



YELLOW JACKET®
Charging Systems –
for just the right
measure of refrigerant

NEW
BRUTE II™ Manifold page 43

NEW
Digital Refrigerant
Analyzer page 42

YELLOW JACKET® Charging Systems – technology and tools to accurately measure and conserve refrigerant.

With too little or too much refrigerant, systems run inefficiently, using more electricity than necessary. And now with the soaring cost of refrigerant, energy, and labor, accurate measurement is more important than ever. That's why YELLOW JACKET® Charging Manifolds and gauges are carefully assembled and fully inspected for accuracy in all of these jobs:

- Check system pressure
- Charge vapor refrigerant into systems
- Charge liquid refrigerant into high side
- Purge condenser
- Charge oil into compressor
- Pull vacuum
- Test for leaks
- Set controls

From the full line of YELLOW JACKET® 2- and 4-Valve Charging Systems you can find just what you need for your business and budget. And all are built to last.

With either models you have full capabilities for every application. 4-valve models add a fourth hose and the following capabilities for increased efficiency and speed.

- Simultaneously connect to high and low sides, vacuum pump and recovery unit or refrigerant tank
- Diagnose, evacuate, and charge without switching hoses

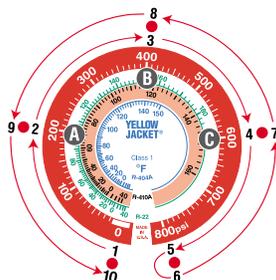
Certified Gauges for your confidence and convenience



You make decisions based on what your gauge is telling you. Now you can have greater confidence in your measurements and

decisions with a line of certified YELLOW JACKET Class I Replacement Manifold Gauges and Manifolds with Class I gauges.

YELLOW JACKET gauges have always been manufactured and calibrated to NIST standards (National Institute of Standards and Technology). The standard Ritchie procedure has been to measure for accuracy at five points: two times – up the scale and then back down. Many manufacturers measure at only three points (A, B, C)



Now, the Ritchie certification process documents the NIST calibration plus compliance to ANSI Z540.1 and ISO 10012 standards. The certification is good for one year and then recalibration is recommended. Serialized, dated certificates are packed with each certified unit.

Certification benefits:

- Convenience and time savings

In the past when you wanted certification, you had to purchase the gauge at one location and then take it to a calibration house. Now you save the time of the second step.

- Easy compliance with a quality policy

Certified gauges help achieve and prove the level of quality that your employer or customer expects.

- Accuracy assurance

Feel confident even if you are servicing critical applications such as ice machines or other equipment with precise charging requirements.

- Convenient documentation to help meet ISO requirements



A calibration certificate accompanies each Calibrated Gauge and the back of each Certified Gauge is clearly identified with a label applied by the certifying Ritchie technician.

Calibration Certificate Information

The certificate packed with each certified gauge provides evidence of calibration standards traceable to NIST and includes a serial number that matches the serial number on the gauge. Ritchie Engineering maintains records of each sale as a back up to your records.

A calibration certificate contains information for necessary traceability.

The following YELLOW JACKET Manifolds include certified gauges:

Series 41 Manifolds 49271, 49272

TITAN™ Manifolds 49281, 49282, 49283

BRUTE II™ Manifolds 49291, 49292

Range of performance for your business and budget



Choice of brass or forged aluminum alloy



Choice of analog or digital gauges



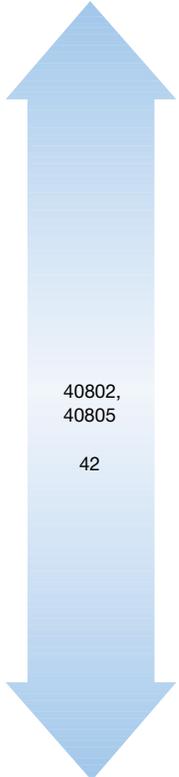
Reliability and durability across the line



A pattern of ongoing innovation

CHARGING SYSTEMS

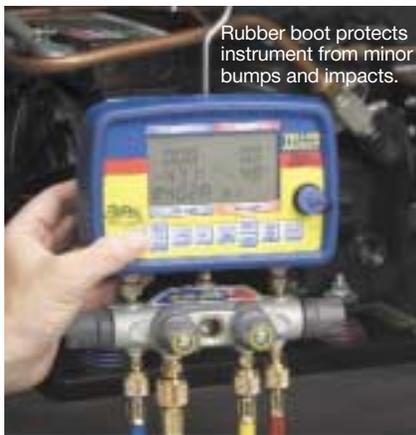
Refrigerant	Series 41			TITAN™ 2-valve		TITAN™ 4-valve		BRUTE II™ 4-valve		Digital Analyzer				
	UPC#		Page	UPC#	Page	UPC#	Page	UPC#	Page	UPC#	Page			
R-12, R-22, R-134a	41842	42007	48											
	41846													
R-12, R-22, R-502	41212	41219	42233	43233	44233	47,	49282	45	49902	44	46020	46081	43	
	41213	41220	42235	43235	44235	48	49801		49905		46021	46082		
	41214	42000	43213	44213	45213		49802		49922		46022	46084		
	41232	42020	43214	44214	45214		49805		49925		46026	49292		
	41233	42213	43215	44215	45215						46080			
	41235	42215	43219	44219	45219									
	41215	42219	43220	44220	45220									
R-134a							49847	45						
R-22, R-134a, R-404A	42005					48	49883	45	49983	44	46040	46090	43	
	42006						49887		49987		46041	46091		
	49272						49889		49993		46042	46092		
									49997		46043	46094		
										46048				
R-22, R-404A, R-410A	42001					48	49281	45	49283	49968	44	46010	46013	43
	42004						49863		49963	49973		46011	49291	
	49271						49867		49967	49977				
							49868							
R-134a, R-404A, R-407C							49831	45	49932	49952	44	46030	46032	43
							49832		49935	49955		46031	46038	
							49835							
R-134a, R-404A, R-507	41311	42010	42435	44311	45314	47,								
	41312	42011	42436	44313	45315	48								
	41313	42313	43311	44314	45319									
	41314	42315	43313	44315										
	41315	42332	43314	44319										
	41319	42333	43315	45311										
	41372	42335	43319	45313										
R-410A	41703	41711	42030			47	49860	45	49960	49965	44	46000		43
	41709	41712	42715				49862		49962	49982		46001		
	41710	41715					49865					46003		



For metric see page 52.

YELLOW JACKET® DIGITAL REFRIGERATION SYSTEM ANALYZER with system modulation bar graph for fast, accurate diagnostics

For time-saving diagnostics, the easy-to-read pressure bar graphs of this patented unit quickly tell you more than you could ever see with the vibrating needle of a typical pressure gauge. You see pressure dynamics to readily know if the system's thermostatic expansion valve is modulating properly, if liquid is flooding back into the systems, and more. Saturation, subcooling, and superheat readings are automatic to eliminate fishing in your wallet for reference cards. This almost immediate knowledge of system behavior and faults can help save up to 10 minutes and more on many jobs.



Features:

- Profiles 22 common refrigerants:

R-12	R-404A	R-416A
R-22	R-406A	R-417A
R-134a	R-407C	R-420A
R-290	R-408A	R-502
R-401A	R-409A	R-507
R-401B	R-410A	R-508B
R-402A	R-414B	R-600A
R-402B		

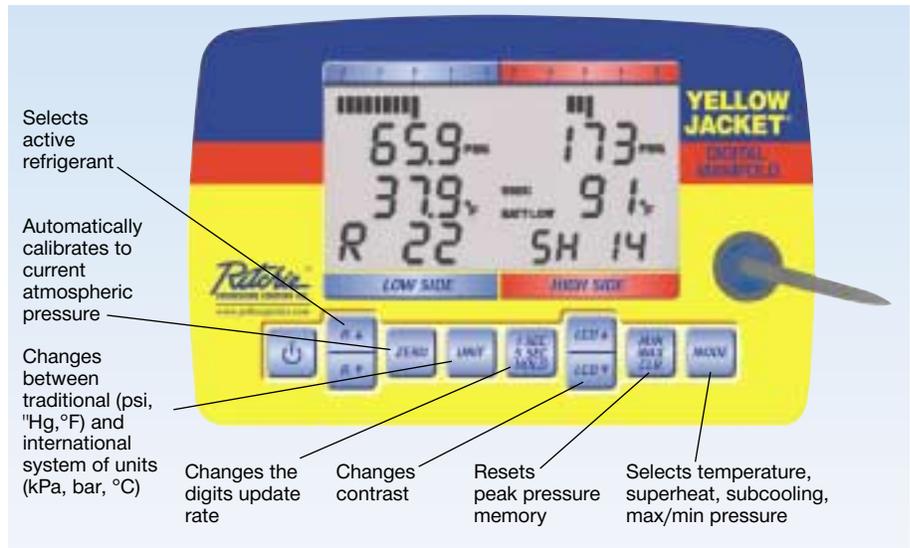
 (Upgradeable for new refrigerants)
- Integrated temperature probe for automatic superheat and subcooling readings
- Max and min pressure monitoring for control set-up
- Auto zero key to eliminate manual recalibration
- Vacuum detection inHg
- Easy-to-read LCD screen with large 3/8" digits

