

PRESSURE GAUGES

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We've been in the pressure gauge business for more than 35 years, so we've learned a trick or two! Special dials, ranges, case materials... No Problem! We work with a network of gauge manufacturers, each with their particular expertise to complement our own.



Differential Pressure Gauges

	Prices Start at	See Page
Dwyer Magnehelic® Ultra Low Differential Pressure Gauges	\$63.50	438
Dwyer Photohelic® Indicating DP Gauges with High and Low Alarm	\$330.00	438
Mid-West Instrument Differential Pressure Gauges	\$230.00	436
Mid-West Instrument Differential Pressure Indicators for OEM Use	Call	436
Mid-West Instrument Model 120/122 Filter Minder Gauges	\$125.00	436



General Service Pressure Gauges

U S Gauge P500 Low Cost Drawn Steel and Brass Gauges	\$7.42	422
U S Gauge P590 ABS Plastic and Brass Gauges	\$26.47	431
U S Gauge P844U/P845FF/P562U Panel Mount Gauges	\$29.65	423



Liquid-Filled Pressure Gauges

U S Gauge 1550 Series 1.5" to 4" Stainless Steel Liquid Filled Gauges	\$29.12	425
U S Gauge 656 Series 2.5" or 4" Stainless Steel Liquid Filled Gauges	\$59.46	427
WIKA 213.53 2.5" Liquid Filled Industrial Gauges	\$23.56	424
WIKA 232.54 Liquid Filled Industrial Gauges	\$70.55	426



Process Gauges

U S Gauge 1931 Series Solid Front Process Gauges	\$186.41	428
WIKA 232.34DD Direct Drive Process Gauges	\$258.66	429
WIKA 212.34 and 232.34 XSEL Solid Front Process Gauges	\$100.87	428
WIKA 3D Instruments Solid Front Direct Drive Pressure Gauges	\$178.20	429



Sanitary Gauges

Chicago Stainless Equipment 3.5" and 5" Sanitary Gauges	\$304.00	432
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Special Service Gauges

Cecomp DPG1000 Series High Accuracy Digital Pressure Gauges	\$319.00	424
U S Gauge 1409 Series Portable 3" Test Gauges	\$238.70	431
U S Gauge 5105 HVAC Contractor's Gauge	\$31.00	430
U S Gauge P601/P612 Welding and Compressed Gas Regulator Gauges	\$30.80	430
U S Gauge P734 Low Pressure Diaphragm Gauges	\$80.67	430
U S Gauge P1535 Stainless Steel Pressure Gauges	\$179.62	431
U S Gauge PT1088 Pressure/Temperature Gauges for Boiler Service	\$48.42	430
WIKA 111.10SP Sprinkler System Gauges	\$18.18	430
WIKA 611.10 Low Pressure Diaphragm Gauges	\$52.51	431



Accessories

Hex Valve Metal Seat Hand Valves	\$162.00	433
Capillary and Coil Syphons	\$8.84	433
Mid-West Instrument Pressure Snubbers and Limiting Valves	\$32.00	433
WIKA Liquid Filled Chemical Seals for Pressure Gauges	Call	434



Prices in this catalog are current at the publication date, and are subject to change without notice.
Due to manufacturer agreements, not all products are available in all geographic areas and markets.

Rotary and Smart
Actuator Motors

Instrument Valves

Process Control
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ASCO Solenoid Valves

Pressure Gauges



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500 Series General Service Pressure Gauges

Combine ranges for
maximum savings! Call
for quantity discounts!

Specifications

Accuracy: $\pm 3-2-3\%$ of span**Window:** Flat glass, except 1.5" (plastic); Plastic lenses available for all sizes**Case and Ring (friction fit):** Drawn steel, black corrosion-resistant paint**Socket and Movement:** Brass**Bourdon Tube:** Phosphor bronze, soft
soldered**Connection:** 1/8" or 1/4" NPT

Pressure Range	Dial Size	Catalog Number	Price Each
1/8" NPT Bottom Connection			
30"HgVac	1.5"	146020A	\$9.31
0-15 PSI	1.5"	146000A	9.31
0-30 PSI	1.5"	166327	9.31
0-60 PSI	1.5"	146002A	9.31
0-100 PSI	1.5"	166318	9.31
0-160 PSI	1.5"	146004A	9.31
0-200 PSI	1.5"	166777	9.31
0-300 PSI	1.5"	146006A	9.31
30"HgVac	2"	047225A	7.42
30"HgVac-15 PSI	2"	066662A	7.42
30"HgVac-60 PSI	2"	047925A	7.42
30"HgVac-150 PSI	2"	049609A	7.42
0-15 PSI	2"	052420A	7.42
0-30 PSI	2"	163931	7.42
0-60 PSI	2"	164005	7.42
0-100 PSI	2"	163271	7.42
0-160 PSI	2"	048302A	7.42
0-200 PSI	2"	046645A	7.42
0-300 PSI	2"	048363A	7.42
0-160 PSI	2.5"	048536A	12.08
0-200 PSI	2.5"	050852A	12.08
0-300 PSI	2.5"	046647A	12.08

1/8" NPT Center Back Connection			
30"HgVac	1.5"	146021A	9.31
0-15 PSI	1.5"	146010A	9.31
0-30 PSI	1.5"	166320	9.31
0-60 PSI	1.5"	166321	9.31
0-100 PSI	1.5"	166322	9.31
0-160 PSI	1.5"	166323	9.31
0-200 PSI	1.5"	146015A	9.31
0-30 PSI	2"	163930	7.42
0-60 PSI	2"	055155A	7.42
0-100 PSI	2"	046776A	7.42
0-160 PSI	2"	070791A	7.42
0-200 PSI	2"	102673A	7.42
0-300 PSI	2"	051805A	7.42

1/4" NPT Bottom Connection			
30"HgVac	2"	163712	7.42
30"HgVac-30 PSI	2"	167218	7.42
0-15 PSI	2"	047615A	7.42
0-30 PSI	2"	163149	7.42
0-60 PSI	2"	163269	7.42
0-100 PSI	2"	162988	7.42
0-160 PSI	2"	163270	7.42
0-200 PSI	2"	163147	7.42
0-300 PSI	2"	163148	7.42
0-1000 PSI	2"	047494A	7.42

Pressure Range	Dial Size	Catalog Number	Price Each
1/4" NPT Bottom Connection			
30"HgVac	2.5"	171222A	\$12.08
30"-15 PSI	2.5"	047001A	17.90
30"-30 PSI	2.5"	047105A	17.90
30"-60 PSI	2.5"	046646A	17.90
30"-150 PSI	2.5"	047411A	12.08
0-15 PSI	2.5"	047102A	12.08
0-30 PSI	2.5"	163278	12.08
0-60 PSI	2.5"	163279	12.08
0-100 PSI	2.5"	163280	12.08
0-160 PSI	2.5"	163281	12.08
0-200 PSI	2.5"	163282	12.08
0-300 PSI	2.5"	163283	12.08
0-400 PSI	2.5"	049611A	12.08
0-600 PSI	2.5"	046648A	12.08
0-1000 PSI	2.5"	047496A	12.08
30"HgVac	3.5"	171223A	13.49
30"-15 PSI	3.5"	005493A	13.49
30"-30 PSI	3.5"	005495A	13.49
30"-150 PSI	3.5"	005499A	13.49
30"-300 PSI	3.5"	015936A	13.49
0-15 PSI	3.5"	005502A	13.49
0-30 PSI	3.5"	168536	13.49
0-60 PSI	3.5"	168537	13.49
0-100 PSI	3.5"	168538	13.49
0-160 PSI	3.5"	168539	13.49
0-200 PSI	3.5"	168540	13.49
0-300 PSI	3.5"	168541	13.49
0-400 PSI	3.5"	005515A	13.49
0-600 PSI	3.5"	005516A	13.49
0-1000 PSI	3.5"	005519A	13.49
30"HgVac	4.5"	005333A	22.00
30"-30 PSI	4.5"	005549A	22.00
30"-60 PSI	4.5"	012290A	22.00
30"-150 PSI	4.5"	012292A	22.00
0-30 PSI	4.5"	005804A	22.00
0-60 PSI	4.5"	005551A	22.00
0-100 PSI	4.5"	005554A	22.00
0-160 PSI	4.5"	005559A	22.00
0-200 PSI	4.5"	005561A	22.00

1/4" NPT Center Back Connection			
0-15 PSI	2"	046987A	7.42
0-30 PSI	2"	163949	7.42
0-60 PSI	2"	163272	7.42
0-100 PSI	2"	163273	7.42
0-160 PSI	2"	163274	7.42
0-200 PSI	2"	163275	7.42
0-300 PSI	2"	163276	7.42
0-60 PSI	2.5"	165214	12.08
0-100 PSI	2.5"	163284	12.08
0-160 PSI	2.5"	163285	12.08
0-200 PSI	2.5"	163286	12.08
0-600 PSI	2.5"	050851A	12.08
0-1000 PSI	2.5"	050870A	12.08

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**PRESSURE
GAUGES**

423



Panel Mount Gauges

Specifications

Dial Size: 2", 2.5", 3.5"

Case: *P844U:* Drawn steel with studs, U-clamp and nuts; black corrosion-resistant paint, furnished with 2-piece U-clamp and nuts. *P845FF:* Drawn steel with 3-hole flange, black corrosion-resistant paint.

Ring and Window: Threaded, polycarbonate

Movement: Brass

Bourdon Tube: Pressure ranges above 15 PSI up to and including 1000 PSI are phosphor bronze, soft soldered. Vacuum, 15 PSI and ranges above 1000 PSI are beryllium copper, soft soldered up to and including 2000 PSI and silver brazed above 2000 PSI.

Accuracy: $\pm 3-2-3\%$ of span

Model Selection Guide

Pressure Range	Dial Size	Catalog Number	Price Each
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P845FF Front Flange Panel Mount: 1/8" NPT Center Back Connection

30" HgVac-0	2"	164439	\$30.80
0-30 PSI	2"	164441	30.80
0-100 PSI	2"	164443	30.80
0-160 PSI	2"	164445	30.80
0-300 PSI	2"	164446	30.80
0-600 PSI	2"	164448	30.80
30" HgVac-0	2.5"	164449	35.42
0-15 PSI	2.5"	164450	35.42
0-30 PSI	2.5"	164451	35.42
0-60 PSI	2.5"	164452	35.42
0-100 PSI	2.5"	164453	35.42
0-160 PSI	2.5"	164454	35.42
0-200 PSI	2.5"	164455	35.42
0-300 PSI	2.5"	164456	35.42
0-600 PSI	2.5"	164458	35.42

P845FF Front Flange Panel Mount: 1/4" NPT Center Back Connection

30" HgVac-0	3.5"	138052A	72.20
0-15 PSI	3.5"	138053A	72.20
0-30 PSI	3.5"	138054A	72.20
0-60 PSI	3.5"	138055A	72.20
0-100 PSI	3.5"	138056A	72.20
0-200 PSI	3.5"	138057A	72.20
0-300 PSI	3.5"	138058A	72.20
0-600 PSI	3.5"	138059A	72.20

Need a range not shown? Just call.

