



Solar/Light-Powered Digital LCD Gauges

Class 1 (1% accuracy) digital refrigerant gauges measure eight commonly used refrigerants



- Light-powered pressure gauges operate continuously, even in low light conditions. Eliminate battery replacement costs and loss of power during jobs
- Automatic pressure-temperature readout for R-22, R-134a, R-404A, R-507, R-407C, R-409A, R-410A and R-438A
- Available individually or on TITAN™ 4-Valve Manifold, TITAN™ 2-Valve Manifold or Series 41 Manifold



Two selector switches on the front panel select the refrigerant type (left switch) and zero-set the gauge (right switch).

- Calibrated to 1% accuracy
- 1/8" NPT Male connection
- Two second display response
- ABS plastic case
- PSI °F, PSI °C, bar °C and MPa °C
- Lo-side pressure scale of 30 inHg vacuum to 350 psi



A DIP switch on the back selects the unit of measure.

- Hi-side pressure scale of 0 to 800 psig
- Working temperature range from 14 to 122°F (-10 to 50°C)

UPC#	Description
49041	Hi-side pressure solar gauge
49042	Lo-side compound solar gauge
49087	Hi-side (red) gauge boot
49088	Lo-side (blue) gauge boot
49089	Set of red and blue gauge boots for 49041 and 49042

YELLOW JACKET® CERTIFIED GAUGES 10-point measurement and documentation



Have greater confidence in measurements and decisions with certified YELLOW JACKET Class 1 Replacement Manifold Gauges and Manifolds with Class 1 gauges.

YELLOW JACKET gauges have always been manufactured and calibrated to NIST standards. The standard Ritchie Engineering 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).

The Ritchie Engineering certification process documents the NIST calibration plus compliance to ANSI Z540.1 and ISO 10012 standards. The certification is good for one year; recalibration is recommended after one year.

CALIBRATION CERTIFICATE

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 certificate.



Repeated pressurization and recalibration.

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 recalibration may be required.

The *easiest way* for a service technician to recalibrate a gauge is to connect it to a source of known, pure refrigerant, and then adjust the recalibration screw on the gauge to the appropriate pressure reading based on refrigerant temperature.

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

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".

Using manifold gauges for evacuation?

See page 11 for important information.

Unless noted, gauges not meant to be used with liquid nitrogen. Dry nitrogen through a nitrogen regulator and coming to the manifold at less than 800 psi for calibration purposes is fine.

3-1/8" (80 mm) DRY MANIFOLD GAUGES (°F and °C) RED, BLUE AND BLACK With 1% accuracy (Class 1) calibration

Large 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.

- Flutterless[™] technology with brass surge protector to minimize needle pulsation
- Brass gauge movement
- Copper alloy Bourdon tube
- 1/8" NPT Male connection
- Calibrated to 1% accuracy
- Color-coded red for pressure and blue for compound
- Color-coded refrigerant types

When a gauge has a RETARD zone, full scale is considered to be the last marked reading prior to entering the RETARD zone. For example, this gauge has a full scale reading of 120 psi. Gauge accuracy is not specified in the RETARD zone.

