

## All Stainless Steel Utility Gauges 1.5" Model - 10S (1/8" - 1/4 NPT")



### Dry, Liquid Fillable or Pre-Filled.

Case Relief Grommet.  
White Aluminium Dial ,Black figures.  
Black Aluminium Pointer.  
316 Stainless Steel Wetted Parts.  
304 Stainless Steel Case & Crimped Ring.

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

**SCALE**  
Triple Scale  
PSI / BAR / KPA

**LENS**  
Polycarbonate.  
Acrylic (on CB Non Fillable)

**MOUNTING TYPES**  
No Code: Bottom Connection  
CB: Center Back Connection.(Fillable & Non Fillable)  
C: C-Clamp Fixing for Panel Mounting.  
FP: Front Flange for Panel Mounting.



Model Shown: 10S-30-CB  
(Non Fillable option shown)

Range Code	Range (psi)	Range Code	Range (psi)
V30	30"Hg -0 Vacuum	300	0-300
R315	Receiver 3-15	400	0-400
C15	30"Hg-0-15	600	0-600
C30	30"Hg-0-30	800	0-800
C60	30"Hg-0-60	1K	0-1,000
C100	30"Hg-0-100	1500	0-1,500
C160	30"Hg-0-160	2K	0-2,000
C200	30"Hg-0-200	3K	0-3,000
C300	30"Hg-0-300	4K	0-4,000
15	0-15	5K	0-5,000
30	0-30	6K	0-6,000
60	0-60	10K	0-10,000
100	0-100	15K	0-15,000
160	0-160		
200	0-200		

### HOW TO ORDER BY PART NUMBER.

- 1 Model Number: (10S)
- 2 Choose Pressure Range (code).
- 3 Choose Mounting Type (code).
- 4 Liquid filling, if desired: **GF=Glycerin**.

### FOR EXAMPLE: 10S-30-CB

1.1/2 inch Non Fillable 316 Stainless Steel Gauge,  
1/8 inch NPT.  
0-30 psi range.  
Center Back Mount.  
Add 1/4 if you require 10S with 1/4" NPT  
(this is non standard).

1-Model	2-Range Code	3-Mounting Type	4-Filling Type
10S	30	CB	Non Fillable

We manufacture a wide range of instruments to customer's special requirements  
We shall be pleased to discuss and advise on your specifications.

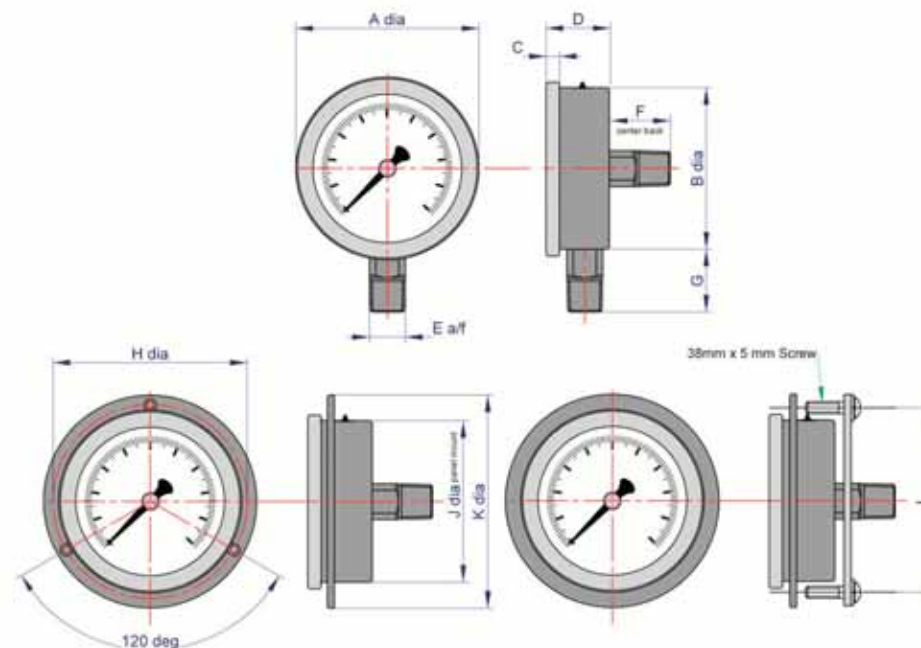
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## All Stainless Steel Utility Gauges 1.5" Model - 10S (1/8" - 1/4 NPT")