Pressure Range	Dial Size	Catalog Number	Price Each
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P844U U-Clamp Panel Mount: 1/8" NPT Center Back Connection

30" HgVac-0	2"	164415	\$29.65
0-15 PSI	2"	164416	29.65
0-30 PSI	2"	164417	29.65
0-60 PSI	2"	164418	29.65
0-100 PSI	2"	164419	29.65
0-160 PSI	2"	164420	29.65
0-300 PSI	2"	164422	29.65
0-600 PSI	2"	164424	29.65
30" HgVac-0	2.5"	164425	34.65
0-15 PSI	2.5"	164426	34.65
0-30 PSI	2.5"	164427	34.65
0-60 PSI	2.5"	164428	34.65
0-100 PSI	2.5"	164429	34.65
0-160 PSI	2.5"	164430	34.65
0-200 PSI	2.5"	164431	34.65
0-300 PSI	2.5"	164432	34.65
0-600 PSI	2.5"	164434	34.65

P844U U-Clamp Panel Mount: 1/4" NPT Center Back Connection

0-1000 PSI	2.5"	164435	34.65
0-3000 PSI	2.5"	164437	34.65
30" HgVac-0	3.5"	138024A	69.31
0-15 PSI	3.5"	138025A	69.31
0-30 PSI	3.5"	138026A	69.31
0-60 PSI	3.5"	138027A	69.31
0-100 PSI	3.5"	138028A	69.31
0-200 PSI	3.5"	138029A	69.31
0-300 PSI	3.5"	138030A	69.31
0-600 PSI	3.5"	138031A	69.31

Miniature Panel Mount Gauges



Specifications

Accuracy: $\pm 3-2-3\%$ of span

Movement: Brass

Window: Polycarbonate

Case: Drawn steel with studs, black corrosion-resistant paint, with zinc-plated U-clamp and nuts. Breakaway clamp permits adjustment for panel thickness up to 0.14"

Dial: 1.5", steel, cupped, white background with black markings. Aluminum pointer with black finish

Ring: Brass, threaded, chrome-plated finish

Bourdon Tube: Vacuum to 15 PSI: Beryllium copper, soft soldered; 15 to 600 PSI: Phosphor bronze, soft soldered; 600 PSI and Higher: Beryllium copper, silver brazed



Model Selection Guide

Pressure Range	Dial Size	Catalog Number	Price Each
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P562 U-Clamp Panel Mount: 1/8" NPT Center Back Mount, Brass

30" HgVac-0	1.5"	146245A	\$56.22
0-15 PSI	1.5"	146243A	56.22
0-30 PSI	1.5"	146244A	56.22
0-60 PSI	1.5"	146246A	56.22
0-100 PSI	1.5"	146259A	56.22
0-160 PSI	1.5"	146260A	56.22
0-300 PSI	1.5"	146291A	56.22
0-600 PSI	1.5"	266296A	56.22
0-2000 PSI	1.5"	146900A	56.22

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Pressure Gauges



Liquid-Filled Stainless Steel Industrial Gauges

213.53 Liquid-Filled Gauges

WIKA 213.53 gauges feature a stainless steel case for protection in harsh environments. They are ideal for high vibration and pulsation applications.

Specifications

Accuracy: $\pm 2-1-2\%$ span

Working Temperature: Ambient: -40° to 140°F dry or silicone filled; -4° to 140°F Glycerine filled; Media temperature: 140°F max.

Case: 304 stainless steel

Wetted Parts: Copper alloy

Window: Polycarbonate

Dial: White ABS with black aluminum non-adjustable pointer; Single scale has PSI in black, dual scale has PSI values outside in black, BAR values inside in red.

Bezel Ring: Crimp-on stainless steel

Case-to-Socket O-ring: Dry or Silicone-filled: Viton; Glycerine-filled: EPDM

Standard Fill Fluid: Glycerine

Call for dual scale models, Buna-N o-ring or silicone fill.



Need special dials?
Colors, brands, ranges...
We can get them all!
Call for details.

Model Selection Guide

Pressure Range	Dial Size	Catalog Number	Price Each
Type 213.53, Single Scale (PSI), 1/4" NPT Bottom Connection			
30" Hg	2.5"	9767002	\$24.57
30"-0-30 PSI	2.5"	9767010	24.57
30"-0-60 PSI	2.5"	9767029	24.57
0-15 PSI	2.5"	9767037	23.56
0-30 PSI	2.5"	9767045	23.56
0-60 PSI	2.5"	9767053	23.56
0-100 PSI	2.5"	9767061	23.56
0-160 PSI	2.5"	9767070	23.56
0-200 PSI	2.5"	9767088	23.56
0-300 PSI	2.5"	9767096	23.56
0-400 PSI	2.5"	9767100	23.56
0-600 PSI	2.5"	9767118	23.56
0-1000 PSI	2.5"	9767126	23.56
0-1500 PSI	2.5"	9767134	26.18
0-2000 PSI	2.5"	9767142	26.18
0-3000 PSI	2.5"	9767150	26.18
0-5000 PSI	2.5"	9767169	26.18
0-10000 PSI	2.5"	9767177	33.63
Type 213.53, Single Scale (PSI), 1/4" NPT Center Back Mount			
30" Hg	2.5"	9767185	25.58
0-30 PSI	2.5"	9767193	24.57
0-60 PSI	2.5"	9767202	24.57
0-100 PSI	2.5"	9767215	24.57
0-160 PSI	2.5"	9767223	24.57
0-200 PSI	2.5"	9767231	24.57
0-300 PSI	2.5"	9767240	24.57
0-600 PSI	2.5"	9768947	24.57
0-1000 PSI	2.5"	9767258	24.57
0-1500 PSI	2.5"	9768165	27.19
0-2000 PSI	2.5"	9768939	27.19
0-3000 PSI	2.5"	9767266	27.19
0-5000 PSI	2.5"	9767274	27.19
0-10000 PSI	2.5"	9767282	34.64

High Accuracy Digital Pressure Gauges for Liquids and Gases



Specifications

Accuracy: $\pm 0.25\%$ full scale or better, ± 1 least significant digit

Material: Extruded aluminum case, Epoxy powder coated, polycarbonate cover, front and rear gaskets. Light gray body, light gray/blue front; **Pressure/Vacuum Connection:** 1/4" NPT male; **Wetted parts:** 316 stainless steel

Display: 3-1/2 digit LCD, 1/2" height; for ranges up to 1999; 4 digit LCD, 0.4" height, for ranges 2000+; 3 readings/sec nominal display update rate; **DPG1000BBL:** Red LCD backlight activated by holding ON button

Controls and Location: Display zero/span; non-interactive, $\pm 15\%$ range. Top-accessible multi-turn potentiometers.

Burst Pressure: Lesser of 4x rated pressure min. or 10000 PSI

Overpressure: 2x rated pressure min. (5000 PSI for 3000 PSI range, 7500 PSI for 5000 PSI range.)

Battery: **DPG1000B:** 3V lithium coin cell CR2354 or equivalent/1000 hours; 2 AAA alkaline for ranges 2000 and higher/500 hours; **DPG1000BBL:** Two replaceable 1.5 volt AAA alkaline; **Ranges to 1999:** 75 to 1000 hours; **Ranges 2000+:** 75 to 500 hours. (Depends on backlight usage)

Low Battery Indication: **Ranges to 1999:** LOBAT displays at battery replacement; **Ranges 2000+:** LOW BAT displays at 40% power remaining. Decimal points flash when battery must be replaced.

Auto Shutoff: 5 minutes standard

Operating Temperature: -20° to 85°C

Model Selection Guide

Description		Catalog Number	Price
DPG1000 Digital Pressure Gauge: $\pm 0.25\%$ Accuracy			
Battery Powered	0-15.00 PSIG	DPG1000B-15PSIG-5	\$319.00
	0-100.0 PSIG	DPG1000B-100PSIG-5	319.00
	0-200 PSIG	DPG1000B-200PSIG-5	319.00
	0-500 PSIG	DPG1000B-500PSIG-5	319.00
	0-1000 PSIG	DPG1000B-1000PSIG-5	319.00
	0-3000 PSIG	DPG1000B-3000PSIG-5	319.00
Backlit, Battery Powered	0-5000 PSIG	DPG1000B-5000PSIG-5	319.00
	0-15.00 PSIG	DPG1000BBL-15PSIG-5	349.00
	0-100.0 PSIG	DPG1000BBL-100PSIG-5	349.00
	0-200 PSIG	DPG1000BBL-200PSIG-5	349.00
	0-500 PSIG	DPG1000BBL-500PSIG-5	349.00
	0-1000 PSIG	DPG1000BBL-1000PSIG-5	349.00
	0-3000 PSIG	DPG1000BBL-3000PSIG-5	349.00
	0-5000 PSIG	DPG1000BBL-5000PSIG-5	349.00

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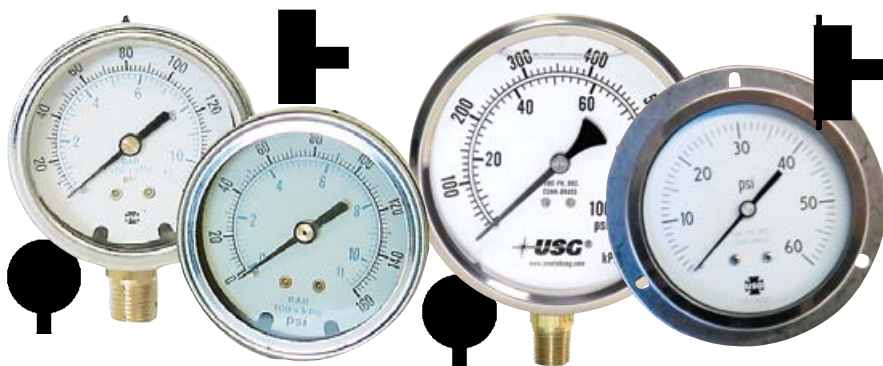
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**PRESSURE
GAUGES**

425

L

Liquid-Filled Stainless Steel Industrial Gauges



USG™
U.S. Gauge

Specifications

Size: 1.5" to 4"

Accuracy: 2.5% of full scale

Materials: Case and ring: 304 stainless steel; Window: Polycarbonate; Seals: Buna-N; Pointer: Black-finished Galvalume; Dial: Galvalume, white background with blue and black markings; Movement: Brass; Bourdon Tube: Phosphor bronze

Connections: Brass; 1.5" Dial: 1/8" NPT center back mount; 2" and 2.5" Dial: 1/4" NPT lower or center back mount

Standard Fill Fluid: Glycerine

Model Selection Guide

Pressure Range	Dial Size	Catalog Number	Price Each
Series 1559: 1/8" NPT Center Back Stem Mount			
0-30 PSI	1.5"	L 166664	\$29.04
0-60 PSI	1.5"	166665	29.04
0-100 PSI	1.5"	166666	29.04
0-160 PSI	1.5"	L 166667	29.04
0-300 PSI	1.5"	166668	29.04

