

YELLOW JACKET®
Specialized and General
Use Gauges – reliable
monitoring of vacuum
and pressure



NEW

Selected gauges
now certified for your
confidence and
convenience

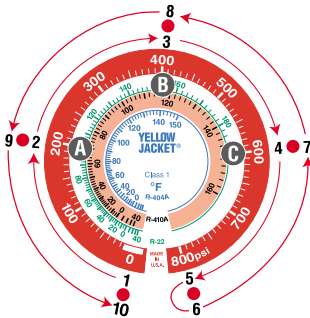
YELLOW JACKET® Certified Gauges – 10-point measurement and documentation for your confidence and convenience



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:

- Establish the identity and credibility of the calibrating laboratory
- Uniquely identify the instrument and its owner
- Identify the measurements made
- Provide a definite statement of the results, including an uncertainty statement

LARGE 4" MANIFOLD GAUGES (°F) RED AND BLUE with 1% accuracy (Class 1) calibration

Color-coded blue for compound and red for pressure (not shown here)

Color-coded four refrigerant types: R-22, R-134a, R-404A, R-410A



For reliable performance and durability, these 4" gauges are housed in a red or blue steel case with front recalibrator screw. High visibility colored temperature scales are easy to read through the full view polycarbonate crystal.

Several features combine for improved accuracy: Flutterless™ technology with brass surge protector to minimize needle pulsation; brass gauge movement, and copper alloy bourdon tube.

- 1/8" NPT Male connection.
- Calibrated to 1% accuracy at the plant.

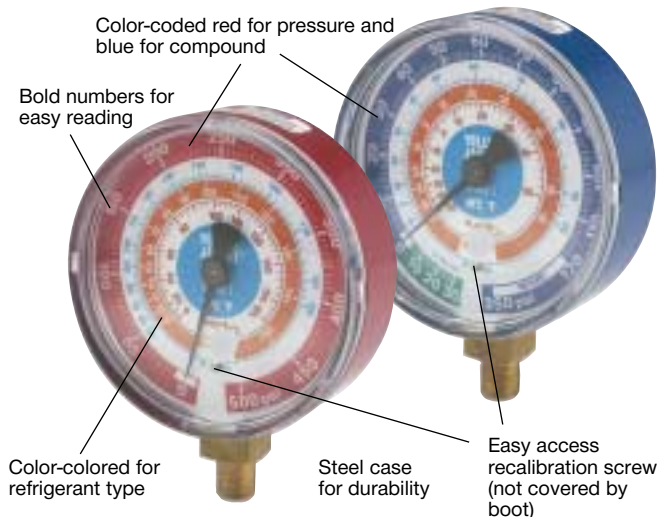
°C gauges on page 65.



UPC#	Size	Description	Press. Scale	Refrigerants
49185	4"	Red pressure	0 - 500 psi	R-22, 134a, 404A, 410A
49186	4"	Blue compound	30"-0-120* psi	R-22, 134a, 404A, 410A

*Features retard protection to 500 psi

LARGE 3-1/8" DRY MANIFOLD GAUGES (°F) RED AND BLUE with 1% accuracy (Class 1) calibration



For reliable performance and durability, these 3-1/8" gauges are housed in a red or blue steel case with front recalibrator screw. High visibility colored temperature scales are easy to read through the full view polycarbonate crystal.

Several features combine for improved accuracy: Flutterless™ technology with brass surge protector to minimize needle pulsation; brass gauge movement, and copper alloy bourdon tube.

- 1/8" NPT Male connection.
- Calibrated to 1% accuracy at the plant.

UPC#	Size	Description	Press. Scale	Refrigerants
49101	3-1/8"	Red pressure	0 - 500 psi	R-12, 22, 502
49102	3-1/8"	Blue compound	30"-0-120** psi	R-12, 22, 502
49103	3-1/8"	Red pressure	0 - 500 psi	R-12, 22, 134a
49104	3-1/8"	Blue compound	30"-0-120** psi	R-12, 22, 134a
49105	3-1/8"	Red pressure	0 - 500 psi	R-22, 134a, 404A
49106	3-1/8"	Blue compound	30"-0-120** psi	R-22, 134a, 404A
49135*	3-1/8"	Red pressure	0 - 800 bar/psi	R-410A
49136*	3-1/8"	Blue compound	30"-0-300*** bar/psi	R-410A
49137	3-1/8"	Red pressure	0 - 500 psi	R-22, 404A, 410A
49138	3-1/8"	Blue compound	30"-0-120** psi	R-22, 404A, 410A
49151	3-1/8"	Red pressure	0 - 500 psi	R-134a, 404A, 407C
49152	3-1/8"	Blue compound	30"-0-120** psi	R-134a, 404A, 407C