- Rugged case construction with rubber boot to tolerate impact and resist typical oils, acids, and sunlight

Easy to Use:

- Bar graph segments shows changes from digital reading (range of ± 2 psi on low-side, ± 8 psi on high-side)

- Digital readings show resolution of 1/4 psi on low side, 1 psi on high side
- Temperature in middle is corresponding bubble and dew points for current pressures
- Temperature, superheat or subcooling shown on lower right (eg. 14°F superheat)



Specifications:

Pressure accuracy:

0.5% F.S. ± 1 least significant digit, calibration traceable to NIST

Pressure ports:

Two 1/8" acting as low and high side gauges

Working pressure:

Low side: 0-200 psi (1350 kPa, 13.5 bar)
High side: 0-550 psi (3790 kPa, 37.9 bar)

Proof pressure:

Low side: 600 psi (4100 kPa, 41 bar)
High side: 1500 psi (10300 kPa, 103 bar)

Burst pressure:

Low side: 2000 psi (13500 kPa, 135 bar)
High side: 5000 psi (34500 kPa, 345 bar)

Temperature sensor range:

-40° to 250°F (-40° to 125°C)

Temperature accuracy:

$\pm 0.9^\circ\text{F}$ ($\pm 0.5^\circ\text{C}$) between 32° to 158°F (0° to 70°C)

Usage environment:

Indoor/Outdoor dew, splash and rain resistant; do not immerse in water

Storage and operational temperature:

-4° to 122°F (-20° to 50°C)

Power supply:

4 AA Batteries (approx. 6 months under normal use)

Weight:

1.6 lb. (.725 kg)

Dimensions:

6.7 x 4.8 x 2.5" (17 x 12.2 x 6.4 cm)

UPC #	Description
40801	R-410A adapter kit - 1/4" to 5/16" service fitting
40802	Digital analyzer on TITAN™ 4-valve manifold
40805	40802 with 1/4" x 60" RYB and 3/8" x 60" yellow PLUS II™ hoses
41067	Temperature Probe
41068	Extended Manifold Hook
41069	Rubber Boot

Replacement parts for manifold on page 46.

YELLOW JACKET BRUTE II™ 4-Valve Test & Charging Manifold - °F

Forged aluminum alloy body with full 3/8" bore for faster vacuum and charging

The new *BRUTE II*™ 4-Valve Test and Charging Manifold has been trimmed down for lighter weight but with the same powerful performance of the original model. This streamlined unit continues to provide the flow that's proven faster than any conventional manifold. And even though sleeker and more compact, the aluminum alloy is forged for strength and reliability with 3/8" bores through the body to speed the job.

Other Features and Benefits:

- Fourth hose enables connection to hi/lo sides, refrigerant tank, and recovery unit or vacuum pump for diagnostics, evacuation and charging without switching hoses

- 1/4" hi/lo sides with 3/8" vacuum port for regular jobs, or;
- 3/8" hi/lo sides with 1/2" vacuum port for larger systems

- Front access for easy field recalibration

- Proven, double "O"-ring piston for reliability and long service life



- Exclusive 100-mesh filter in-line on all flare fittings helps keep out particulate material and extend the life of the seat
- Contoured easy-grip handles for positive control; color coded for ready identification
- Sight glass to easily view refrigerant movement and condition during charging and recovery
- Heavy-duty hook won't pull out
- Also available with YELLOW JACKET® 3-1/8" (80 mm) red and blue liquid-filled gauges



	New UPC#	Vac. Port	Hi, Lo Charge	Gauge	Hoses	Discontinued BRUTE UPC #
BRUTE II 4-VALVE with 3/8" Vacuum Port						
R-410A	46000	3/8"	1/4"	Red/Blue	Manifold Only	47722
	46001	3/8"	1/4"	Liquid	Manifold Only	46822
	46003	3/8"	1/4"	Red/Blue	60" PLUS II™ Compact Ball Valve - RYB & 3/8" x 45°	n/a
R-22	46010	3/8"	1/4"	Red/Blue	Manifold Only	n/a
	49291*	3/8"	1/4"	Red/Blue	Manifold Only	n/a
	46011	3/8"	1/4"	Liquid	Manifold Only	n/a
R-404A	46013	3/8"	1/4"	Red/Blue	60" PLUS II™ Compact Ball Valve - RYB & 3/8" x 45°	n/a
	46020	3/8"	1/4"	Red/Blue	Manifold Only	n/a
	49292*	3/8"	1/4"	Red/Blue	Manifold Only	46422
R-12, R-22, R-502,	46021	3/8"	1/4"	Liquid	Manifold Only	46812
	46022	3/8"	1/4"	Red/Blue	60" PLUS II™ RYB & 3/8" x 45°	n/a
	46026	3/8"	1/4"	Liquid	72" PLUS II™ RYB & 3/8" x 45°	48819
BRUTE II 4-VALVE COMMERCIAL with increased capacity—larger ports						
R-12, R-22, R-502,	46080	3/8"	3/8"	Red/Blue	Manifold Only	n/a
	46081	1/2"	3/8"	Liquid	Manifold Only	46903
	46082	3/8"	3/8"	Red/Blue	4 @ 3/8" x 60" Heavy Duty - Str. x 45°	n/a
	46084	1/2"	3/8"	Liquid	3 @ 3/8" x 60" Heavy Duty - Str. x 45° 1 @ 1/2" x 60" Heavy Duty - Str. x Str.	46907
BRUTE II 4-VALVE with 3/8" Vacuum Port						
R-134a	46030	3/8"	1/4"	Red/Blue	Manifold Only	n/a
	46031	3/8"	1/4"	Liquid	Manifold Only	n/a
	46032	3/8"	1/4"	Red/Blue	60" PLUS II™ RYB & 3/8" x 45°	n/a
	46038	3/8"	1/4"	Liquid	72" PLUS II™ RYB & 3/8" x 45°	n/a
BRUTE II 4-VALVE with 3/8" Vacuum Port						
R-134a R-404A	46040	3/8"	1/4"	Red/Blue	Manifold Only	n/a
	46041	3/8"	1/4"	Liquid	Manifold Only	n/a
	46042	3/8"	1/4"	Red/Blue	60" PLUS II™ RYB & 3/8" x 45°	n/a
	46043	3/8"	1/4"	Red/Blue	60" PLUS II™ Compact Ball Valve - RYB & 3/8" x 45°	n/a
	46048	3/8"	1/4"	Liquid	72" PLUS II™ RYB & 3/8" x 45°	n/a
BRUTE II 4-VALVE COMMERCIAL with increased capacity—larger ports						
R-22, R-134a	46090	3/8"	3/8"	Red/Blue	Manifold Only	n/a
	46091	1/2"	3/8"	Liquid	Manifold Only	n/a
	46092	3/8"	3/8"	Red/Blue	4 @ 3/8" x 60" Heavy Duty - Str. x 45°	n/a
	46094	1/2"	3/8"	Liquid	3 @ 3/8" x 60" Heavy Duty - Str. x 45°	n/a
					1 @ 1/2" x 60" Heavy Duty - Str. x Str.	

For metric see page 54.

For replacement parts see page 46.

*  Manifold comes standard with certified gauges. For more information on the certification of 3-1/8" gauges, see page 40.

YELLOW JACKET TITAN™ 4-Valve Test & Charging Manifold - °F

Forged aluminum alloy body for increased strength and reliability

The new TITAN™ Test and Charging Manifold is the first forged aluminum manifold in the industry. Special aluminum alloy body makes this unit lightweight for handling ease with the durability and reliability required for repeated, rugged use.

Features/Benefits

- Large, easy-to-read 3-1/8" (80 mm) steel case red and blue, 1% accuracy (Class 1) gauges; front access for easy field recalibration; optional protective gauge boots available
- Proven, double "O"-ring piston for reliability and long service life



- Exclusive 100 mesh filter in-line on all flare fittings helps keep out particulate material and extend the life of the seats
- Sight glass to easily view refrigerant movement and condition during charging and recovery
- Heavy duty hook won't pull out

4-Valve Features/Benefits

- Fourth hose to enable connection to hi/lo sides, refrigerant tank, and recovery unit or vacuum pump for diagnostics, evacuation and charging without switching hoses
- 3/8" vacuum port for use with larger hose to cut evacuation time by up to 33% (all other fittings on unit are 1/4")
- Also available with YELLOW JACKET® 3-1/8" (80 mm) red and blue liquid-filled gauges



	UPC#	Gauges	Hoses	Replaces Bantam#
R-410A	49962	Red/Blue	No hose	45962
	49982	Liquid	No hose	45982
	49960	Red/Blue	60" PLUS II™ Compact Ball Valve - RYB & 3/8" x 45°	45960
	49965	Red/Blue	60" PLUS II™ - RYB & 3/8" x 45°	45965
R-22 R-404A R-410A	49963	Red/Blue	No hose	n/a
	49283*	Red/Blue	No hose	n/a
	49967	Red/Blue	60" PLUS II™ - RYB & 3/8" x 45°	n/a
	49968	Red/Blue	60" PLUS II™ Compact Ball Valve - RYB & 3/8" x 45°	n/a
	49973	Liquid	No hose	n/a
R-12 R-502	49977	Liquid	60" PLUS II™ - RYB & 3/8" x 45°	n/a
	49902	Red/Blue	No hose	45902
	49905	Red/Blue	60" PLUS II™ - RYB & 3/8" x 45°	45905
	49922	Liquid	No hose	45922
R-134a R-404A R-407C	49925	Liquid	60" PLUS II™ - RYB & 3/8" x 45°	45925
	49932	Red/Blue	No hose	45932
	49935	Red/Blue	60" PLUS II™ - RYB & 3/8" x 45°	45935
	49952	Liquid	No hose	45952
R-22 R-134a R-404A	49955	Liquid	60" PLUS II™ - RYB & 3/8" x 45°	45955
	49983	Red/Blue	No hose	n/a
	49987	Red/Blue	60" PLUS II™ - RYB & 3/8" x 45°	n/a
	49993	Liquid	No hose	n/a
	49997	Liquid	60" PLUS II™ - RYB & 3/8" x 45°	n/a

For metric see page 55.