Series 1555: 1/4" NPT Lower Stem Mount			
0-30 PSI	2"	L 165282	29.12
0-60 PSI	2"	L 165283	29.12
0-100 PSI	2"	L 165284	29.12
0-160 PSI	2"	L 165285	29.12
0-300 PSI	2"	165286	29.12
0-600 PSI	2"	165287	29.12
30" HgVac-0 PSI	2.5"	L 171722A	33.65
30" HgVac-30 PSI	2.5"	171724A	33.65
30" HgVac-60 PSI	2.5"	171725A	33.65
30" HgVac-100 PSI	2.5"	171726A	33.65
0-15 PSI	2.5"	L 171728A	33.65
0-30 PSI	2.5"	L 165296	33.65
0-60 PSI	2.5"	L 165297	33.65
0-100 PSI	2.5"	L 165298	33.65
0-160 PSI	2.5"	L 165299	33.65
0-200 PSI	2.5"	L 171729A	33.65
0-300 PSI	2.5"	L 165300	33.65
0-400 PSI	2.5"	L 171730A	33.65
0-600 PSI	2.5"	165301	33.65
0-1000 PSI	2.5"	L 165302	33.65
0-1500 PSI	2.5"	171731A	33.65
0-2000 PSI	2.5"	L 165377	33.65
0-3000 PSI	2.5"	L 165378	33.65
0-5000 PSI	2.5"	171732A	33.65
30" HgVac-0 PSI	4"	171967A	64.45
30"-0-15 PSI	4"	171968A	64.45
30"-0-30 PSI	4"	171969A	64.45
30"-0-60 PSI	4"	171970A	64.45
30"-0-100 PSI	4"	171971A	64.45
0-15 PSI	4"	171972A	64.45
0-30 PSI	4"	171973A	64.45
0-60 PSI	4"	171974A	64.45
0-100 PSI	4"	171975A	64.45
0-160 PSI	4"	171976A	64.45
0-200 PSI	4"	171977A	64.45
0-300 PSI	4"	171978A	64.45
0-600 PSI	4"	171979A	64.45
0-1000 PSI	4"	171980A	64.45
0-1500 PSI	4"	171981A	64.45
0-2000 PSI	4"	171982A	64.45
0-3000 PSI	4"	171983A	64.45
0-6000 PSI	4"	171984A	64.45

Pressure Range	Dial Size	Catalog Number	Price Each
Series 1559: 1/4" NPT Center Back Stem Mount			
0-30 PSI	2"	165289	\$30.46
0-60 PSI	2"	165290	30.46
0-100 PSI	2"	165291	30.46
0-160 PSI	2"	L 165292	30.46
0-1000 PSI	2"	165295	30.46
30" HgVac-0 PSI	2.5"	171733A	33.48
30" HgVac-30 PSI	2.5"	171735A	33.48
30" HgVac-100 PSI	2.5"	171737A	33.48
0-15 PSI	2.5"	171739A	33.48
0-30 PSI	2.5"	165303	33.48
0-60 PSI	2.5"	L 165304	33.48
0-100 PSI	2.5"	165305	33.48
0-160 PSI	2.5"	L 165306	33.48
0-200 PSI	2.5"	L 171740A	33.48
0-300 PSI	2.5"	165307	33.48
0-600 PSI	2.5"	L 165308	33.48
0-1000 PSI	2.5"	165309	33.48
0-2000 PSI	2.5"	165380	33.48
0-3000 PSI	2.5"	165381	33.48

Series 1558: 1/4" NPT Center Back Stem, Front Flange Panel Mount			
30" HgVac-0 PSI	2.5"	172317A	37.51
30" HgVac-30 PSI	2.5"	172319A	37.51
30" HgVac-100 PSI	2.5"	172321A	37.51
0-15 PSI	2.5"	172323A	37.51
0-30 PSI	2.5"	172324A	37.51
0-60 PSI	2.5"	L 172325A	37.51
0-100 PSI	2.5"	172326A	37.51
0-160 PSI	2.5"	172327A	37.51
0-200 PSI	2.5"	172328A	37.51
0-300 PSI	2.5"	172329A	37.51
0-400 PSI	2.5"	172330A	37.51
0-600 PSI	2.5"	172331A	37.51
0-1000 PSI	2.5"	172332A	37.51
0-2000 PSI	2.5"	172334A	37.51
0-3000 PSI	2.5"	172335A	37.51
0-5000 PSI	2.5"	172336A	37.51
30" HgVac-0 PSI	4"	171985A	64.45
30"-0-30 PSI	4"	171987A	64.45
30"-0-100 PSI	4"	171989A	64.45
0-15 PSI	4"	171990A	64.45
0-30 PSI	4"	171991A	64.45
0-60 PSI	4"	171992A	64.45
0-100 PSI	4"	171993A	64.45
0-160 PSI	4"	171994A	64.45
0-200 PSI	4"	171995A	64.45
0-300 PSI	4"	171996A	64.45
0-600 PSI	4"	171997A	64.45
0-1000 PSI	4"	171998A	64.45
0-2000 PSI	4"	172000A	64.45
0-3000 PSI	4"	172001A	64.45
0-6000 PSI	4"	172002A	64.45

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High Accuracy Stainless Steel Liquid Fillable Pressure Gauges

232.54 Stainless Steel Gauges

WIKA 232.54 gauges are designed for use in process, chemical applications, oil exploration, and production, and pollution control equipment

WIKA®

Specifications

Accuracy: ±2-1-2% span**Case:** 304 stainless steel**Wetted Parts:** 316 Stainless Steel**Window:** Safety Glass**Dial:** White aluminum with black aluminum adjustable pointer.**Bezel Ring:** Polished Stainless Steel*Call for dual scale models or other materials.*

Model Selection Guide

Pressure Range	Dial Size	Catalog Number	Price Each
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Type 232.54, Single Scale (PSI), 1/4" NPT Bottom Connection

30" Hg	2.5"	9744827	\$70.55
30"-0-15 PSI	2.5"	9744835	70.55
30"-0-30 PSI	2.5"	9744843	70.55
30"-0-60 PSI	2.5"	9744851	70.55
30"-0-100 PSI	2.5"	9744860	70.55
0-15 PSI	2.5"	9744894	67.79
0-30 PSI	2.5"	9744908	67.79
0-60 PSI	2.5"	9744916	67.79
0-100 PSI	2.5"	9744924	67.79
0-160 PSI	2.5"	9744932	67.79
0-200 PSI	2.5"	9744940	67.79
0-300 PSI	2.5"	9744959	67.79
0-400 PSI	2.5"	9744967	67.79
0-600 PSI	2.5"	9744975	67.79
0-800 PSI	2.5"	9744983	67.79
0-1000 PSI	2.5"	9744991	67.79
0-1500 PSI	2.5"	9745009	73.39
0-2000 PSI	2.5"	9745017	73.39
0-3000 PSI	2.5"	9745025	73.39
0-5000 PSI	2.5"	9745033	73.39
0-10000 PSI	2.5"	9745041	73.39

Pressure Range	Dial Size	Catalog Number	Price Each
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Type 232.54, Single Scale (PSI), 1/4" NPT Bottom Connection

30" Hg	4"	9745300	\$119.29
30"-0-15 PSI	4"	9745319	119.29
30"-0-30 PSI	4"	9745327	119.29
30"-0-60 PSI	4"	9745335	119.29
30"-0-100 PSI	4"	9745343	119.29
0-15 PSI	4"	9745378	115.45
0-30 PSI	4"	9745386	115.45
0-60 PSI	4"	9745394	115.45
0-100 PSI	4"	9745408	115.45
0-160 PSI	4"	9745416	115.45
0-200 PSI	4"	9745424	115.45
0-300 PSI	4"	9745432	115.45
0-400 PSI	4"	9745440	115.45
0-600 PSI	4"	9745459	115.45
0-800 PSI	4"	9745467	115.45
0-1000 PSI	4"	9745475	115.45
0-1500 PSI	4"	9745483	119.99
0-2000 PSI	4"	9745491	119.99
0-3000 PSI	4"	9745505	119.99
0-5000 PSI	4"	9745513	119.99
0-10000 PSI	4"	9745521	119.99

Type 232.54, Single Scale (PSI), 1/2" NPT Bottom Connection

30" Hg	4"	9745548	\$119.29
30"-0-15 PSI	4"	9745556	119.29
30"-0-30 PSI	4"	9745564	119.29
30"-0-60 PSI	4"	9745572	119.29
30"-0-100 PSI	4"	9745580	119.29
0-15 PSI	4"	9745610	115.45
0-30 PSI	4"	9745629	115.45
0-60 PSI	4"	9745637	115.45
0-100 PSI	4"	9745645	115.45
0-160 PSI	4"	9745653	115.45
0-200 PSI	4"	9745661	115.45
0-300 PSI	4"	9745670	115.45
0-400 PSI	4"	9745688	115.45
0-600 PSI	4"	9745696	115.45
0-800 PSI	4"	9745700	115.45
0-1000 PSI	4"	9745718	115.45
0-1500 PSI	4"	9745726	119.99
0-2000 PSI	4"	9745734	119.99
0-3000 PSI	4"	9745742	119.99
0-5000 PSI	4"	9745750	119.99
0-10000 PSI	4"	9745769	119.99

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WIKA Series 233.53
4" Dial General Industrial Gauge
Single Scale, Range: 30" Hg VAC-0
Stem Mount, 1/2" Male NPT Lower Back Connection
Stainless Steel Case, 316 Stainless Steel Connection
Accuracy: ±1.0% Range
Price: \$127.24

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**PRESSURE
GAUGES**

427



High Accuracy Stainless Steel Liquid Filled Pressure Gauges



USG 656 series gauges are ideal for corrosive environments or for use on equipment subject to excessive vibration and pulsation. The liquid fill minimizes the effects of severe environments, protects the gauge internals and provides continuous lubrication on the mechanism, all adding up to extended service life.

Specifications

Accuracy: 63mm: $\pm 1.6\%$ full scale; 100mm: $\pm 1.0\%$ full scale

Overrange Protection: 125% full scale

Working Temperature: Ambient: -40°F to 140°F (-40°C to 60°C); Fluid: -4°F to 176°F (-20°C to 80°C) Pressure Connection: 316L stainless steel; Element: 316L stainless steel, C-type or Helical-type Bourdon tube; 100mm C type

Case Pressure Relief: Top: Rubber Disc; Back: Rubber disc

Case and Bezel Ring: 304 stainless steel; bayonet type

Movement: 304 stainless steel

Window: 63mm: Polycarbonate; 100mm: Laminated shatter-resistant glass

Dial: White aluminum with black lettering

Pointer: Aluminum alloy, black painted

Standard Fill Fluid: Glycerine



Model Selection Guide

Pressure Range	Dial Size	Catalog Number	Price Each
656 Series, 1/4" NPT Center Back Connection			
0-30" Hg	2.5"	256024	\$66.46
30-0-15 PSI	2.5"	256025	66.46
30-0-30 PSI	2.5"	256026	66.46
30-0-60 PSI	2.5"	256027	66.46
30-0-100 PSI	2.5"	256028	66.46
30-0-150 PSI	2.5"	256029	66.46
0-15 PSI	2.5"	256031	66.46
0-30 PSI	2.5"	256032	66.46
0-60 PSI	2.5"	256033	66.46
0-100 PSI	2.5"	256034	66.46
0-160 PSI	2.5"	256035	66.46
0-200 PSI	2.5"	256036	66.46
0-300 PSI	2.5"	256037	66.46
0-400 PSI	2.5"	256038	66.46
0-600 PSI	2.5"	256039	66.46
0-1000 PSI	2.5"	256040	66.46
0-1500 PSI	2.5"	256041	66.46
0-2000 PSI	2.5"	256042	66.46
0-3000 PSI	2.5"	256043	66.46
0-4000 PSI	2.5"	256044	66.46
0-5000 PSI	2.5"	256045	66.46
0-6000 PSI	2.5"	256046	66.46
0-10000 PSI	2.5"	256047	66.46