Certified Gauges				
49201	3-1/8"	Red pressure	0 - 500 psi	R-12, 22, 502
49202	3-1/8"	Blue compound	30"-0-120** psi	R-12, 22, 502
49203	3-1/8"	Red pressure	0 - 500 psi	R-12, 22, 134a
49204	3-1/8"	Blue compound	30"-0-120** psi	R-12, 22, 134a
49205	3-1/8"	Red pressure	0 - 500 psi	R-22, 134a, 404A
49206	3-1/8"	Blue compound	30"-0-120** psi	R-22, 134a, 404A
49235*	3-1/8"	Red pressure	0 - 800 bar/psi	R-410A
49236*	3-1/8"	Blue compound	30"-0-300*** bar/psi	R-410A
49237	3-1/8"	Red pressure	0 - 500 psi	R-22, 404A, 410A
49238	3-1/8"	Blue compound	30"-0-120** psi	R-22, 404A, 410A
49251	3-1/8"	Red pressure	0 - 500 psi	R-134a, 404A, 407C
49252	3-1/8"	Blue compound	30"-0-120** psi	R-134a, 404A, 407C
49100		Replacement crystal		

* These gauges have °C and °F on dial
 ** Features retard protection to 350 psi
 *** Features retard protection to 500 psi

HEAVY DUTY 2-1/2" BRASS MANIFOLD GAUGES (°F) with 1% accuracy (Class 1) calibration



Solid brass case and premium movements. Heavy duty phosphor bronze and stainless steel internal components for longer service life under severe use. 1% accuracy (Class 1) calibration. Flutterless™ technology with brass surge protector to minimize needle pulsation.

- 1/8" NPT Male connection.
- Calibrated to 1% accuracy at the plant.

UPC#	Size	Description	Press. Scale	Refrigerants
49047	2-1/2"	Brass pressure	0 - 500 psi	R-12, 22, 502
49048	2-1/2"	Brass compound	30"-0-120* psi	R-12, 22, 502
49067	2-1/2"	Brass pressure	0 - 500 psi	R- 22, 134a, 404A
49068	2-1/2"	Brass compound	30"-0-120* psi	R- 22, 134a, 404A
49049		Set of 49047, 49048		
49069		Set of 49067, 49068		

Certified Gauges				
49197	2-1/2"	Brass pressure	0 - 500 psi	R-12, 22, 502
49198	2-1/2"	Brass compound	30"-0-120* psi	R-12, 22, 502
49199	2-1/2"	Brass pressure	0 - 500 psi	R- 22, 134a, 404A
49200	2-1/2"	Brass compound	30"-0-120* psi	R- 22, 134a, 404A
49010		Replacement crystal (polycarbonate) for old 49011, 49012		
49039		Glass crystal for brass gauge		
49040		Brass gauge ring		

*Features retard protection to 350 psi
 Calibration traceable to NIST standards

Note: Gauges on this page are not meant to be used with nitrogen.

Why should I zero out a manifold gauge? As a general rule, a gauge can get off "0" due to a change in altitude or barometric pressure. It's important that you check to see that it's set back to "0" before you start charging. To reset a gauge, look for the reset screw that will be located on the front or back of the gauge. Then use a small blade screw driver to set the dial back to "0".



YELLOW JACKET® 2-1/2" MANIFOLD GAUGES (° F) RED AND BLUE (Class B)

STEEL CASES

All YELLOW JACKET gauges feature bold high-visibility dials with colored temperature scales for easy reading.

- Flutterless™ technology surge protector minimizes the needle pulsation for improved accuracy
- 1/8" NPT Male connection
- 3-2-3% accuracy
- Calibration traceable to NIST standards



UPC#	Size	Description	Press. Scale	Refrigerants
49001	2-1/2"	Red pressure	0 - 500 psi	R-12, 22, 502
49002	2-1/2"	Blue compound	30"0-120** psi	R-12, 22, 502
49008		Set red and blue gauges		R-12, 22, 502
49013	2-1/2"	Red pressure	0 - 500 psi	R-12, 22, 134a
49014	2-1/2"	Blue compound	30"0-120** psi	R-12, 22, 134a
49015	2-1/2"	Red pressure	0 - 500 psi	R-22, 134a, 404A
49016	2-1/2"	Blue compound	30"0-120** psi	R-22, 134a, 404A
49035*	2-1/2"	Red pressure	0 - 800 kg/cm ² /psi	R-410A
49036*	2-1/2"	Blue compound	30"0-300*** kg/cm ² /psi	R-410A
49051	2-1/2"	Red pressure	0 - 500 psi	R-134a, 404A, 507
49052	2-1/2"	Blue compound	30"0-120** psi	R-134a, 404A, 507
49000		Replacement crystal for gauges from 1984 and earlier		
49010		Replacement crystal		