Standard Direct Mounted (Bottom Vertical)

**CB:Center Back Connection**  
Also available Non Fillable with smaller dia bezel  
(See Dims Chart)



FP:Front Flange for Panel Mounting

C:Clamp Fixing for Panel Mounting

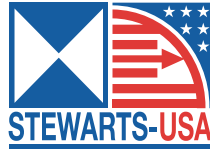
	A Dims	B	C	D	E	F	G	H	J	K	L	Hole Size
38mm	46.5	41.0	4.5	25.5	12.5	20.0	17.0		43.0	62.3	48.2	44.5
1.5in	1.83	1.61	0.18	1.0	0.49	0.79	0.67		1.69	2.45	1.9	1.75
Non Fillable	42.0	41.0	8.0	24.0	11.0	16.0						
Center Back	1.65	1.61	0.31	0.94	0.43	0.63						



**STEWARTS - USA**  
6786 Tipperary  
HOUSTON, TX 77061 USA  
Phone. 713-643-1022  
Fax. 713-643-2855  
Toll Free. 1-800-901-1316  
Web. [stewartsusa.com](http://stewartsusa.com)

# Stainless Steel Case Brass Internal Utility Gauges

- 1.5" Model - 11B (1/8 -1/4" NPT)
- 2" Model - 33B (1/8 -1/4" NPT)
- 2.5" Model - 24B (1/4" NPT)



**CASE**  
Stainless Steel Case, Dry, Non-fillable  
Stainless Steel Crimped Bezel

**INTERNALS and WETTED PARTS**  
Brass Socket  
Bronze Tube  
Brass Movement

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

**SCALE**  
Triple Scale  
PSI / BAR / KPA

**MOUNTING TYPES**  
**No Code:** Bottom Connection  
**CB:** Center Back Connection  
**FP:** Front Flange for Panel Mounting  
**C:** C-Clamp Fixing for Panel Mounting



**Model: 11B-V30**  
To order other models  
by part number, see below.

### RANGE SELECTION

Range Code	Range (psi)	Range Code	Range (psi)
V30	30"Hg - 0 Vacuum	300	0-300
R315	Receiver 3-15	400	0-400
C15	30"Hg -0- 15	600	0-600
C30	30"Hg -0- 30	800	0-800
C60	30"Hg -0- 60	1K	0-1,000
C100	30"Hg -0- 100	1500	0-1,500
C160	30"Hg -0- 160	2K	0-2,000
C200	30"Hg -0- 200	3K	0-3,000
C300	30"Hg -0- 300	5K	0-5,000
15	0-15	6K	0-6,000
30	0-30	10K	0-10,000
60	0-60		
100	0-100		
160	0-160		
200	0-200		

### NPT Thread Size Code

1.5" (Model 11B) 1/8" NPT is Standard. (Add -1/4 code for 1/4 inch NPT)  
2" (Model 33B) 1/4" NPT is Standard. (Add -1/8 code for 1/8 inch NPT)

### HOW TO ORDER BY PART NUMBER

- 1 Model Number (11B, 33B, or 24B)
  - 2 Choose Pressure Range (code)
  - 3 Choose Mounting Type (code) (bottom connection is standard, no code needed)
  - 4 NPT Thread Size Code (see above)
- (Note: This model is non-fillable)

### FOR EXAMPLE: 11B-V30

1.5 inch dial, Stainless Steel Case, Brass Wetted Parts  
Vacuum 30"Hg - 0  
Standard Bottom connection, 1/8" NPT

1-Model	2-Range Code	3-Mounting Type	4-Thread Size
11B	V30		

We manufacture a wide range of instruments to customer's special requirements  
We shall be pleased to discuss and advise on your specifications.