Pressure Range	Dial Size	Catalog Number	Price Each
656 Series (Replaces 550 Series), 1/4" NPT Bottom Connection			
0-30" Hg	2.5"	256000	\$59.46
30-0-15 PSI	2.5"	256001	59.46
30-0-30 PSI	2.5"	256002	59.46
30-0-60 PSI	2.5"	256003	59.46
30-0-100 PSI	2.5"	256004	59.46
30-0-150 PSI	2.5"	L 256005	59.46
0-15 PSI	2.5"	256007	59.46
0-30 PSI	2.5"	256008	59.46
0-60 PSI	2.5"	L 256009	59.46
0-100 PSI	2.5"	L 256010	59.46
0-160 PSI	2.5"	256011	59.46
0-200 PSI	2.5"	L 256012	59.46
0-300 PSI	2.5"	L 256013	59.46
0-400 PSI	2.5"	256014	59.46
0-600 PSI	2.5"	256015	59.46
0-1000 PSI	2.5"	L 256016	59.46
0-1500 PSI	2.5"	256017	59.46
0-2000 PSI	2.5"	256018	59.46
0-3000 PSI	2.5"	256019	59.46
0-4000 PSI	2.5"	256020	59.46
0-5000 PSI	2.5"	256021	59.46
0-6000 PSI	2.5"	256022	59.46
0-10000 PSI	2.5"	256023	59.46

656 Series, 1/4" NPT Bottom Connection

0-30" Hg	4"	L 356000	\$120.76
30-0-100 PSI	4"	356004	120.76
30-0-150 PSI	4"	356005	120.76
0-15 PSI	4"	356007	120.76
0-30 PSI	4"	356008	120.76
0-60 PSI	4"	356009	120.76
0-100 PSI	4"	L 356010	120.76
0-160 PSI	4"	L 356011	120.76
0-200 PSI	4"	356012	120.76
0-300 PSI	4"	356013	120.76
0-400 PSI	4"	356014	120.76
0-600 PSI	4"	356015	120.76
0-800 PSI	4"	356016	120.76
0-1000 PSI	4"	356017	120.76
0-1500 PSI	4"	356018	120.76
0-2000 PSI	4"	356019	120.76
0-3000 PSI	4"	356020	120.76
0-6000 PSI	4"	356021	120.76
0-10000 PSI	4"	356022	120.76
0-14500 PSI	4"	356023	120.76
0-23000 PSI	4"	356024	120.76

656 Series, 1/2" NPT Bottom Connection

0-30" Hg	4"	356025	\$120.76
30-0-100 PSI	4"	356029	120.76
30-0-150 PSI	4"	356030	120.76
0-15 PSI	4"	356032	120.76
0-30 PSI	4"	356033	120.76
0-60 PSI	4"	356034	120.76
0-100 PSI	4"	L 356035	120.76
0-160 PSI	4"	356036	120.76
0-200 PSI	4"	356037	120.76
0-300 PSI	4"	356038	120.76
0-400 PSI	4"	356039	120.76
0-600 PSI	4"	356040	120.76
0-800 PSI	4"	356041	120.76
0-1000 PSI	4"	356042	120.76
0-1500 PSI	4"	356043	120.76
0-2000 PSI	4"	356044	120.76
0-3000 PSI	4"	356045	120.76
0-6000 PSI	4"	356046	120.76
0-10000 PSI	4"	356047	120.76
0-14500 PSI	4"	356048	120.76
0-23000 PSI	4"	356049	120.76

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Pressure Gauges

Solid Front Process Gauges

212.34 XSEL Process Gauge

Withstands vibration, corrosive media and environments and extreme temperatures.

Specifications

Accuracy: ±0.5% span

Case and Ring: Black Pocan®, Acrylic window

Dial: White aluminum with black aluminum adjustable pointer

Wetted Parts: Copper alloy



Model Selection Guide

Pressure Range	Dial Size	Catalog Number	Price Each
Type 212.34, Single Scale (PSI), 1/2" NPT Bottom Connection			
30" Hg	4.5"	9834257	\$100.87
30"-0-15 PSI	4.5"	9834265	100.87
30"-0-30 PSI	4.5"	9834273	100.87
30"-0-60 PSI	4.5"	9834281	100.87
30"-0-100 PSI	4.5"	9834290	100.87
30"-0-160 PSI	4.5"	9834303	100.87
0-15 PSI	4.5"	9834338	100.87
0-30 PSI	4.5"	9834346	100.87
0-60 PSI	4.5"	9834354	100.87
0-100 PSI	4.5"	9834362	100.87
0-160 PSI	4.5"	9834370	100.87
0-200 PSI	4.5"	9834389	100.87
0-300 PSI	4.5"	9834397	100.87
0-400 PSI	4.5"	9834400	100.87
0-600 PSI	4.5"	9834419	100.87
0-800 PSI	4.5"	9834990	100.87
0-1000 PSI	4.5"	9834427	100.87

632.34 Low Pressure Process Gauge

Measure the pressure of gaseous media from 10" H₂O to 10 PSI.

Specifications

Accuracy: ±2-1-2% span

Case: Black thermoplastic with threaded thermoplastic bezel ring

Dial: White aluminum with black adjustable pointer

Window: Acrylic

Wetted Parts: 316L stainless steel



Model Selection Guide

Outer Scale	Inner Scale	Dial Size	Catalog Number	Price Each
Type 632.34, Single Scale (PSI), Stainless 1/4" NPT Bottom Connection				
10" H ₂ O	6 oz/in ²	4.5"	4217187	\$691.09
15" H ₂ O	9 oz/in ²	4.5"	4217195	691.09
20" H ₂ O	12 oz/in ²	4.5"	4217209	691.09
30" H ₂ O	18 oz/in ²	4.5"	4217217	691.09
40" H ₂ O	24 oz/in ²	4.5"	4217225	691.09
60" H ₂ O	35 oz/in ²	4.5"	4217233	691.09
80" H ₂ O	45 oz/in ²	4.5"	4217241	691.09
100" H ₂ O	57 oz/in ²	4.5"	4217250	691.09
150" H ₂ O	90 oz/in ²	4.5"	4217268	691.09
0-5 PSI	10" Hg	4.5"	4217152	691.09
0-8 PSI	16" Hg	4.5"	4217161	691.09
0-10 PSI	20" Hg	4.5"	4217179	691.09

232.34 XSEL Process Gauge

Withstands vibration, corrosive media and environments and extreme temperatures.

Specifications

Accuracy: ±0.5% span

Case and Ring: Black Pocan®, Acrylic window

Dial: White aluminum with black aluminum adjustable pointer

Wetted Parts: 316L stainless steel



Model Selection Guide

Pressure Range	Dial Size	Catalog Number	Price Each
Type 232.34, Single Scale (PSI), 1/2" NPT Bottom Connection			
30" Hg	4.5"	9834729	\$109.30
30"-0-15 PSI	4.5"	9834737	109.30
30"-0-30 PSI	4.5"	9834745	109.30
30"-0-60 PSI	4.5"	9834753	109.30
30"-0-100 PSI	4.5"	9834761	109.30
0-15 PSI	4.5"	9834800	109.30
0-30 PSI	4.5"	9834818	109.30
0-60 PSI	4.5"	9834826	109.30
0-100 PSI	4.5"	9834834	109.30
0-160 PSI	4.5"	9834842	109.30
0-200 PSI	4.5"	9834850	109.30
0-300 PSI	4.5"	9834869	109.30
0-400 PSI	4.5"	9834877	109.30
0-600 PSI	4.5"	9834885	109.30
0-800 PSI	4.5"	9834974	109.30
0-1000 PSI	4.5"	9834893	109.30
0-1500 PSI	4.5"	9834907	109.30
0-2000 PSI	4.5"	9834915	109.30
0-3000 PSI	4.5"	9834923	109.30
0-5000 PSI	4.5"	9834931	109.30

1931 Aluminum Case Process Gauge

Accuracy: ±0.5% of span (Grade 2A)

Movement: Geared ARC-LOC with 300 series stainless steel components.

Bourdon Tube: 316 SS /TIG welded

Dial: Aluminum, white with black markings; Anodized aluminum pointer; Acrylic window

Connection: 316 stainless steel

Case and Ring: Cast aluminum, black finish, stainless steel pressure-relieving back



Model Selection Guide

Pressure Range	Dial Size	Catalog Number	Price Each
30" Hg Vac- 0 PSI	4.5"	150215X	\$186.41
30" Hg Vac-30 PSI	4.5"	150217X	186.41
30" Hg Vac-100 PSI	4.5"	150219X	186.41
0-15 PSI	4.5"	150220X	186.41
0-30 PSI	4.5"	150221X	186.41
0-60 PSI	4.5"	150222X	186.41
0-100 PSI	4.5"	150223X	186.41
0-160 PSI	4.5"	150224X	186.41
0-200 PSI	4.5"	150225X	186.41
0-300 PSI	4.5"	150226X	186.41
0-400 PSI	4.5"	150227X	186.41
0-600 PSI	4.5"	150228X	186.41
0-1000 PSI	4.5"	150230X	186.41

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**PROCESS
GAUGES**

429

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WIKAI® Solid Front Direct Drive Pressure Gauges

For use where high dynamic pressure pulsations, vibration, or shock are present. For corrosive environments and gaseous or liquid media that will not obstruct the pressure system.

Specifications

Accuracy: ±0.5% of span

Temperature: Ambient: -65° to 190° F; Medium: -65° to 400° F

Case: Fiberglass-reinforced thermoplastic; Solid front, blowout back; Turret-style case with flange lugs; Acrylic window and Buna-N gasket; Weather Resistant (NEMA 3/IP54)

Bourdon Tube/Wetted Parts: Material: Inconel X-750; 316L SS socket and capillary; All connections micro-brazed/welded/helium leak tested

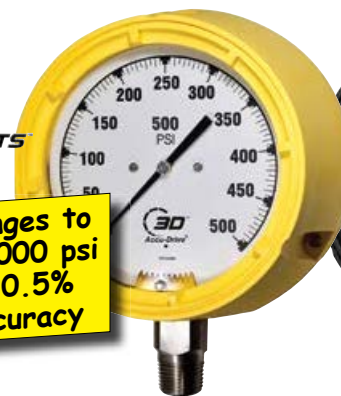
Dial: White aluminum; black aluminum adjustable pointer;

Working Pressure: Steady: full scale value; Fluctuating: 0.9 x full-scale value; Short time: 1.5 x full-scale value

Pressure Connection: 316L SS; Lower back mount; 1/4" or 1/2" NPT



**Ranges to
20,000 psi
±0.5%
accuracy**



**Ranges to
10,000 psi
±0.25%
accuracy**

Filter: Porous metal slug – 316 SS; Porosity: 25 to 50 microns

Certification: Traceable to NIST with data (test gauge only)

Model Selection Guide

Pressure Range	Dial Size	Catalog Number	Price Each
Series 34 Accu-Drive Process Gauge, 1/2" NPT Bottom Stem Mount			
-30" Hg-0-15 PSI	4.5"	3494-1P21Z-C94-DZZZ	\$203.04
-30" Hg-0-30 PSI	4.5"	3494-1P48Z-C94-DZZZ	178.20
-30" Hg-0-60 PSI	4.5"	3494-1P22Z-C94-DZZZ	178.20
-30" Hg-0-100 PSI	4.5"	3494-1P23Z-C94-DZZZ	178.20
-30" Hg-0-160 PSI	4.5"	3494-1P24Z-C94-DZZZ	178.20
0-30 PSI	4.5"	3494-5P21Z-C94-DZZZ	203.04
0-60 PSI	4.5"	3494-5P22Z-C94-DZZZ	178.20
0-100 PSI	4.5"	3494-5P23Z-C94-DZZZ	178.20
0-150 PSI	4.5"	3494-5P24Z-C94-DZZZ	178.20
0-160 PSI	4.5"	3494-5P45Z-C94-DZZZ	178.20
0-200 PSI	4.5"	3494-5P25Z-C94-DZZZ	178.20
0-300 PSI	4.5"	3494-5P26Z-C94-DZZZ	178.20
0-500 PSI	4.5"	3494-5P27Z-C94-DZZZ	178.20
0-600 PSI	4.5"	3494-5P28Z-C94-DZZZ	178.20
0-1000 PSI	4.5"	3494-5P29Z-C94-DZZZ	178.20
0-1500 PSI	4.5"	3494-5P31Z-C94-DZZZ	178.20
0-2000 PSI	4.5"	3494-5P32Z-C94-DZZZ	178.20
0-3000 PSI	4.5"	3494-5P33Z-C94-DZZZ	178.20