* These gauges have C and F on dial

** Features retard protection to 350 psi

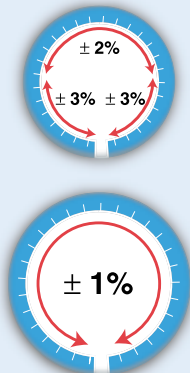
***Features retard protection to 500 psi

Note: Small screw in back is 6/32" x 5/32" Phillips pan head screw.

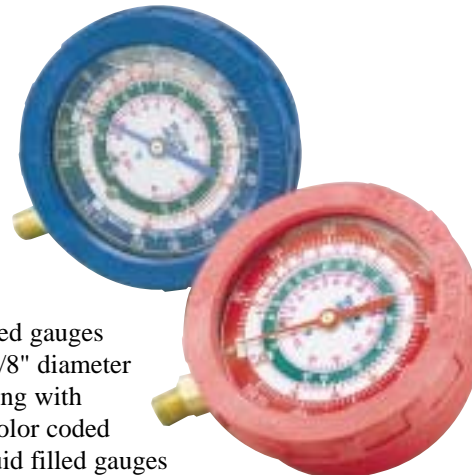
Note: Gauges not meant to be used with nitrogen.

The growing preference for 3-1/8" gauges

3-1/8" gauges are fast becoming the market preference. Why? Larger dials with 1% accuracy (Class 1) full scale movements give a more accurate reading of the pressure in the system (the most common gauges are 2-1/2" with 3-2-3 accuracy). And the color-coded temperature dials are easier to read.



LIQUID-FILLED 3-1/8" MANIFOLD GAUGES (° F) RED AND BLUE (Class B)



Glycerine filled gauges are larger 3-1/8" diameter for easy reading with refrigerants color coded on dials. Liquid filled gauges dampen pulsation. Gauges calibrated to 3-2-3 (Class B) accuracy. Back recalibrator screw. 1/8" NPT Male connection.

UPC#	Size	Description	Press. Scale	Refrigerants
49071	3-1/8"	Red pressure	0 - 500 psi	R-134a, 404A, 407C
49072	3-1/8"	Blue compound	30"0-120** psi	R-134a, 404A, 407C
49079	3-1/8"	Red pressure	0 - 500 psi	R-22, 134a, 404A
49080	3-1/8"	Blue compound	30"0-120** psi	R-22, 134a, 404A
49081	3-1/8"	Red pressure	0 - 500 psi	R-12, 22, 502
49082	3-1/8"	Blue compound	30"0-120** psi	R-12, 22, 502
49083	3-1/8"	Red pressure	0 - 500 psi	R-12, 22, 134a
49084	3-1/8"	Blue compound	30"0-120** psi	R-12, 22, 134a
49177*	3-1/8"	Red pressure	0 - 800 bar/psi	R-410A
49178*	3-1/8"	Blue pressure	30"0-350*** bar/psi	R-410A
49179	3-1/8"	Red pressure	0 - 500 psi	R-22, 404A, 410A
49180	3-1/8"	Blue compound	30"0-120** psi	R-22, 404A, 410A
49095		Replacement glycerine 6 oz. - will fill one gauge		
49096		Filler caps for liquid gauges		

* These gauges have °C and °F on dial

** Features retard protection to 240 psi

***Features retard protection to 500 psi

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

STAINLESS 4-1/2" CONTRACTOR GAUGE



Large 4-1/2" dial for easy reading. Stainless steel case. Brass movement and 1/4" NPT Male socket bottom mount. Gauge has recalibrator screw. A surge protector to help dampen needle pulsation. 1% accuracy (Class 1) calibration full scale.

4-1/2" dial 1/4" NPT Male lower connection		
UPC #	Range psi - bar	
49440	0-15 psi	(0-1 bar)
49441	0-30 psi	(0-2 bar)
49442	0-60 psi	(0-4 bar)
49444	0-100 psi	(0-7 bar)
49445	0-160 psi	(0-11 bar)
49446	0-200 psi	(0-14 bar)
49447	0-300 psi	(0-20 bar)
49453	0-30 inHg VAC	(0 to -1 bar)
49455	30"-0-30 psi	(-1-0-2 bar)
49456	30"-0-60 psi	(-1-0-4 bar)
49457	30"-0-100 psi	(-1-0-7 bar)
49458	30"-0-150 psi	(-1-0-10 bar)

Note: Can be used for oil pressure.

