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*DURO UNITED  
INSTRUMENTS*

# GENERAL SERVICE GAUGES

## SERIES #10

This series is designed for use with air, gas and water or any medium not corrosive to brass or bronze.

### STANDARD FEATURES:

**MOVEMENT\*:** Sturdy corrosive resistant bronze bushed rotary type movement with bronze links and stainless steel link screws.

**POINTER\*:** Lightweight balanced construction with adjustment feature.

**DIAL:** Heavy gauge aluminum.

**WINDOW\*:** Glass.

**CONNECTION:** Brass machined connection with wrench flats, 1/4" NPT male. Connection at bottom or back of case.

**ACCURACY:** ASME/ANSI B40.1 Grade 1A (1%)

\* Additional options available as noted on next page.



4½", 6" and 8½" SIZES

### BOURDON TUBE:

ORDER CODE	BOURDON TUBE:	RANGES TO:
1	Phosphor bronze. Large bore tubing used to insure longer life of gauge. Silver soldered to socket and tip. Stress relieved. Vacuum tube is soft soldered to socket and tip.	1,000 psi

### STANDARD RANGES:

STANDARD DIAL RANGE	MAJOR	MINOR	ORDER CODE	AVAILABLE SIZES:			STANDARD DIAL RANGE	MAJOR	MINOR	ORDER CODE	AVAILABLE SIZES:		
				4½"	6"	8½" **					4½"	6"	8½" **
0-30" VAC.	5"	.20"	01	✓	✓	✓	0-15 psi	1 psi	.10 psi	02	✓	✓	✓
30"-0-15 psi	5" & 3 psi	1" & .50 psi	21	✓	✓	✓	0-30 psi	5 psi	.20 psi	03	✓	✓	✓
30"-0-30 psi	10" & 5 psi	1" & .50 psi	22	✓	✓	✓	0-60 psi	5 psi	.50 psi	04	✓	✓	✓
30"-0-60 psi	10" & 10 psi	1" & 1 psi	23	✓	✓	✓	0-100 psi	10 psi	1 psi	05	✓	✓	✓
30"-0-100 psi	30" & 10 psi	2" & 1 psi	24	✓	✓	✓	0-160 psi	20 psi	1 psi	06	✓	✓	✓
30"-0-150 psi	30" & 30 psi	5" & 2 psi	25	✓	✓	✓	0-200 psi	20 psi	2 psi	07	✓	✓	✓
30"-0-200 psi	30" & 20 psi	5" & 2 psi	26	✓	✓	✓	0-300 psi	50 psi	2 psi	08	✓	✓	✓
30"-0-300 psi	30" & 50 psi	5" & 2 psi	27	✓	✓	✓	0-400 psi	50 psi	5 psi	09	✓	✓	✓
30"-0-400 psi	30" & 50 psi	10" & 5 psi	28	✓	✓		0-500 psi	50 psi	5 psi	10	✓	✓	✓
30"-0-600 psi	30" & 50 psi	10" & 5 psi	74	✓	✓		0-600 psi	50 psi	5 psi	11	✓	✓	✓
							0-800 psi	100 psi	10 psi	12	✓	✓	✓
							0-1000 psi	100 psi	10 psi	13	✓	✓	✓

\* Above PSI Ranges are available with dual scale metric KPA or BAR scales (see page 11). Note\* 8-1/2" gauges are PSI only.

\*\* Increments may vary on 8-1/2" dials.

**AVAILABLE CASE STYLES. See Page 10 for CASE DIMENSIONS:**

**STYLE #1**

4½" Only

Aluminum Back Flange Case  
Stainless Steel Slip Fit Ring  
(Bottom or Back Connection)



**STYLE #2**

6" and 8½" Only

Aluminum Back Flange Case, Threaded Ring  
(Bottom or Back Connection)



**STYLE #5**

4½" Only

Molded Turret Case,  
Snap Ring Panel Mount Case, Hinged  
(Bottom or Back Connection)



**STYLE #6**

4½" and 6" Only

Aluminum Front Flange,  
Panel Mount Case, Hinged  
Ring, (Back Connection Only)



**STYLE #7**

4½" Only

Stainless Steel Case  
Bayonet Ring  
(Add BF for Back Flange)  
(Bottom Connection Only)



**TO ORDER:**

**Additional options** – To order please specify option.

Plastic Lens  
Safety Glass Lens  
Threaded Restrictor

NIST Certificate of Accuracy  
Case Blow Out Plug  
Red Max Indicating Hand

Ordering Number - Construct by selecting one item from each of the columns below:											
1	Dial Size:	2	Series Number:	3	Case Style:	4	Range Code:	5	Connection Size and Style:	6	Bourdon Tube and Socket Code:
	4½" = 4 6" = 6 8½" = 8  Example: 41016211		= 10		= 1 = 2 = 5 = 6 = 7 = 7BF		See standard range chart for code.		1 = 1/4" NPT Bottom 2 = 1/4" NPT Back		1 = Bronze
	4		10		1		62		1		1

# INDUSTRIAL PROCESS GAUGES

## SERIES #20

(For SOLID FRONT SAFETY PROCESS GAUGES, see Pages 6-7)

This series is designed for the rugged applications of demanding industries such as chemical, petroleum, and other services where accurate and dependable gauges are required.

### STANDARD FEATURES:

**MOVEMENT:** Stainless steel rotary geared movement with dissimilar stainless steel bushings and stainless steel link and screws.

**POINTER:** Lightweight balanced construction with Micrometer adjustment feature.

**DIAL:** Heavy gauge aluminum.

**WINDOW\*:** Glass.

**CONNECTION:** 1/4" or 1/2" NPT male connection at bottom or back of case.

**ACCURACY:** ASME/ANSI B40.1 Grade 2A (1/2%).

\* Additional options available as noted on next page.



4½", 6" and 8½" SIZES

### BOURDON TUBE:

ORDER CODE	BOURDON TUBE:	RANGES TO:
1	Phosphor bronze tubing silver brazed to brass machined socket.	1,000 psi
3	Type 316 stainless steel tubing welded to type 316 stainless steel machined socket.	10,000 psi