Pressure Range	Dial Size	Catalog Number	Price Each
Series 34 Accu-Drive Test Gauge, 1/2" NPT Bottom Stem Mount			
-30" Hg-0-15 PSI	4.5"	3444-1P21Z-C94-ZZZZ	\$359.64
-30" Hg-0-30 PSI	4.5"	3444-1P48Z-C94-ZZZZ	334.80
-30" Hg-0-60 PSI	4.5"	3444-1P22Z-C94-ZZZZ	334.80
-30" Hg-0-100 PSI	4.5"	3444-1P23Z-C94-ZZZZ	334.80
-30" Hg-0-160 PSI	4.5"	3444-1P24Z-C94-ZZZZ	334.80
0-30 PSI	4.5"	3444-5P21Z-C94-ZZZZ	359.64
0-60 PSI	4.5"	3444-5P22Z-C94-ZZZZ	334.80
0-100 PSI	4.5"	3444-5P23Z-C94-ZZZZ	334.80
0-150 PSI	4.5"	3444-5P24Z-C94-ZZZZ	334.80
0-160 PSI	4.5"	3444-5P45Z-C94-ZZZZ	334.80
0-200 PSI	4.5"	3444-5P25Z-C94-ZZZZ	334.80
0-300 PSI	4.5"	3444-5P26Z-C94-ZZZZ	334.80
0-500 PSI	4.5"	3444-5P27Z-C94-ZZZZ	334.80
0-600 PSI	4.5"	3444-5P28Z-C94-ZZZZ	334.80
0-1000 PSI	4.5"	3444-5P29Z-C94-ZZZZ	334.80
0-1500 PSI	4.5"	3444-5P31Z-C94-ZZZZ	334.80
0-2000 PSI	4.5"	3444-5P32Z-C94-ZZZZ	334.80
0-3000 PSI	4.5"	3444-5P33Z-C94-ZZZZ	334.80

WIKAI 232.34DD Direct Drive Process Gauge



Engineered to withstand vibration, corrosive media, corrosive environments and a wide range of temperature extremes.

Specifications

Accuracy: ±0.5% span

Case: Yellow thermoplastic, solid front; Clear acrylic window

Wetted Parts: Inconel® X-750 & 316 SS

Dial: White aluminum with stop pin at 6 o'clock, black aluminum adjustable pointer

Bezel Ring: Stainless steel

Model Selection Guide

Pressure Range	Dial Size	Catalog Number	Price Each
Type 232.34DD, Single Scale (PSI), 1/2" NPT Bottom Connection			
30"-0-30 PSI	4.5"	52386163	\$258.66
30"-0-60 PSI	4.5"	52386180	258.66
30"-0-150 PSI	4.5"	52386201	258.66
30"-0-300 PSI	4.5"	52386210	258.66
0-30 PSI	4.5"	52386228	258.66
0-60 PSI	4.5"	52386236	258.66
0-100 PSI	4.5"	52386244	258.66
0-160 PSI	4.5"	52386252	258.66
0-200 PSI	4.5"	52386261	258.66
0-300 PSI	4.5"	52386279	258.66
0-500 PSI	4.5"	52386287	258.66
0-1000 PSI	4.5"	52386295	258.66
0-1500 PSI	4.5"	52386317	258.66
0-2000 PSI	4.5"	52386325	258.66
0-3000 PSI	4.5"	52386333	258.66
0-5000 PSI	4.5"	52386341	258.66
0-10000 PSI	4.5"	52386350	258.66

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Pressure Gauges

Special Service Gauges

Low Pressure Diaphragm Gauges

Specifications

Accuracy: ±3-2-3% of span

Materials: Case: Black painted steel; Window: Acrylic; Movement: Brass sector, nickel silver pinion, arbor, and pivots; Diaphragm: Phosphor bronze

Connection: Brass, 1/4" NPT bottom



Model Selection Guide

Pressure Range	Dial Size	Catalog Number	Price Each
P734 Gauge: 1/4" NPT Bottom Stem Mount			
0-15" H ₂ O	2.5"	L 161963A	\$80.67
0-35" H ₂ O	2.5"	L 161964A	80.67
0-60" H ₂ O	2.5"	L 162787A	80.67
0-100" H ₂ O	2.5"	161965A	80.67
0-200" H ₂ O	2.5"	161966A	80.67
0- 20 Oz.	2.5"	161967A	80.67
0- 32 Oz.	2.5"	161968A	80.67
0- 36 Oz.	2.5"	161969A	80.67
0- 5 PSI	2.5"	L 161970A	80.67
0- 10 PSI	2.5"	161971A	80.67
0-20 Oz./0-35" H ₂ O	2.5"	161972A	80.67

Welding and Compressed Gas Regulator Gauges

Specifications

Accuracy: ±3-2-3% of span

Approvals: UL approved for compressed gas services. Cleanliness per ANSI B40.1-1980.

Connection: 1/4" NPT bottom brass

Materials: Case: Drawn brass, polished finish, with pressure relief in back of case; Ring and window: Polycarbonate; Dial: Steel, white background, black markings. Major graduations and "USE NO OIL" in red; Movement: Brass; Bourdon tube: P601: Phosphor bronze, silver brazed; P612: Admiralty brass 30, phosphor bronze 100, all soft-soldered.



Model Selection Guide

Figure Number	Dial Size	Pressure Range	Catalog Number	Price Each
P612	2"	0- 30 PSI	165509A	\$30.80
	2"	0- 60 PSI	165567A	30.80
	2"	0- 100 PSI	164257A	30.80
	2"	0- 200 PSI	164259A	30.80
	2"	0- 400 PSI	164261A	30.80
	2"	0- 600 PSI	164262A	30.80
	2.5"	0- 30 PSI	165616A	42.16
	2.5"	0- 60 PSI	165660A	42.16
	2.5"	0- 100 PSI	164285A	42.16
	2.5"	0- 200 PSI	164287A	42.16
P601	2.5"	0- 400 PSI	164289A	42.16
	2.5"	0- 500 PSI	165064A	42.16
	2.5"	0- 600 PSI	164290A	42.16
	2"	0- 3000 PSI	144202A	30.80
	2"	0- 4000 PSI	143403A	30.80
	2.5"	0- 3000 PSI	144203A	42.16
	2.5"	0- 4000 PSI	143404A	42.16

Boiler Service Gauges

For use on hot water heating boilers, these gauges give accurate indication of both temperature and pressure.

Specifications

Accuracy: Pressure: ±3-2-3% span; Temperature: ±3% span

Materials: Case: Drawn steel, friction fit, black corrosion-resistant paint; Window: Acrylic; Movement and socket: Brass



Model Selection Guide

Pressure Range	Dial Size	Catalog Number	Price Each
1/4" NPT Center Back Connection			
0-75 PSI/60-320°F	2.5" (0.78" shank)	199960	\$48.42
0-75 PSI/60-320°F	2.5" (2.02" shank)	199961	52.46

HVAC Contractor's Gauge

Specifications

Accuracy: 1.5-1-1.5% of span (exceeds Grade A ANSI-ASME B40.1)

Materials: Ring: Aluminum; Case: Black aluminum; pressure relief grommet; acrylic window; Dial: White steel; black aluminum, adjustable pointer; Movement: Precision geared brass; Bourdon tube: Phosphor bronze or Beryllium copper.



Model Selection Guide

Pressure Range	Dial Size	Catalog Number	Price Each
USG 5105 Contractor's Gauge: 1/4" NPT Bottom Male Brass Connection			
30" HgVac	4.5"	160803A	\$31.00
0- 30 PSI	4.5"	160809A	31.00
0- 60 PSI	4.5"	160810A	31.00
0- 160 PSI	4.5"	160812A	31.00
0- 200 PSI	4.5"	160813A	31.00
0- 300 PSI	4.5"	160814A	31.00

Sprinkler System Gauge

Specifications

Accuracy: ±3-2-3% span per ASME B40.1 Grade B

Connection: 1/4" NPT bottom, brass

Materials: Case: Black polycarbonate; polycarbonate window; Movement/Connection: Copper alloy; Bourdon tube: C-type copper alloy; Dial: White aluminum with stoppin; black aluminum pointer. Black and red markings

Approvals: UL listed UL-393, FM approved



Model Selection Guide

Figure Number	Dial Size	Pressure Range	Catalog Number	Price Each
111.10SP	4"	300 PSI (Water)	L 4233761	\$18.18
111.10SP	4"	80 PSI (Retard)	4233779	20.42

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**PRESSURE
GAUGES**

431

L



P590 ABS Plastic Case Gauges

Specifications

Accuracy: $\pm 3-2-3\%$ span

Materials: ABS plastic weather-resistant case, polycarbonate lens; brass movement; Beryllium copper or phosphor bronze bourdon tube

Call for P590 gauges with center back connections.



Model Selection Guide

Range	Dial Size	Process Connection	Catalog Number	Price Each
P590 ABS Plastic Case Gauge: Lower Male Brass Connection				
0-15 PSI	1.5"	1/8" NPT	146989A	\$31.96
0-30 PSI	1.5"	1/8" NPT	146990A	31.96
0-60 PSI	1.5"	1/8" NPT	146991A	31.96
0-100 PSI	1.5"	1/8" NPT	146992A	31.96
0-160 PSI	1.5"	1/8" NPT	146993A	31.96
0-30 PSI	2"	1/4" NPT	160652A	26.47
0-60 PSI	2"	1/4" NPT	160653A	26.47
0-100 PSI	2"	1/4" NPT	160654A	26.47
0-160 PSI	2"	1/4" NPT	160655A	26.47
0-200 PSI	2"	1/4" NPT	160656A	26.47
0-300 PSI	2"	1/4" NPT	160657A	26.47

Stainless Steel Pressure Gauges

These heavy duty pressure gauges are designed to withstand corrosive atmospheres, industrial gases, and can be used in corrosive process media.

Specifications

Accuracy: $\pm 1\%$ of span

Size: 2", 2.5", and 3.5"

Materials: Case: Drawn stainless steel satin finish, pressure relief in case back; Window and threaded ring: Polycarbonate; Bourdon tube: 316 stainless steel, heli-arc welded



Model Selection Guide

Pressure Range	Dial Size	Catalog Number	Price Each
P1535 Gauge: 1/4" NPT Bottom Stem Mount, 316 Stainless Steel			
0-15 PSI	2.5"	110792A	\$179.62
0-30 PSI	2.5"	110793A	179.62
0-60 PSI	2.5"	110794A	179.62
0-100 PSI	2.5"	110690A	179.62
0-160 PSI	2.5"	110795A	179.62
0-200 PSI	2.5"	110796A	179.62
0-300 PSI	2.5"	110797A	179.62
0-400 PSI	2.5"	110798A	179.62
0-600 PSI	2.5"	110799A	179.62
0-1000 PSI	2.5"	110800A	179.62

611.10 Low Pressure Gauges

These extremely sensitive WIKA gauges are designed to measure gaseous media as low as 10" H₂O.