т-га	hrenheit Gauges		
UPC#	Description	Pressure 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-12/22/302
49103	3-1/8" Red pressure	0 - 500 psi	R-12/22/134a
49104	3-1/8" Blue compound	30"-0-120** psi	11 12/22/1044
49105	3-1/8" Red pressure	0 - 500 psi	R-22/134a/404A
49106	3-1/8" Blue compound	30"-0-120** psi	11 22/10 10 17 10 17
49111	3-1/8" Red pressure	0 - 500 psi	R-417A/422A/422D
49112	3-1/8" Blue compound	30"-0-120** psi	
49133	3-1/8" Heat pump red dial	0 - 800 psi	R-22/407C/410A
49134	3-1/8" Heat pump blue dial	0 - 800 psi	
49135*	3-1/8" Red pressure	0 - 800 psi/bar	R-410A
49136*	3-1/8" Blue compound	30"-0-300*** psi/bar	
49137	3-1/8" Red pressure	0 - 800 psi	R-22/404A/410A
49138	3-1/8" Blue compound	30"-0-350*** psi	
49141*	3-1/8" Heat pump red dial	0 - 800 psi	R-410A
49142*	3-1/8" Heat pump blue dial	0 - 800 psi	
49151	3-1/8" Red pressure	0 - 500 psi	R-134a/404A/407C
49152	3-1/8" Blue compound	30"-0-120** psi	
	d Gauges	0 500 '	
49201 49202	3-1/8" Red pressure	0 - 500 psi	R-12/22/502
49202	3-1/8" Blue compound 3-1/8" Red pressure	30"-0-120** psi 0 - 500 psi	
49203	3-1/8" Blue compound	30"-0-120** psi	R-12/22/134a
49204	3-1/8" Red pressure	0 - 500 psi	
49205	3-1/8" Blue compound	30"-0-120** psi	R-22/134a/404A
49235*	3-1/8" Red pressure	0 - 800 psi/bar	
49236*	3-1/8" Blue compound	30"-0-300*** psi/bar	R-410A
49237	3-1/8" Red pressure	0 - 800 psi	
	3-1/8" Blue compound	30"-0-350*** psi	R-22/404A/410A
44738	o 1/6 Diac compound		
49238 49251	3-1/8" Red pressure	() - 5()() psi	
49238 49251 49252	3-1/8" Red pressure 3-1/8" Blue compound	0 - 500 psi 30"-0-120** psi	R-134a/404A/407C

^{***} Features retard protection to 500 psi.







	°C - C	elsius Gauges		
	UPC#	Description	Pressure scale	Refrigerants
	49107	3-1/8" Red pressure	kPa and psi	
	49108	3-1/8" Blue compound	kPa and psi	R-22/134a/404A
	49169	3-1/8" Red pressure	bar and psi	N-22/134d/404A
	49170	3-1/8" Blue compound	bar and psi	
	49109	3-1/8" Red pressure	kPa and psi	
	49110	3-1/8" Blue compound	kPa and psi	R-410A
	49153	3-1/8" Red pressure	bar and MPa	11 110/1
	49154	3-1/8" Blue compound	bar and MPa	
	49113	3-1/8" Red pressure	bar and psi	R-417A/422A/422D
	49114	3-1/8" Blue compound	bar and psi	
	49131	3-1/8" Red pressure	bar and psi	R-134a/404A/407C
	49132 49135*	3-1/8" Blue compound	bar and psi	
	49136*	3-1/8" Red pressure 3-1/8" Blue compound	bar and psi bar and psi	R-410A
	49139	3-1/8" Red pressure	psi psi	
	49140	3-1/8" Blue compound	psi	R-22/404A/410A
	49141*	3-1/8" Heat pump red dial	0 - 800 psi	
	49142*	3-1/8" Heat pump blue dial	0 - 800 psi	R-410A
	49143	3-1/8" Red pressure	bar and MPa	
	49144	3-1/8" Blue compound	bar and MPa	R-12/22/502
	49145	3-1/8" Red pressure	bar and psi	D 40/00/500
	49146	3-1/8" Blue compound	bar and psi	R-12/22/502
	49163	3-1/8" Red pressure	bar and MPa	D 404-/404A/4070
	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	11 12/10-4/410/1
	49167	3-1/8" Red pressure	bar and psi	R-22/134a/407C
8	49168	3-1/8" Blue compound	bar and psi	
,		d Gauges		
	49231	3-1/8" Red pressure	bar and psi	R-134a/404A/407C
	49232	3-1/8" Blue compound	bar and psi	
	49235*	3-1/8" Red pressure	bar and psi	R-410A
	49236* 49243	3-1/8" Blue compound 3-1/8" Red pressure	bar and psi bar and MPa	
	49244	3-1/8 Blue compound	bar and MPa	R-12/22/502
	49245	3-1/8" Red pressure	bar and psi	
	49246	3-1/8" Blue compound	bar and psi	R-12/22/502
	49253	3-1/8" Red pressure	bar and MPa	
	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	H-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	11-12/104a/413A
	49267	3-1/8" Red pressure	bar and psi	R-22/134a/407C
	49268	3-1/8" Blue compound	bar and psi	11 22/1044/40/0
	49269	3-1/8" Red pressure	bar and psi	R-22/134a/404A
	49270	3-1/8" Blue compound	bar and psi	/
	49100	Replacement crystal		

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



Large 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.

