										
.044		.20	.39	.81	1.00	1.62	1.79	0.00									
.045			.35	.73	.90	1.47	1.60	2.32	0.07								
.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	0.14							
.050 .051				.45 .41	.56 .51	.91 .84	1.00 .93	1.43 1.31	1.56 1.44	2.14 1.96							
.052				.41	.47	.76	.95	1.19	1.44	1.90							
.052					.47	.69	.78	1.09	1.20	1.64							
.054					.43	.65	.70	1.00	1.09	1.52	2.18						
.055					.36	.59	.64	.92	1.00	1.38	2.00						
.056					.00	.54	.60	.85	.94	1.27	1.85						
.057						.50	.55	.79	.87	1.17	1.72						
.058						.46	.51	.73	.80	1.07	1.56						
.059						.42	.47	.67	.73	1.00	1.44	2.18					
.060						.39	.43	.62	.67	.93	1.33	2.04					
.064							.32	.47	.50	.69	1.00	1.50	2.07				
.070								.30	.33	.46	.67	1.00	1.37	1.84			
.075											.48	.73	1.00	1.37	1.75		
.080												.54	.74	1.00	1.32	1.71	
.085													.57	.76	1.00	1.29	
.090													.43	.62	.76	1.00	1.62
.095														.46	.60	.79	1.27
.100															.48	.62	1.00
.105																.49	.80
.110																	.65
.115																	.53
.120																	.43

R134a Automotive Couplers



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





AC-13430



R134a Automotive Quick Adapter



Retrofit existing SAE flare fitting for R134a auto service



QC-13445-134a

MADE :

QC-S4A-134a

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 Thread Half Union

MAREAutomotiveOnOil Tap Tube

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



AF-13450



AF-13451

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

70



PART NO.DESCRIPTIONA33600Automotive oil tap tube





1/2" ACME x 1/8" NPTF with cap



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

Cool Gel™

* MADE *

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



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

MADE

Pipetite-Stik®

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

Non-toxic and lead-free

Sealing temperature to 350°F (177°C)

Pressures to 2,000 psi (136 bar) for liquids and 350 psi (24 bar) for gases



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



PART NO.	QTY.	DESCRIPTION
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 $\ -50^\circ\text{F}$ to 500° F (-46°C to 260°C)

Pressures 3,000 psi (204 bar) for gas, 10,000 psi (680 bar) for liquid.



 PART NO.
 QTY.
 DESCRIPTION

 42019
 12
 Slic-Tite® 8oz bottles

Heat-Seal Stik[®] MARE

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
96822	12	Red Valve Action [™] paint marker
96823	12	Black Valve Action [™] paint marker
96820	12	White Valve Action [™] paint marker

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
- F6-DP: 3 years OTC
- Vacuum Pumps (PLATINUM, ELIMINATOR): 2 years OTC
 - Rebuilt Vacuum Pumps: 6 months
 - Out of Warranty Vacuum Pump Repairs: 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: Applies ONLY to newly purchased F6[™] Refrigerant Recovery Unit (3 year OTC) and PLATINUM[®] or ELIMINATOR[®] Vacuum Pumps (2 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 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

Every effort has been made to provide 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

Over-the-Counter (OTC) Warranty: Applies ONLY to newly purchased F6[™] Refrigerant Recovery Unit (3 year OTC) and PLATINUM[®] or ELIMINATOR[®] Vacuum Pumps (2 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: 2 Year OTC Warranty

All warranty statements apply to both PLATINUM and ELIMINATOR pumps.

JB Industries vacuum pumps are warrantied to be free of defects in materials and workmanship for a period of two years 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