Specifications

Accuracy: $\pm 1.5\%$ span

Materials: Case: Black painted steel; Window: Acrylic; Movement: Brass with highly polished bearing surfaces; Dial: Aluminum, white face, black pointer; Wetted parts: Copper alloy

Model Selection Guide

Range	Dial Size	Catalog Number	Price Each
611.10 Single Scale, 1/4" NPT Bottom Stem Mount			
0-3 PSI	2.5"	9851925	\$52.51
0-5 PSI	2.5"	9851933	52.51
0-10 PSI	2.5"	4204212	52.51
611.10 Dual Scale ("H₂O/mmH₂O), 1/4" NPT Bottom Stem Mount			
0-30" Vac / 0-760mm Vac H ₂ O	2.5"	9852344	52.51
0-60" Vac / 0-1500mm Vac H ₂ O	2.5"	9748321	52.51
0-100" Vac / 0-2500mm Vac H ₂ O	2.5"	9747473	52.51
0-15" / 0-380mm H ₂ O	2.5"	9851682	52.51
0-30" / 0-760mm H ₂ O	2.5"	9851690	52.51
0-60" / 0-1500mm H ₂ O	2.5"	9851704	52.51
0-100" / 0-2500mm H ₂ O	2.5"	9851810	52.51
0-200" / 0-5000mm H ₂ O	2.5"	9851828	52.51

Portable 3" Test Gauges

Specifications

Accuracy: $\pm 0.5\%$ span or $\pm 1\%$ span (0-1500 PSI to 0-5000 PSI).

Arc of Calibration: 300° on 1409

Connection: 1/4" NPTM lower mount, brass

Materials: Case/Threaded ring: Chrome-plated high-impact ABS case; Window: Beveled glass; Pointer: Knife-edged, black, adjustable; Dial: Steel, white background, black markings.



Model Selection Guide

Range	Figure Interval	Smallest Interval	Catalog Number	Price Each
P1409 3" Test Gauge: 1/4" NPT Bottom Stem Mount				
0-30 PSI	2 PSI	0.1 PSI	161947	\$238.70
0-60 PSI	5 PSI	0.2 PSI	161948	238.70
0-100 PSI	10 PSI	0.5 PSI	161949	238.70
0-160 PSI	10 PSI	1 PSI	161950	238.70
0-200 PSI	20 PSI	1 PSI	161951	238.70
0-300 PSI	20 PSI	1 PSI	161952	238.70
0-600 PSI	50 PSI	2 PSI	161953	238.70
0-1000 PSI	100 PSI	5 PSI	161954	238.70
0-3000 PSI	500 PSI	20 PSI	161957	238.70

***Need high accuracy test gauges?**
Call for WIKA/Wallace & Tiernan precision test gauges with accuracies to $\pm 0.066\%$.*

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Pressure Gauges

Sanitary Pressure Gauges for Food and Pharmaceutical Use



Specifications

- Accuracy:** Sani-Flow: $\pm 1.5\%$ full scale; Pharma-Flow: $\pm 0.75\%$ full scale
- Overrange Capability:** Sani-Flow only: 25%
- Wetted Surfaces:** Sani-Flow: 316L stainless steel; Pharma-Flow: 316L stainless steel (electropolished)
- Surface Finish (Wetted Parts):** Sani-Flow: $R_{a\max} = 25$ micro-inches; Pharma-Flow: $R_{a\max} = 8$ micro-inches
- Temperature Limits:** 0° to 250° F standard (models available for high temperature applications)
- Re-Zero Feature:** Standard on pointer

Ordering Instructions

Make one selection from each table section below. Follow the availability column down to be sure the unit is available. A finished model number looks like this: 3S-E-2U-GF-BT-SS

Model Selection Guide

Description	Catalog Number	Availability	Price
3-1/2" Sani-Flow Gauge	3S	↓	\$304.00
3-1/2" Pharma-Flow Gauge	3P	↓	344.00
Range*			
0-30 PSI 2 Bar	B	• • •	0.00
0-60 PSI 4 Bar	C	• • •	0.00
0-100 PSI 7 Bar	D	• • •	0.00
0-160 PSI 11 Bar	E	• • •	0.00
0-200 PSI 14 Bar	F	• • •	0.00
0-300 PSI 21 Bar	G	• • •	0.00
30" Hg to 30 PSI 1-2 Bar	M	• • •	0.00
30" Hg to 100 PSI 1-7 Bar	O	• • •	0.00
Adapter Size			
1 1/2" Tri-Clamp Adapter for Sani-Flow	1.5U	• • •	0.00
1 1/2" Tri-Clamp Adapter for Pharma-Flow	1.5U	• • •	0.00
2" Tri-Clamp Adapter for Sani-Flow	2U	• • •	0.00
2" Tri-Clamp Adapter for Pharma-Flow	2U	• • •	0.00
2 1/2" Tri-Clamp Adapter for Sani-Flow	2.5U	• • •	40.00
2 1/2" Tri-Clamp Adapter for Pharma-Flow	2.5U	• • •	72.00
3" Tri-Clamp Adapter for Sani-Flow	3U	• • •	40.00
3" Tri-Clamp Adapter for Pharma-Flow	3U	• • •	72.00
Liquid Fill			
None	NF	• • •	0.00
Glycerine Fill	GF	• • •	0.00
Mount			
Bottom	BT	• • •	0.00
Diaphragm Material			
Stainless Steel	SS	• • •	0.00
Teflon	TF	• • •	0.00

* Standard scales in PSI only. Dual PSI/Bar and other scales also available.

Features

- 316L Stainless Steel Sanitary Fittings and Diaphragm or Electropolished Welded Diaphragm:** Maximum corrosion resistance and the most sanitary construction available
- 304 Stainless Steel Case:** For durability even in the roughest environments
- Lexan® Lens:** Impervious to cracks and breakage
- CIP and Waterproof:** Gauges can be safely submersed or cleaned in place. CIP eliminates the possibility of damage from mishandling
- Unique Pulsation Dampening System:** Insulates the gauge movement from pulsations that shorten the life of an ordinary pressure gauge
- Glycerine Fill:** Available to protect the gear mechanism against vibration

The Sani-Flow pressure gauge is designed specifically for food processing applications, and the Pharma-Flow pressure gauge is designed for pharmaceutical applications. These gauges are built to withstand harsh environments, to meet the strict requirements of food and pharmaceutical plants, and to function for many years with little or no maintenance.

Looking for a 4" dial welded sanitary gauge?

Call for pricing and availability.



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**GAUGE
ACCESSORIES 433**



Gauge Accessories

Mini Needle Valves

- Designed for safe, repetitive closure, simple maintenance, and a long trouble-free life
- Ball end stem provides bubble-tight shutoff. Hardened, non-rotating ball ensures perfect alignment closure
- Carbon steel or 316 stainless steel bodies; Models below have Teflon bonnet packing
- See more on pages 346 and 347



Model Selection Guide

Box of 5

Body Material	Connection Inlet	Connection Outlet	Catalog Number	Price Each
Carbon Steel	1/2" NPTM	1/2" NPTF	HN291S-44MF	\$162.00
Carbon Steel	1/2" NPTF	1/2" NPTF	HN291S-4F	162.00

Coil Syphons

Normally used in high-temperature applications to protect the pressure gauge from damaging process fluids. Syphons are added between the gauge and line to cool steam or other hot vapors before they enter the gauge and cause permanent damage.



Model Selection Guide

Material	Loop Style	Pipe Thread	Maximum Temp.	Maximum Pressure	Catalog Number	Price Each
Schedule 40 Construction (Temperature dissipates at a rate approximately 100° per 100 foot of 1/2" pipe)						
Carbon Steel	180°	1/4"	400°F	250 PSI	21AS	\$8.84
Carbon Steel	180°	1/2"	400°F	250 PSI	51SS	34.72
Carbon Steel	90°	1/2"			52SS	34.72
316 SS	180°	1/4"	400°F	500 PSI	216S	47.84
316 SS	180°	1/2"			516S	100.00
316 SS	360°	1/2"			546S	120.00
Schedule 80 Construction						
Carbon Steel	180°	1/4"	400°F	500 PSI	21AX	11.28
Carbon Steel	180°	1/4"	400°F		21SX*	22.24
Carbon Steel	180°	1/2"	400°F	500 PSI	51AX	33.20

* Seamless construction.

Armored Capillary



For remote mounting a pressure gauge or transmitter for easy reading. Available in 304 and 316 stainless steel, it's compatible with most process environments.

Specify with Order:

- Tubing Material **LL**
- Tubing Length **LL**
- Fitting NPT Thread Size
- Fitting Configuration **C** (male or female thread)

Model Selection Guide

Tubing Material	Fitting Size	Catalog Number	Std. Assembly Price (5 Ft.)	Adder/ +5 Ft.
Armored Capillary. Replace LL with desired length. Replace C with M or F.				
304 SS	1/4" x 1/4"	CA-304- LL - 1/4 C x 1/4 C	\$96.43	\$25.00
304 SS	1/2" x 1/2"	CA-304- LL - 1/2 C x 1/2 C	110.71	25.00
316 SS	1/4" x 1/4"	CA-316- LL - 1/4 C x 1/4 C	103.57	32.15
316 SS	1/2" x 1/2"	CA-316- LL - 1/2 C x 1/2 C	117.86	32.15

Vari-Damp Pulsation Dampener

- Reduces instrument damage
- Controls pulsation and shock
- Broad adjustable dampening range and positive shutoff
- Stops pointer oscillation, chart painting



The Vari-Damp pulsation dampener has a ball check cutoff to block line surges, shock waves, and fluid hammer and an adjustable, fine-thread choke valve to tune out line pulses.

The combination of the ball check and a tunable choke valve makes the Model 150 ideal for use on low-displacement instruments that require heavy dampening (Bourdon tubes); and with high-displacement instruments such as diaphragm-, piston- and bellows-operated gauges, recorders and controllers, which require moderate to heavy dampening.

The choke valve throttles and dampens out pulsations and cyclic pressure waves, and can be adjusted to dampen out to any level desired to prevent pointer oscillation on gauges, chart painting on recorders, instability in controllers, or damage to instruments.

Model Selection Guide

Working Pressure	Materials Body	Materials Trim	Connections NPT (F)	Catalog Number	Price Each
Model 150 Vari-Damp pulsation dampener. Viton O-Ring and Teflon® seals.					
3000 PSI	Brass	316 SS	1/4"	L 150-B0-10	\$32.00
5000 PSI	Brass	316 SS	1/2"	150-BH-10	40.00
	316 SS	316 SS	1/4"	L 150-S0-10	73.50
10000 PSI	316 SS	316 SS	1/2"	150-SH-10	101.00

Gauge Minder Limiting Valve

- Eliminates damage caused by overpressure
- Includes automatic shutoff
- Adjustable damping



The Model 200 Gauge Minder automatically shuts off a pressure instrument when a shock pulse or an overpressure occurs. A needle valve is built in for pulsation dampening and manual shutoff.

The pulsation dampener snubs out instrument oscillations, improves the readability, and extends the life of the instruments. The manual shutoff valve eliminates the need for a gauge cock or block valve at the instruments. Gauge Minder comes with range springs for setting the shutoff pressure point at any pressure from 50 to 5000 PSI. The automatic shutoff valve is non-chattering and positive on closing.