- Flutterless™ technology with brass surge protector minimizes needle pulsation
- Brass gauge movement
- Copper alloy Bourdon tube
- 1/8" NPT Male connection
- · Calibrated to 1% accuracy
- Color-coded blue for compound and red for pressure
- °F features color-coded refrigerant types: R-22, R-134a, R-404A, R-410A
- °C features color-coded refrigerant types: R-22, R-134a, R-404A, R-407C

°F - Fa	°F - Fahrenheit Gauges			
UPC#	Description	Pressure scale	Refrigerants	
49185 49186	4" Red pressure 4" Blue compound	0 - 800 psi 30"-0-300* psi	R-22/134a/404A/410A	
°C - C	°C - Celsius Gauges			
UPC#	Description	Pressure scale	Refrigerants	
49183	4" Red pressure	bar/psi	R-22/134a/404A/407C	
49184	4" Blue compound	bar/psi	n-22/134a/404A/4010	
49189	Replacement crystal for both °C and °F			

^{*}Features retard protection to 500 psi.

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 only
49512	3-1/2" Blue compound	30"-0-120 psi (-1 to 8	bar)	n-22 Offiy
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)	11-410/
°F - Fahrenheit Gauges				
UPC#	Description	Pressure scale	Refrigerants	
49513	3-1/2" Red pressure	0-500 psi	D 22/-	1240/4044
49514	3-1/2" Blue compound	30"-0-120 psi	R-22/134a/404A	
49515	3-1/2" Red pressure	0-800 psi	R-22/410A	
49516	3-1/2" Blue compound	30"-0-300* psi	M-22/4 IUA	
49517	3-1/2" Red pressure	0-500 psi	R-134	a/404A/407C
49518	3-1/2" Blue compound	30"-0-120 psi	n-104a/404A/407C	
°C - Celsius Gauges				
UPC#	Description	Pressure scale Refrig		Refrigerants
49521	3-1/2" Red pressure	0-500 psi (0 to 35 bar)	R-134a/
49522	3-1/2" Blue compound	1 30"-0-116 psi (-1 to 8 bar) 404A/407C		404A/407C

*Features retard protection to 500 psi.



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



°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	
49008	Set red and blue			
49013	2-1/2" Red pressure	0 - 500 psi	R-12/22/134a	
49014	2-1/2" Blue compound	30"-0-120** psi	H=12/22/104a	
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	11-410/	
49051	2-1/2" Red pressure	0 - 500 psi	R-134a/404A/507	
49052	2-1/2" Blue compound	30"-0-120** psi	11-13-4/40-7/301	
49053*	2-1/2" Red pressure	bar and MPa	R-410A	
49054*	2-1/2" Blue compound	bar and MPa	11-410/	
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.

- Steel case for durability
- High-visibility dials with colored temperature scales for easy
- 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

°C - C	°C - Celsius Gauges			
UPC#	Description	Pressure scale	Refrigerants	
49003	2-1/2" Red pressure	kPa and psi	B-12/22/502	
49004	2-1/2" Blue compound	kPa and psi	n-12/22/302	
49005	2-1/2" Red pressure	bar and psi	B-12/22/502	
49006	2-1/2" Blue compound	bar and psi	H=12/22/302	
49025	2-1/2" Red pressure	bar and MPa	B-12/22/502	
49026	2-1/2" Blue compound	bar and MPa	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	11 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	11 22/10 10/10/10	
49033	2-1/2" Red pressure	bar and psi	R-22/134a/404A	
49034	2-1/2" Blue compound	bar and psi	11 22/1040/404/1	
49035*	2-1/2" Red pressure	psi/kg/cm ²	R-410A	
49036*	2-1/2" Blue compound	psi/kg/cm ²	11 110/1	
49053*	2-1/2" Red pressure	bar and MPa	R-410A	
49054*	2-1/2" Blue compound	bar and MPa		
49055	2-1/2" Red pressure	bar and psi	R-134a/404A/507	
49056	2-1/2" Blue compound	bar and psi		
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		
49059	2-1/2" Red pressure	MPa	R-134a/404A/407C/507	
49060	2-1/2" Blue compound	MPa	11 10 10 10 10 10 10 10 10 10 10 10 10 1	
49063	2-1/2" Red pressure	bar and psi	R-134a/404A/407C	
49064	2-1/2" Blue compound	bar and psi		
49010	Replacement crystal			

^{*} These gauges have °C and °F on dial.