### STANDARD RANGES:

STANDARD DIAL RANGE	MAJOR	MINOR	ORDER CODE	AVAILABLE SIZES:			STANDARD DIAL RANGE	MAJOR	MINOR	ORDER CODE	AVAILABLE SIZES:		
				4½"	6"	8½"***					4½"	6"	8½"***
0-30" VAC.	5"	.20"	01	✓	✓	✓	0-200 psi	20 psi	2 psi	07	✓	✓	✓
30"-0-15 psi	5" & 3 psi	1" & .50 psi	21	✓	✓	✓	0-300 psi	50 psi	2 psi	08	✓	✓	✓
30"-0-30 psi	10" & 5 psi	1" & .50 psi	22	✓	✓	✓	0-400 psi	50 psi	5 psi	09	✓	✓	✓
30"-0-60 psi	10" & 10 psi	1" & 1 psi	23	✓	✓	✓	0-500 psi	50 psi	5 psi	10	✓	✓	✓
30"-0-100 psi	30" & 10 psi	2" & 1 psi	24	✓	✓	✓	0-600 psi	50 psi	5 psi	11	✓	✓	✓
30"-0-150 psi	30" & 30 psi	5" & 2 psi	25	✓	✓	✓	0-800 psi	100 psi	10 psi	12	✓	✓	✓
30"-0-200 psi	30" & 20 psi	5" & 2 psi	26	✓	✓	✓	0-1000 psi	100 psi	10 psi	13	✓	✓	✓
30"-0-300 psi	30" & 50 psi	5" & 2 psi	27	✓	✓	✓	0-1500 psi	200 psi	10 psi	14	✓	✓	✓
30"-0-400 psi	30" & 50 psi	10" & 5 psi	28	✓	✓		0-2000 psi	200 psi	20 psi	15	✓	✓	✓
30"-0-600 psi	30" & 50 psi	10" & 5 psi	74	✓	✓		0-3000 psi	500 psi	20 psi	16	✓	✓	✓
0-15 psi	1 psi	.10 psi	02	✓	✓	✓	0-5000 psi	500 psi	50 psi	17	✓	✓	✓
0-30 psi	5 psi	.20 psi	03	✓	✓	✓	0-10000 psi	1000 psi	100 psi	18	✓	✓	✓
0-60 psi	5 psi	.50 psi	04	✓	✓	✓							
0-100 psi	10 psi	1 psi	05	✓	✓	✓							
0-160 psi	20 psi	1 psi	06	✓	✓	✓							

\* Above PSI Ranges are available with dual scale metric KPA or BAR scales (see page 11). Note\* 8-1/2" gauges are PSI only.

\*\* Increments may vary on 8-1/2" dials.

**AVAILABLE CASE STYLES. See Page 10 for CASE DIMENSIONS:**

**STYLE #1**

4½" Only

Aluminum Back Flange Case  
Stainless Steel Slip Fit Ring  
(Bottom or Back Connection)



**STYLE #2**

6" and 8½" Only

Aluminum Back Flange Case, Threaded Ring  
(Bottom or Back Connection)



**STYLE #5**

4½" Only

Molded Turret Case,  
Snap Ring Panel Mount Case, Hinged  
(Bottom or Back Connection)



**STYLE #6**

4½" and 6" Only

Aluminum Front Flange,  
Panel Mount Case, Hinged  
Ring, (Back Connection Only)



**STYLE #7**

4½" Only

Stainless Steel Case  
Bayonet Ring  
(Add BF for Back Flange)  
(Bottom Connection Only)



**TO ORDER:**

**Additional options** – To order please specify option.

Plastic Lens  
Safety Glass Lens  
Threaded Restrictor

NIST Certificate of Accuracy  
Case Blow Out Plug  
Red Max Indicating Hand

Ordering Number - Construct by selecting one item from each of the columns below:											
1	Dial Size:	2	Series Number:	3	Case Style:	4	Range Code:	5	Connection Size and Style:	6	Bourdon Tube and Socket Code:
	4½" = 4 6" = 6 8½" = 8  Example: 42071533		= 20		= 1 = 2 = 5 = 6 = 7 = 7BF		See standard range chart for code.		1 = 1/4" NPT Bottom 2 = 1/4" NPT Back 3 = 1/2" NPT Bottom 4 = 1/2" NPT Back		1 = Bronze 3 = Stainless Steel
	4		20		7		15		3		3

## SERIES #70 and 80

This series features a solid front / blow-out back case which offers the operator maximum protection in the event of a bourdon tube failure. The safety case construction is widely specified in "Process Gauge" applications. The sealed case design allows the gauge to be dry or glycerin filled .

### STANDARD FEATURES:

**CASE:** Turret style, black, fiberglass reinforced thermoplastic. Solid front / blow-out back safety case. Threaded bezel ring.

**MOVEMENT:** Stainless steel rotary geared movement with dissimilar stainless steel bushings and stainless steel link and screws.

**POINTER:** Lightweight balanced construction with Micrometer adjustment feature.

**DIAL:** Heavy gauge aluminum.

**WINDOW\*:** Acrylic. (Safety Glass Optional.)

**FILL:** Series 70 - Dry  
Series 80 - Glycerin Filled

**CONNECTION:** 1/4" or 1/2" NPT male connection at bottom with restrictor, 316 Stainless Steel

**ACCURACY:** ASME/ANSI B40.1 Grade 2A (1/2%).

\* Additional options available as noted on next page.



**4 1/2" SIZES ONLY**

### BOURDON TUBE:

ORDER CODE	BOURDON TUBE:	RANGES TO:
3	Type 316 stainless steel tubing welded to type 316 stainless steel machined socket.	20,000 psi

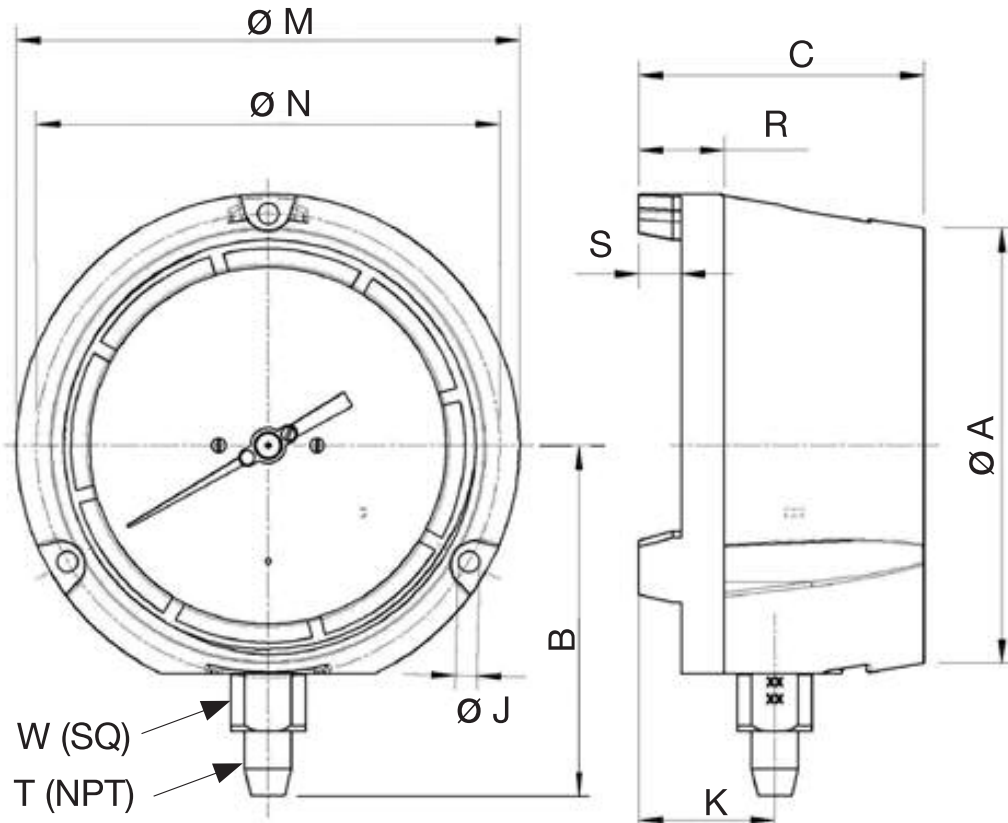
### STANDARD RANGES:

STANDARD DIAL RANGE	MAJOR	MINOR	ORDER CODE	AVAILABLE SIZES:	STANDARD DIAL RANGE	MAJOR	MINOR	ORDER CODE	AVAILABLE SIZES:
				4 1/2"					4 1/2"
0-30" VAC.	5"	.20"	01	✓	0-200 psi	20 psi	2 psi	07	✓
30"-0-15 psi	5" & 3 psi	1" & .50 psi	21	✓	0-300 psi	50 psi	2 psi	08	✓
30"-0-30 psi	10" & 5 psi	1" & .50 psi	22	✓	0-400 psi	50 psi	5 psi	09	✓
30"-0-60 psi	10" & 10 psi	1" & 1 psi	23	✓	0-500 psi	50 psi	5 psi	10	✓
30"-0-100 psi	30" & 10 psi	2" & 1 psi	24	✓	0-600 psi	50 psi	5 psi	11	✓
30"-0-150 psi	30" & 30 psi	5" & 2 psi	25	✓	0-800 psi	100 psi	10 psi	12	✓
30"-0-200 psi	30" & 20 psi	5" & 2 psi	26	✓	0-1000 psi	100 psi	10 psi	13	✓
30"-0-300 psi	30" & 50 psi	5" & 2 psi	27	✓	0-1500 psi	200 psi	10 psi	14	✓
30"-0-400 psi	30" & 50 psi	10" & 5 psi	28	✓	0-2000 psi	200 psi	20 psi	15	✓
30"-0-600 psi	30" & 50 psi	10" & 5 psi	74	✓	0-3000 psi	500 psi	20 psi	16	✓
0-15 psi	1 psi	.10 psi	02	✓	0-5000 psi	500 psi	50 psi	17	✓
0-30 psi	5 psi	.20 psi	03	✓	0-10000 psi	1000 psi	100 psi	18	✓
0-60 psi	5 psi	.50 psi	04	✓	0-15000 psi	1500 psi	100 psi	19	✓
0-100 psi	10 psi	1 psi	05	✓	0-20000 psi	2000 psi	200 psi	20	✓
0-160 psi	20 psi	1 psi	06	✓					

\* Above PSI Ranges are available with dual scale metric KPA or BAR scales (see page 11). Note\* 8-1/2" gauges are PSI only.



## CASE DIMENSIONS



	A	B	C	J	K	M	N	R	S	T	W
mm	128	103 <sup>1</sup>	84	6.3	40	148	136.5	25	12.5		22
in	5	4.06 <sup>1</sup>	3.31	0.248	1.57	5.83	5.37	0.99	0.49	1/2"	0.87

1 - For Gauges with 1/4" NPT connection, dimension changes to 97mm (3.81").

## TO ORDER:

**Additional options** - To order please specify option.

Safety Glass Lens  
 NIST Certificate of Accuracy  
 Red Max Indicating Hand

Ordering Number - Construct by selecting one item from each of the columns below:											
1	Dial Size:	2	Series Number:	3	Case Style:	4	Range Code:	5	Connection Size and Style:	6	Bourdon Tube and Socket Code:
	4½" = 4		= 70 Dry		= 5SG Turret Style Black Phenolic Solid Front Blow-out Back		See standard range chart for code.		1 = 1/4" NPT Bottom 3 = 1/2" NPT Bottom		3 = Stainless Steel
	Example: 4805SG0533		= 80 Liquid Filled								
	4		80		5SG		05		3		3

# ALTITUDE GAUGES

## SERIES #13

This series is designed for use in indicating height of water in tanks, stand pipes, reservoirs, or hot water heating systems.

### STANDARD FEATURES:

**MOVEMENT\*:** Sturdy corrosive resistant bronze bushed rotary type movement with bronze links and stainless steel link screws.

**POINTER\*:** Lightweight balanced construction with adjustment feature and adjustable red set hand.

**DIAL:** Heavy gauge aluminum. 4½", 6" and 8½"

**WINDOW\*:** Glass.

**CONNECTION:** Brass machined connection with wrench flats, 1/4" NPT male connection at bottom or back of case.

**ACCURACY:** ASME/ANSI B40.1 Grade 1A (1%)

### STANDARD RANGES:

RANGE (Feet of water)	ORDER CODE
0-34 ft. -0-15 psi	51
0-70 ft. -0-30 psi	52
0-140 ft. -0-60 psi	53
0-230 ft. -0-100 psi	54
0-370 ft. -0-160 psi	55
0-460 ft. -0-200 psi	56
0-690 ft. -0-300 psi	57



### Ordering Number - Construct by selecting one item from each of the columns below:

1	Dial Size:	2	Series Number:	3	Case Style:	4	Range Code:	5	Connection Size and Style:	6	Bourdon Tube and Socket Code:
	4½" = 4 6" = 6 8½" = 8  Example: 41315511		= 13		= 1 = 2 = 5 = 6 = 7 = 7BF		See standard range chart for code.		1 = 1/4 NPT Bottom 2 = 1/4 NPT Back		1 = Bronze
	4		13		1		55		1		1

## WATER LEVEL GAUGE MODEL CA566

Type CA566 gauges are used to indicate the depth of water in a well. Gauge and air line to well bottom are charged with air. The pressure required to permit air to escape from the end of the air line is a measure of the head of water above the end of the air line. The length of air line may be set on the adjustable dial to permit reading water level in feet below the ground surface.

### STANDARD FEATURES:

**CASE:** 4½" black, corrosion resistant steel with removable bezel ring.

**BOURDON TUBE:** Phosphor bronze. Soldered.

**MOVEMENT\*:** Sturdy corrosive resistant bronze bushed rotary type movement with bronze links and stainless steel link screws.

**POINTER\*:** Balanced. Black finish.

**DIAL:** Heavy gauge aluminum. Inner rotating dial

**WINDOW\*:** Glass.

**CONNECTION:** Brass machined connection with wrench flats, 1/4" NPT male connection at bottom of case.

**ACCURACY:** ASME/ANSI B40.1 Grade B (3-2-3%)



**MODEL CA-566** - 0-390 ft. Water

**MODEL CA-567** - 330-600 ft. Water



# SPECIAL SERVICE GAUGES

## REFRIGERATION GAUGE SERIES #14

This series is designed for use by refrigeration engineers requiring high quality gauges for use with refrigerants that are non-corrosive to bronze.

### STANDARD FEATURES:

**MOVEMENT\*:** Sturdy corrosive resistant bronze bushed rotary type movement with bronze links and stainless steel link screws.

**POINTER\*:** Lightweight balanced construction with adjustment feature.

**DIAL:** Heavy gauge aluminum. 4½", 6" and 8½" sizes

**WINDOW\*:** Glass.

**CONNECTION:** Brass machined connection with wrench flats, 1/4" NPT male connection at bottom or back of case.

**ACCURACY:** ASME/ANSI B40.1 Grade 1A (1%)

\* Additional options available as noted on next page.



Dials are Freon Temperature and Pressure

RANGE	ORDER CODE
30"-0-150 psi (R12 and R22)	63
30"-0-300 psi (R12 and R22)	64

\* Special dials ranges are available upon request

## AMMONIA GAUGE SERIES #15

This series is designed for use on installations on ammonia tanks, or anywhere ammonia is used.