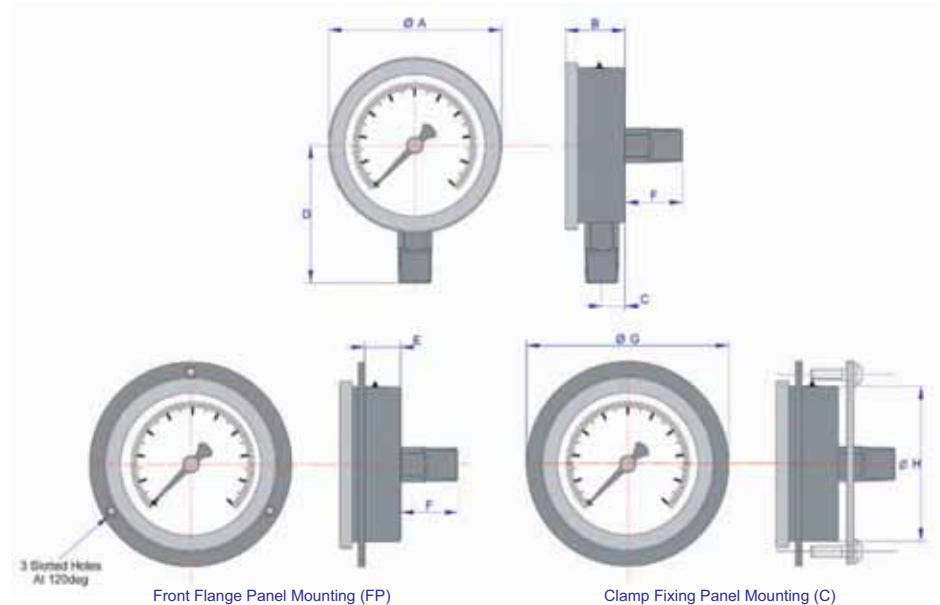
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11B33B24B20050325

# Stainless Steel Case Brass Internal Utility Gauges

- 1.5" Model-11B (1/8" NPT standard - 1/4" NPT special)
- 2" Model-33B (1/8" NPT available - 1/4" NPT standard)
- 2.5" Model-24B (1/4" NPT)

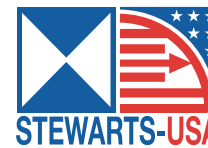
Direct Mounting (Standard) or Center Back (CB)



("F" DIMENSIONS INDICATE STANDARD NPT FOR MODEL)

	A Dims	B	C	D	E	F	G	H	Cut Out	
(11B)	38mm 1.5in	42 1.65	23.5 0.93	9 0.35	37.5 1.48	18.5 0.73	13 0.51	61.5 2.42	41.5 1.63	44.5 1.75
(33B)	50mm 2in	52.5 2.07	29 1.14	10 0.39	45.5 1.79	22 0.87	20.5 0.81	73 2.83	51.5 2.03	55 2.17
(24B)	63mm 2.5in	63 2.48	29 1.14	10 0.39	51 2.00	22.7 0.89	17.5 0.69	87 3.43	63 2.48	67 2.64

Before use please consult our recommendation regarding selection and installation or consult ASME B40.100

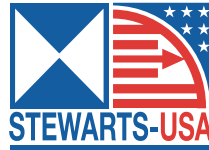


**STEWARTS-USA**  
6786 Tipperary  
Houston, TX 77061 U.S.A.  
(713) 643 - 1022  
(713) 643 - 2855 Fax  
(800) 901 - 1316

www.stewartusa.com

# Black Steel Case Brass Internal Utility Gauges

- 1.5" Model - 12B (1/8 - 1/4" NPT)
- 2" Model - 34B (1/8 - 1/4" NPT)
- 2.5" Model - 25B (1/4" NPT)



**CASE**  
Black Steel Case with  
Snap On Acrylic Lens

**INTERNALS and WETTED PARTS**

Brass Socket  
Bronze Tube  
Brass Movement

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

**SCALE**  
Triple Scale  
PSI / BAR / KPA.

**MOUNTING TYPES**

**No Code:** Bottom connection  
**CB:** Center Back Connection  
**FP:** Front Flange for Panel Mounting  
**C:** C-Clamp Fixing for Panel Mounting



**Part Number: 12B-V30**  
To order other models  
by part number, see below.

**RANGE SELECTION**

Range Code	Range (psi)	Range Code	Range (psi)
V30	30"Hg - 0 Vacuum	300	0-300
R315	Receiver 3-15	400	0-400
C15	30"Hg -0- 15	600	0-600
C30	30"Hg -0- 30	800	0-800
C60	30"Hg -0- 60	1K	0-1,000
C100	30"Hg -0- 100	1500	0-1,500
C160	30"Hg -0- 160	2K	0-2,000
C200	30"Hg -0- 200	3K	0-3,000
C300	30"Hg -0- 300	5K	0-5,000
15	0-15	6K	0-6,000 <b>2.5" (Model 25B) only this range</b>
30	0-30	10K	0-10,000 <b>2.5" (Model 25B) only this range</b>
60	0-60		
100	0-100		
160	0-160		
200	0-200		

