



Process Gauges

SOLFRUNT® 659 Stainless Steel Pressure Gauges

New!**DESCRIPTION**

When safety is your top priority, AMETEK U.S. Gauge offers the new Model 659 Series SOLFRUNT Gauges. The Model 659 provides users with a solid-front and pressure-relieving back design in all stainless steel construction. These gauges are available in both 63 and 100 mm sizes, in panel mount and low mount configurations. The liquid fill minimizes the effect of these severe environments, protects the gauge internals, and provides continuous lubrication on the mechanism, all adding up to extended service life. Liquid filling also provides greater protection of the gauge internals from corrosive atmospheres.

The Model 659 SOLFRUNT is ideal for applications in chemical and petrochemical processing, offshore equipment, exploration, petroleum storage, and many other demanding applications.

The 659 is available dry or liquid-filled with glycerin, mineral oil, or silicone DC-200. Consult your local distributor or U.S. Gauge for availability.

**SPECIFICATIONS****ACCURACY**

Model 6592 (63 mm): $\pm 1.6\%$ of full scale (Grade B)
 Model 6596 (100 mm): $\pm 1.0\%$ of full scale (Grade 1A)

PRESSURE RANGE

63 mm: 30 inch Hg to 0 psi through 0 to 10,000 psi
 100 mm: 30 inch Hg to 0 psi through 0 to 23,000 psi

Please refer to Pressure Ranges Table on page A23 for specific information

WORKING PRESSURE

Steady: 50% of full scale
 Over Range Protection: 125% of 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)

FILLING LIQUID: Glycerin, silicone, mineral oil

PRESSURE CONNECTION: 316L stainless steel

BOURDON TUBE: 316L stainless steel

Model 6592 (63 mm): Less than or equal to 800 psi: C type
 Bourdon tube greater than or equal to 1000 psi: Helical type
 Bourdon tube
 Model 6596 (100 mm): Less than or equal to 1000 psi: C type
 Bourdon tube greater than or equal to 1500 psi: Helical type
 Bourdon tube

CASE PRESSURE RELIEF: Safety back

CASE AND BEZEL RING: 304 stainless steel; bayonet type

MOVEMENT: 304 stainless steel

WINDOW

63 mm: Polycarbonate (laminated shatter-resistant glass window optional)
 100 mm: Laminated shatter-resistant glass window

DIAL: White aluminum with black lettering

POINTER: Aluminum alloy, black painted

PROCESS CONNECTION: See ordering information page A26

SOLFRUNT 659 Series Liquid Fillable Pressure Gauges

WARNING:

Fill fluids can combine with strong oxidizing agents, including (but not limited to) chlorine, nitric acid, and hydrogen peroxide and result in an explosion which can cause property damage and personal injury. If gauges are to be used in such service, consult factory for other alternatives.

In order to correctly use these gauges, it is recommended that users of pressure gauges become familiar with American National Standard ASME B40.100-1998 entitled "Pressure Gauges and Gauge Attachments." This specification is available from the American Society of Mechanical Engineers, United Engineering Center, 345 East 47th Street, New York, NY 10017

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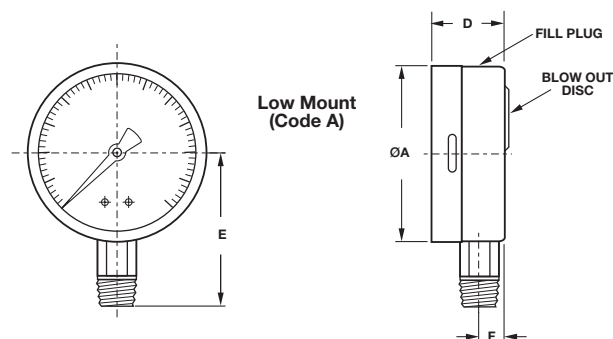
SOLFRUNT® 659 Stainless Steel Pressure Gauges

PRESSURE RANGES

RANGE CODE** See Page A24	psi
01	30 in. Hg-0
30	30 in. Hg-0-15
31	30 in. Hg-0-30
32	30 in. Hg-0-60
33	30 in. Hg-0-100
34	30 in. Hg-0-150
35	30 in. Hg-0-200
07	0-15
37	0-30
10	0-60
38	0-100
39	0-160
40	0-200
41	0-300
42	0-400
15	0-600
44	0-1000
17	0-1500
45	0-2000
46	0-3000
48	0-5000
50	0-10,000
22	0-15,000
23*	0-23,000

* Not available in 63 mm

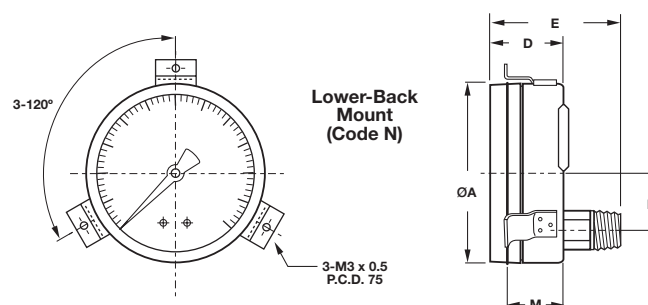
** Metric and dual scale dials are available. Please call Customer Service at (863) 534-1504 for more information.