### STANDARD FEATURES:

**MOVEMENT:** Stainless steel rotary geared movement with dissimilar stainless steel bushings and stainless steel link and screws.

**POINTER\*:** Lightweight balanced construction with adjustment feature.

**DIAL:** Heavy gauge aluminum. Temperature for saturated ammonia in red. 4½", 6" and 8½" sizes

**WINDOW\*:** Glass.

**CONNECTION:** 316 stainless steel machined connection with wrench flats, 1/4" or 1/2" NPT male connection at bottom or back of case.

**ACCURACY:** ASME/ANSI B40.1 Grade 1A (1%)



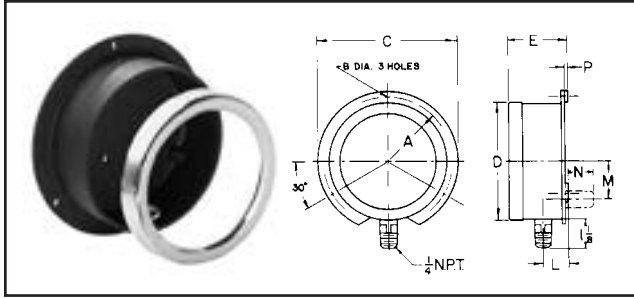
Dials are Ammonia Temperature and Pressure

RANGE	ORDER CODE
30"-0-150 psi	65
30"-0-300 psi	66

### Ordering Number - Construct by selecting one item from each of the columns below:

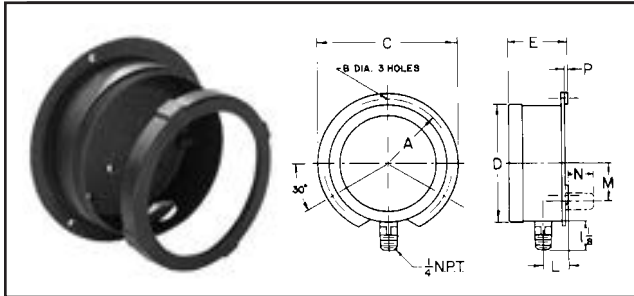
1	Dial Size:	2	Series Number:	3	Case Style:	4	Range Code:	5	Connection Size and Style:	6	Bourdon Tube and Socket Code:
	4½" = 4 6" = 6 8½" = 8		= 14 = 15		= 1 = 2 = 5 = 6 = 7		See standard range chart for code.		1 = 1/4" NPT Bottom 2 = 1/4" NPT Back 3 = 1/2" NPT Bottom 4 = 1/2" NPT Back		1 = Bronze 3 = Stainless Steel
	Example: 41566523										
	4		15		6		65		2		3

# CASE DIMENSIONS



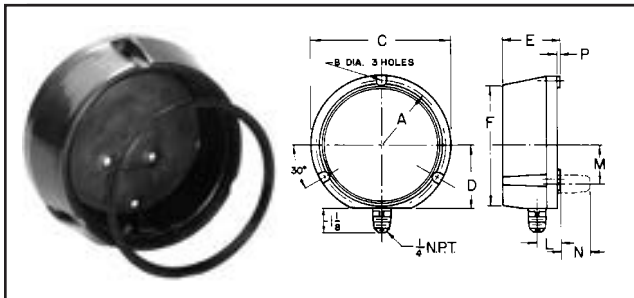
**STYLE 1 - Black Aluminum Case with Slip Ring**

SIZE	A	B	C	D	E	L	M	N	P
4½"	2.68"	.20"	5.87"	4.85"	2.15"	.84"	1.28"	1.81"	.062"



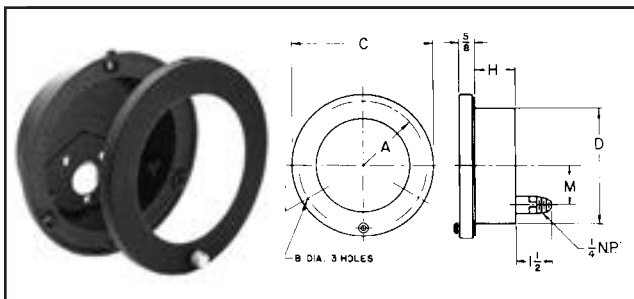
**STYLE 2 - Black Aluminum Case with Twist Ring**

SIZE	A	B	C	D	E	L	M	N	P
6"	3.38"	.20"	7.62"	6.56"	2.20"	.84"	1.41"	1.81"	.062"
8½"	4.81"	.20"	10.25"	9.19"	2.20"	.84"	1.41"	1.81"	.062"



**STYLE 5 - Phenol Turret Case for Wall, Panel or Direct Mounting**

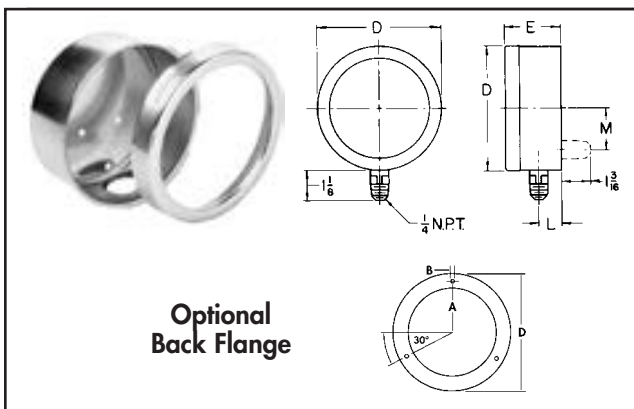
SIZE	A	B	C	D	E	F	L	M	N	P
4½"	2.69"	.22"	5.84"	2.62"	2.15"	4.93"	.875"	1.28"	1.50"	.062"



**STYLE 6 - Black Aluminum Case with Hinged Ring Front Flange**

SIZE	A	B	C	D	H	M	X
4½"	2.69"	.22"	6.00"	4.75"	1.60"	1.41"	4.81"
6"	3.50"	.22"	7.62"	6.34"	1.51"	1.41"	6.47"

X = Panel Hole Cut-Out Diameter.



**STYLE 7 - Polished Stainless Steel Case with Twist Ring**

SIZE	A	B	C	D	E	L	M
4½"	2.68"	.22"	5.89"	5.04"	2.32"	.73"	1.28"