**NPT Thread Size Code**

1.5" (Model 12B) 1/8" NPT is standard. (Add -1/4 code for 1/4 inch NPT)  
2" (Model 34B) 1/4" NPT is standard. (Add -1/8 code for 1/8 inch NPT)

**HOW TO ORDER BY PART NUMBER**

- 1 Model Number (12B, 34B, or 25B)
- 2 Choose Pressure Range (code)
- 3 Choose Mounting Type (code) (bottom connect is standard, no code needed)
- 4 NPT Thread Size Code (see above)

**FOR EXAMPLE (AS SHOWN) 12B-V30**

1.5 inch dial, Black Steel Case, Brass Internals  
Vacuum 30"Hg - 0  
Standard bottom connection, 1/8" NPT

1-Model	2-Range Code	3-Mounting Type	4-Thread Size
12B	V30		

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We shall be pleased to discuss and advise on your specifications.

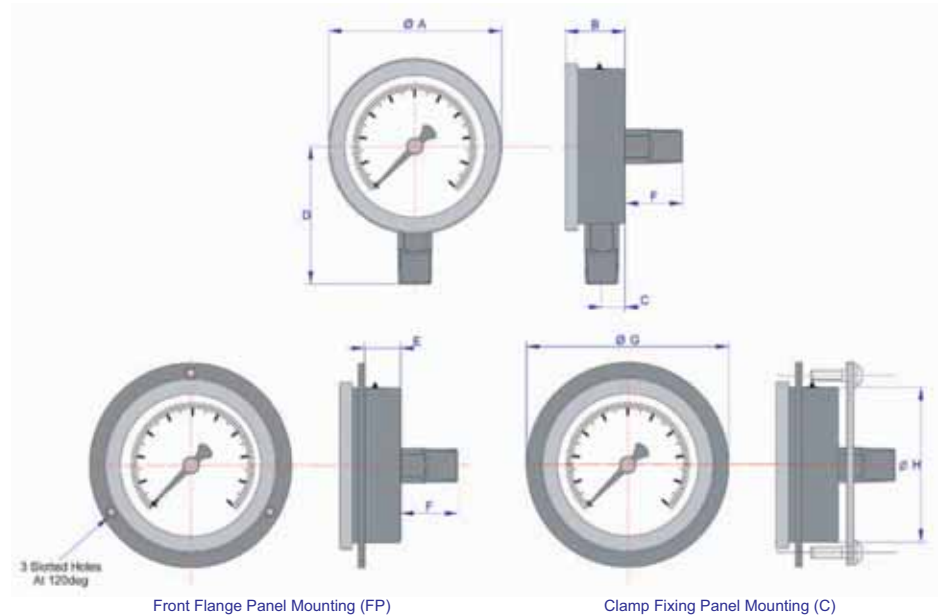
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12B34B25B2005025

# Black Steel Case Brass Internal Utility Gauges

- 1.5" Model-12B (1/8" NPT standard - 1/4" NPT special)
- 2" Model-34B (1/8" NPT available - 1/4" NPT standard)
- 2.5" Model-25B (1/4" NPT)

Direct Mounting (Standard) or Center Back (CB)



("F" DIMENSIONS INDICATE STANDARD NPT FOR MODEL)

	A Dims	B	C	D	E	F	G	H	Cut Out	
(12B)	38mm 1.5in	42 1.65	23.5 0.93	9 0.35	37.5 1.48	18.5 0.73	13 0.51	61.5 2.42	41.5 1.63	44.5 1.75
(34B)	50mm 2in	52.5 2.07	29 1.14	10 0.39	45.5 1.79	22 0.87	20.5 0.81	73 2.83	51.5 2.03	55 2.17
(25B)	63mm 2.5in	63 2.48	29 1.14	10 0.39	51 2.00	22.7 0.89	17.5 0.69	87 3.43	63 2.48	67 2.64

Before use, please consult our recommendation regarding selection and installation or consult ASME B40.100

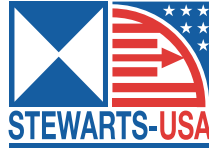


**STEWARTS-USA**

6786 Tipperary  
Houston, TX 77061 U.S.A.  
713-643-1022  
713-643-2855 Fax  
800-901-1316

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# Stainless Steel Case Glycerin Filled Brass Internal Utility Gauges