DIAPHRAGM 2-1/2" GAUGES – LOW PRESSURE



The bronze diaphragm is designed for better protection on incidental overpressure. Intended for low pressure applications only. Black steel case.

UPC#	Size	Range	Connection
78056	2-1/2"	0-10" W.C.	barb type
78061	2-1/2"	0-35" W.C.	barb type
78057	2-1/2"	0-10" W.C.	1/4" NPT Male
78066	2-1/2"	0-35" W.C.	1/4" NPT Male

Note: Cannot be recalibrated.

YELLOW JACKET® 1-1/2" to 3-1/2" GAUGES



General use gauges for multiple application where pressure or vacuum gauges are required. Brass internals are suitable for air, gas, water and oil plus many more industry applications.

- No restrictor
- Recalibration feature is standard on 2-1/2" and 3-1/2" gauges
- Steel cases painted black with glass crystal and metal ring
- Gauge accuracy is 3-2-3%

Contact the factory for special applications.

1-1/2" dial 1/8" NPT Male lower connection		
UPC #	Range psi - bar	
49301	0-30 psi	(0-2 bar)
49302	0-60 psi	(0-4 bar)
49304	0-100 psi	(0-7 bar)
49305	0-160 psi	(0-11 bar)
49306	0-200 psi	(0-14 bar)

1-1/2" dial 1/8" NPT Male lower connection		
UPC #	Range psi - bar	
49321	0-30 psi	(0-2 bar)
49322	0-60 psi	(0-4 bar)
49324	0-100 psi	(0-7 bar)
49325	0-160 psi	(0-11 bar)
49326	0-200 psi	(0-14 bar)

2" dial 1/4" NPT Male lower connection		
UPC #	Range psi - bar	
49360	0-15 psi	(0-1 bar)
49361	0-30 psi	(0-2 bar)
49362	0-60 psi	(0-4 bar)
49364	0-100 psi	(0-7 bar)
49365	0-160 psi	(0-11 bar)
49366	0-200 psi	(0-14 bar)
49367	0-300 psi	(0-20 bar)
49373	0-30 inHg VAC	(0 to -1 bar)
49375	30"-0-30 psi	(-1-0-4 bar)
49377	30"-0-100 psi	(-1-0-10 bar)

2" dial 1/8" NPT Male lower connection		
UPC #	Range psi - bar	
49340	0-15 psi	(0-1 bar)
49341	0-30 psi	(0-2 bar)
49342	0-60 psi	(0-4 bar)
49344	0-100 psi	(0-7 bar)
49345	0-160 psi	(0-11 bar)
49346	0-200 psi	(0-14 bar)
49347	0-300 psi	(0-20 bar)
49353	0-30 inHg VAC	(0 to -1 bar)
49355	30"-0-30 psi	(-1-0-2 bar)
49357	30"-0-100 psi	(-1-0-7 bar)

2-1/2" dial 1/4" NPT Male lower connection		
UPC #	Range psi - bar	
49380	0-15 psi	(0-1 bar)
49381	0-30 psi	(0-2 bar)
49382	0-60 psi	(0-4 bar)
49384	0-100 psi	(0-7 bar)
49385	0-160 psi	(0-11 bar)
49386	0-200 psi	(0-14 bar)
49387	0-300 psi	(0-20 bar)
49388	0-400 psi	(0-28 bar)
49393	0-30 inHg VAC	(0 to -1 bar)
49395	30"-0-30 psi	(-1-0-2 bar)
49396	30"-0-60 psi	(-1-0-4 bar)
49397	30"-0-100 psi	(-1-0-7 bar)
49398	30"-0-150 psi	(-1-0-10 bar)

3-1/2" dial 1/4" NPT Male lower connection		
UPC #	Range psi - bar	
49420	0-15 psi	(0-1 bar)
49421	0-30 psi	(0-2 bar)
49422	0-60 psi	(0-4 bar)
49424	0-100 psi	(0-7 bar)
49425	0-160 psi	(0-11 bar)
49426	0-200 psi	(0-14 bar)
49427	0-300 psi	(0-20 bar)
49428	0-400 psi	(0-28 bar)
49433	0-30 inHg VAC	(0 to -1 bar)
49435	30"-0-30 psi	(-1-0-2 bar)
49436	30"-0-60 psi	(-1-0-4 bar)
49437	30"-0-100 psi	(-1-0-7 bar)
49438	30"-0-150 psi	(-1-0-10 bar)

Note: Warranty on gauges does not cover damage due to excessive pressure.