For replacement parts see page 46.

*  Manifold comes standard with certified gauges. For more information on the certification of 3-1/8" gauges, see page 40.

YELLOW JACKET TITAN™ 2-Valve Test & Charging Manifold - °F

Forged aluminum alloy body and large easy-to-read gauges

The new TITAN™ Test and Charging Manifold is the first forged aluminum manifold in the industry. The special aluminum alloy construction of the manifold body makes this unit lightweight for handling ease with the durability and reliability required for repeated, rugged use.

Features/Benefits

- Large, easy-to-read 3-1/8" (80 mm) steel case red and blue, 1% accuracy (Class 1) gauges; front access for easy field recalibration; optional protective gauge boots available
- Proven, double "O"-ring piston for reliability and long service life
- Exclusive 100 mesh filter in-line on all flare fittings helps keep out particulate material and extend the life of the seats
- Contoured easy-grip handles for positive control; color coded for ready identification
- Sight glass to easily view refrigerant movement and condition during charging and recovery
- Heavy duty hook won't pull out



	New UPC#	Gauges	Hoses	Discontinued Bantam UPC #
R-410A	49862	Red/Blue	No hose	45862
	49865	Red/Blue	60" PLUS II™ - RYB	45865
	49860	Red/Blue	60" PLUS II™ Compact Ball Valve - RYB	45860
R-22 R-404A R-410A	49863	Red/Blue	No hose	n/a
	49281 *	Red/Blue	No hose	n/a
	49867	Red/Blue	60" PLUS II™ - RYB	n/a
	49868	Red/Blue	60" PLUS II™ Compact Ball Valve - RYB	n/a
R-12 R-22 R-502	49802	Red/Blue	No hose	45802
	49282 *	Red/Blue	No hose	45802
	49805	Red/Blue	60" PLUS II™ - RYB	45805
	49801	Red/Blue	60" PLUS II™ SealRight™ - RYB	45754
R-134a R-404A R-407C	49832	Red/Blue	No hose	45832
	49835	Red/Blue	60" PLUS II™ - RYB	45835
	49831	Red/Blue	60" PLUS II™ SealRight™ - RYB	45774
R-22 R-134a R-404A	49883	Red/Blue	No hose	n/a
	49887	Red/Blue	60" PLUS II™ - RYB	n/a
	49889	Red/Blue	60" PLUS II™ SealRight™ - RYB	n/a
R-134a	49847	Red/Blue	72" PLUS II™ Acme fittings - RYB	n/a

For metric see page 56.

For replacement parts see page 46.

*  Manifold comes standard with certified gauges. For more information on the certification of 3-1/8" gauges, see page 40.

PROTECTIVE GAUGE BOOTS for 2-1/2" and 3-1/8" gauges

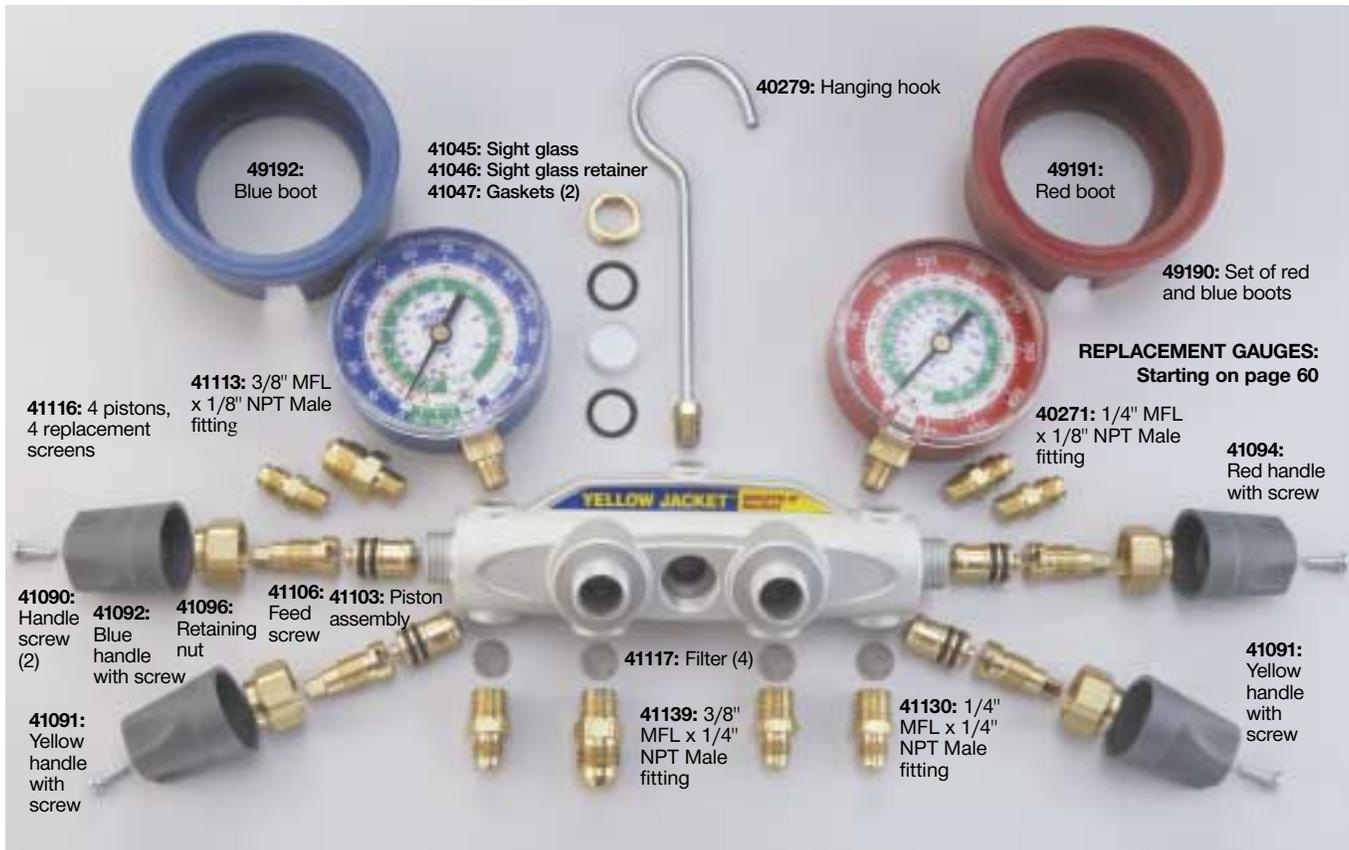
Rubber boots slip easily around gauges to cushion and protect them from impact.

- Fit 2-1/2" and 3-1/8" gauges without covering easy access recalibration screw
- Color-coded red or blue to match gauge



UPC #	Size	Description
49090	2-1/2"	Set of gauge boots
49091	2-1/2"	Red protective gauge boot
49092	2-1/2"	Blue protective gauge boot
49190	3-1/8"	Set of gauge boots
49191	3-1/8"	Red protective gauge boot
49192	3-1/8"	Blue protective gauge boot

BRUTE II™ MANIFOLD REPLACEMENT PARTS



TITAN™ MANIFOLD REPLACEMENT PARTS

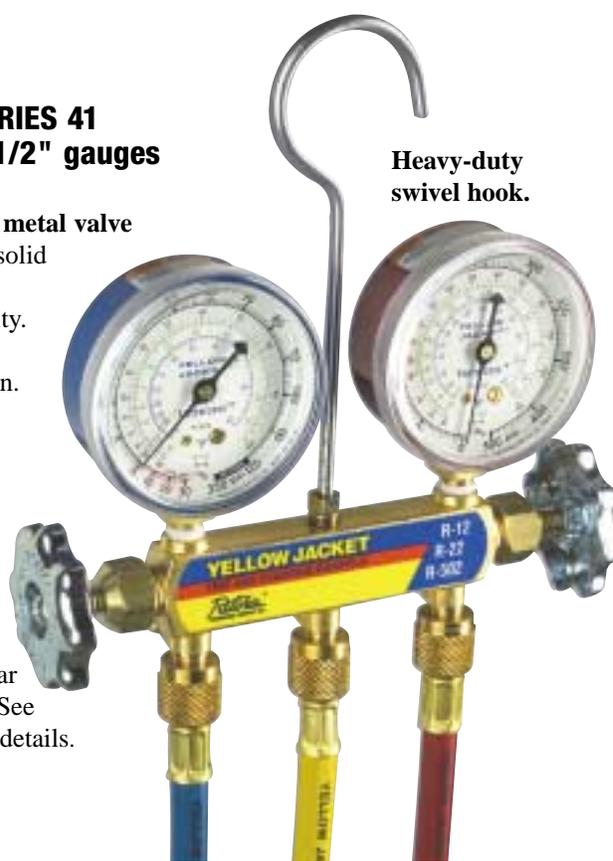


YELLOW JACKET® SERIES 41 MANIFOLDS with 2-1/2" gauges

Forged brass body with metal valve handles. Forged body is solid brass for durability. Full porting maximizes capacity. Metal valve handles are full size for easy operation. Hose anchors are forged into back of body at 45°.