Model Selection Guide

Working Pressure	Materials Body	Materials Trim	Connections NPT (F)	Catalog Number	Price Each
Model 200 Gauge Minder pressure limiting valve with adjustable dampening. Buna-N O-ring and Teflon® Seals. 200-BH-10 has Viton O-ring.					
5,000 PSI	Aluminum	316 SS	1/4"	200-A0-00	\$126.50
	316 SS	316 SS	1/4"	200-S0-00	204.00
10,000 PSI	316 SS	316 SS	1/2"	200-SH-00	230.00
	Brass	316 SS	1/2"	200-BH-10	191.00
These range springs are furnished with each unit.			Spring Color Silver 50 to 120 PSI Black 100 to 1,100 PSI Gold 1,000 to 5,000 PSI		

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Instrument Valves

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Accessories

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Pressure Gauges

Chemical Seals for Pressure Gauges

Where should you install chemical seals?

- Where the process medium would corrode the instrument connection and pressure sensing element. Chemical "attacks" cause costly instrument failures and unscheduled downtime.
- Where the process medium contains suspended solids or is viscous enough to clog the instrument connection and the pressure sensing element. Blocked pressure ports prevent accurate measurement.
- Where the process medium might freeze or solidify in the instrument connection and sensing element due to temperature changes. Solid media can block pressure ports, preventing accurate measurement, or distort the diaphragm of your measuring instrument.
- Where changing process medium requires flushing the system to prevent contamination.
- Where the process application requires sanitary connections. Most measuring instruments cannot meet 3A sanitary standards due to crevices inherent to their design. Or they can't withstand the temperature requirements of steam cleaning. A diaphragm seal provides a sanitary connection and allows easy cleaning between batches.
- Where your measuring instrument has to be remote mounted to protect it from high ambient temperatures, vibration, harsh environments, or accessibility problems. A diaphragm seal ensures reliable and accurate pressure measurements.



Trained factory technicians use special equipment to avoid damaging gauge and seal components during assembly and testing. Call Lesman for assistance in selecting the right combination of gauge, seal, and fill fluid to suit your application.

What do you need to know to pick the **RIGHT** chemical seal?

A. Mounting Type. Your options include threaded (NPT), flange attached, pancake mounting between two flanges, weld attached and sanitary clamp attached. See the next page for samples of the seals we offer.

B. Material Compatibility. The proper selection of wetted parts ensures the application compatibility of your diaphragm seal. Consider all chemicals the seal will be exposed to during service. You'll pick the seal material that will best stand up to corrosion, pitting, stress cracking, embrittlement, and hydrogen permeation.

If you have an extremely caustic media, look at an all-Teflon insert, flange attached seal or a pancake-style ring seal. By using elastomers, you can drastically reduce seal cost and maintenance.

C. Process Working Pressures. This is important for extremely low or high pressures. Between 100 and 1000 PSI, almost any seal will suit. It is best to use elastomer seals for low pressure so the diaphragm will flex enough to transmit the pressure to your instrument. For high pressures, it is best to use a metal diaphragm. In most applications, they will last longer.

D. Attachment to Compatible Instruments. Each seal has a different volumetric displacement or sensitivity. If the displacement of the seal is less than that of the sensing instrument, they will not work. Seal displacement MUST be greater than that of the instrument.

E. Process Temperatures. In order to transmit the process pressure through the seal to the sensing instrument, you must fill the sensor with a fill fluid. All fill fluids have different stable operating temperature ranges. If you exceed the fluids' temperature limits, they can boil and destroy the seal, the instrument, or both.

Specifications of Fill Fluids

Application	Fill Fluid	Suitable Temperature Range	
		Pressures < 15 PSI	Pressures > 15 PSI
General Service	Silicone Oil DC 200/50	-4° to 250° F	-4° to 392° F
	Silicone Oil DC 200/10	-40° to 250° F	-40° to 400° F
Low Temp.	Silicone Oil (4 cSt)	-130° to 176° F	-130° to 356° F
High Temp./ High Vacuum	High-Temperature Oil (All threads welded during assembly)	4° to 392° F	-4° to 750° F (14° to 750° F with transmitters)
Oxygen/ Chlorine Service	Halocarbon 6.3	-40° to 176° F	-40° to 347° F
	Fluorolube FS-5	—	-40° to 392° F
Food and Beverage	Glycerine*	—	60° to 462° F
	Glycerine/Water*	—	14° to 248° F
	Mineral Oil	-4° to 338° F	-4° to 482° F
	Food-Grade Silicone Oil	—	0° to 572° F
	Neobee M20	-10° to 200° F	-10° to 400° F

* (Not suited for vacuum/compound ranges)

Call for pricing and delivery on all seal assemblies and fill fluids.

Welded Metal Seals

- Welded diaphragm and body
- Threaded and flanged process connections
- Materials available for use in both general service and corrosive applications

Specifications

Pressure Ratings: *Threaded:* 15 PSI to 3675 PSI; *Flanged:* 150#, 300#, 600#

Operating Temperature: Up to 752°F, dependent on materials

Gasket: Viton (good to 400°F); Teflon (good to 500°F)

Clamp, Support Ring, Nuts, and Bolts:

Carbon steel, zinc-plated (good to 400°F), 300 series SS (good to 500°F)

Need welded diaphragms for large volumes? Call us!



L990.10

L990.TC

Saddle Flange Welded Diaphragm

Specifications

Operating Temperature: 0° to 482° F

Pressure Rating: 1500 PSI, depending on pipe size; *Suitable pressure ranges:* 15 PSI to 1500 PSI

Construction: *Upper housing and saddle flange:* 316 stainless steel or nickel-plated carbon steel; *Clamping materials (bolts and washers):* 316 stainless steel; *Diaphragm:* 316 stainless steel; *Gasket:* Viton (max. temp. 400°F) or Teflon (max. temp. 500°F)



Flanged-Type Flush Diaphragm

Specifications

Pressure Rating: 150#, 300#, 600#

Suitable Pressure Ranges: 10" H₂O to maximum flange rating, depending on diaphragm size and process conditions

Operating Temperature: -130° to 752°F

Minimum Pressure Span:	Nominal Size	Gauge Pressure	Differential Pressure
	1"	400 PSI	200" H ₂ O
	2"	350 PSI	160" H ₂ O
	3"	50 PSI	10" H ₂ O

L990.27



Miniature Diaphragm Seal

- For 2.5", 4" and 4.5" dial pressure gauges
- Welded 316 stainless steel, Monel, or Hastelloy C-276 construction
- Good from 100 PSI to 2500 PSI



Low Pressure Welded Diaphragms

Specifications

Range: *Threaded:* 10" H₂O to 1500 PSI; *Flanged:* 10" H₂O to max. flange rating

Construction: *Housing/diaphragm:* 316 SS; *Gasket:* Viton (max. temperature 400°F); *Bolts:* 300 series stainless steel (max. temperature 500°F)

Operating Temperature: -40° to 752° F



Pancake Diaphragm

Specifications

Pressure Rating: 150# to 2500#

Operating Temperature: -40° to 752°F

Minimum Span, "H₂O: *Nominal size:* 3"; *Gauge pressure:* 50; *Differential pressure:* 10; *Suitable Ranges:* 10" H₂O to max. flange rating, depending on diaphragm size and process conditions

L990.28



Flanged-Type Extended Diaphragm

Specifications

Suitable Pressure Ranges: 10" H₂O to flange rating (max 1500 PSI), depending on diaphragm size and process conditions

Pressure Rating: 150#, 300#

Operating Temperature: -130° to 752°F

Minimum Pressure Span:	Nominal Size	Gauge Pressure	Differential Pressure
	3"	200 PSI	50" H ₂ O
	4"	50 PSI	10" H ₂ O

L990.29



Inline Chemical Seal

Mounts directly into the process line to reduce damage caused by media that clog or foul Bourdon tubes. Helps eliminate all corners or obstructions to media flow. The 360° polyurethane liner provides repeatable, accurate pressure readings. Other liner materials available.

Specifications

Suitable Ranges: 50 PSI to CI 150# per ASME B16.5

Construction: *Body:* Black-painted carbon steel; *Flange:* Carbon steel; *Bolting Hardware:* Carbon steel; *Diaphragm:* PU/80 shore polyurethane



Sanitary Application Seals

- Welded diaphragm and body
- Fits Tri-Clamp® systems; Call for others
- Special materials or electropolishing available on request



Flushing Ring

Wika's flushing ring is used with a flanged pancake and INLINE SEAL™ chemical seals. It contains two lateral NPT ports that flush out the collected process medium adjacent to the diaphragm. It is excellent for use when there is potential of deposits from the process medium blocking access to the diaphragm.



Differential Pressure Gauges

Model 120 Filter-Minder ±2% Accuracy

- Weatherproof for outdoor mounting without damage to dial or working parts.
- Solid front engineering plastic case, shatter-resistant lens
- Aluminum or 316 stainless steel pressure housing

Specifications

Dial Size: 2.5"

Accuracy: ±2% full scale, ascending per B40.100 Grade B

Pressure: Working: 6,000 PSIG; Proof: 12,000 PSIG

Temperature: -40° to 200°F

Pressure Connections: 1/4" NPTF back connections

Materials: Case and lens: Engineering plastic; Body: Aluminum or 316 stainless steel; Seals: Buna-N O-rings

Leakage Across Piston: Will not exceed 15 SCFM air at 100 PSID, ambient.

Model Selection Guide

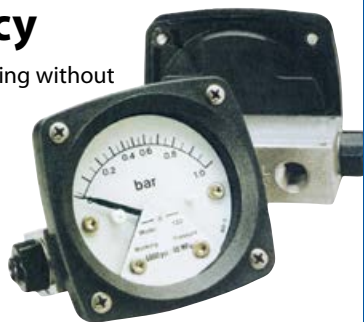
Material	Catalog Number and Range	Price
Aluminum	120-AA-00-00 25 PSID	\$142.00
Aluminum	120-AA-00-00 50 PSID	142.00
Aluminum	120-AA-00-00 75 PSID	142.00
Aluminum	120-AA-00-00 100 PSID	142.00
316 Stainless Steel	120-SA-00-00 25 PSID	271.00
316 Stainless Steel	120-SA-00-00 50 PSID	271.00
316 Stainless Steel	120-SA-00-00 75 PSID	271.00
316 Stainless Steel	120-SA-00-00 100 PSID	271.00

Options

Pipe Mounting Kit — Back Connection Only	35.00
Maximum Indicator Follower Pointer	25.00
Liquid Fill (Dial Chamber Only)	30.00

Call Lesman For . . .

Alarming Reed Switches



All Mid-West DP indicators below are available to our OEM customers in quantities of 100 or more. Please call for pricing.

DP Indicators for OEM Use

Model 126/127: Low cost piston-type differential pressure indicator. For reliably measuring pressure drop across filters, strainers, and separators.



Range: 126: 0-5 PSID through 0-20 PSID; 127: 0-25 PSID through 0-100 PSID

Accuracy: ±5% full scale

Materials: Aluminum body, 316SS internals, Buna-N elastomer, 1/8" NPTF bottom process connection

Model 146: Diaphragm-type differential pressure indicator. Features total separation between high and low sides.



Range: 0-50" H₂O to 0-30 PSID

Accuracy: ±5% full scale

Materials: Aluminum, brass, or 316 SS body; 316SS internals; Buna-N elastomer; 1/8" NPTF bottom process connection

Model 444: The ideal differential pressure indicator when readability, small size, and low price are your main concerns. Features a directional flow arrow and green-to-red sliding indication



Range: 0-5 PSID to 0-25 PSID

Accuracy: ±5% full scale

Materials: Glass-filled Nylon body; GFN and stainless steel internals; Buna-N and Viton elastomers; Direct-mounting slotted hex bolt 3/8"-24 process connection, UNF 1.75" spacing

Model 522: This differential pressure indicator has a rubber rolling diaphragm and metal body. Suitable for use in hose down applications. The rolling diaphragm sensing element isolates the high and low sides of the indicator.



