

Liquid Filled Gauges

Series 1550 (4") Liquid Filled Gauges

DESCRIPTION

Series 1550 liquid filled gauges combine low cost and high accuracy with a rugged stainless steel case and brass internals for corrosive and high vibration environments. Typical applications include: pumps, compressors, HVAC, petrochemical processing, and power generation.

Series 1550 gauges are available in stem (Model 1555) or panel mount (Model 1558) configurations with brass socket; phosphor bronze Bourdon tubes are supplied to meet specific customer requirements.

Series 1550 gauges come in 18 vacuum, compound, and gauge pressure ranges (see specifications). Glycerin is standard fill fluid, with silicone or mineral oil available on request. Dry (unfilled) gauges can also be supplied, off-the-shelf, by your local stocking U.S. Gauge distributor.



SPECIFICATIONS

DIAL SIZE: 4"

CASE AND RING:

For Stem Mounting:

300 Series stainless steel, solid back case with stainless steel crimped ring. BUNA-N® multi-function plug with removable nipple for venting, pressure relief, and liquid fill access

For Panel Mount Units:

Incorporate 3-hole stainless steel front mounting flange (Model 1558)

WINDOW: Polycarbonate, sealed to case with a polychloroprene gasket

DIAL: White aluminum with black markings

POINTER: Black aluminum

MOVEMENT: Brass

BOURDON TUBE: Phosphor bronze

SOCKET CONNECTION: Brass

RESTRICTOR: Brass, push type .015"

RANGES: Vacuum 30"-0 Hg VAC (counterclockwise rotation with increasing vacuum)

Compound: 30" Hg VAC 0, 15, 30, 60, 100 psi

Gauge: 0-15, 30, 60, 100, 160, 200, 300, 600, 1000, 1500, 2000, 3000, 6000 psi

ACCURACY: $\pm 1.6\%$ FS

LIQUID FILL: Glycerin is standard but silicone and mineral oil are available. Dry (unfilled) gauges are available as off-the-shelf stock through local distributors

MODEL SELECTION CHART

MODEL NUMBER	MOUNTING	CONNECTION	SOCKET	BOURDON TUBE	CASE	RING
1555	Stem	1/4" NPT LM	Brass	Phosphor Bronze	Stainless Steel	SST Crimped
1558	Front Flanged Panel	1/4" NPT CBM	Brass	Phosphor Bronze	Stainless Steel	SST Crimped

© 2006, by AMETEK, Inc. All rights reserved. PDF606 (160126) Specifications are subject to change without notice. Visit our Web sites for the most up-to-date information.

AMETEK®

ISO 9001:2000
CERTIFIED

For Gauges/Thermometers:

U.S. GAUGE
820 Pennsylvania Blvd.
Feasterville, PA 19053 U.S.A.
Tel: (215) 355-6900
Fax: (215) 354-1802
www.ametekusg.com
Customer Service Tel: (863) 534-1504
Customer Service Fax: (863) 533-7465

For Electronic Products:

PMT PRODUCTS
820 Pennsylvania Blvd.
Feasterville, PA 19053 U.S.A.
Tel: (215) 355-6900
Fax: (215) 354-1800
www.ametekusg.com

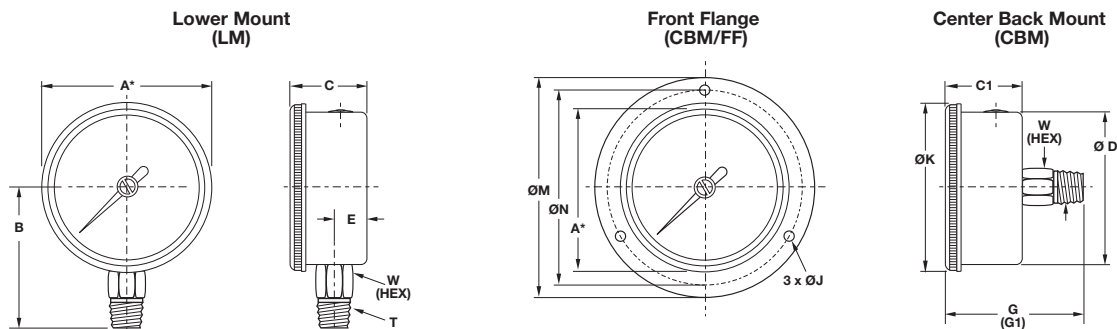
For Diaphragm Seals:

M&G PRODUCTS
8600 Somerset Drive
Largo, FL 33773 U.S.A.
Tel: (727) 536-7831
Fax: (727) 539-6882
www.ametek.com/tci



Liquid Filled Gauges

Series 1550 (4") Liquid Filled Gauges

INCHES
(MM)

DIAL SIZE		I	H	A*	B	C	C1	D	E	G	G1	K	J	N	M	T	W
4"	inches	3.35	0.85	3.54	2.89	1.26	1.33	3.89	0.41	2.35	(2.67)	4.12	0.24	4.65	5.1	1/4	.55
	mm	85.0	21.5	89.8	73.5	32.0	33.7	98.7	10.4	59.7	(67.7)	104.7	6.0	118.0	129.6	-	14