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.

 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	
49047	2-1/2" Brass pressure	0 - 500 psi	R-12/22/502	
49048	2-1/2" Brass compound	30"-0-120* psi	N=12/22/302	
49067	2-1/2" Brass pressure	0 - 500 psi	R-22/134a/404A	
49068	2-1/2" Brass compound	30"-0-120* psi	N=22/134a/404A	
49049	Set of 49047, 49048			
49069	Set of 49067, 49068			
Certified	rtified Gauges			
49197	2-1/2" Brass pressure	0 - 500 psi	R-12/22/502	
49198	2-1/2" Brass compound	30"-0-120* psi	11-12/22/302	
49199	2-1/2" Brass pressure	0 - 500 psi	R-22/134a/404A	
49200	2-1/2" Brass compound	30"-0-120* psi	11-22/1044/404/	
49010	Replacement crystal (polycarbonate) for old 49011, 49012			
49039	Glass crystal for brass gau	ıge		
49040	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 76-0-28 bar °C
40202	2-1/2" Gauge with twist on polycarbonate crystal	30" - 0 - 150 psi °F and 76-0-10 bar °C
49010	2-1/2" Replacement crystal	

MATCHING REFRIGERANT WITH A YELLOW JACKET® GAUGE

Gases	UPC#	Certified	Size	Туре	Color	F/C	Scale
12/134a/	49165	49265	3-1/8"	Steel	Red	С	bar/psi
413A	49166	49266	3-1/8"	Steel	Blue	С	bar/psi
12/22/	49013		2-1/2"	Steel	Red	F	psi
134a	49014		2-1/2"	Steel	Blue	F	psi
	49103	49203	3-1/8"	Steel	Red	F	psi
	49104	49204	3-1/8"	Steel	Blue	F	psi
12/22/	49001		2-1/2"	Steel	Red	F	psi
502	49002		2-1/2"	Steel	Blue	F	psi
	49008		Set 49001/02				
	49003		2-1/2"	Steel	Red	С	kPa/psi
	49004		2-1/2"	Steel	Blue	С	kPa/psi
	49005		2-1/2"	Steel	Red	С	bar/psi
	49006		2-1/2"	Steel	Blue	С	bar/psi
	49025		2-1/2"	Steel	Red	С	bar/MPa
	49026		2-1/2"	Steel	Blue	С	bar/MPa
	49027		2-1/2"	Steel	Red	С	kg/cm²/psi
	49028		2-1/2"	Steel	Blue	С	kg/cm²/psi
	49047	49197	2-1/2"	Brass		F	psi
	49048	49198	2-1/2"	Brass		F	psi
	49049		Set 49047/48				
	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	С	bar/MPa
	49144	49244	3-1/8"	Steel	Blue	С	bar/MPa
	49145	49245	3-1/8"	Steel	Red	С	bar/psi
	49146	49246	3-1/8"	Steel	Blue	С	bar/psi
22	49511		3-1/2"	Liquid	Red	F/C	bar/psi
	49512		3-1/2"	Liquid	Blue	F/C	bar/psi
134a/	49063		2-1/2"	Steel	Red	С	bar/psi
404A/	49064		2-1/2"	Steel	Blue	С	bar/psi
407C	49131	49231	3-1/8"	Steel	Red	С	bar/psi
	49132	49232	3-1/8"	Steel	Blue	С	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	С	bar/MPa
	49164	49264	3-1/8"	Steel	Blue	С	bar/MPa
	49517		3-1/2"	Liquid	Red	F	psi
	49518		3-1/2"	Liquid	Blue	F	psi
	49521		3-1/2"	Liquid	Red	С	bar/psi
	49522		3-1/2"	Liquid	Blue	С	bar/psi
134a/	49059		2-1/2"	Steel	Red	С	MPa
404A/	49060		2-1/2"	Steel	Blue	С	MPa
407C/507							
134a/	49051		2-1/2"	Steel	Red	F	psi
404A/	49052		2-1/2"	Steel	Blue	F	psi
507	49055		2-1/2"	Steel	Red	С	bar/psi
	49056		2-1/2"	Steel	Blue	С	bar/psi
	49057		2-1/2"	Steel	Red	С	kg/cm²/psi
00/404 /	49058		2-1/2"	Steel	Blue	С	kg/cm²/psi
22/134a/	49015		2-1/2"	Steel	Red	F	psi
404A	49016		2-1/2"	Steel	Blue	F	psi
	49033		2-1/2"	Steel	Red	С	bar/psi
	49034	10100	2-1/2"	Steel	Blue	С	bar/psi
	49067	49199	2-1/2"	Brass		F	psi
	49068	49200	2-1/2"	Brass		F	psi
	49069	40005	Set 49067/68	CtI	Dest	Г	noi
	49105	49205	3-1/8"	Steel	Red	F	psi
	49106	49206	3-1/8"	Steel	Blue	F	psi kDo/poi
	49107		3-1/8"	Steel	Red	C	kPa/psi
	49108	10060	3-1/8"	Steel	Blue	C	kPa/psi
	49169	49269	3-1/8"	Steel	Red	C	bar/psi
	49170 49513	49270	3-1/8" 3-1/2"	Steel Liquid	Blue Red	F	bar/psi
	49513		3-1/2"	Liquid	Blue	r F	psi psi
	+3314		0.1/2	Liquid	Dide	1	ры