MPORTANT: OIL LEVEL MUST BE ABOVE Haif way in sight giass

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

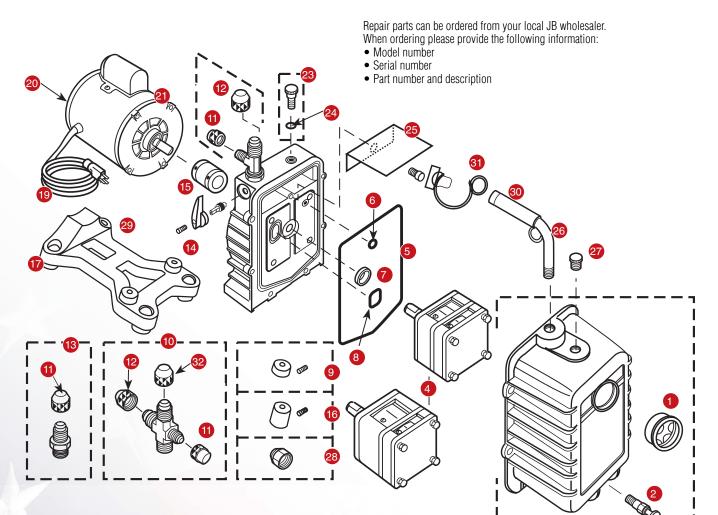
JB Industries warrants the F6-DP Refrigerant Recovery Machine to be free from defects of materials or workmanship for three years from the date of purchase. JB Industries does not warrant any machine that has been subjected to misuse, negligence, or accident, or has been repaired or altered by anyone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





(1)

"The people and products at JB are wonderful. My favorite JB product...Vacuum pumps of course! They are my expertise and I enjoy building them."

 Fausto Diaz, Pump Production and Repairs Supervisor

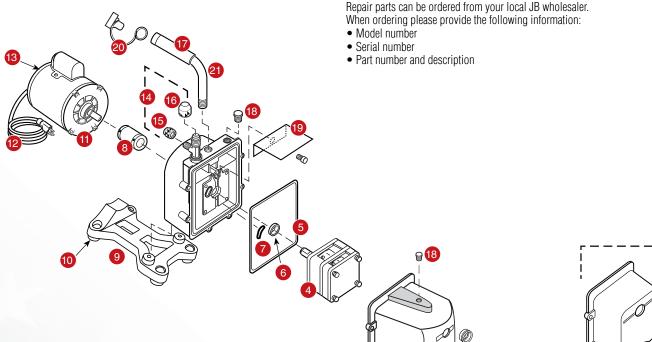
PLATINUM[®] Vacuum Pump Repair DV-42N through DV-285N Series

	PLAT	TINUM SERIES REPAIR PARTS – ALL MODELS
REF.NO.	PART NO.	DESCRIPTION
1	PR-1	Sight glass
2	PR-2	Drain valve
6	PR-211	Trap o-ring, gas ballast
7	PR-3	Shaft seal
8	PR-315	Trap o-ring, intake
9	PR-4	Rubber foot and screw assembly (1 per package)
10	PR-76	Intake caps w/cross
11	NFT5-4	1/4" O-ring, intake
10	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	2-1/2" Flexible coupler*
15	PR-308	Flexible section only
15	PR-6	2-1/4" Flexible coupler*
	PR-77	1-5/8" Middle section; use w/PR-6 flexible coupler*
16	PR-42	Motor foot w/screw
17	PR-59	Base foot
10	PR-31	Line cord (Emerson motor) old style
19	PR-58	Line cord (Marathon motor) new style
20	PR-54	Rocker switch w/wire leads (Emerson) models since 2004
	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
27	PR-22	Oil fill plug w/o-ring
28	PR-56	Adapter nut w/nut o-ring
20	PR-500	Cushion and cap 3/8" NPT
30	PR-501	Cushion and cap 1/2" NPT
04	DV-EP6	Tethered safety cap 3/8" NPT
31	DV-EP8	Tethered safety cap 1/2" NPT
32	NFT5-8	1/2" Cap w/o-ring

PLATII REF.NO.	NUM SERIES Part no.	REPAIR PARTS – MANUFACTURED AFTER JANUARY 2001 Description			
3	PR-300	$\ensuremath{DV-42N}\xspace$ through $\ensuremath{DV-200N}\xspace$ cover assembly w/sight glass and drain value			
	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			
13	PR-32	1/4" Intake w/cap			
5	PR-311	Cover seal			
20	PR-35	Rocker switch w/prongs (Marathon 1101-0105)			
29	PR-62	Pump base (includes feet); fits all pumps with serial #0101 and higher			
PLATIN	UM SERIES	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			
	PLAT	INUM SERIES REPAIR PARTS – NOT SHOWN			
PR-18	Cartridge v	Cartridge valve repair kit (includes DV-285N as of 2007 models)			
PR-52	DV-285N (DV-285N Cartridge valve repair kit (prior to 2007 models)			
PR-45	Pump repair kit PR-1, PR-2, PR-4(2), PR-42, PR-208				
PR-211	Trap gas ba	Ilast o-ring			