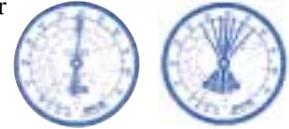
Pretested. Every manifold is individually tested for reliability before shipping.

Limited Lifetime Warranty on manifold bar and valves – not gauges. See manifold instructions for details.



Heavy-duty swivel hook.

Flutterless™ Technology. Surge protector and silicone dampened movement helps minimize needle pulsation for easier, more accurate readings.



Flutterless

Standard

Sliding double "O"-ring pistons. Non-rotating design reduces wear. Only 1-1/2 turns give you full flow. Long-life nylon seat is also for vacuum and R-134a, R-404A, R-507, R-407C, R-410A, etc.

YELLOW JACKET Hoses. Most manifolds include color-coded YELLOW JACKET charging hoses.

Easy-to-read 2-1/2" steel case gauges (°F) with 3-2-3% accuracy.

- 1 Manifold with original HA hose
- 2 Manifold with PLUS II with standard fittings
- 3 Manifold with PLUS II with SealRight™ fittings
- 4 Manifold with PLUS II with FlexFlow™ fittings
- 5 Manifold with PLUS II with compact ball valve

NOTES: Manifolds with some other hose combinations available.

- * Special R-410A hose – R&B hose is 1/4" x 45° 5/16" end; Y hose is 1/4" x 45° 1/4" end.
- See page 57 for R-410A manifolds with 5/16" hose holder fittings.

Refrigerants	Description	No hose	1	2	3	4	5
R-12, R-22, R-502	Basic unit: manifold, gauges, hook and anchors	41212	–	–	–	–	–
	36" RYB hoses	–	41213	43213	44213	45213	42213
	48" RYB hoses	–	41220	43220	44220	45220	–
	60" RYB hoses	–	41215	43215	44215	45215	42215
	72" RYB hoses	–	41219	43219	44219	45219	42219
	36" RYB hoses and case	–	41214	43214	44214	45214	–
R-134a, R-404A, R-507	Basic unit: manifold, gauges, hook and anchors	41312	–	–	–	–	–
	36" RYB hoses	–	41313	43313	44313	45313	42313
	48" RYB hoses	–	41311	43311	44311	45311	–
	60" RYB hoses	–	41315	43315	44315	45315	42315
	72" RYB hoses	–	41319	43319	44319	45319	–
	36" RYB hoses and case	–	41314	43314	44314	45314	–
R-410A	Basic unit: manifold, gauges, hook and anchors	41712	–	–	–	–	–
	60" RYB hoses	–	–	41709	–	41703	42715
	60" RYB hoses special*	–	–	41715	–	–	41711
	HCA 60" hose	–	–	41710	–	–	–

SERIES 41 MANIFOLDS with 2-1/2" gauges (no hose)



Display package

Refrigerants	UPC#	Description	Packaging
R-12, R-22, R-502	41212	Red & blue gauges	Boxed
	42000	Red & blue gauges	Clamshell
	41232	Brass gauges	Boxed
	42020	Brass gauges	Clamshell
R-134a, R-404A, R-507	41312	Red & blue gauges	Boxed
	42010	Red & blue gauges	Clamshell
	41372	Brass gauges	Boxed
	42011	Brass gauges	Clamshell
R-410A	41712	Red & blue gauges	Boxed
	42030	Red & blue gauges	Clamshell

YELLOW JACKET® SERIES 41 MANIFOLDS with 3-1/8" gauges



This field-proven manifold line has now been expanded to include larger, easier to read 3-1/8" color-coded gauges in rugged steel cases with polycarbonate crystals.

Most importantly, these gauges feature 1% accuracy for an exact reading in critical charge systems.

Features

- Wide choice of refrigerant combinations including:
 - R-22, R-134a, R-404A
 - R-12, R-22, R-134a
 - R-22, R-404A, R-410A
- Color-coded scales with bold, easy to read dials.
- Dials with 1% accuracy (Class 1) for critical charge systems.
- Proven sliding double "O"-ring pistons reduce wear.
- Long life nylon seats.
- Forged brass body for durability.
- Full porting maximizes capacity and flow.
- Some models include color-coded, 60" PLUS II™ hoses with standard 1/4" flare fittings.
- Hose assemblies UL recognized for 4000 psi (275 bar) burst and 800 psi (55 bar) working pressure. File# SA9737.

Refrigerants	UPC#	Gauge	RYB Hose
R-12, R-22, R-134A	41842	3-1/8" Red/Blue	None
	42007	3-1/8" Red/Blue	60" PLUS II™ standard fittings
	41846	3-1/8" Red/Blue	72" PLUS II™ with couplers
R-22, R-404A, R-410A	42001	3-1/8" Red/Blue	None
	49271 *	3-1/8" Red/Blue	None
	42004	3-1/8" Red/Blue	60" PLUS II™ standard fittings
R-22, R-134a, R-404A	42005	3-1/8" Red/Blue	None
	49272 *	3-1/8" Red/Blue	None
	42006	3-1/8" Red/Blue	60" PLUS II™ standard fittings

*  Manifold comes standard with certified gauges. For more information on the certification of 3-1/8" gauges, see page 40.

SERIES 41 DELUXE MANIFOLDS – Class 1 (1% accuracy) brass gauges



These manifolds have all the same features as the regular "Series 41" and an important upgrade – the gauges. Manifolds are also available with a variety of hoses.

What makes YELLOW JACKET® brass gauges superior?

YELLOW JACKET is the only U.S.-made manifold to incorporate all the following important features into a truly premium gauge.

1. Upgraded movement with phosphor bronze plates, stainless gears and

pinions. Dissimilar parts create less friction and last longer. FlutterLess™ technology included.

2. Movement calibrated at more points with tighter tolerances for full range Class 1 (1% accuracy).

3. Polished solid brass case.

2-valve manifold – deluxe brass gauges

Refrigerants	Description	No hose	1	2	3	4
R-12, R-22, R-502	No hose	41232	–	–	–	–
	with 36" hose	–	41233	43233	44233	42233
	with 60" hose	–	41235	43235	44235	42235
R-134a, R-404A, R-507	with no hose	42332	–	–	–	–
	with 36" hose	–	42333	–	–	–
	with 60" hose	–	42335	42435	–	42436

1 Manifold with original HA hose

2 Manifold with PLUS II with standard fittings

3 Manifold with PLUS II with SealRight™ fittings

4 Manifold with PLUS II with compact valve

LIQUID CHARGER



Liquid charging is recommended when charging blends into refrigeration and air

conditioning systems. Since compressors cannot compress liquids, however, you need a liquid charger adapter for safe and fast liquid charging through the low pressure side of a system. The YELLOW JACKET adapter connects to the cylinder valve or refrigerant can.