SPEC NUMBER SELECTION CHART

Series 1550 (4")	STEM MOUNTING 1/4-18 ANPT LM CONNECTION	FRONT FLANGE PANEL MOUNTING 1/4-18 ANPT LBM CONNECTION
Bourdon Tube	Phosphor Bronze	Phosphor Bronze
Connection	Brass	Brass
Model Number	1555L	1558FF
Range	Spec No.	Spec No.
0-30" Hg VAC	171967A	171985A
30"-0-15 psi	171968A	171986A
30"-0-30 psi	171969A	171987A
30"-0-60 psi	171970A	171988A
30"-0-100 psi	171971A	171989A
0-15 psi	171972A	171990A
0-30 psi	171973A	171991A
0-60 psi	171974A	171992A
0-100 psi	171975A	171993A
0-160 psi	171976A	171994A
0-200 psi	171977A	171995A
0-300 psi	171978A	171996A
0-600 psi	171979A	171997A
0-1000 psi	171980A	171998A
0-1500 psi	171981A	171999A
0-2000 psi	171982A	172000A
0-3000 psi	171983A	172001A
0-6000 psi	171984A	172002A

All gauges are stocked dry at our worldwide distribution center in Bartow, Florida

For factory liquid filling please add the following letters after the spec number when ordering:

LG - for liquid-filled with glycerin

LS - for liquid-filled with silicone

LM - for liquid-filled with mineral oil

© 2006, by AMETEK, Inc. All rights reserved. PDF606 (160126) Specifications are subject to change without notice. Visit our Web sites for the most up-to-date information.

AMETEK®

ISO 9001:2000
CERTIFIED

For Gauges/Thermometers:

U.S. GAUGE
820 Pennsylvania Blvd.
Feasterville, PA 19053 U.S.A.
Tel: (215) 355-6900
Fax: (215) 354-1802
www.ametekusg.com
Customer Service Tel: (863) 534-1504
Customer Service Fax: (863) 533-7465

For Electronic Products:

PMT PRODUCTS
820 Pennsylvania Blvd.
Feasterville, PA 19053 U.S.A.
Tel: (215) 355-6900
Fax: (215) 354-1800
www.ametekusg.com

For Diaphragm Seals:

M&G PRODUCTS
8600 Somerset Drive
Largo, FL 33773 U.S.A.
Tel: (727) 536-7831
Fax: (727) 539-6882
www.ametek.com/tci



Liquid Filled Gauges

Series P-1550 Low Cost Liquid Filled Utility Gauges

DESCRIPTION

U.S. Gauge P-1550 liquid filled utility gauges are designed for a wide range of rugged service applications on pumps, compressors, hydraulic systems, machine tools, and petrochemical processing equipment. Liquid fill fluid dampens the gauge pointer movement and improves readability, making these instruments ideal for high shock and vibration applications.

Series P-1550 liquid filled gauges are available in psi and bar, kPa, and kg/cm² metric ranges. Rated accuracy is $\pm 3-2-3\%$ of span (Grade B).

Gauges feature a corrosion resistant 300 series stainless steel case and ring, and durable polycarbonate window. Phosphor bronze Bourdon tube, brass movement, and socket connections are standard. Series P-1550 gauges come in 1-1/2" designs with 1/8-27 NPT center back male (CBM) connections (P-1559); 2" and 2-1/2" designs with 1/4-18 NPT low male (LM) (P-1555) and center back male (CBM) (P-1559) connections.

SPECIFICATIONS

CASE: 300 series stainless steel

RING: 300 series stainless steel

WINDOW: Polycarbonate

POINTER: Aluminum, black finish

SEALS: BUNA-N®

DIAL: Aluminum, white background with blue and black markings

SCALE: Dual scale psi/bar (100 x kPa)

MOVEMENT: Brass

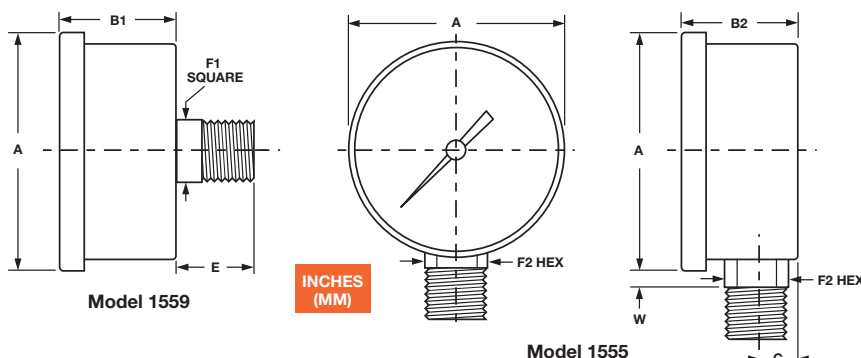
BOURDON TUBE: Phosphor bronze

CONNECTION:

1-1/2": 1/8-27 CBM, NPT

2" and 2-1/2": 1/4-18 NPT LM and CBM

ACCURACY: $\pm 3-2-3\%$ of span (Grade B)



DIAL SIZE		A	B1	B2	C	E	F1	F2	W
1-1/2"	inches	1.72	1.02	-	-	.75	.55	-	-
	mm	43.7	25.9	-	-	19.1	14.0	-	-
2"	inches	2.25	1.09	1.10	.39	.74	.55	.55	.35
	mm	57.2	27.7	27.9	9.9	18.8	14.0	14.0	8.9
2-1/2"	inches	2.67	1.34	1.30	.41	1.12	.55	.55	.35
	mm	67.8	34.0	33.0	10.4	28.5	14.0	14.0	8.9

© 2006, by AMETEK, Inc. All rights reserved. PDF606 (160126) Specifications are subject to change without notice. Visit our Web sites for the most up-to-date information.

AMETEK®

ISO 9001:2000
CERTIFIED

For Gauges/Thermometers:

U.S. GAUGE
820 Pennsylvania Blvd.
Feasterville, PA 19053 U.S.A.
Tel: (215) 355-6900
Fax: (215) 354-1802
www.ametekusg.com
Customer Service Tel: (863) 534-1504
Customer Service Fax: (863) 533-7465

For Electronic Products:

PMT PRODUCTS
820 Pennsylvania Blvd.
Feasterville, PA 19053 U.S.A.
Tel: (215) 355-6900
Fax: (215) 354-1800
www.ametekusg.com

For Diaphragm Seals:

M&G PRODUCTS
8600 Somerset Drive
Largo, FL 33773 U.S.A.
Tel: (727) 536-7831
Fax: (727) 539-6882
www.ametek.com/tci



Liquid Filled Gauges

Series P-1550 Low Cost Liquid Filled Utility Gauges

SPEC NUMBER SELECTION CHART

Series P-1550†	1-1/2" STEM MOUNTING 1/8-27 NPT CBM CONNECTION	2" STEM MOUNTING		2-1/2" STEM MOUNTING	
		1/4-18 NPT LM CONNECTION	1/4-18 NPT CBM CONNECTION	1/4-18 NPT LM CONNECTION	1/4-18 NPT CBM CONNECTION
Bourdon Tube	Phosphor Bronze	Phosphor Bronze	Phosphor Bronze	Phosphor Bronze	Phosphor Bronze
Connection	Brass	Brass	Brass	Brass	Brass
Model Number	1559	1555	1559	1555	1559
Range*	Spec No.	Spec No.	Spec No.	Spec No.	Spec No.
0-30" Hg VAC	—	—	—	171722A	171733A
30"-0-15 psi	—	—	—	171723A	171734A
30"-0-30 psi	—	—	—	171724A	171735A
30"-0-60 psi	—	—	—	171725A	171736A
30"-0-100 psi	—	—	—	171726A	171737A
30"-0-150 psi	—	—	—	171727A	171738A
0-15 psi	—	—	—	171728A	171739A
0-30 psi	166664	165282	165289	165296	165303
0-60 psi	166665	165283	165290	165297	165304
0-100 psi	166666	165284	165291	165298	165305
0-160 psi	166667	165285	265292	165299	165306
0-200 psi	—	—	—	171729A	171740A
0-300 psi	166668	165286	165293	165300	165307
0-400 psi	—	—	—	171730A	171741A
0-600 psi	—	165287	165294	165301	165308
0-1000 psi	166669	165288	165295	165302	165309
0-1500 psi	—	—	—	171731A	171742A
0-2000 psi	—	—	—	165377	165380
0-3000 psi	—	—	—	165378	165381
0-5000 psi	—	—	—	171732A	171743A

† Stainless steel case and crimped ring

* All dials have 3 scale dial face (psi/bar/x100=kPA); other scales and ranges are available, please contact Customer Service at (863) 534-1504

OPTIONS AVAILABLE ON SPECIAL REQUEST (Consult factory for pricing)

1. Center back mount with U-clamp (fixed on case)
2. Stainless steel front flange ring (sold separately)
3. Chrome plated steel clamping ring (sold separately)
4. High pressure ranges to 4000 psi

© 2006, by AMETEK, Inc. All rights reserved. PDF606 (160126) Specifications are subject to change without notice. Visit our Web sites for the most up-to-date information.



For Gauges/Thermometers:

U.S. GAUGE
820 Pennsylvania Blvd.
Feasterville, PA 19053 U.S.A.
Tel: (215) 355-6900
Fax: (215) 354-1802
www.ametekusg.com
Customer Service Tel: (863) 534-1504
Customer Service Fax: (863) 533-7465

For Electronic Products:

PMT PRODUCTS
820 Pennsylvania Blvd.
Feasterville, PA 19053 U.S.A.
Tel: (215) 355-6900
Fax: (215) 354-1800
www.ametekusg.com

For Diaphragm Seals:

M&G PRODUCTS
8600 Somerset Drive
Largo, FL 33773 U.S.A.
Tel: (727) 536-7831
Fax: (727) 539-6882
www.ametek.com/tci