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





3 Black hammertone cover

no longer available

Current chrome cover will fit older black ELIMINATOR models

ELIMINATOR SERIES REPAIR PARTS PART NO. DESCRIPTION REF.NO. PR-1 1 Sight glass* 2 PR-2 Oil drain valve* DV-3E, DV-4E and DV-6E cover assembly w/sight glass, drain 3 PR-10 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* PR-308 7/8" Middle section; used w/PR-208 2-1/2" Flexible coupler* 8 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

ELIMINATOR SERIES REPAIR PARTS REF.NO. PART NO. DESCRIPTION PR-206 1/2 HP. 115v/60Hz motor w/line cord and switch 1/2 HP, 115/230v, 50/60Hz dual voltage motor w/line cord PR-207 11 and switch (not shown) 1/2 Hp, 115/230v, 50/60 Hz Spark Proof Motor PR-307 (not shown) PR-31 6' Line cord (Emerson® motor) 12 PR-58 6' Line cord (Marathon® motor) **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 NFT5-4 1/4" O-ring cap 15 16 NFT5-6 3/8" O-ring cap 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 DV-EP6 3/8" Red tethered safety exhaust cap 20 DV-EP8 1/2" Red tethered safety exhaust cap PR-205 3/8" Cushioned handle 21 **PR-65** 1/2" Cushioned handle

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

Manifold Rebuild Kits

Rebuild kits are available for all manifold series

Standard rebuild kits include a stem, nut, piston with seat, and o-rings Premium rebuild kits feature two standard kits plus two handwheels and screws

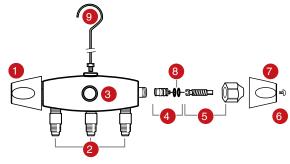
Caution: gauges and hoses not specified for R410A can damage product and cause injury $\label{eq:cause}$

	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 0-rings (2)				
9	M2-102N	Hanging hook			

ZEPPELIN® 2-Valve Aluminum Series

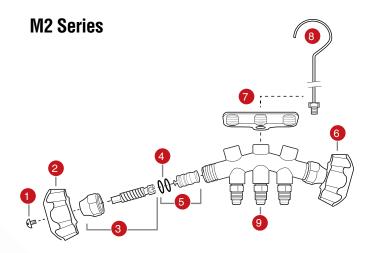


ZEPPELIN 2-VALVE ALUMINUM					
REF.NO.	PART NO. DESCRIPTION				
1	MR-601	Handwheel and screw			
2	U1-4A	1/4" Intake			
3	MR-525	Sight glass			
4	MR-505	Piston w/seat and o-rings			
5	MR-516	Stem and nut			
6	MR-601	Handwheel and screw			
7	MR-503	Handwheel screws (two)			
8	MR-509	O-rings (two)			
9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

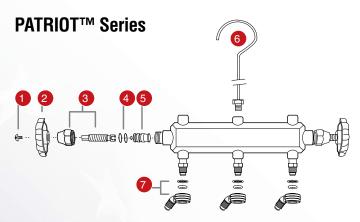
ZEPPELIN® 4-Valve Aluminum Series

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





	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 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	Ball valve kit including: seals (2), stem (1), o-rings (2) and washer (1)			
4	MR-444	1/4" Retainer fitting			
5	MR-446	3/8" Retainer fitting			
6	MR-611	Throttle ball			
7	MR-610	Ball			
8	MR-504	1/4" Hose holder sleeve and o-rings			
9	MR-506	3/8" Hose holder sleeve and o-rings			
10	MR-525 Sight glass w/o-ring				