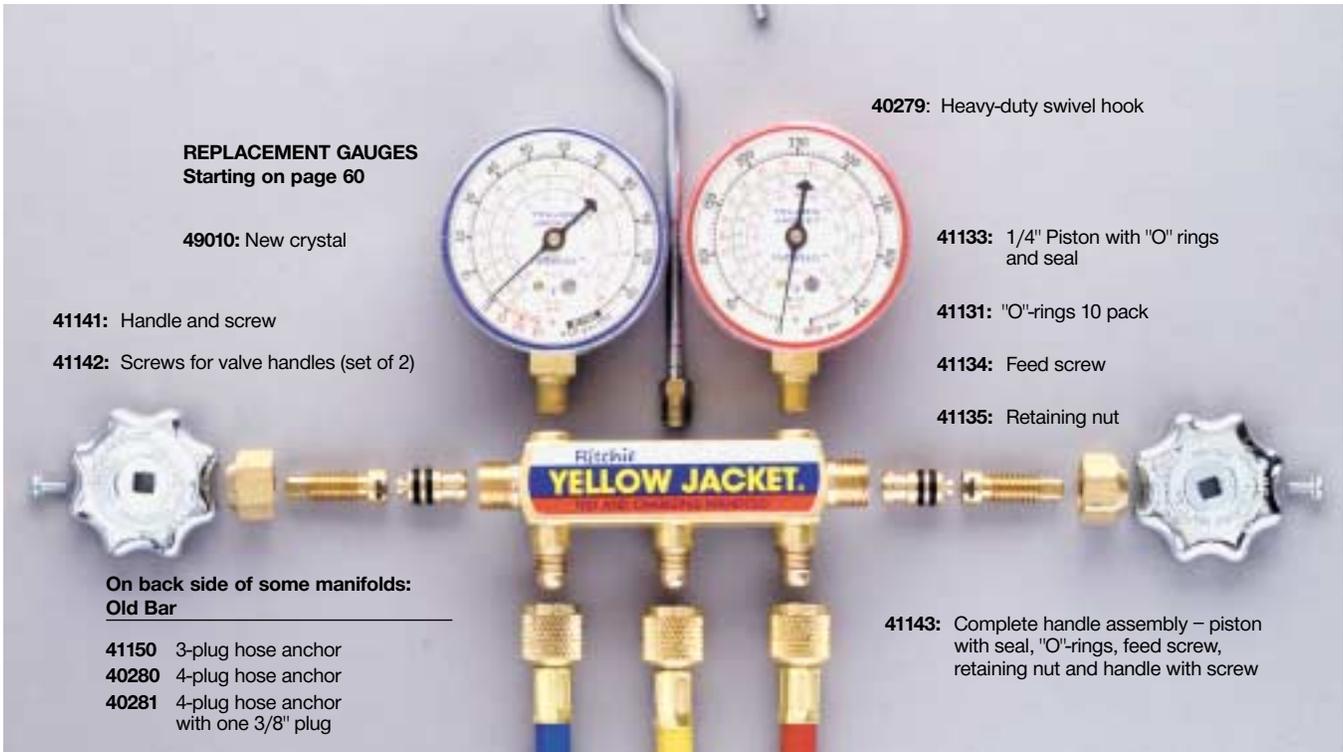
- To protect the compressor, adapter

orifice reduces liquid flow to a level below compressor capacity.

- Eliminates the time and work of heating cylinders.

UPC #	Description
41123	1/4" liquid charging adapter
41124	5/16" liquid charging adapter

SERIES 41 MANIFOLD REPLACEMENT PARTS



REPLACEMENT GAUGES
Starting on page 60

49010: New crystal

41141: Handle and screw

41142: Screws for valve handles (set of 2)

On back side of some manifolds:
Old Bar

- 41150 3-plug hose anchor
- 40280 4-plug hose anchor
- 40281 4-plug hose anchor with one 3/8" plug

40279: Heavy-duty swivel hook

41133: 1/4" Piston with "O" rings and seal

41131: "O"-rings 10 pack

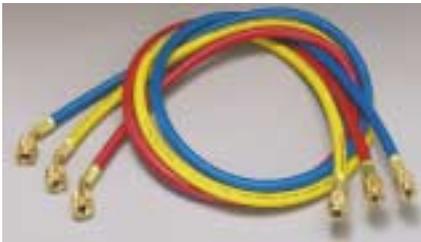
41134: Feed screw

41135: Retaining nut

41143: Complete handle assembly – piston with seal, "O"-rings, feed screw, retaining nut and handle with screw

CHARGING SYSTEMS

YELLOW JACKET® PLUS II™ 1/4" CHARGING HOSES with double barrier protection



working pressure for a 5 to 1 safety factor.

Color-coded 3-Pak

Standard 1/4" fitting or 45° with SealRight fitting at one end.

- Operating temperature -20° to 180°F.

YELLOW JACKET PLUS II Hoses have proven performance benefits of the original line, plus double barrier protection for CFC, HCFC and HFC (R-134a, R-404A, R-407C, R-410A, R-507, etc.).

- UL recognized assemblies (File SA9737).

1. Nylon permeation barrier meets UL requirements. 1/4" PLUS II hose is UL 1963 recognized component for R-12, R-134a, R-22, R-500, and R-502 .

2. Moisture barrier provides improved resistance to moisture migration which contaminates expensive refrigerant.

Other features include 4000 psi minimum burst and 800 psi maximum

Plus II Hoses - standard 1/4" fittings				
L.	Yellow	Blue	Red	3 - Pak
12"	21012	21212	21612	-
24"	21024	21224	21624	-
36"	21036	21236	21636	21983
48"	21048	21248	21648	21984
60"	21060	21260	21660	21985
72"	21072	21272	21672	21986
96"	21096	21296	21696	21988
10'	21110	21310	21710	-
12'	21112	21312	21712	-
25'	21125	21325	21725	-
50'	21150	21350	21750	-
75'	21175	21375	21775	-
100'	21200	21399	21799	-

Multi-length 3-Paks - 21982 two 36", one 60"
21981 two 36", one 72"

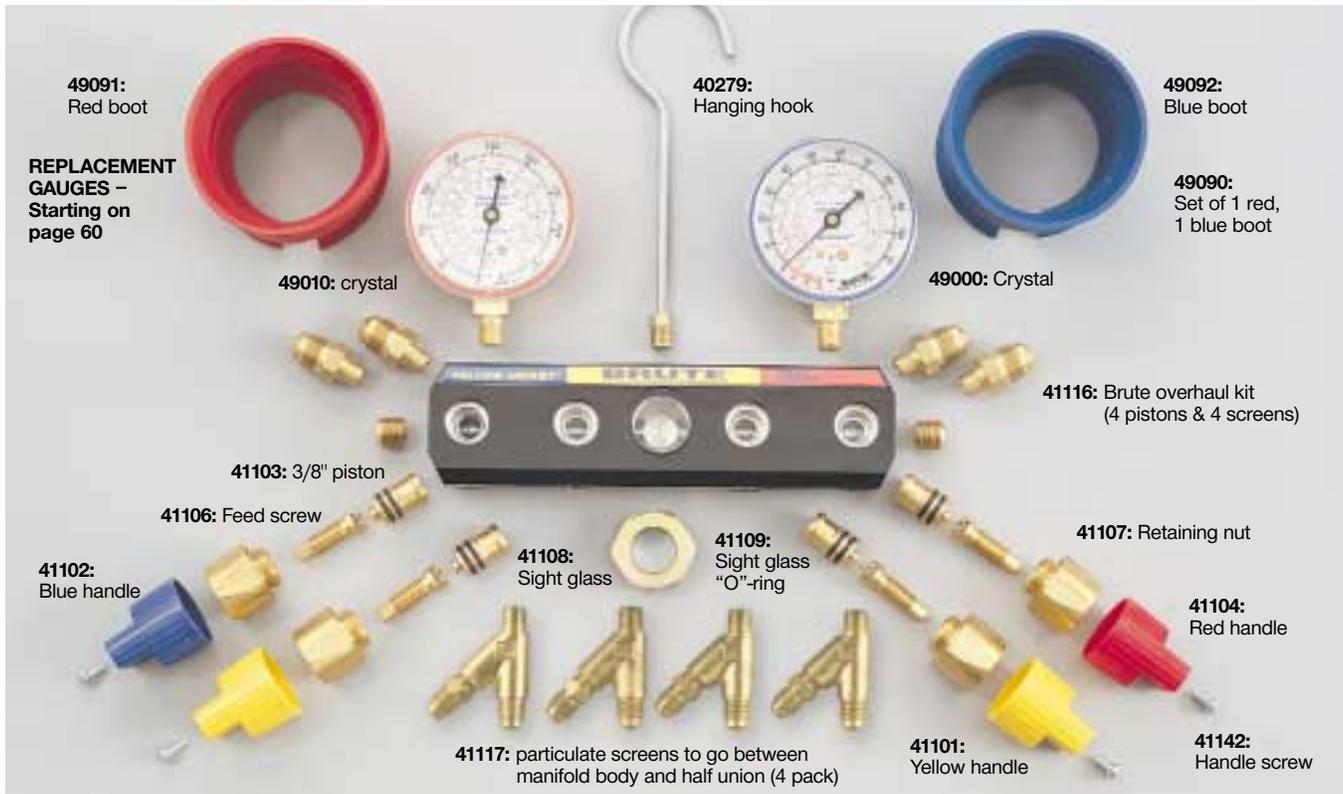
Hoses with 5/16" service end for R-410A on page 27.

MANIFOLD PARTS KIT for Series 41, TITAN, and BRUTE II™ Manifolds



UPC#	Description	Qty.
41099	Complete Kit	1
41105	Box only with label	1
Kit contents		
41041	Yellow Handle with Screw - TITAN	4
41042	Blue Handle with Screw - TITAN	3
41044	Red Handle with Screw - TITAN	3
41043	Piston - TITAN	8
41048	Handle Screws (2) - TITAN	6
41049	Valve Retaining Nut - TITAN	4
41056	Feed Screw - TITAN	4
41061	Sight Glass (1), Retainer (1), Gaskets (2) - BRUTE II/TITAN	4
41090	Handle Screws (2) - BRUTE II	6
41091	Yellow Handle with Screw - BRUTE II	4
41092	Blue Handle with Screw - BRUTE II	3
41094	Red Handle with Screw - BRUTE II	3
41096	Valve Retaining Nut - BRUTE II	4
41103	3/8" Piston - BRUTE II	8
41106	Feed Screw - BRUTE II	4
41134	Feed Screw - Series 41/TITAN	6
41135	Valve Retaining Nut - Series 41/TITAN	6
41141	Metal Handle with Screw - Series 41	4
41142	Handle Screws (2) - Series 41/TITAN	6
41133	1/4" Piston - Series 41 & TITAN	6

BRUTE™ MANIFOLD REPLACEMENT PARTS



BANTAM™ MANIFOLD REPLACEMENT PARTS



AUTOMOTIVE R-134a MANIFOLD



“Series 41” automotive manifold comes complete with R-134a gauges, environmental *PLUS II* hoses, and special R-134a A/C couplers with

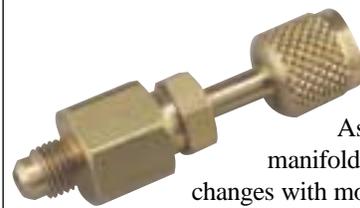


control valves. The hoses meet SAE J2196 and are UL 1963 recognized. Additional hose construction

improvements increase working pressure for increased safety. Hoses available with Acme and 14 mm male fittings. Available 5' or 10' hoses.