Range: 0-5 PSID to 0-50 PSID

Accuracy: ±5% full scale

Materials: Aluminum or 316/316L SS body; 316SS, ceramic, and acetal moving parts; Buna-N, Viton, or EPDM elastomers; 1/4" NPTF process connection

Model 555: This DP gauge offers dual color-coded dials for easier installation regardless of flow direction. The rolling diaphragm sensing element isolates the high and low side of the indicator, assuring filter efficiency.

Range: 0-5 PSID to 0-50 PSID

Accuracy: ±5% full scale

Materials: Glass-filled Nylon (GFN) body; Stainless steel, ceramic, and GFN internals; Buna-N elastomers; 3/8"-24" molded bolt process connections, 1.75" spacings



Model 122 Filter Minder ± 5% Accuracy

Specifications

Dial Size: 2.5"

Accuracy: ±5% full scale

Pressure: Working: 5000 PSIG; Proof: 10,000 PSIG

Temperature: -40° to 200°F

Pressure Connections: 1/4" NPTF back connections

Materials: Case and Lens: Engineering plastic; Body: Aluminum or 316 stainless steel; Seals: Buna-N O-rings

Leakage Across Piston: Will not exceed 15 SCFM air at 100 PSID, ambient

Model Selection Guide

Material	Catalog Number and Range	Price
Aluminum	122-AA-00-00 25 PSID	\$125.00
Aluminum	122-AA-00-00 50 PSID	125.00
Aluminum	122-AA-00-00 75 PSID	125.00
Aluminum	122-AA-00-00 100 PSID	125.00



Illinois, Indiana, Missouri, and Iowa
Phone: 800-953-7626 • 630-595-8400
Fax: 630-595-2386

Lesman Instrument Company
www.lesman.com
sales@lesman.com

Wisconsin and Upper Peninsula Michigan
Phone: 800-837-1700 • 262-923-1790
Fax: 262-923-1797

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**DIFFERENTIAL
PRESSURE**

437

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Rotary and Smart
Actuator Motors

Instrument Valves

Process Control
Accessories

Pressure and
Temperature Switches

ASCO Solenoid Valves

Pressure Gauges

Model 130 Delta Gauge

**Diaphragm-type DP gauge for
low differential pressures**

- $\pm 2\%$ full scale accuracy, $\pm 5\%$ full scale for 5" to 9.9" H₂O
- 4.5" dial, aluminum body, 316 stainless steel internals, Buna-N seal and diaphragm
- Available ranges from 0–5" H₂O to 0–400" H₂O differential; Static working pressures to 300 PSIG
- Flexible elastomer diaphragm provides total separation of high and low pressure signals
- Hermetically sealed reed switches, max. indicator follower pointer, mounting kits, and alternative body material options



Prices start at \$444.00

Models 105-106

6" Dial, 0-10" to 0-400" WCD Range

- $\pm 1\%$ full scale accuracy ($\pm 0.5\%$ optional)
- Available ranges from 10" WCD to 400" WCD; 1500 PSIG working pressure
- 6" dial, aluminum (105) body with copper alloy sensing element, or 316 stainless steel (106) body and internals, Buna-N seal



Prices start at \$923.00

Model 140 Harsh Service Gauge

- Ideal for use on dissimilar fluids, wet gas, or fluids with high concentration of suspended solids
- $\pm 2\%$ full scale accuracy
- Ranges from 50" H₂O to 100 PSID (140), 20" H₂O to 25 PSID (142); Working pressures to 3000 PSIG.
- Sensor magnetically coupled to pointer and switches
- 2.5" or 4" dial, aluminum or 316 stainless steel body, 316 stainless steel internals, Buna-N diaphragm and seal
- Overrange protection to rated working pressures
- Weatherproof plastic dial chamber with shatter-resistant lens
- Optional hermetically sealed reed switches, mounting kits



Prices start at \$230.00

Model 109

6" Dial, 0-15 to 0-6000 PSID Range

- $\pm 1\%$ full scale accuracy ($\pm 0.5\%$ optional)
- Available ranges from 15 PSID to 6000 PSID
- 6" dial with high-impact plastic housing, aluminum or 316 stainless steel body, brass or 316 stainless steel bourdon tube, Buna-N seals, brass or stainless steel overrange valves
- 10 cc volume Bourdon tube, 140 cc capsule, displacement 0.02 cc full scale



Prices start at \$857.00

Model 220 Hazardous Location Piston-Type DP Gauge

- $\pm 3-2-3\%$ accuracy
- 4.5" dial, aluminum or 316 stainless steel body, 316SS internals, Buna-N diaphragm and seal
- Available ranges from 0-5 PSID to 0-100 PSID; Static working pressures to 4000 PSIG
- CSA, UL, and ATEX approvals



Prices start at \$546.00

Model 240 Hazardous Location Diaphragm Isolated DP Gauge

- $\pm 3-2-3\%$ accuracy
- Available ranges from 20" WCD to 1000 PSID; 1500 PSIG working pressure
- 4.5" dial, aluminum or 316/316L stainless steel body, 316SS internals, ceramic magnets, Buna-N diaphragm and seal
- CSA, UL, and ATEX approvals



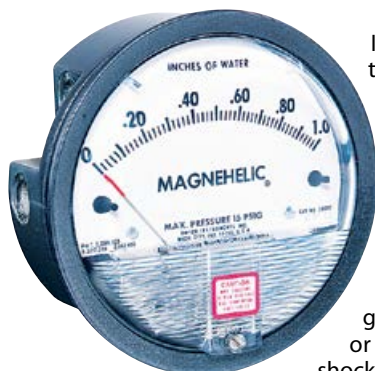
Prices start at \$658.00

Call 800-9LESMA to order. (That's 800-953-7626)

Ultra Low Differential Pressure Gauge



For Sensing Low Air or Gas Positive, Negative, or Differential Pressure



Ideal for both portable and stationary applications — measuring fan, blower, and fluid system pressures, filter resistance, air velocity, furnace draft, pressure drop across orifice plates, liquid levels with bubble.

Using simple, frictionless Magnehelic® movement, it quickly indicates low air or noncorrosive gas pressures — positive, negative, or differential. The design resists shock, vibration, and overpressures. No manometer fluid to evaporate, freeze, or cause toxic or leveling problems.

A single case size is used for most Magnehelic gauges. Can be flush or surface mounted with standard hardware. With an optional pipe-mounting kit, they may be conveniently installed on horizontal or vertical 1-1/4" to 2" pipe. Although calibrated for vertical position, many ranges above 1" can be used at any angle by simply re-zeroing. For maximum accuracy, they must be calibrated in the same position in which they are used. A 4-1/2" hole is required for flush panel mounting. Includes complete mounting and connection fittings and instructions.

Specifications

Ambient Temperature: 20° to 140°F. Low temperature models available.

Rated Total Pressure: -20" Hg. to 15 PSIG. For high cycle rate within total pressure rating, next higher range is recommended.

Connections: 1/8" NPT high and low pressure taps, duplicated — one pair side and one pair on back.

Housing: Diecast aluminum, Iridite-dipped to withstand 168 hour salt spray test. Exterior finish is baked dark gray hammerloid.

Accuracy: ±2% full scale (3% on -0 and 4% on -00 models, vertical scale position only), throughout range at 70°F.

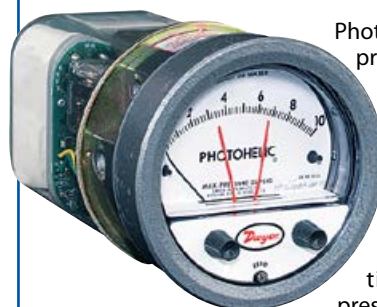
Accessories: Two 1/8" NPT plugs for duplicate pressure taps, two 1/8" pipe thread to rubber tubing adaptors, and three flush mounting adaptors with screws. (Mounting ring and snap ring retainer substituted for 3 adaptors in MP and HP accessories.)

Model Selection Guide

Range ("WC)	Catalog Number	Price Each	Range ("WC)	Catalog Number	Price Each
0-0.25	2000-00*	\$73.00	0.25-0-0.25	2300-0*	\$74.00
0-0.50	2000-0*	63.50	0.5-0-0.5	2301	74.00
0-1.0	2001	63.50	1-0-1	2302	74.00
0-2.0	2002	63.50	2-0-2	2304	74.00
0-5.0	2005	63.50	5-0-5	2310	74.00
0-6.0	2006	63.50			
0-8.0	2008	63.50			
0-10	2010	63.50	10-0-10	2320	74.00
Options	Adjustable Signal Flag		-ASF		10.25
	High Pressures (to 80PSIG)		-HP		122.00
	Low Temperatures (to -20°F)		-LT		10.25

* Accuracies (vertical scale position only): -00 Model: 4%. -0 Model: 3%.

Combination Indicating Differential Pressure Gauge, High/Low Alarm



Photohelic® switch/gauges can control pressures in air conditioning systems, clean rooms, fluidic and pneumatic control systems, materials handling equipment and control pressure in air structures; and monitor respiratory and blood pressures.

Photohelics function like precise pressure switches combined with time-proven Magnehelic®-design pressure gauges.

Gauge reading is unaffected by switch operation. Easy-to-adjust setpoints with knob controls. Applied pressure and switch setpoints are fully visible. Deadband is one pointer width — less than 1% of full scale. DPDT relays can be easily interlocked to provide variable deadband control. Two photo-actuated circuits and two DPDT relays permit both high and low alarms or limit controls.

Photohelic switch/gauges can be wired for high-latching, low-latching, or combination high-low latching circuits. The equipment will hold in these respective positions once activated and until manually reset. Particularly useful for alarm and signal applications where you're controlling with another Photohelic switch/gauge or other means. Complete wiring and operational instructions are included. Relay transformer features a translucent Styrene Acrylonitrile housing to protect electronic components. Solid state and integrated circuit electronics are on glass-epoxy printed circuit boards and self-extinguishing terminal boards.

Specifications

Ambient Temperature: 20° to 120°F. Low temperature models available.

Rated Pressure: 20" Hg to 25PSIG total on either side of diaphragm.

Accuracy: ±2% full scale at 70°F. (3% on -0 and 4% on -00 models).

Gauge Connections: 1/8" NPTF.

Electrical Rating (of Relays): 10A @ 28 VDC, 10A @ 120, 240 VAC.

Power Required: 120 VAC, 50/60 Hz; 240 VAC and 24 VAC power optional

Setpoint Adjustment: Adjustable knobs on front face.

Finish: Case exterior is baked, dark gray hammerloid.

Model Selection Guide

Range ("WC)	Catalog Number	Price Each	Range ("WC)	Catalog Number	Price Each
0-0.25	A3000-00*	\$348.00	0-8.0	A3008	\$330.00
0-0.50	A3000-0*	330.00	0-10	A3010	330.00
0-1.0	A3001	330.00	0-20	A3020	330.00
0-2.0	A3002	330.00	0-25	A3025	330.00
0-5.0	A3005	330.00	0-50	A3050	330.00
0-6.0	A3006	330.00	0-80	A3080	330.00
Options	Remote Mounted Relay		-RMR		60.00
	Low Temperatures (to -20°F)		-LT		10.25

* Accuracies (vertical scale position only): -00 Model: 4%. -0 Model: 3%.

Call Lesman for other pressure measurement ranges and engineering units.