MECHANICAL VACUUM GAUGES – 1-1/2" and 3-1/8"



Full range mechanical bourdon tube gauges for determining system vacuum. Much more accurate than a compound gauge. All gauges are 1/8" NPT Male bottom connection.

3-1/8" gauges are larger to show vacuum more accurately in inches of mercury and Torr (or millibar).

1-1/2" gauges are used on YELLOW JACKET vacuum pumps.

CAUTION: Vacuum gauges must be handled carefully. Dropping, pressurizing and rough handling reduce their life.

UPC#	Size	Scale	Connection	Case
93011	1-1/2"	Red/green arc	1/8" NPT Male back	Black/steel
69044	3-1/8"	0-30" Hg & 760-0 Torr	1/8" NPT Male lower	Green/steel
69045	3-1/8"	1000-0 millibar & 30-0" (Euro.)	1/8" NPT Male lower	Green/steel

AMMONIA GAUGES 2-1/2" and 3-1/2" with dual scale



Ammonia gauges are designed for use on manifolds and as permanent gauges on any system or equipment charged with ammonia. The bourdon tube is made of 316 stainless. The sockets are steel. The dials show dual temperature and pressure scales. All gauges are

equipped with restrictors to protect the gauges against pulsating pressure. Steel gauge cases are painted black. Gauges calibrated to 3-2-3% accuracy.

1/4" NPT Male connection.

UPC#	Size	Description	Range
40201	2-1/2"	Gauge with twist on polycarbonate crystal	30" - 0 - 400 psi °F and 76-0-28 kg/cm ² °C
40202	2-1/2"	Gauge with twist on polycarbonate crystal	30" - 0 - 150 psi °F and 76-0-10 kg/cm ² °C
40206	3-1/2"	Gauge with metal ring and lens	30" - 0 - 300 psi °F and 76-0-22 kg/cm ² °C
40205	3-1/2"	Gauge with metal ring and lens	30" - 0 - 150 psi °F and 76-0-10 kg/cm ² °C
49010	2-1/2"	Replacement crystal	
49495	3-1/2"	Replacement lens	

Recalibrate for atmospheric pressure variations?

Atmospheric pressure variations are of little importance with gauging pressures typically encountered in refrigeration and A/C service work. With a change of 2 inHg, the gauge changes by only 1 psi. It is unlikely that system pressures would cause concerns if the reading is correct within several psi.

Repeated pressurization (especially over-pressurization) of a gauge does, however, tend to change the response of the tube or diaphragm, and re-calibration may be required.

The *easiest way* for a service technician to re-calibrate a gauge is to connect it to a source of known, pure refrigerant, and then adjust the re-calibration screw on the gauge to

the appropriate pressure reading based on refrigerant temperature.

The *most accurate way* to re-calibrate is to connect the gauge to a deadweight tester at a re-calibration facility that has equipment traceable to NIST. This is usually cost-prohibitive for most situations, but may be warranted when total documentation is required.

LARGE 80 mm (3-1/8") DRY (°C) RED AND BLUE with Class 1 (1% accuracy) calibration



Housed in a red or blue steel case for durability. Colored temperature scales are easy to read through polycarbonate crystal. Several features combine for improved accuracy: Flutterless™ technology with brass surge protector to minimize needle pulsation, brass gauge movement, and copper alloy bourdon tube.

METRIC

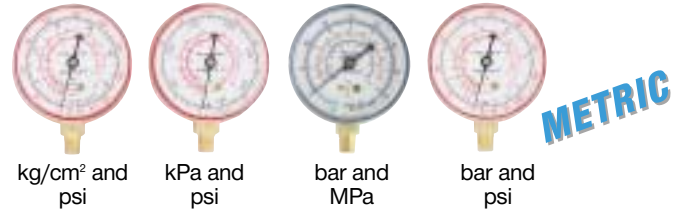
UPC#	Size	Description	Press. Scale	Refrigerants
49131	3-1/8"	Red pressure	bar and psi	R-134a, 404A, 407C
49132	3-1/8"	Blue compound	bar and psi	R-134a, 404A, 407C
49135*	3-1/8"	Red pressure	bar and psi	R-410A
49136*	3-1/8"	Blue compound	bar and psi	R-410A
49143	3-1/8"	Red pressure	bar and MPa	R-12, 22, 502
49144	3-1/8"	Blue compound	bar and MPa	R-12, 22, 502
49145	3-1/8"	Red pressure	bar and psi	R-12, 22, 502
49146	3-1/8"	Blue compound	bar and psi	R-12, 22, 502
49153	3-1/8"	Red pressure	bar and MPa	R-410A
49154	3-1/8"	Blue compound	bar and MPa	R-410A
49163	3-1/8"	Red pressure	bar and MPa	R-134a, 404A, 407C
49164	3-1/8"	Blue compound	bar and MPa	R-134a, 404A, 407C
49165	3-1/8"	Red pressure	bar and psi	R-12, 134a, 413A
49166	3-1/8"	Blue compound	bar and psi	R-12, 134a, 413A
49167	3-1/8"	Red pressure	bar and psi	R-22, 134a, 407C
49168	3-1/8"	Blue compound	bar and psi	R-22, 134a, 407C
49169	3-1/8"	Red pressure	bar and psi	R-22, 134a, 404A
49170	3-1/8"	Blue compound	bar and psi	R-22, 134a, 404A