100-A57	122-C57	2504421	2775923	2857623	2933125
100-B57	122-D57	2505021	2777023	2858023	2933225
100-C57	122-E57	2505821	2777223	2858223	2933325
100-D57	1349346	2506521	2777423	2858423	2933525
100-E57	1349446	2506921	2777623	2858623	2933625
101-A57	19571	2510021	2778023	2858823	2933725
101-A		2510821	2	2859223	
	22125		2778223		2943567
101-C57	2213118	2512521	2778423	2859623	29436 67
101-D57	2213318	2513321	2778623	2859723	29860-CV 17
101-E57	22225 18	2514021	2778823	2859923	29865-CV 17
103-A57	22225CM 18	2514421	2785223	2873223	2VZR-P77
103-B57	22225L 18	2515021	2785423	2873523	2VZR-S77
103-C57	22233 18	2515821	2785923	2875223	3074417
103-D57	22233CM18	2516521	2787023	2875423	33112N
103-E57	22233L	2516921	2787223	2875923	33112RK 28, 31
110-BA57	22246	25200	2787423	2877023	33113N
110-CA57	22240	25208	2788023	2877223	
					33115N31
110-CB57	22500 18, 32, 33	25225	2788223	2877423	33115RK 28, 31
110-DA57	22505 18, 32, 33	25225L21	2788423	2877623	33116N31
110-DB57	22525 18	2523321	2788623	2878023	4201971
110-DC57	22531 18	25233L21	2788823	2878223	4VZR-P77
110-EA57	22725 18	2524021	2795223	2878423	4VZR-S77
110-EB57	22733 18	2524621	2795423	2878623	744-GK 17
110-EC57	22733RF-18 18, 26	2524821	2795923	2878823	81LB-456
110-ED57	24000	25250	2797023	2883223	9682071
110-FD57	24008	25258	27972	2883523	9682271
110-FE57	2402520	25265	2797223	2885223	9682371
				2885223 2885423	
11175	2403320	2526921	27980		A10971
112-A57	2404020	2532521	2798223	2885923	A1097268
112-B57	24044 20	2542521	2798423	2887023	A1097368
112-C57	2405020	2550021	2798623	2887223	A3100237
112-D57	2405820	2550821	2798823	2887423	A3100337
112-E57	24065 20	2552321	2810223	2887623	A3100437
113-A1556	2406920	2552521	2810523	2888023	A31004-CJ39
113-A256	2410020	2553321	2817023	2888223	A31004S37
113-A25	2410820	2554821	2817223	2888423	A31005
113-A3	2412520	25550	2817423	2888623	A31006
113-A35		25558		2888823	
	2413320		2817623		A3100837
113-B1556	2414020	2557321	2818023	2893223	A3100937
113-B256	2414420	2560821	2818223	2893523	A3101137
113-B2556	2415020	2570821	2818423	2895223	A3101237
113-B356	2415820	2571321	2818623	2895423	A3113438
113-B3556	2416520	2582521	2818823	2895923	A3113538
113-C1556	2416920	2583321	2819223	2897023	A3113638
113-C256	2420020	26000 19	2819623	2897223	A31138
113-C2556	2420820	26008 19	2819723	2897423	A3114038
113-C356	24225	26025 19	2819923	2897623	A3114238
113-D1556	24233	26033 19	2820223	2898023	A31144
113-D256	2423320		2820223	2898223	A3114838
		26040			
113-D25	2424420	26044	2827023	2898423	A31154
113-D356	24250	26100	2827223	2898623	A31155
113-D3556	2425820	2610819	2827423	2898823	A31156
1150971	2426520	2612519	2827623	2926025	A3116039
1151171	2432520	2613319	2828023	2926325	A3116239
1157571	2442520	2614019	2828223	2928025	A3116439
116-A57	2450020	2614419	2828423	2928525	A3116839
116-B57	24508 20	26200 19	2828623	2929025	A31199
116-C57	24525	26208 19	2828823	2929225	A31200
116-D57	2453320	26225	2829223	2929525	A31201
121-A57	2460020	26225L 19	2829223	2929525	A31207
121-B57	24608	26233 19	2829723	2931025	A31204
121-C57	2461520	26233L 19	2829923	2931125	A31234
121-D57	2500021	26240 19	2850223	2931225	A3123542
121-E57	2500821	26244 19	2850523	2931525	A3123642
121-F57	2502521	26246 19	2857023	2931625	A3123842
122-A57	2503321	2775223	2857223	2931725	A3133438
100 0 57	2504021	2775423	2857423	2933025	A3133538
122-B57	L00 /0				