Optional Back Flange

# AVAILABLE METRIC DIAL FOR SERIES 10 and 20

**KPA RANGES** - 4½" and 6" Standard. 8½" by Special Order

AVAILABLE METRIC DIALS				SIZE	
DIAL RANGE	MAJOR	MINOR	ORDER CODE	4½"	6"
0-100 KPA & 0-15 psi	10 KPA & 1 psi	1 KPA & .1 psi	51	✓	✓
0-200 KPA & 0-30 psi	20 KPA & 5 psi	2 KPA & .2 psi	52	✓	✓
0-400 KPA & 0-60 psi	50 KPA & 5 psi	5 KPA & .5 psi	53	✓	✓
0-690 KPA & 0-100 psi	50 KPA & 10 psi	5 KPA & 1 psi	54	✓	✓
0-1100 KPA & 0-160 psi	100 KPA & 20 psi	10 KPA & 1 psi	55	✓	✓
0-1380 KPA & 0-200 psi	200 KPA & 20 psi	10 KPA & 2 psi	56	✓	✓
0-2000 KPA & 0-300 psi	200 KPA & 50 psi	20 KPA & 2 psi	57	✓	✓
0-2700 KPA & 0-400 psi	500 KPA & 50 psi	20 KPA & 5 psi	58	✓	✓
0-3450 KPA & 0-500 psi	500 KPA & 50 psi	25 KPA & 5 psi	59	✓	✓
0-4000 KPA & 0-600 psi	500 KPA & 50 psi	50 KPA & 5 psi	60	✓	✓
0-5500 KPA & 0-800 psi	500 KPA & 100 psi	50 KPA & 5 psi	61	✓	✓
0-6900 KPA & 0-1000 psi	1000 KPA & 100 psi	50 KPA & 10 psi	62	✓	✓
0-10000 KPA & 0-1500 psi	1000 KPA & 100 psi	100 KPA & 10 psi	63	✓	✓
0-13800 KPA & 0-2000 psi	2000 KPA & 200 psi	100 KPA & 20 psi	64	✓	✓
0-20000 KPA & 0-3000 psi	2000 KPA & 500 psi	200 KPA & 20 psi	65	✓	✓
0-34500 KPA & 0-5000 psi	5000 KPA & 500 psi	200 KPA & 50 psi	66	✓	✓
0-69000 KPA & 0-10000 psi	10000 KPA & 1000 psi	500 KPA & 100 psi	67	✓	✓

**BAR RANGES** - 4½" Standard. 6" and 8½" by Special Order

AVAILABLE METRIC DIALS				SIZE
DIAL RANGE	MAJOR	MINOR	ORDER CODE	4½"
0-1 BAR & 0-15 psi	.1 BAR & 1 psi	.01 BAR & .1 psi	31	✓
0-2 BAR & 0-30 psi	.2 BAR & 5 psi	.02 BAR & .2 psi	32	✓
0-4 BAR & 0-60 psi	.5 BAR & 5 psi	.05 BAR & .5 psi	33	✓
0-7 BAR & 0-100 psi	.5 BAR & 10 psi	.05 BAR & 1 psi	34	✓
0-11 BAR & 0-160 psi	1 BAR & 20 psi	.1 BAR & 1 psi	35	✓
0-14 BAR & 0-200 psi	2 BAR & 20 psi	.1 BAR & 2 psi	36	✓
0-20 BAR & 0-300 psi	2 BAR & 50 psi	.2 BAR & 2 psi	37	✓
0-27 BAR & 0-400 psi	5 BAR & 50 psi	.2 BAR & 5 psi	38	✓
0-40 BAR & 0-600 psi	5 BAR & 50 psi	.5 BAR & 5 psi	39	✓
0-70 BAR & 0-1000 psi	10 BAR & 100 psi	.5 BAR & 10 psi	40	✓
0-100 BAR & 0-1500 psi	10 BAR & 100 psi	1 BAR & 10 psi	41	✓
0-137 BAR & 0-2000 psi	20 BAR & 200 psi	1 BAR & 20 psi	42	✓
0-200 BAR & 0-3000 psi	20 BAR & 300 psi	2 BAR & 20 psi	43	✓
0-345 BAR & 0-5000 psi	50 BAR & 500 psi	2 BAR & 50 psi	44	✓
0-680 BAR & 0-10000 psi	100 BAR & 1000 psi	5 BAR & 100 psi	45	✓

## SERIES # 1



**1½", 2", 2½", or 3½" Case**

**Bottom or Center Back Mount**

**These gauges are designed for use with gas, oil and water or any medium not corrosive to brass or bronze.**

## STANDARD RANGES

**Standard gauge scales - Dual.**

**Outer scale is PSI.**

**Inner scale is metric (kPa & bar.)**

RANGE	CODE	MAJOR	MINOR
30"-0" VAC	A	5" hg	.5" hg
30"-0-15 psi	CB	10" hg & 5 psi	1" hg & .50 psi
30"-0-30 psi	CC	10" hg & 10 psi	1" hg & 1 psi
30"-0-60 psi	CD	10" hg & 10 psi	2" hg & 1 psi
30"-0-100 psi	CE	30" hg & 20 psi	5" hg & 2 psi
30"-0-150 psi	CF	30" hg & 20 psi	5" hg & 2 psi
30"-0-300 psi	CH	30" hg & 50 psi	10" hg & 5 psi
0-15 psi	B	2 psi	.20 psi
0-30 psi	C	5 psi	.50 psi
0-60 psi	D	10 psi	1 psi
0-100 psi	E	20 psi	2 psi
0-160 psi	F	20 psi	2 psi
0-200 psi	G	40 psi	5 psi
0-300 psi	H	50 psi	5 psi
0-400 psi	I	50 psi	5 psi
0-600 psi	K	100 psi	10 psi
0-1000 psi	M	200 psi	10 psi
0-1500 psi	N	200 psi	20 psi
0-2000 psi	O	400 psi	50 psi
0-3000 psi	P	500 psi	50 psi
0-4000 psi	Q	800 psi	100 psi
0-5000 psi	R	1000 psi	100 psi
0-6000 psi	S	1000 psi	100 psi


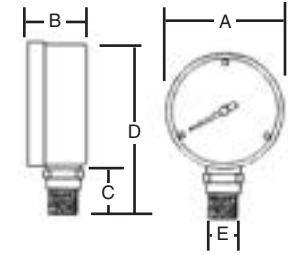

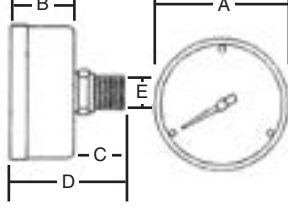

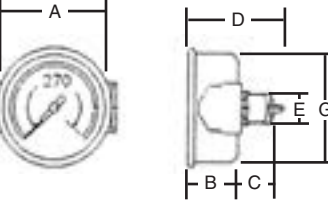

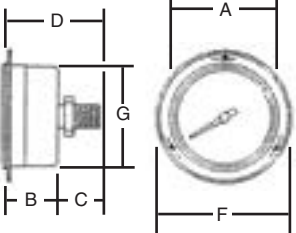
## SPECIFICATIONS

DIAL	1½" (40mm), 2" (50mm), 2½" (63mm), 3½" (88 mm)
CASE	Black steel, dry non-fillable
WETTED PARTS	Copper alloy
BEZEL	Chrome plated steel, fixed
LENS	Plastic
POINTER	Black aluminum
CONNECTION	Bottom or Center Back 1/8" NPT for 1½" and 2" dials 1/4" NPT for 2" to 3½" dials
SCALE	Standard: psi/BAR (x 100 = kPa) Single scale psi available from stock
ACCURACY	3-2-3% of span, ASME B40.1 Grade B
AMBIENT TEMP	-50° F to 160° F