- 1.5" Model - 13B (1/8 - 1/4" NPT)
- 2" Model - 32B (1/8 - 1/4" NPT)
- 2.5" Model - 23B (1/4" NPT)

**CASE**  
Stainless Steel Case.  
Stainless Steel Crimped Ring

**INTERNALS and WETTED PARTS**  
Brass Socket  
Bronze Tube  
Brass Movement

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

**SCALE**  
Triple Scale  
PSI / BAR / KPA

**MOUNTING TYPES**  
**No Code:** Bottom Connection  
**CB:** Center Back Connection  
**C:** C-Clamp Fixing for Panel Mounting  
**FP:** Front Flange for Panel Mounting



**Model: 13B-V30**  
To order other models  
by part number, see below

**RANGE SELECTION**

Range Code	Range (psi)	Range Code	Range (psi)
V30	30"Hg - 0 Vacuum	300	0-300
R315	Receiver 3-15	400	0-400
C15	30"Hg -0- 15	600	0-600
C30	30"Hg -0- 30	800	0-800
C60	30"Hg -0- 60	1K	0-1,000
C100	30"Hg -0- 100	1500	0-1,500
C160	30"Hg -0- 160	2K	0-2,000
C200	30"Hg -0- 200	3K	0-3,000
C300	30"Hg -0- 300	5K	0-5,000
15	0-15	6K	0-6,000 <i>2.5" (Model 23B) only this range</i>
30	0-30	10K	0-10,000 <i>2.5" (Model 23B) only this range</i>
60	0-60		
100	0-100		
160	0-160		
200	0-200		

**NPT Thread Size Code**

1.5" (Model 13B) 1/8" NPT is standard. (Add -1/4 code for 1/4 inch NPT)  
2" (Model 32B) 1/4" NPT is standard. (Add -1/8 code for 1/8 inch NPT)

**HOW TO ORDER BY PART NUMBER**

- 1 Model Number (13B, 32B, or 23B)
- 2 Choose Pressure Range (code)
- 3 Choose Mounting Type (code)
- 4 NPT Thread Size Code (see table)

(Note: These models come pre-filled with Glycerin only)

**FOR EXAMPLE: 13B-V30**

1.5 inch, Stainless Steel Case, Brass Internals  
Vacuum 30"Hg - 0  
Standard Bottom Connection, 1/8" NPT  
Glycerin Filled (Standard) - No Fill code needed

1-Model	2-Range Code	3-Mounting Type	4-Thread Size
13B	V30		

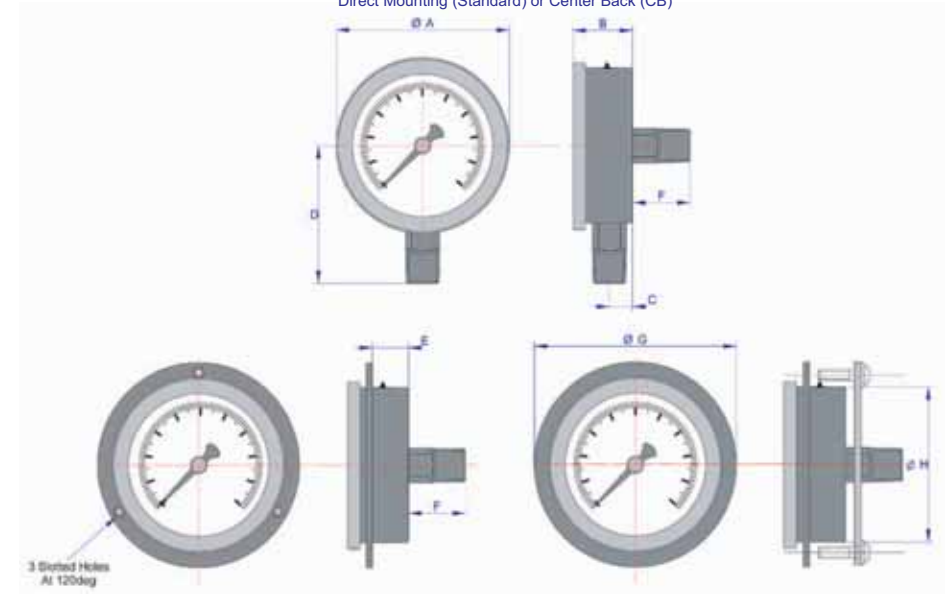
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# Stainless Steel Case Glycerin Filled Brass Internal Utility Gauges