Certified Gauges

49231	3-1/8"	Red pressure	bar and psi	R-134a, 404A, 407C
49232	3-1/8"	Blue compound	bar and psi	R-134a, 404A, 407C
49235*	3-1/8"	Red pressure	bar and psi	R-410A
49236*	3-1/8"	Blue compound	bar and psi	R-410A
49243	3-1/8"	Red pressure	bar and MPa	R-12, 22, 502
49244	3-1/8"	Blue compound	bar and MPa	R-12, 22, 502
49245	3-1/8"	Red pressure	bar and psi	R-12, 22, 502
49246	3-1/8"	Blue compound	bar and psi	R-12, 22, 502
49253	3-1/8"	Red pressure	bar and MPa	R-410A
49254	3-1/8"	Blue compound	bar and MPa	R-410A
49263	3-1/8"	Red pressure	bar and MPa	R-134a, 404A, 407C
49264	3-1/8"	Blue compound	bar and MPa	R-134a, 404A, 407C
49265	3-1/8"	Red pressure	bar and psi	R-12, 134a, 413A
49266	3-1/8"	Blue compound	bar and psi	R-12, 134a, 413A
49267	3-1/8"	Red pressure	bar and psi	R-22, 134a, 407C
49268	3-1/8"	Blue compound	bar and psi	R-22, 134a, 407C
49269	3-1/8"	Red pressure	bar and psi	R-22, 134a, 404A
49270	3-1/8"	Blue compound	bar and psi	R-22, 134a, 404A
49100		Replacement crystal		

*These gauges have °C and °F on dial

YELLOW JACKET® 68 mm (2-1/2") MANIFOLD GAUGES (°C) RED AND BLUE (Class B)



All YELLOW JACKET gauges feature bold high-visibility dials with color coded temperature scales for easy reading. And Flutterless™ technology with surge protector minimizes the needle pulsation for improved accuracy.

Compound gauges feature over-pressure protection to 350 pounds. 1/8" NPT Male lower mount fitting.

- Steel cases
- Class B (3-2-3% accuracy)
- Calibration traceable to NIST standards

UPC#	Size	Description	Press. Scale	Refrigerants
49003	2-1/2"	Red pressure	kPa and psi	R-12, 22, 502
49004	2-1/2"	Blue compound	kPa and psi	R-12, 22, 502
49005	2-1/2"	Red pressure	bar and psi	R-12, 22, 502
49006	2-1/2"	Blue compound	bar and psi	R-12, 22, 502
49025	2-1/2"	Red pressure	bar and MPa	R-12, 22, 502
49026	2-1/2"	Blue compound	bar and MPa	R-12, 22, 502
49027	2-1/2"	Red pressure	kg/cm² and psi	R-12, 22, 502
49028	2-1/2"	Blue compound	kg/cm² and psi	R-12, 22, 502
49031	2-1/2"	Red pressure	bar and psi	R-22, 134a, 407C
49032	2-1/2"	Blue compound	bar and psi	R-22, 134a, 407C
49033	2-1/2"	Red pressure	bar and psi	R-22, 134a, 404A
49034	2-1/2"	Blue compound	bar and psi	R-22, 134a, 404A
49035*	2-1/2"	Red pressure	kg/cm² and psi	R-410A
49036*	2-1/2"	Blue compound	kg/cm² and psi	R-410A
49053	2-1/2"	Red pressure	bar and MPa	R-410A
49054	2-1/2"	Blue compound	bar and MPa	R-410A
49055	2-1/2"	Red pressure	bar and psi	R-134a, 404A, 507
49056	2-1/2"	Blue compound	bar and psi	R-134a, 404A, 507
49057	2-1/2"	Red pressure	kg/cm² and psi	R-134a, 404A, 507
49058	2-1/2"	Blue compound	kg/cm² and psi	R-134a, 404A, 507
49059	2-1/2"	Red pressure	MPa	R-134a, 404A, 407C, 507
49060	2-1/2"	Blue compound	MPa	R-134a, 404A, 407C, 507
49063	2-1/2"	Red pressure	bar and psi	R-134a, 404A, 407C
49064	2-1/2"	Blue compound	bar and psi	R-134a, 404A, 407C
49010		Replacement crystal		