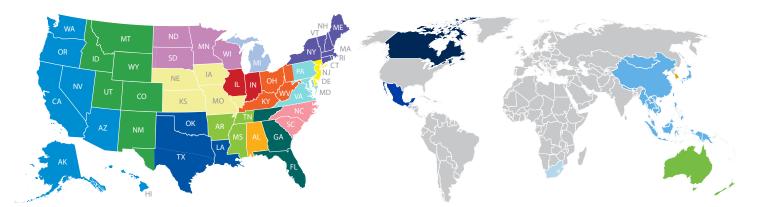
A3133638	A3270041	CCL-60	CL6-72Y30	CLS-48Y28	CM-VC00335
A3133838	A32701 41	CCL-7231	CL64-6030	CLS-600B28	CM-VC01035
A3134038	A3270241	CCLBV-3629	CL6HD-36	CLS-600R28	CM-VC10035
A31342	A3270341	CCLBV-48	CL6HD-48	CLS-600Y28	CM-VCO2535
A31344	A3270441	CCLBV-60	CL6HD-60	CLS-60B28	CV-20004
		CCLBV-0029 CCLBV-72		CLS-60B28	
A31348	A3280437		CL6HD-72		CV-2000647
A3142442	A3280537	CCLBV4-3629	CL744-3617	CLS-60Y28	D101627
A3143441	A3280637	CCLBV4-4829	CL744-6017	CLS-72B28	D102447
A3144442	A3280837	CCLBV4-6029	CL84-6030	CLS-72R28	D102667
A3145242	A32810	CCLBV4-7229	CLBV-36B29	CLS-72Y28	D1043631
A31454 42	A3281237	CCLE-3629	CLBV-36R29	CLS-900B28	D1047231
A3148242	A3281437	CCLE-4829	CLBV-36Y29	CLS-900R28	D1063631
A3148442	A3281837	CCLE-6029	CLBV-48B29	CLS-900Y28	D1066031
A3149242	A3290437	CCLE-7229	CLBV-48R29	CLS5-36B28	DM4-BRK 15, 16
A3149442	A3290537	CCLE4-3629	CLBV-48Y29	CLS5-36R28	DM4-BT 15, 16
A3151242	A3290637	CCLE4-4829	CLBV-60B29	CLS5-36Y28	DM4-CS 15, 16
A3151442	A32908	CCLE4-60 15, 16, 29	CLBV-60R29	CLS5-48B28	DM4-R16
A3152041	A32910	CCLE4-72	CLBV-60Y29	CLS5-48R28	DM4-RW15
A3152241	A3291237	CCLRF-18	CLBV-72B	CLS5-48Y28	DM4-STRP 15, 16
	A3291237 A32914	CCLS-3628	CLBV-72B29 CLBV-72R29	CLS5-60B28	,
A31614 42					DM4-TC 15, 16
A3165632, 33, 47	A3300045	CCLS-4828	CLBV-72Y29	CLS5-60R28	DM4-Z16
A3166532, 33, 47	A3300440	CCLS-6028, 32, 33	CLE-1200B29	CLS5-60Y28	DM4-ZW15
A3172043	A3350047	CCLS-7228	CLE-1200R29	CLS5-72B28	DMG2-5 17
A3172243	A3360070	CCLS4-3628	CLE-1200Y29	CLS5-72R28	DMG2-8 17
A3172343	A3400047	CCLS4-4828	CLE-120B29	CLS5-72Y28	DMG2-CASE 17
A3172443	A34000D 11	CCLS4-6028	CLE-120R29	CLSX-36B27	DMG2-TC 17
A3172543	AC-1343070	CCLS4-7228	CLE-120Y29	CLSX-36R27	DMG2-VAC17
A3172643	AC-1343570	CCLS5-3628	CLE-300B29	CLSX-36Y27	DS-2000014
A3172741	AC-1553070	CCLS5-4828	CLE-300R29	CLSX-48B27	DS-20000S14
A3172843	AC-1553570	CCLS5-6028, 32, 33	CLE-300Y29	CLSX-48R27	DSR-1014
A3172943	AF-1345070	CCLS5-7228	CLE-36B29	CLSX-48Y27	DSR-2014
A3173442	AF-1345170	CCLV-36	CLE-36R29	CLSX-60B27	DSR-3014
A3173643	AF-1345270	CCLV-48	CLE-36Y29	CLSX-60R27	DV-142BP4
A3185140	AF-1345570	CCLV-6	CLE-48B29	CLSX-60Y27	DV-142N5
A3185240	AF-1345770	CCLV-60	CLE-48R29	CLSX-72B27	DV-142N-2505
A3185340	AF-1355070	CCLV-72	CLE-48Y29	CLSX-72B27	DV-142N-250EU5
A3185440	AVK-001	CCLV4-36	CLE-600B29	CLSX-72Y27	DV-142N-250UK5
A3185640	B1-10	CCLV4-30	CLE-600B29 CLE-600R29	CLSX-72127 CLSX-RH27,31	
A3186440	B1-1250	CCLV4-48	CLE-600Y29	CLSX-RK 27,31	DV-200N5
	B1-1250	CCLV4-00		CLV-36B	DV-200N-2505
A31985					DV-200N-250EU5
A31985-100	B1-450	CL-36B31	CLE-60R29	CLV-36R	DV-200N-250SP5
A3198645	B1-650	CL-36R	CLE-60Y29	CLV-36Y30	DV-200N-250UK5
A3199246	B1-850	CL-36Y31	CLE-72B29	CLV-48B30	DV-22N 10
A31992-10046	B2-1050	CL-48B31	CLE-72R29	CLV-48R30	DV-24N 10
A3199746	B2-1250	CL-48R31	CLE-72Y29	CLV-48Y30	DV-27N 10
A3199846	B2-350	CL-48Y31	CLE-900B29	CLV-60B30	DV-285N5
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Domestic