**U-Clamp and Front Flanged Panel Mounted styles feature bright chrome finishes**

## CASE STYLES AND DIMENSIONS

BOTTOM MOUNT Style 1			SIZE	A	B	C	D	E		
			1½"	1.64"	.93"	.65"	2.26"	1/8" NPT		
			2"	2.07"	1.06"	.83"	2.83"	1/8" or 1/4" NPT		
			2½"	2.50"	1.13"	.88"	3.31"	1/4" NPT		
			3½"	3.54"	1.12"	1.02"	4.49"	1/4" NPT		
BACK MOUNT Style 2			SIZE	A	B	C	D	E		
			1½"	1.64"	0.93"	.63"	1.51"	1/8" NPT		
			2"	2.07"	1.03"	.89"	1.90"	1/8" or 1/4" NPT		
			2½"	2.50"	1.17"	.90"	1.97"	1/4" NPT		
			3½"	3.49"	1.22"	.83"	2.02"	1/4" NPT		
PANEL MOUNT Style 3			SIZE	A	B	C	D	G	E	
			1½"	1.84"	1.03"	.63"	1.61"	1.61"	1/8" NPT	
			2"	2.31"	1.18"	.73"	1.84"	2.04"	1/8" or 1/4" NPT	
			2½"	2.68"	1.12"	.76"	1.87"	2.44"	1/4" NPT	
			3½"	3.98"	1.23"	.67"	2.02"	3.59"	1/4" NPT	
FRONT FLANGE Style 4			SIZE	A	B	C	D	F	G	E
			1½"	1.84"	1.03"	.63"	1.61"	2.23"	1.61"	1/8" NPT
			2"	2.31"	1.18"	.73"	1.84"	2.81"	2.04"	1/8" or 1/4" NPT
			2½"	2.68"	1.12"	.76"	1.87"	3.47"	2.44"	1/4" NPT
			3½"	3.98"	1.23"	.67"	2.02"	5.21"	3.59"	1/4" NPT

## COMPLETE ORDERING INFORMATION on Page 18

- Dry Black Steel Cased Gauge with Chrome Rings
- Large Inventory in Stock for Quick Shipment
- Back-Up Stocking Programs Available to OEM's
- Quality Manufactured in ISO 9000 Certified Facility



# BRASS LIQUID FILLED GAUGES

## SERIES #2



**1½", 2", 2½", or 4" Case**

**Bottom or Center Back Mount**

**Glycerin filled for added durability where vibration is present. These gauges are designed for use with gas, oil and water or any medium not corrosive to brass.**

### SPECIFICATIONS

<b>DIAL</b>	1½" (40mm), 2" (50mm), 2½" (63mm), 4" (100 mm)
<b>CASE</b>	Stainless steel, glycerin filled
<b>WETTED PARTS</b>	Copper alloy
<b>BEZEL</b>	Stainless steel, fixed
<b>LENS</b>	Polycarbonate
<b>POINTER</b>	Black aluminum
<b>CONNECTION</b>	Bottom or Center Back 1/8" NPT for 1½" and 2" dials 1/4" NPT for 2" to 4" dials 1/2" NPT for 4" dials
<b>SCALE</b>	Standard: psi/BAR (x 100 = kPa) Single scale psi available from stock
<b>ACCURACY</b>	3-2-3% of span, 1½-2", ASME B40.1 Grade B 2-1-2% of span, 2½-4", ASME B40.1 Grade A
<b>AMBIENT TEMP</b>	Glycerin filled: -50° F to 160° F Dry: -50° F to 160° F

### STANDARD RANGES

**Standard gauge scales - Dual.**

**Outer scale is PSI.**

**Inner scale is metric (kPa & bar.)**

RANGE	CODE	MAJOR	MINOR
30"-0" VAC	A	5" hg	.5" hg
30"-0-15 psi	CB	10" hg & 5 psi	1" hg & .50 psi
30"-0-30 psi	CC	10" hg & 5 psi	1" hg & .50 psi
30"-0-60 psi	CD	30" hg & 10 psi	2" hg & 1 psi
30"-0-100 psi	CE	30" hg & 20 psi	5" hg & 2 psi
30"-0-150 psi	CF	30" hg & 30 psi	5" hg & 2 psi
30"-0-300 psi	CH	30" hg & 50 psi	10" hg & 5 psi
0-15 psi	B	2 psi	.10 psi
0-30 psi	C	5 psi	.50 psi
0-60 psi	D	10 psi	.50 psi
0-100 psi	E	20 psi	2 psi
0-160 psi	F	20 psi	2 psi
0-200 psi	G	40 psi	5 psi
0-300 psi	H	50 psi	5 psi
0-400 psi	I	50 psi	5 psi
0-500 psi	J	100 psi	10 psi
0-600 psi	K	100 psi	10 psi
0-800 psi	L	100 psi	10 psi
0-1000 psi	M	200 psi	20 psi
0-1500 psi	N	200 psi	20 psi
0-2000 psi	O	200 psi	50 psi
0-3000 psi	P	500 psi	50 psi
0-4000 psi	Q	500 psi	100 psi
0-5000 psi	R	1000 psi	100 psi
0-6000 psi	S	1000 psi	100 psi
0-10000 psi	U	1000 psi	200 psi
0-15000 psi	V	2000 psi	200 psi





## CASE STYLES AND DIMENSIONS

STYLE	PHOTO	DIAGRAM	SIZE	A	B	C	D	E		
<b>BOTTOM MOUNT Style 1</b>			1½"	1.85"	1.00"	.67"	2.28"	1/8" NPT		
			2"	2.27"	1.20"	.91"	2.95"	1/8" or 1/4" NPT		
			2½"	2.80"	1.40"	1.07"	3.55"	1/4" NPT		
			4"	4.29"	1.75"	1.17"	5.21"	1/4" or 1/2" NPT		
<b>BACK MOUNT Style 2</b>			1½"	1.85"	1.02"	.72"	1.74"	1/8" NPT		
			2"	2.28"	1.18"	1.02"	2.05"	1/8" or 1/4" NPT		
			2½"	2.80"	1.34"	.94"	2.28"	1/4" NPT		
			4"	4.29"	1.78"	1.37"	3.15"	1/4" or 1/2" NPT		
<b>PANEL MOUNT Style 3</b>			1½"	1.85"	1.02"	.72"	1.74"	2.75"	1.63"	1/8" NPT
			2"	2.27"	1.16"	.90"	2.08"	3.13"	2.05"	1/8" or 1/4" NPT
			2½"	2.80"	1.34"	.94"	2.28"	3.84"	2.48"	1/4" NPT
			4"	4.29"	1.78"	1.37"	3.15"	5.60"	3.91"	1/4" or 1/2" NPT
<b>FRONT FLANGE Style 4</b>			1½"	1.85"	1.02"	.72"	1.74"	2.46"	1.63"	1/8" NPT
			2"	2.26"	1.18"	1.02"	2.02"	2.81"	2.05"	1/8" or 1/4" NPT
			2½"	2.80"	1.34"	.94"	2.28"	3.45"	2.48"	1/4" NPT
			4"	4.29"	1.78"	1.37"	3.15"	5.14"	3.91"	1/4" or 1/2" NPT

## COMPLETE ORDERING INFORMATION on Page 18

- **Stainless Steel Case - Brass Internals - Dry or Liquid Filled**
- **Large Inventory in Stock for Quick Shipment**
- **Back-Up Stocking Programs Available to OEM's**
- **Quality Manufactured in ISO 9000 Certified Facility**