*These gauges have °C and °F dials

LARGE 102 mm (4") MANIFOLD GAUGES (°C) RED AND BLUE with Class 1 (1% accuracy) calibration

Color-coded red for pressure and blue for compound (not shown here)

Color-coded four refrigerant types: R-22, R-134a, R-404A, R-407C



For all features see page 60.

UPC#	Size	Description	Press. Scale	Refrigerants
49183	4"	Red pressure	bar and psi	R-22, 134a, 404A, 407C
49184	4"	Blue compound	bar and psi	R-22, 134a, 404A, 407C

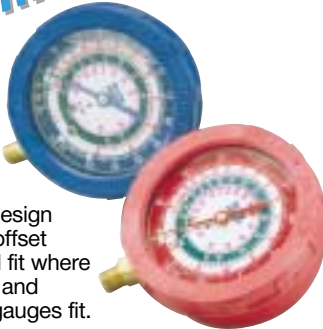
LIQUID-FILLED 80 mm (3-1/8") MANIFOLD GAUGES (° C) RED AND BLUE (Class B)

Large 80 mm diameter for easy reading with refrigerants color-coded on dials. Liquid-filled gauges calibrated

to Class B (3-2-3) accuracy and feature a recalibrator screw. Rugged case features beefed-up rings for sealing reliability. Unique design

allows gauge attachment to most manifolds even where room is a consideration. 1/8" NPT Male lower connection.

METRIC



Gauge design with 7° offset stem will fit where most 60 and 68 mm gauges fit.

UPC#	Size	Description	Press. Scale	Refrigerants
49171	3-1/8"	Red liquid pressure	bar and MPa	R-12, 22, 502
49172	3-1/8"	Blue liquid compound	bar and MPa	R-12, 22, 502
49173	3-1/8"	Red liquid pressure	bar and MPa	R-134a, 404A, 407C
49174	3-1/8"	Blue liquid compound	bar and MPa	R-134a, 404A, 407C
49175	3-1/8"	Red liquid pressure	bar and MPa	R-410A
49176	3-1/8"	Blue liquid compound	bar and MPa	R-410A
49177*	3-1/8"	Red liquid pressure	bar and psi	R-410A
49178*	3-1/8"	Blue liquid compound	bar and psi	R-410A
*These gauges have °C and °F on dial				
49095	Replacement glycerine 6 oz.			
49096	Filler caps for liquid gauges			

MATCHING REFRIGERANT WITH A YELLOW JACKET GAUGE

Gases	UPC #	Certified	Size	Type	Color	F/C	Scale
12/134a/413A	49165	49265	3-1/8"	Steel	Red	C	bar/psi
	49166	49266	3-1/8"	Steel	Blue	C	bar/psi
12/22/134a	49013		2-1/2"	Steel	Red	F	psi
	49014		2-1/2"	Steel	Blue	F	psi
	49083		3-1/8"	Liquid	Red	F	psi
	49084		3-1/8"	Liquid	Blue	F	psi
	49103	49203	3-1/8"	Steel	Red	F	psi
	49104	49204	3-1/8"	Steel	Blue	F	psi
12/22/502	49001		2-1/2"	Steel	Red	F	psi
	49002		2-1/2"	Steel	Blue	F	psi
	49008		Set 49001/02				
	49003		2-1/2"	Steel	Red	C	kPa/psi
	49004		2-1/2"	Steel	Blue	C	kPa/psi
	49005		2-1/2"	Steel	Red	C	bar/psi
	49006		2-1/2"	Steel	Blue	C	bar/psi
	49025		2-1/2"	Steel	Red	C	bar/MPa
	49026		2-1/2"	Steel	Blue	C	bar/MPa
	49027		2-1/2"	Steel	Red	C	kg/cm ² /psi
	49028		2-1/2"	Steel	Blue	C	kg/cm ² /psi
	49047	49197	2-1/2"	Brass		F	psi
	49048	49198	2-1/2"	Brass		F	psi
	49049		Set 49047/48				
	49081		3-1/8"	Liquid	Red	F	psi
	49082		3-1/8"	Liquid	Blue	F	psi
	49101	49201	3-1/8"	Steel	Red	F	psi
	49102	49202	3-1/8"	Steel	Blue	F	psi
	49143	49243	3-1/8"	Steel	Red	C	bar/MPa
	49144	49244	3-1/8"	Steel	Blue	C	bar/MPa
49145	49245	3-1/8"	Steel	Red	C	bar/psi	
49146	49246	3-1/8"	Steel	Blue	C	bar/psi	
49171		3-1/8"	Liquid	Red	C	bar/MPa	
49172		3-1/8"	Liquid	Blue	C	bar/MPa	
134a/404A/407C	49063		2-1/2"	Steel	Red	C	bar/psi
	49064		2-1/2"	Steel	Blue	C	bar/psi
	49071		3-1/8"	Liquid	Red	F	psi
	49072		3-1/8"	Liquid	Blue	F	psi
	49131	49231	3-1/8"	Steel	Red	C	bar/psi
	49132	49232	3-1/8"	Steel	Blue	C	bar/psi
	49151	49251	3-1/8"	Steel	Red	F	psi
	49152	49252	3-1/8"	Steel	Blue	F	psi
	49163	49263	3-1/8"	Steel	Red	C	bar/MPa
	49164	49264	3-1/8"	Steel	Blue	C	bar/MPa
	49173		3-1/8"	Liquid	Red	C	bar/MPa
	49174		3-1/8"	Liquid	Blue	C	bar/MPa