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OSCAR LOPEZ Vice President of Sales P: 817.366.0903 E: oscar@jbind.com

JENNY HONN Director of Sales P: 404.849.0371 E: jhonn@jbind.com

TOM MUNCEY Director of Sales P: 847.922.7480 E: tmuncey@jbind.com

PRESTON COLLIER Sales Representative P: 765.639.9711 E: prestonc@jbind.com

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MIKE TOELLE Regional Sales Manager P: 402.720.2022 E: mtoelle@jbind.com

GIMPER IV Dan Clark P: 518.885.8901 E: gimper2@aol.com

ENGINEERING EQUIPMENT SALES Nicole Elia

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LEONE GREEN AND ASSOCIATES Frank Leone P: 800.843.6034 E: sales@leonegreen.com

CHRISTIAN AND COMPANY Jeff Christian P: 248.851.5660 E: jjchvac@aol.com

RAC SALES Brad Rinderknecht P: 763.785.7000 E: racsales@racsalesinc.com

JIM / JILL MALONE P: 817.263.1171 / 817.307.8706 E: jimmalone@sbcglobal.net

SARRIO SALES Barry Sarrio P: 901.230.8777 E: barry@sarriosales.com

CKA SALES Steve Graves P: 614.619.6148 E: steve.graves@ckasales.com

MJM ASSOCIATES Camden Marklowitz P: 303.790.7000 E: cmarklowitz@mjmassoc.com DOUG GROBERG President JB International P: 630.851.9444 E: dgroberg@jbind.com

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ALLTEMP PRODUCTS Howard Green P: 800.263.4624 E: sales@alltemp.ca

ASPEN PUMPS ASIA PACIFIC PTY LTD Brett Spicer P: +61 (08) 8186 4666 E: brett.spicer@aspenpumps.com.au

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Jonathan Brenis P: 216.214.2647 E: jonb@jbind.com

MRE INTERNATIONAL

Shepard Goodman P: 310.459.1333 F: 310.459.5740 E: acexporter@aol.com

KRUEGER AND KRUEGER Urnie Krueger P: 630.561.5745 E: ukrueger@sbcglobal.net

QFC USA Andrew Uy

P: 909.627.7488 E: qfcusa@gmail.com

COMARTCO Dong Yeol Lee P: 822.858.0051 E: comartco@naver.com

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