# ALL STAINLESS LIQUID FILLED GAUGES

## SERIES #3



**1 1/2", 2", 2 1/2", or 4" Case**

**Bottom or Center Back Mount**

**Heavy duty, all stainless steel gauge with welded case-to-stem construction. Designed for applications not corrosive to stainless steel.**

### SPECIFICATIONS

<b>DIAL</b>	1 1/2" (40mm), 2" (50mm), 2 1/2" (63mm), 4" (100 mm)
<b>CASE</b>	Stainless steel, glycerin filled Welded case-to-stem connection
<b>WETTED PARTS</b>	316 Stainless steel
<b>BEZEL</b>	Stainless steel, fixed
<b>LENS</b>	Polycarbonate
<b>POINTER</b>	Black aluminum
<b>CONNECTION</b>	Bottom or Center Back 1/8" NPT for 1 1/2" and 2" dials 1/4" NPT for 2" to 4" dials 1/2" NPT for 4" dials
<b>SCALE</b>	Standard: psi/BAR (x 100 = kPa) Single scale psi available from stock
<b>ACCURACY</b>	3-2-3% of span, 1 1/2"-2", ASME B40.1 Grade B 2-1-2% of span, 2 1/2", ASME B40.1 Grade A 1% of span, 4", ASME B40.1 Grade 1A
<b>AMBIENT TEMP</b>	Glycerin filled: -50° F to 160° F Dry: -30° F to 180° F

### STANDARD RANGES

**Standard gauge scales - Dual.**


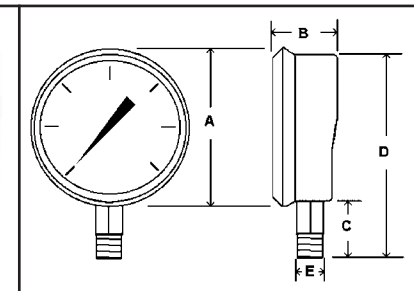
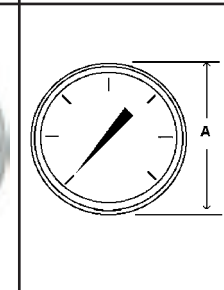
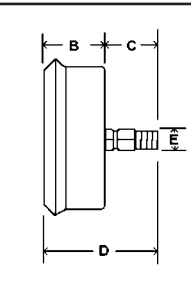
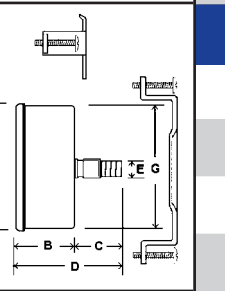
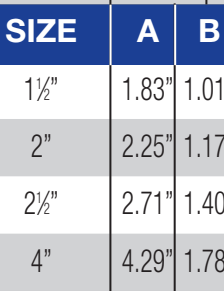
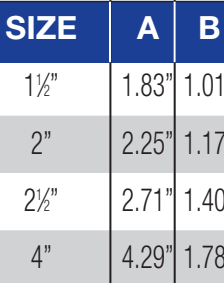
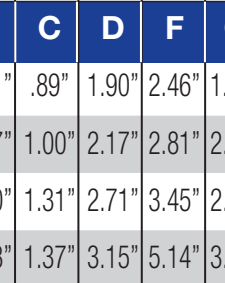
**Outer scale is PSI.**

**Inner scale is metric (kPa & bar.)**

RANGE	CODE	MAJOR	MINOR
30"-0" VAC	A	5" hg	.5" hg
30"-0-15 psi	CB	10" hg & 5 psi	1" hg & .50 psi
30"-0-30 psi	CC	10" hg & 5 psi	1" hg & .50 psi
30"-0-60 psi	CD	10" hg & 10 psi	2" hg & 1 psi
30"-0-100 psi	CE	30" hg & 20 psi	5" hg & 2 psi
30"-0-150 psi	CF	30" hg & 30 psi	5" hg & 2 psi
30"-0-300 psi	CH	30" hg & 50 psi	10" hg & 10 psi
0-15 psi	B	2 psi	.20 psi
0-30 psi	C	5 psi	.50 psi
0-60 psi	D	10 psi	.1 psi
0-100 psi	E	20 psi	2 psi
0-160 psi	F	20 psi	2 psi
0-200 psi	G	40 psi	5 psi
0-300 psi	H	50 psi	5 psi
0-400 psi	I	50 psi	5 psi
0-600 psi	K	100 psi	10 psi
0-1000 psi	M	200 psi	10 psi
0-1500 psi	N	200 psi	20 psi
0-2000 psi	O	400 psi	50 psi
0-3000 psi	P	500 psi	50 psi
0-4000 psi	Q	800 psi	100 psi
0-5000 psi	R	1000 psi	100 psi
0-6000 psi	S	1000 psi	100 psi
0-10000 psi	U	2000 psi	200 psi
0-15000 psi	V	2000 psi	200 psi



## CASE STYLES AND DIMENSIONS

BOTTOM MOUNT Style 1			SIZE	A	B	C	D	E		
			1½"	1.84"	1.03"	.73"	2.32"	1/8" NPT		
			2"	2.25"	1.15"	.91"	2.93"	1/8" or 1/4" NPT		
			2½"	2.70"	1.39"	1.00"	3.61"	1/4" NPT		
			4"	4.30"	1.74"	1.19"	5.26"	1/4" or 1/2" NPT		
BACK MOUNT Style 2			SIZE	A	B	C	D	E		
			1½"	1.83"	1.01"	.89"	1.90"	1/8" NPT		
			2"	2.25"	1.17"	1.00"	2.17"	1/8" or 1/4" NPT		
			2½"	2.71"	1.40"	1.31"	2.71"	1/4" NPT		
			4"	4.29"	1.78"	1.37"	3.15"	1/4" or 1/2" NPT		
PANEL MOUNT Style 3			SIZE	A	B	C	D	F	G	E
			1½"	1.83"	1.01"	.89"	1.90"	2.75"	1.61"	1/8" NPT
			2"	2.25"	1.17"	1.00"	2.17"	3.13"	2.03"	1/8" or 1/4" NPT
			2½"	2.71"	1.40"	1.31"	2.71"	3.84"	2.49"	1/4" NPT
			4"	4.29"	1.78"	1.37"	3.15"	5.60"	3.91"	1/4" or 1/2" NPT
FRONT FLANGE Style 4			SIZE	A	B	C	D	F	G	E
			1½"	1.83"	1.01"	.89"	1.90"	2.46"	1.61"	1/8" NPT
			2"	2.25"	1.17"	1.00"	2.17"	2.81"	2.03"	1/8" or 1/4" NPT
			2½"	2.71"	1.40"	1.31"	2.71"	3.45"	2.49"	1/4" NPT
			4"	4.29"	1.78"	1.37"	3.15"	5.14"	3.91"	1/4" or 1/2" NPT

## COMPLETE ORDERING INFORMATION on Page 18

- Stainless Steel Case - Stainless Steel Internals - Dry or Liquid Filled
- Large Inventory in Stock for Quick Shipment
- Back-Up Stocking Programs Available to OEM's
- Quality Manufactured in ISO 9000 Certified Facility

# PART NUMBERING SYSTEM SERIES 1, 2 and 3 GAUGES

**2** **0** **1** **L** — **2** **5** **4** **E**

**TYPE SERIES**

**1** = Steel Case with Chrome Ring. Brass Internals  
**2** = Stainless Steel Case. Brass Internals  
**3** = Stainless Steel Case. 316 SS Internals

