3-1/2" (90 mm) LIQUID-FILLED MANIFOLD GAUGES (°F and °C) RED AND BLUE

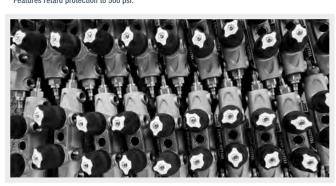
With 1% accuracy (Class 1) calibration



Gauges are completely filled with glycerin for maximum protection from pulsation. Large 3-1/2" (90 mm) diameter gauge with refrigerants color-coded on the dials in bold numbers. Offset stem fits all major manifold brands.

- Now with zero adjustment
- 1/8" NPT Male connection
- Temperature rating of 0° to 122°F (-18° to 50°C)
- Calibrated to 1% accuracy (Class 1)

°F - Fahrenheit and °C - Celsius Gauges				
UPC#	Description	Pressure scale		Refrigerants
49511	3-1/2" Red pressure	0-500 psi (0 to 34 bar)		R-22
49512	3-1/2" Blue compound	30"-0-120 psi (-1 to 8 bar)		N-22
49519	3-1/2" Red pressure	0-800 psi (0 to 55 bar)		R-410A
49520	3-1/2" Blue compound	30"-0-300* psi (-1 to 2	21 bar)	11-410A
°F - Fa	hrenheit Gauges			
UPC#	Description	Pressure scale	Refrigerants	
49513	3-1/2" Red pressure	0-500 psi	R-22/134a/404A	
49514	3-1/2" Blue compound	30"-0-120 psi		
49515	3-1/2" Red pressure	0-800 psi	R-22/410A	
49516	3-1/2" Blue compound	30"-0-300* psi	N-22/41UA	
49517	3-1/2" Red pressure	0-500 psi	R-134a/404A/407C	
49518	18 3-1/2" Blue compound 30"-0-120 psi			
°C - Celsius Gauges				
UPC#	Description	Pressure scale Refrigerant		Refrigerants
49521	3-1/2" Red pressure	0-500 psi (0 to 35 bar) R-134a/		
49522	3-1/2" Blue compound	30"-0-116 psi (-1 to 8 bar) 404A/407C		
*Features i	*Features retard protection to 500 psi			



2-1/2" (68 mm) MANIFOLD GAUGES (°F and °C) RED AND BLUE Class B



- Steel case with 3-2-3% accuracy
- High-visibility dials colored temperature scales for easy reading;
- Flutterless™ technology surge protector minimizes the needle pulsation for improved accuracy
- 1/8" NPT Male connection; calibration traceable to NIST standards

°F - Fahrenheit Gauges			
UPC#	Description	Pressure scale	Refrigerants
49001	2-1/2" Red pressure	0 - 500 psi	
49002	2-1/2" Blue compound	30"-0-120** psi	R-12/22/502
49013*	2-1/2" Red pressure	0 - 500 psi	D 104e
49014*	2-1/2" Blue compound	30"-0-120** psi	R-134a
49015	2-1/2" Red pressure	0 - 500 psi	R-22/134a/404A
49016	2-1/2" Blue compound	30"-0-120** psi	N-22/134a/404A
49035*	2-1/2" Red pressure	0 - 800 psi/kg/cm ²	R-410A
49036*	2-1/2" Blue compound	30"-0-300*** psi/kg/cm ²	N-410A
49051	2-1/2" Red pressure	0 - 500 psi	R-134a/404A/507
49052	2-1/2" Blue compound	30"-0-120** psi	H=134a/404A/301
49053*	2-1/2" Red pressure	0 - 55 bar (0-5.5 MPa)	R-410A
49054*	2-1/2" Blue compound	-1 - 21 bar (-0.1 - 2.1 MPa)	N-410A
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.

°C - Celsius Gauges				
UPC#	Description	Pressure scale	Refrigerants	
49005	2-1/2" Red pressure	bar and psi	R-12/22/502	
49006	2-1/2" Blue compound	bar and psi	11-12/22/302	
49027	2-1/2" Red pressure	kg/cm ² and psi	R-12/22/502	
49028	2-1/2" Blue compound	kg/cm ² and psi	N=12/22/302	
49031	2-1/2" Red pressure	bar and psi	R-22/134a/407C	
49032	2-1/2" Blue compound	bar and psi	n-22/134a/40/G	
49033	2-1/2" Red pressure	bar and psi	R-22/134a/404A	
49034	2-1/2" Blue compound	bar and psi	11-22/1040/404/	
49055	2-1/2" Red pressure	bar and psi	R-134a/404A/507	
49056	2-1/2" Blue compound	bar and psi	11-10-40-40-77-301	
49057	2-1/2" Red pressure	kg/cm ² and psi	R-134a/404A/507	
49058	2-1/2" Blue compound	kg/cm ² and psi	n-134a/404A/307	
49063	2-1/2" Red pressure	bar and psi	R-134a/404A/407C	
49064	2-1/2" Blue compound	bar and psi	n-134a/404A/407C	
49010	Replacement crystal			