Gases	UPC #	Certified	Size	Type	Color	F/C	Scale	
134a/404A/407C/507	49059		2-1/2"	Steel	Red	C	MPa	
	49060		2-1/2"	Steel	Blue	C	MPa	
134a/404A/507	49051		2-1/2"	Steel	Red	F	psi	
	49052		2-1/2"	Steel	Blue	F	psi	
	49055		2-1/2"	Steel	Red	C	bar/psi	
	49056		2-1/2"	Steel	Blue	C	bar/psi	
	49057		2-1/2"	Steel	Red	C	kg/cm ² /psi	
	49058		2-1/2"	Steel	Blue	C	kg/cm ² /psi	
	22/134a/404A	49015		2-1/2"	Steel	Red	F	psi
		49016		2-1/2"	Steel	Blue	F	psi
49033			2-1/2"	Steel	Red	C	bar/psi	
49034			2-1/2"	Steel	Blue	C	bar/psi	
49067		49199	2-1/2"	Brass		F	psi	
49068		49200	2-1/2"	Brass		F	psi	
49069			Set 49067/68					
49079			3-1/8"	Liquid	Red	F	psi	
49080			3-1/8"	Liquid	Blue	F	psi	
49105		49205	3-1/8"	Steel	Red	F	psi	
49106	49206	3-1/8"	Steel	Blue	F	psi		
49169	49269	3-1/8"	Steel	Red	C	bar/psi		
49170	49270	3-1/8"	Steel	Blue	C	bar/psi		
22/134a/404A/407C	49183		4"	Steel	Red	C	bar/psi	
	49184		4"	Steel	Blue	C	bar/psi	
22/134a/404A/410A	49185		4"	Steel	Red	F	psi	
	49186		4"	Steel	Blue	F	psi	
22/134a/407C	49031		2-1/2"	Steel	Red	C	bar/psi	
	49032		2-1/2"	Steel	Blue	C	bar/psi	
	49167	49267	3-1/8"	Steel	Red	C	bar/psi	
49168	49268	3-1/8"	Steel	Blue	C	bar/psi		
22/404A/410A	49137	49237	3-1/8"	Steel	Red	F	psi	
	49138	49238	3-1/8"	Steel	Blue	F	psi	
	49179		3-1/8"	Liquid	Red	F	psi	
	49180		3-1/8"	Liquid	Blue	F	psi	
410A	49035		2-1/2"	Steel	Red	C/F	kg/cm ² /psi	
	49036		2-1/2"	Steel	Blue	C/F	kg/cm ² /psi	
	49053		2-1/2"	Steel	Red	C	bar/MPa	
	49054		2-1/2"	Steel	Blue	C	bar/MPa	
	49135	49235	3-1/8"	Steel	Red	C/F	bar/psi	
	49136	49236	3-1/8"	Steel	Blue	C/F	bar/psi	
	49153	49253	3-1/8"	Steel	Red	C	bar/MPa	
	49154	49254	3-1/8"	Steel	Blue	C	bar/MPa	
	49175		3-1/8"	Liquid	Red	C	bar/MPa	
	49176		3-1/8"	Liquid	Blue	C	bar/MPa	
	49177		3-1/8"	Liquid	Red	C/F	bar/psi	
	49178		3-1/8"	Liquid	Blue	C/F	bar/psi	