**SPECIAL FEATURES**

**0** = Standard Gauge  
**1** = removable Ring, Adjustable Pointer

**MOUNTING STYLE**

**1** = Bottom Connection / Stem Mounted  
**2** = Back Connection / Stem Mounted  
**3** = Back Connection / U-Clamp, Panel Mount  
**4** = Back Connection / Front Flanged, Panel Mount

**FILL TYPE**

**D** = Dry - Not Filled  
**L** = Glycerin Filled

**DIAL SIZE**

**15** = 1½" Diameter  
**20** = 2" Diameter  
**25** = 2½" Diameter  
**35** = 3½" Diameter  
**40** = 4" Diameter

**CONNECTION SIZE**

**8** = 1/8" NPT Male  
**4** = 1/4" NPT Male

**DIAL RANGE**

**A** = 30"-0"hg VAC  
**CB** = 30"-0-15 PSI  
**CC** = 30"-0-30 PSI  
**CD** = 30"-0-60 PSI  
**CE** = 30"-0-100 PSI  
**CF** = 30"-0-150 PSI  
**CH** = 30"-0-300 PSI  
**B** = 0-15 PSI  
**C** = 0-30 PSI  
**D** = 0-60 PSI  
**E** = 0-100 PSI  
**F** = 0-160 PSI  
**G** = 0-200 PSI  
**H** = 0-300 PSI  
**I** = 0-400 PSI  
**J** = 0-500 PSI  
**K** = 0-600 PSI  
**L** = 0-800 PSI  
**M** = 0-1000 PSI  
**N** = 0-1500 PSI  
**O** = 0-2000 PSI  
**P** = 0-3000 PSI  
**Q** = 0-4000 PSI  
**R** = 0-5000 PSI  
**S** = 0-6000 PSI  
**U** = 0-10,000 PSI

**EXAMPLE - 201L-254E**

**2** = Stainless Steel Case. Brass Internals  
**0** = Standard Gauge  
**1** = Bottom Connection / Stem Mounted  
**L** = Glycerin Filled  
**25** = 2½" Diameter  
**4** = 1/4" NPT Male  
**E** = 0-100 psi

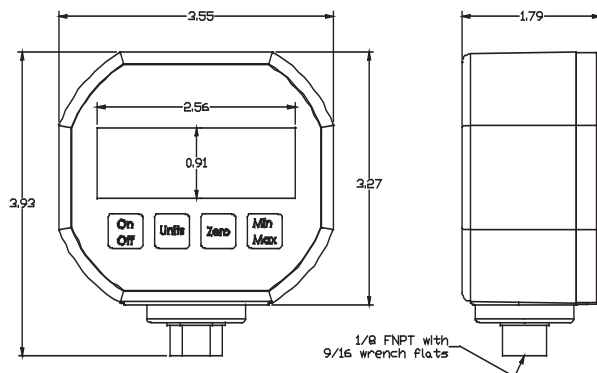
# ACCUGAUGE AG100

## Digital Pressure Gauge



The **AG100** series is a digital pressure gauge featuring multiple measurement units, min/max readings, selectable tare/zero and an automatic power off to conserve battery power. Also, a backlight provides improved visibility under marginal lighting conditions.

The **AG100** will operate with any liquid or gas that is compatible with 17-4PH stainless steel. Please consult the factory for other available wetted materials.



### Performance @ 25°C (77°F)

Pressure Range	A number of preset ranges are available
Measurement Units	PSI, BAR, kg/cm, ATM, InH20, InHg
Accuracy	<±0.5% BFSL (Includes Non-linearity, Hysteresis and Non-repeatability)
Stability (1 year)	±0.25% FS (typical)
Over Range Protection	2X Rated Pressure
Burst Pressure	5X or 20,000 PSI whichever is less
Pressure Cycles	>100 Million

### Environmental Data

#### Temperature

Media	-55 to 125°C (-67 to 257°F)
Operating (Ambient)	-10°C to 70°C (14°F to 158°F)
Storage	-10°C to 85°C (14°F to 185°F)

#### Thermal Limits

Compensated Range	0°C to 55°C (32°F to 131°F)
TC Zero	<±1.5% of FS
TC Span	<±1.5% of FS

### Specifications

Display Update Rate	2 samples per second
Power	9 Volt Alkaline Battery
Automatic Power Off	1 Hour
Battery Life	4000 Hours Operation (typical)
Protection Rating	NEMA 4, IP 65
Instrument Case	Poly carbonate

### Ordering Information

**AG100 A V0100**

#### Series Type

A=1/4" NPT Male  
J= 1/8" NPT Female

Pressure range  
Insert 5-digit pressure  
range code

#### Pressure Ranges

Gage PSIG	Pressure Range Code
-14.7 to 50	V0050
-14.7 to 100	V0100
-14.7 to 250	V0250
-14.7 to 500	V0500
-14.7 to 1000	V1000
0 to 2500	02500
0 to 5000	05000



# TEST GAUGES

## SERIES #2554

**THE MOST RUGGED 1/4 % TEST GAUGE AVAILABLE.**

With only one moving part and an inconel direct drive spiral bourdon tube, the Series 2554 Test Gauge offers superior long-term performance.

### FEATURES:

- 4½" Black Valox Case. Converts to Panel, Surface or Plain Mounting.
- 1/2" NPT male bottom connection.
- All .25% Test Gauges are supplied with an NIST Traceable Calibration Certificate.
- 150% overpressure with no effect on accuracy.
- Shock resistant, direct drive spiral bourdon tube.
- Mirrored dial and knife edge pointer with adjustable zero set.

### ORDERING CODE:

25544-(Range Code)-C11 (See Page 4 for Ranges)



**4½" CASE ONLY**

## N.I.S.T. CERTIFICATION

ANY Duro Instrument can be tested, serialized and certified traceable to N.I.S.T. accuracy standards.

We offer General Certificates of Accuracy and Calibration Certificates with Test Points.

Please ask one of our product specialists for details.

### DURO CALIBRATION CERTIFICATE

Description: 4.5" 300 PSI

Catalog No. 42070813 Serial No. D10283

Operating Range 0 TO 300 PSI Accuracy ± 0.25%

INCREASING PRESSURE			DECREASING PRESSURE		
Applied Press.	Indicated Press.	Difference	Applied Press.	Indicated Press.	Difference
50		-50	150		-150
150		-150	50		-50
200		-200			
Allowable Operating Tolerance ± 3 PSI					

Duro certifies that this instrument has been tested and calibrated with test standards traceable to N.I.S.T. as specified in American National Standards ASME B40.1-1998, PPG.1 And test procedures as specified in ASM B40.1-1998, PPG.2

Calibrated in upright Position Temperature 72.0 DEG.

Date of Certification 6/7/2011 Inspector [Signature]

**THUEMLING INDUSTRIAL PRODUCTS**  
 MANUFACTURER OF DURO GAUGES  
 P O BOX 1625 WALKESHA, WI 53187-1625 PHONE (262) 547-1789  
 1225 PEARL STREET WALKESHA WI 53186-4867 FAX (262) 547-6493