UPC #	Description
41343	Auto only R-134a manifold 60" hose with 1/2" Acme fittings and 14 mm fittings, hose anchors
41345	Above with R-134a couplers
41346	Above with carrying case
41340	Auto only R-134a manifold 10' hoses with 1/2" Acme fittings, 14 mm fittings, hose anchors, and R-134a couplers

MANIFOLD PARTICULATE FILTER



As manifold usage changes with more recovery change outs, more particulate matter is drawn through manifolds. Trap the particles with these fittings before they damage valve seats or pass into your recovery equipment. Replaceable, cleanable screens.

UPC #	Description
41119	1/4" manifold particulate filter
41120	3/8" manifold particulate filter
41121	1/2" manifold particulate filter
41122	Replacement filter screen (5 pk.)

YELLOW JACKET NH³ AMMONIA MANIFOLD and Hose



This heavy-duty manifold features cast iron body and full size metal handles. Other features:

- Finger-tight one-piece valve stem for positive seal on nylon seat.
- Easy, accurate valve adjustment.

Dual temperature/pressure R717 gauge has bar with °C and psi with °F ammonia scales.

UPC #	Description
40190	Manifold body with valves
40192	Manifold above and gauges
40193	Above with three NHA 48 hoses
40199	Replacement valve assembly

SINGLE GAUGE MANIFOLD

Single gauge manifold. Check pressure on low side of system. Nylon seals. Double O-ring pistons.



UPC#	Description
40318	Low side manifold R-12, R-22, R-502
40319	Low side manifold R-404A, R-407C, R-134A
40320	Low side manifold R-410A

SINGLE TEST GAUGES

Quick pressure checks – use low or hi-side gauge with quick coupler to attach directly to system or tanks.



UPC #	Description
Gauge w/ QC & 12" hose - angle CPLG	
40341	Red pressure °F
40342	Blue compound °F
14811	12" red hose 1/4" M. fl x 45° QC
Gauge with 19110 quick coupler for recovery tank pressure checks	
40331	Red pressure °F
40332	Blue compound °F
19110	Quick coupler only (see page 35)
14821	12" blue hose 1/4" M. fl x 45° QC

MANIFOLD CARRYING CASES



Blue heavy-duty blow molded case to protect manifold and tools. Long lasting hinge. Handle for easy carrying.

UPC #	Case description L x W x H
40261	Series 41 – 13-1/2" x 10" x 3-1/2"
40262	Series 41 – 12-1/4" x 8" x 3-1/2"
40263	Series 41 – 12-1/4" x 8" x 4-1/4"
41111	Bantam™, BRUTE™ and TITAN™
41112	BRUTE™, BRUTE II™ and Digital Analyzer

“O”-RING LUBRICANT

To lubricate “O”-rings in manifolds when pistons or “O”-rings are being replaced. Use sparingly.



UPC #	Description
41118	“O”-ring lubricant (.75 oz.)

Range of performance for your business and budget



Choice of copper or forged aluminum alloy



Choice of analog or digital gauges

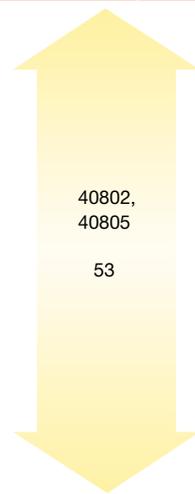


Reliability and durability across the line



A pattern of ongoing innovation

Refrigerant	Series 41		TITAN™ 2-valve		TITAN™ 4-valve		BRUTE II™ 4-valve		Digital Analyzer	
	UPC#	Page	UPC#	Page	UPC#	Page	UPC#	Page	UPC#	Page
R-12, R-134a, R-413A	41632	57								
R-12, R-22, R-502	41222 41283 41295 44225 41223 41285 43225 44285 41225 41292 43285 44295 41282 41293 43295	57	49806 49816	56	49906 49916	55	46120 46180	54		
R-22, R-134a, R-404A	41622	57	49833	56	49933	55	46140	54		
R-22, R-134a, R-407C	41642	57	49803	56	49903	55	46150	54		
R-134a, R-404A, R-407C	41332	57	49836 49856	56	49936 49956	55	49130 46190	54		
R-134a, R-404A, R-507	41353 41365 43355 44355 41355 41382 43365 41363 41392 44365	57								
R-410A	40944 41780 41652 41781	57	49869 49870	56	49969 49970	55	46160 46170	54		

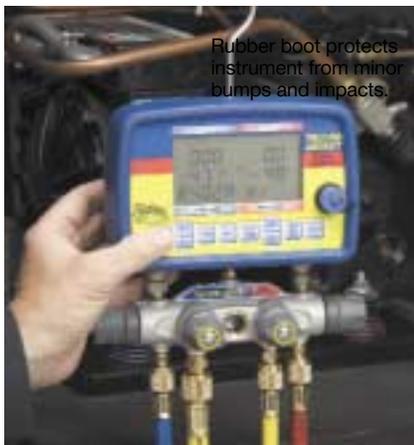


For °F see page 41.

YELLOW JACKET® DIGITAL REFRIGERATION SYSTEM ANALYZER with system modulation bar graph for fast, accurate diagnostics



For time-saving diagnostics, the easy-to-read pressure bar graphs of this patented unit quickly tell you more than you could ever see with the vibrating needle of a typical pressure gauge. You see pressure dynamics to readily know if the system's thermostatic expansion valve is modulating properly, if liquid is flooding back into the systems, and more. Saturation, subcooling, and superheat readings are automatic to eliminate fishing in your wallet for reference cards. This almost immediate knowledge of system behavior and faults can help save up to 10 minutes and more on many jobs.

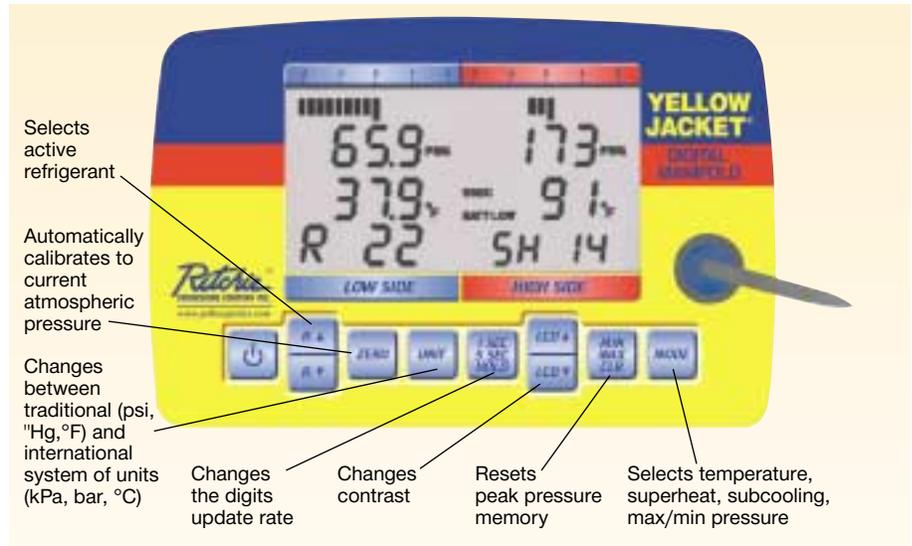


- Rugged case construction with rubber boot to tolerate impact and resist typical oils, acids, and sunlight

Easy to Use:

- Bar graph segments shows changes from digital reading (range of ± 2 psi on low-side, ± 8 psi on high-side)

- Digital readings show resolution of 1/4 psi on low side, 1 psi on high side
- Temperature in middle is corresponding bubble and dew points for current pressures
- Temperature, superheat or subcooling shown on lower right (eg. 10°F superheat).