HEAVY DUTY 2-1/2" BRASS MANIFOLD GAUGES (°F and °C) 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.

 Flutterless[™] technology with brass surge protector to minimize needle pulsation

- 1/8" NPT Male connection
- · Calibrated to 1% accuracy
- Full view glass crystal

	UPC#	Description	Pressure scale	Refrigerants		
	49067	°F Brass pressure	0 - 500 psi	R-22/134a/404A		
	49068	°F Brass compound	30"-0-120* psi	11-22/1044/404/4		
	49073	°C Brass pressure	0 - 500 psi	R-134a/404A/407C		
_	49074	°C Brass compound	30"-0-120* psi	11-10-40-40-70-4010		
•	Certifie					
	49199	2-1/2" Brass pressure	0 - 500 psi	R-22/134a/404A		
	49200	2-1/2" Brass compound	30"-0-120* psi	N=22/134a/404A		
	49010	Replacement crystal (polycarbonate) for old 49011, 49012				
	49039 Glass crystal for brass gauge					
	49040	9040 Brass gauge ring				

*Features retard protection to 350 psi. Note: Gauges are not meant to be used with nitrogen.

PROTECTIVE GAUGE BOOTS

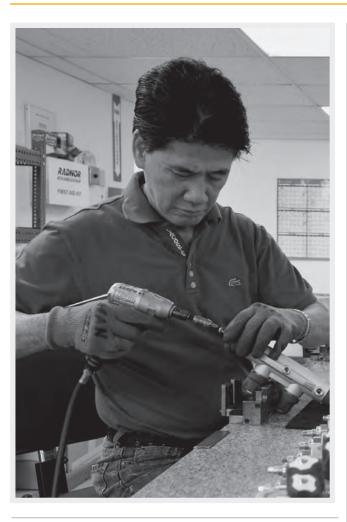
For 2-1/2" and 3-1/8" gauges



- Rubber boots slip easily around gauges to cushion and protect them from impact
- Fit 2-1/2" or 3-1/8" gauges without covering easy access recalibration screw
- Color-coded red or blue to match gauge

UPC#	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	
49087	Red solar gauge boot	
49088	Blue solar gauge boot	
49089	Set red and blue solar gauge boots	





LOW PRESSURE DIAPHRAGM 2-1/2" GAUGES



- The bronze diaphragm is designed for better protection on incidental overpressure
- Intended for low pressure applications only
- · Black steel case
- Cannot be recalibrated

UPC#	Description	Range
78056	2-1/2" Barb type connection	0-10" W.C.
78061	2-1/2" Barb type connection	0-35" W.C.
78057	2-1/2" 1/4" NPT Male connection	0-10" W.C.
78066	2-1/2" 1/4" NPT Male connection	0-35" W.C.

3-1/8" MECHANICAL VACUUM GAUGES



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

 Larger to show vacuum more accurately in inches of mercury and Torr (or millibar)

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

UPC#	Size	Scale	Connection	Case
69044	3-1/8"	0-30" Hg & 760-0 Torr	1/8" NPT Male lower	Green
69045	3-1/8"	1000-0 millibar & 30-0" (Euro)	1/8" NPT Male lower	Green

2-1/2" AMMONIA GAUGES 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 dials show dual temperature and pressure scales. All gauges are equipped with restrictors to protect the gauges against pulsating pressure.

- 1/4" NPT Male connection
- Black steel gauges
- Steel sockets
- Calibrated to 3-2-3% accuracy

UPC #	Description	Range
40201	2-1/2" Gauge with twist on polycarbonate crystal	30" - 0 - 400 psi °F and -0.1-0-28 bar °C
40202	2-1/2" Gauge with twist on polycarbonate crystal	30" - 0 - 150 psi °F and -0.1-0-10 bar °C
49010	2-1/2" Replacement crystal	