Gases	UPC #	Certified	Size	Туре	Color	F/C	Scale
22/134a/	49183		4"	Steel	Red	С	bar/psi
404A/407C	49184		4"	Steel	Blue	С	bar/psi
22/134a/	49041		_	Solar	Red	F/C	bar/psi/MPa
404A/407C	49042		_	Solar	Blue	F/C	bar/psi/MPa
409A/410A/							
438A/507							
22/134a/	49185		4"	Steel	Red	F	psi
404A/410A	49186		4"	Steel	Blue	F	psi
22/134a/	49031		2-1/2"	Steel	Red	С	bar/psi
407C	49032		2-1/2"	Steel	Blue	С	bar/psi
	49167	49267	3-1/8"	Steel	Red	С	bar/psi
	49168	49268	3-1/8"	Steel	Blue	С	bar/psi
22/404A/	49137	49237	3-1/8"	Steel	Red	F	psi
410A	49138	49238	3-1/8"	Steel	Blue	F	psi
	49139		3-1/8"	Steel	Red	С	psi
	49140		3-1/8"	Steel	Blue	С	psi
22/410A	49515		3-1/2"	Liquid	Red	F	psi
	49516		3-1/2"	Liquid	Blue	F	psi
410A	49035		2-1/2"	Steel	Red	F/C	kg/cm²/psi
	49036		2-1/2"	Steel	Blue	F/C	kg/cm²/psi
	49053		2-1/2"	Steel	Red	F/C	bar/MPa
	49054		2-1/2"	Steel	Blue	F/C	bar/MPa
	49109		3-1/8"	Steel	Red	С	kPa/psi
	49110		3-1/8"	Steel	Blue	С	kPa/psi
	49135	49235	3-1/8"	Steel	Red	F/C	bar/psi
	49136	49236	3-1/8"	Steel	Blue	F/C	bar/psi
	49141		3-1/8"	Steel	Heat		
					Pump	F/C	bar/psi
	49142		2 1/0"	Steel	Red Heat		
	49142		3-1/8"	Steel	Pump	F/C	bar/psi
					Blue	170	bai/poi
	49153	49253	3-1/8"	Steel	Red	С	bar/MPa
	49154	49254	3-1/8"	Steel	Blue	С	bar/MPa
	49519	.020 .	3-1/2"	Liquid	Red	F/C	bar/psi
	49520		3-1/2"	Liquid	Blue	F/C	bar/psi
417A/	49111		3-1/8"	Steel	Red	F	psi
422A/	49112		3-1/8"	Steel	Blue	F	psi
422D	49113		3-1/8"	Steel	Red	C	bar/psi
	49114		3-1/8"	Steel	Blue	C	bar/psi