CHARGING SYSTEMS

Features:

- Profiles 22 common refrigerants:

R-12	R-404A	R-416A
R-22	R-406A	R-417A
R-134a	R-407C	R-420A
R-290	R-408A	R-502
R-401A	R-409A	R-507
R-401B	R-410A	R-508B
R-402A	R-414B	R-600A
R-402B		

 (Upgradeable for new refrigerants)
- Integrated temperature probe for automatic superheat and subcooling readings
- Max and min pressure monitoring for control set-up
- Auto zero key to eliminate manual recalibration
- Vacuum detection inHg
- Easy-to-read LCD screen with large 3/8" digits

Specifications:

Pressure accuracy:

0.5% F.S. ± 1 least significant digit, calibration traceable to NIST

Pressure ports:

Two 1/8" acting as low and high side gauges

Working pressure:

Low side: 0-200 psi (1350 kPa, 13.5 bar)
High side: 0-550 psi (3790 kPa, 37.9 bar)

Proof pressure:

Low side: 600 psi (4100 kPa, 41 bar)
High side: 1500 psi (10300 kPa, 103 bar)

Burst pressure:

Low side: 2000 psi (13500 kPa, 135 bar)
High side: 5000 psi (34500 kPa, 345 bar)

Temperature sensor range:

-40° to 125°C (-40° to 250°F)

Temperature accuracy:

$\pm 0.5^\circ\text{C}$ ($\pm 0.9^\circ\text{F}$) between 0° to 70°C (32° to 158°F)

Usage environment:

Indoor/Outdoor dew, splash and rain resistant; do not immerse in water

Storage and operational temperature:

-20° to 50°C (-4° to 122°F)

Power supply:

4 AA Batteries (approx. 6 months under normal use)

Weight:

.725 kg (1.6 lb.)

Dimensions:

17 x 12.2 x 6.4 cm (6.7 x 4.8 x 2.5")

UPC #	Description
40801	R-410A adapter kit – 1/4" to 5/16" service fitting
40802	Digital analyzer on TITAN™ 4-valve manifold
40805	40802 with 1/4" x 60" RYB and 3/8" x 60" yellow PLUS II™ hoses
41067	Temperature Probe
41068	Extended Manifold Hook
41069	Rubber Boot

YELLOW JACKET BRUTE II™ 4-valve Test & Charging Manifold - °C



Forged aluminum alloy body with full 3/8" bore for faster vacuum and charging

The new BRUTE II™ 4-Valve Test and Charging Manifold has been trimmed down for lighter weight but with the same powerful performance of the original model. This streamlined unit continues to provide the flow that's proven faster than any conventional manifold. And even though sleeker and more compact, the aluminum alloy is forged for strength and reliability with 3/8" bores through the body to speed the job.

Other Features and Benefits:

- Fourth hose enables connection to hi/lo sides, refrigerant tank, and recovery unit or vacuum pump for diagnostics, evacuation and charging without switching hoses.
 - 1/4" hi/lo sides with 3/8" vacuum port for regular jobs, or;
 - 3/8" hi/lo sides with 1/2" vacuum port for larger systems.
- Front access for easy field recalibration.
- Proven, double "O"-ring piston for reliability and long service life.



For °F see page 43.

For replacement parts see page 46.



Large, easy-to-read 3-1/8" (80 mm) red and blue steel case

1% accuracy (Class 1) gauges with protective boots;

- Exclusive 100-mesh filter in-line on all flare fittings helps keep out particulate material and extend the life of the seat.
- Contoured easy-grip handles for positive control; color coded for ready identification.
- Sight glass to easily view refrigerant movement and condition during charging and recovery.
- Heavy-duty hook won't pull out.
- Also available with YELLOW JACKET® 80 mm (3-1/8") red and blue liquid-filled gauges.

Refrigerants	UPC #	Scale	Manifold Fittings	Hose Holder Fittings
R-22/134a/407C	46150	bar/psi	1/4 - 3/8 - 1/4 - 1/4"	1/4 - 3/8 - 1/4 - 1/4"
R-12/22/502	46120	bar/MPa	1/4 - 3/8 - 1/4 - 1/4"	1/4 - 3/8 - 1/4 - 1/4"
	46180	bar/psi	1/4 - 3/8 - 1/4 - 1/4"	1/4 - 3/8 - 1/4 - 1/4"
R-22/134a/404A	46140	bar/psi	1/4 - 3/8 - 1/4 - 1/4"	1/4 - 3/8 - 1/4 - 1/4"
R-134a/404A/407C	46130	bar/MPa	1/4 - 3/8 - 1/4 - 1/4"	1/4 - 3/8 - 1/4 - 1/4"
	46190	bar/psi	1/4 - 3/8 - 1/4 - 1/4"	1/4 - 3/8 - 1/4 - 1/4"
R-410A	46160	bar/psi	1/4 - 3/8 - 1/4 - 1/4"	5/16 - 3/8 - 1/4 - 5/16"
	46170	bar/psi	5/16 - 3/8 - 5/16 - 5/16"	5/16 - 3/8 - 5/16 - 5/16"



For information on the certification of 3-1/8" gauges, see page 40.

PROTECTIVE GAUGE BOOTS for 63.5 mm (2-1/2") and 80 mm (3-1/8") gauges

Rubber boots slip easily around gauges to cushion and protect them from impact.

- Fit 2-1/2" and 3-1/8" gauges without covering easy access recalibration screw
- Color-coded red or blue to match gauge



UPC #	Size	Description
49090	63.5 mm (2-1/2")	Set of gauge boots
49091	63.5 mm (2-1/2")	Red protective gauge boot
49092	63.5 mm (2-1/2")	Blue protective gauge boot
49190	80 mm (3-1/8")	Set of gauge boots
49191	80 mm (3-1/8")	Red protective gauge boot
49192	80 mm (3-1/8")	Blue protective gauge boot

YELLOW JACKET TITAN™ 4-Valve Test & Charging Manifold - °C **METRIC**

Forged aluminum alloy body for increased strength and reliability

The new TITAN™ Test and Charging Manifold is the first forged aluminum manifold in the industry. Special aluminum alloy body makes this unit lightweight for handling ease with the durability and reliability required for repeated, rugged use.

Features/Benefits

- Large, easy-to-read 80 mm (3-1/8") steel case red and blue, Class 1 (1% accuracy) gauges; front access for easy field recalibration; optional protective gauge boots available.
- Proven, double “O”-ring piston for reliability and long service life.



- Exclusive 100 mesh filter in-line on all flare fittings helps keep out particulate material and extend the life of the seats.
- Contoured easy-grip handles for positive control; color coded for ready identification.
- Sight glass to easily view refrigerant movement and condition during charging and recovery.
- Heavy duty hook won't pull out.

4-Valve Features/Benefits

- Fourth hose to enable connection to hi/lo sides, refrigerant tank, and recovery unit or vacuum pump for diagnostics, evacuation and charging without switching hoses.

For °F see page 44.

For replacement parts see page 46.



- 3/8" vacuum port for use with larger hose to cut evacuation time by up to 33% (all other fittings on unit are 1/4").
- Also available with YELLOW JACKET® 80 mm (3-1/8") red and blue liquid-filled gauges.

Refrigerants	UPC #	Scale	Manifold Fittings	Hose Holder Fittings
R-22/134a/407C	49903	bar/psi	1/4 - 3/8 - 1/4 - 1/4"	1/4 - 3/8 - 1/4 - 1/4"
R-12/22/502	49906	bar/MPa	1/4 - 3/8 - 1/4 - 1/4"	1/4 - 3/8 - 1/4 - 1/4"
	49916	bar/psi	1/4 - 3/8 - 1/4 - 1/4"	1/4 - 3/8 - 1/4 - 1/4"
R-22/134a/404A	49933	bar/psi	1/4 - 3/8 - 1/4 - 1/4"	1/4 - 3/8 - 1/4 - 1/4"
R-134a/404A/407C	49936	bar/MPa	1/4 - 3/8 - 1/4 - 1/4"	1/4 - 3/8 - 1/4 - 1/4"
	49956	bar/psi	1/4 - 3/8 - 1/4 - 1/4"	1/4 - 3/8 - 1/4 - 1/4"
R-410A	49969	bar/psi	1/4 - 3/8 - 1/4 - 1/4"	5/16 - 3/8 - 1/4 - 5/16"
	49970	bar/psi	5/16 - 3/8 - 5/16 - 5/16"	5/16 - 3/8 - 5/16 - 5/16"



For information on the certification of 3-1/8" gauges, see page 40.

YELLOW JACKET TITAN™ 2-Valve Test & Charging Manifold - °C **METRIC**

Forged aluminum alloy body and large easy-to-read gauges

The new TITAN™ Test and Charging Manifold is the first forged aluminum manifold in the industry. The special aluminum alloy construction of the manifold body makes this unit lightweight for handling ease with the durability and reliability required for repeated, rugged use.

Features/Benefits

- Large, easy-to-read 80 mm (3-1/8") steel case red and blue, Class 1 (1% accuracy) gauges; front access for easy field recalibration; optional protective gauge boots available.
- Proven, double “O”-ring piston for reliability and long service life.
- Exclusive 100 mesh filter in-line on all flare fittings helps keep out particulate material and extend the life of the seats.
- Contoured easy-grip handles for positive control; color coded for ready identification.
- Sight glass to easily view refrigerant movement and condition during charging and recovery.
- Heavy duty hook won't pull out.