INCHES
(MM)

63 and 100 mm Pressure Gauges

DIAL SIZE	MOUNTING CODE	UNIT	A	D	E	F	M
63 mm	A	inches	1.54	1.54	2.20	.68	-
	A	mm	63.7	39.0	55.8	17.2	-
	N	inches	1.54	1.54	2.56	.66	1.39
	N	mm	63.7	39.0	65.0	16.7	34.0
100 mm	A	inches	3.99	2.32	3.27	1.0	-
	A	mm	101.3	59.0	83.0	25.5	-
	N	inches	3.99	2.32	3.68	1.14	1.89
	N	mm	101.3	59.0	93.5	29.0	48.0



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SOLFRUNT[®] 659 Stainless Steel Pressure Gauges

SPEC NUMBER SELECTION CHART

Model 659 (63 mm)	STEM MOUNTING 1/4-18 NPT		FRONT FLANGE PANEL MOUNTING 1/4-18 NPT	
Model Number	6592 Low Mount		6592 Lower-Back Mount	
Bourdon Tube	316L Stainless Steel		316L Stainless Steel	
Connection	316L Stainless Steel		316L Stainless Steel	
Range*	Spec No.	Part No.	Spec No.	Part No.
0-30" Hg VAC	259000	-	259025	-
30"- 0-15 psi	259001	-	259026	-
30"- 0-30 psi	259002	-	259027	-
30"- 0-60 psi	259003	-	259028	-
30"- 0-100 psi	259004	-	259029	-
30"- 0-150 psi	259005	-	259030	-
30"- 0-200 psi	259006	-	259031	-
0-15 psi	259007	-	259032	-
0-30 psi	259008	-	259033	-
0-60 psi	259009	-	259034	-
0-100 psi	259010	-	259035	-
0-160 psi	259011	-	259036	-
0-200 psi	259012	-	259037	-
0-300 psi	259013	-	259038	-
0-400 psi	259014	-	259039	-
0-600 psi	259015	-	259040	-
0-1000 psi	259016	-	259041	-
0-1500 psi	259017	-	259042	-
0-2000 psi	259018	-	259043	-
0-3000 psi	259019	-	259044	-
0-4000 psi	259020	-	259045	-
0-5000 psi	259021	-	259046	-
0-6000 psi	259022	-	259047	-
0-10,000 psi	259023	-	259048	-
0-15,000 psi	259024	-	259049	-

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SPEC NUMBER SELECTION CHART

Model 659 (100 mm)	STEM MOUNTING				FRONT FLANGE PANEL MOUNTING	
Model Number	6596 Low Mount, 1/4-18 NPT		6596 Low Mount, 1/2-14 NPT		6596 Lower-Back Mount, 1/4-18 NPT	
Bourdon Tube	316L Stainless Steel		316L Stainless Steel		316L Stainless Steel	
Connection	316L Stainless Steel		316L Stainless Steel		316L Stainless Steel	
Range*	Spec No.	Part No.	Spec No.	Part No.	Spec No.	Part No.
0 - 30" Hg VAC	359000	-	359029	-	359058	-
30" - 0 - 15 psi	359001	-	359030	-	359059	-
30" - 0 - 30 psi	359002	-	359031	-	359060	-
30" - 0 - 60 psi	359003	-	359032	-	359061	-
30" - 0 - 100 psi	359004	-	359033	-	359062	-
30" - 0 - 150 psi	359005	-	359034	-	359063	-
0 - 15 psi	359008	-	359037	-	359066	-
0 - 30 psi	359009	-	359038	-	359067	-
0 - 60 psi	359010	-	359039	-	359068	-
0 - 100 psi	359011	-	359040	-	359069	-
0 - 160 psi	359012	-	359041	-	359070	-
0 - 200 psi	359013	-	359042	-	359071	-
0 - 300 psi	359014	-	359043	-	359072	-
0 - 400 psi	359015	-	359044	-	359073	-
0 - 600 psi	359016	-	359045	-	359074	-
0 - 1000 psi	359018	-	359047	-	359076	-
0 - 1500 psi	359019	-	359048	-	359077	-
0 - 2000 psi	359020	-	359049	-	359078	-
0 - 3000 psi	359021	-	359050	-	359079	-
0 - 5000 psi	359023	-	359052	-	359081	-
0 - 10,000 psi	359025	-	359054	-	359083	-
0 - 15,000 psi	359027	-	359056	-	359085	-
0 - 23,000 psi	359028	-	359057	-	359086	-

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ORDERING INFORMATION

Model 659

NOMINAL DIAMETER _____	-6
2 = 63 mm	
6 = 100 mm	
RANGE (Refer to Pressure Range Table on page A21) _____	-44
UNITS OF MEASURE _____	-A
A = psi	
B = psi/bar	
C = psi/kPa	
D = bar	
E = kPa	
F = kg/cm ²	
G = psi/kgcm ²	
H = MPa	
MOUNTING TYPE (Refer to Mounting Type and Dimension) _____	-A
A = Low mount	
N = Lower-back mount, front flange	
ACCURACY _____	-3
3 = 1.0 (100 mm)	
4 = 1.6 (63 mm)	
CONNECTION _____	-E
C = 1/4 inch (63 mm)	
E = 1/2 inch (100 mm)	
CONNECTION TYPE _____	-D
D = NPT	
(Contact factory for other connections)	
PRESSURE CONNECTION MATERIAL AND BOURDON TUBE _____	-3
3 = 316L stainless steel	
FILL FLUID _____	-A
A = No fill	
G = Glycerine	
M = Mineral oil	
S = Silicone DC-200	
OPTIONS* _____	-00
00 = No options	
CL = Oxygen cleaned	
SR = Shatter resistant glass window (63 mm only)	

* For additional options and codes, please contact your nearest AMETEK USG Stocking Distributor or our Customer Service Department at (215) 355-6900 or (863) 534-1504

Example Shown Above:

659-6-44-A-A-3-E-D-3-A-00

Model 659, 100 mm diameter, 0-1000 psi scale, low mount, 1.0% accuracy, 1/2 inch connection, NPT type connection, 316L stainless steel, with no fill, no options

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