Refrigerants	UPC #	Scale	Manifold Fittings	Hose Holder Fittings
R-22/134a/407C	49803	bar/psi	All fittings 1/4"	All fittings 1/4"
R-12/22/502	49806	bar/MPa	All fittings 1/4"	All fittings 1/4"
	49816	bar/psi	All fittings 1/4"	All fittings 1/4"
R-22/134a/404A	49833	bar/psi	All fittings 1/4"	All fittings 1/4"
R-134a/404A/407C	49836	bar/MPa	All fittings 1/4"	All fittings 1/4"
	49856	bar/psi	All fittings 1/4"	All fittings 1/4"
R-410A	49869	bar/psi	All fittings 1/4"	5/16 - 1/4 - 5/16"
	49870	bar/psi	All fittings 5/16"	All fittings 5/16"

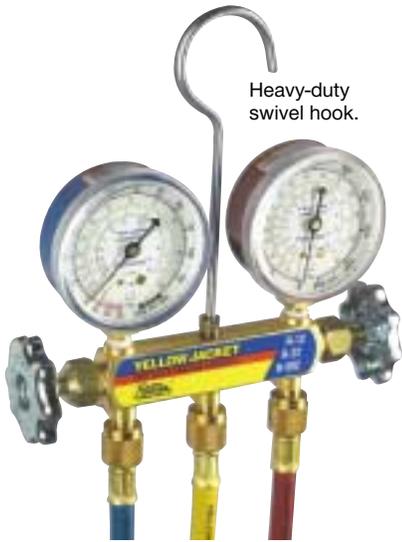
For °F see page 45.

For replacement parts see page 46.



For information on the certification of 3-1/8" gauges, see page 40.

YELLOW JACKET® SERIES 41 MANIFOLDS with 63.5 mm (2-1/2") gauges **METRIC**



Heavy-duty swivel hook.

pulsation for easier, more accurate readings.



Flutterless Standard

Limited Lifetime Warranty on manifold bar and valves – not gauges. See manifold instructions for details.

Sliding double "O"-ring pistons. Non-rotating design reduces wear.

Only 1-1/2 turns give you full flow. Long-life nylon seat is also for vacuum and R-134a, R-404A, R-507, R-407C, R-410A, etc.

YELLOW JACKET Hoses. Most manifolds include color-coded YELLOW JACKET charging hoses.

Easy-to-read 63.5 mm (2-1/2") steel case gauges (°C) with 3-2-3% accuracy.

For °F see page 47.

For replacement parts see page 49.

Forged brass body with metal valve handles. Forged body is solid brass for durability. Full porting maximizes capacity. Metal valve handles are full size for easy operation. Hose anchors are forged into back of body at 45°.

Pretested. Every manifold is individually tested for reliability before shipping.

Flutterless™ Technology. Surge protector and silicone dampened movement helps minimize needle

	UPC# bar/psi	UPC# kPa/psi	UPC# kg/cm ² /psi	Hoses/hose holder fittings
R-12, R-22, R-502	41282	41222	41292	None – 1/4" – 1/4" – 1/4"
	41283	41223	41293	HA36 RYB – 1/4" – 1/4" – 1/4"
	41285	41225	41295	HA60 RYB – 1/4" – 1/4" – 1/4"
	43285	43225	43295	PLUS // 60" RYB – 1/4" – 1/4" – 1/4"
	44285	44225	44295	PLUS // SealRight 60" – 1/4" – 1/4" – 1/4"
R-134a, R-404A, R-507	41382	–	41392	None – 1/4" – 1/4" – 1/4"
	41353	–	41363	HA36 RYB – 1/4" – 1/4" – 1/4"
	41355	–	41365	HA60 RYB – 1/4" – 1/4" – 1/4"
	43355	–	43365	PLUS // 60" RYB – 1/4" – 1/4" – 1/4"
	44355	–	44365	PLUS // SealRight 60" – 1/4" – 1/4" – 1/4"
R-134a, R-404A, R-407C	41332	–	–	None – 1/4" – 1/4" – 1/4"

R-410A manifolds can have a variety of fitting and hose holders on them

	bar/MPa	Hi/Lo ports	Center port	Hoses/hose holder fittings
R-410A	40944	1/4"	1/4" T-fitting	All 5/16"
	41781	5/16"	5/16"	None – 5/16" – 5/16" – 5/16"
	41780	1/4"	1/4"	None – 1/4" – 1/4" – 1/4"



For information on the certification of 3-1/8" gauges, see page 40.

CHARGING SYSTEMS

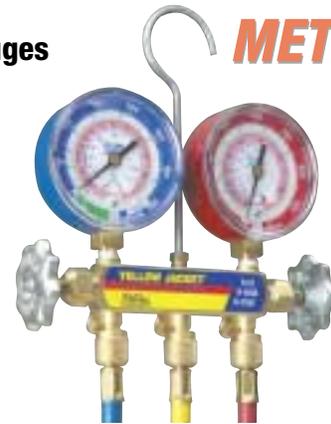
YELLOW JACKET® SERIES 41 MANIFOLDS with 80 mm (3-1/8") gauges **METRIC**

This field-proven manifold line has now been expanded to include larger, easier to read 80 mm (3-1/8") color-coded gauges in rugged steel cases with polycarbonate crystals.

Most importantly, these gauges feature 1% accuracy for an exact reading in critical charge systems.

Features

- Wide choice of refrigerant combinations including:
 - R-22, R-134a, R-404A
 - R-12, R-22, R-134a
 - R-22, R-404A, R-410A
- Color-coded scales with bold, easy to read dials.
- Dials with Class 1 (1% accuracy) for critical charge systems.
- Proven sliding double "O"-ring pistons reduce wear.
- Long life nylon seats.
- Forged brass body for durability.
- Full porting maximizes capacity and flow.
- Some models include color-coded, 60" PLUS II™ hoses with standard 1/4" flare fittings.



- Hose assemblies UL recognized for 275 bar (4000 psi) burst and 55 bar (800 psi) working pressure. File# SA9737.

Refrigerants	UPC#	Gauge	Scale	Manifold Fittings	Hose Holder Fittings
R-410A	41652	80 mm (3-1/8") Red/Blue	bar/psi	1/4-1/4 T-fitting-1/4"	All 5/16"
R-22/134a/407C	41642	80 mm (3-1/8") Red/Blue	bar/psi	All 1/4"	All 1/4"
R-22/134a/404A	41622	80 mm (3-1/8") Red/Blue	bar/psi	All 1/4"	All 1/4"
R-12/134a/413A	41632	80 mm (3-1/8") Red/Blue	bar/psi	All 1/4"	All 1/4"



For information on the certification of 3-1/8" gauges, see page 40.

For °F see page 48. For replacement parts see page 49.

AUTOMOTIVE R-134a MANIFOLD



“Series 41” automotive manifold comes complete with R-134a gauges,

environmental *PLUS II* hoses, and special R-134a A/C couplers with control valves. The hoses meet SAE J2196 and are UL 1963 recognized. Additional hose construction improvements increase working

pressure for increased safety. Hoses available with Acme and 14 mm male fittings. Available 5' or 10' hoses.

UPC #	Description
41343	Auto only R-134a manifold 60' hose with 1/2" Acme fittings and 14 mm fittings, hose anchors
41345	Above with R-134a couplers
41346	Above with carrying case
41340	Auto only R-134a manifold 10' hoses with 1/2" Acme fittings, 14 mm fittings, hose anchors, and R-134a couplers

YELLOW JACKET NH₃ AMMONIA MANIFOLD and Hose



This heavy-duty manifold features cast iron body and full size metal handles. Other features:

- Finger-tight one-piece valve stem for positive seal on nylon seat.
- Easy, accurate valve adjustment.

Dual temperature/pressure R717 gauge has bar with °C and psi with °F ammonia scales.

UPC #	Description
40190	Manifold body with valves
40192	Manifold above and gauges
40193	Above with three NHA 48" hoses
40199	Replacement valve assembly

LIQUID CHARGER



Liquid charging is recommended when charging blends into refrigeration and air conditioning systems. Since compressors cannot compress liquids, however, you need a liquid charger adapter for safe and fast liquid charging through the low pressure side of a system. The YELLOW JACKET adapter connects to the cylinder valve or refrigerant can.

- To protect the compressor, adapter orifice reduces liquid flow to a level below compressor capacity.
- Eliminates the time and work of heating cylinders.

UPC #	Description
41123	1/4" liquid charging adapter
41124	5/16" liquid charging adapter

MANIFOLD CARRYING CASES



Blue heavy-duty blow molded cases are available in four different sizes for all the different manifold/hose configurations. Includes handle and a long life top hinge.

UPC #	Case description	L x W x H
40261	Series 41 – 13-1/2" x 10" x 3-1/2"	
40262	Series 41 – 12-1/4" x 8" x 3-1/2"	
40263	Series 41 – 12-1/4" x 8" x 4-1/4"	
41111	Bantam™, BRUTE™ and TITAN™	
41112	BRUTE™, BRUTE II™ and Digital Analyzer	

MANIFOLD PARTICULATE FILTER



As manifold usage changes with more recovery change outs, more particulate matter is drawn through manifolds. Trap the particles with these fittings before they damage valve seats or pass into your recovery equipment. Replaceable, cleanable screens.

UPC #	Description
41119	1/4" manifold particulate filter
41120	3/8" manifold particulate filter
41121	1/2" manifold particulate filter
41122	Replacement filter screen (5 pk.)