- 1.5" Model-13B (1/8 - 1/4"NPT)
- 2" Model-32B (1/8 - 1/4"NPT)
- 2.5" Model-23B (1/4"NPT)

Direct Mounting (Standard) or Center Back (CB)



Front Flange Panel Mounting (FP)

Clamp Fixing Panel Mounting (C)

	A Dims	B	C	D	E	F	G	H	Cut Out
(13B) 38mm 1.5in	45.5 1.79	25.5 1.00	9 0.35	37.5 1.48	18.5 0.73	14 0.55	61.5 2.42	42.5 1.63	44.5 1.75
(32B) 50mm 2in	56 2.20	29 1.14	10 0.39	45.5 1.79	22 0.87	23.5 0.93	73 2.83	53 2.03	55 2.17
(23B) 63mm 2.5in	66.5 2.62	29 1.14	10 0.39	51 2.00	22.7 0.89	23.5 0.93	87 3.43	65 2.48	67 2.64

Before use please consult our recommendation regarding selection and installation or consult ASME B40.100



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6786 Tipperary  
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# Heavy Duty, Brass Internal Gauges

2 1/2" Model- 20B (20BV) 1/4"NPT (BV=VibraGauge® option)

4" Models-40B (40BV) 1/4"NPT & 41B (41BV) 1/2"NPT

6" Models-60B (60BV) 1/4"NPT & 61B (61BV) 1/2"NPT



Dry, Liquid Fillable or Pre-Filled. **VibraGauge®** Option also available  
**VibraGauge®** for Dampening of vibration & pulsation without liquid filling.

Case Relief Grommet.  
 White Aluminium Dial, Black Figures.  
 Black Aluminium Pointer (Adjustable on 4" & 6").  
 Brass / Bronze Wetted Parts.  
**AISI 316 Stainless Steel Case & Bayonet Ring (standard).**  
 Orifice Restrictor Screw (removable).

**ACCURACY**  
 +/- 1/2% Full Scale (ASME B40.1 Grade 2A) on 4" & 6".  
 +/- 1% Full Scale (ASME B40.1 Grade 1A) on 2.1/2".

**LENS**  
 Laminated Safety Glass, removable / replaceable - 4mm (0.16") thick.

**MOUNTING TYPES & CASE TYPES**  
**No Code:** Bottom Connection (standard).  
**LB:** Lower-Back Connection.  
**FP:** Front Flange for Panel Mounting.  
**C:** C-Clamp Fixing for Panel Mounting.  
**R:** Rear Flange for Wall Mounting.



Model Shown: 41B-6K  
 To order other models  
 by part no, See Below.

### PRESSURE RANGE CODES

Range Code	Range (psi)	Range Code	Range (psi)
V30	30"HG-0Vacuum	300	0-300
R315	Receiver 3-15	400	0-400
C15	30"HG-0-15	600	0-600
C30	30"HG-0-30	800	0-800
C60	30"HG-0-60	1K	0-1,000
C100	30"HG-0-100	1500	0-1,500
C160	30"HG-0-160	2K	0-2,000
C200	30"HG-0-200	3K	0-3,000
C300	30"HG-0-300	4K	0-4,000
15	0-15	5K	0-5,000
30	0-30	6K	0-6,000
60	0-60		
100	0-100		
160	0-160		
200	0-200		

**SPECIAL ADDER CODES**  
 = -B psi / Bar scale  
 = -K psi / kPa scale  
 = KGCM2 psi / KG CM<sup>2</sup>

### HOW TO ORDER BY PART NO.

- 1 Model number selected. (VibraGauge® option: add V to model).
- 2 Choose **Pressure Range** (code).
- 3 Choose **Mounting Type** (code).
- 4 If Special Adder Codes are needed add code or (description).
- 5 Liquid Filling, if desired **Gf=Glycerin, Sf=Silicone, Ff=Fluorolube**.

### FOR EXAMPLE (AS SHOWN) 41B-6K

4inch Fillable Stainless Steel Case / Brass wetted.  
 1/2inch NPT.  
 Bottom Connection.  
 0-6,000 psi.

1-Model	2-Range Code	3-Mounting Type	4-Special Adder Codes	5-Filling
41B	6K	None	None	None

We manufacture a wide range of instruments to customer's special requirements  
 We shall be pleased to discuss and advise on your specifications.

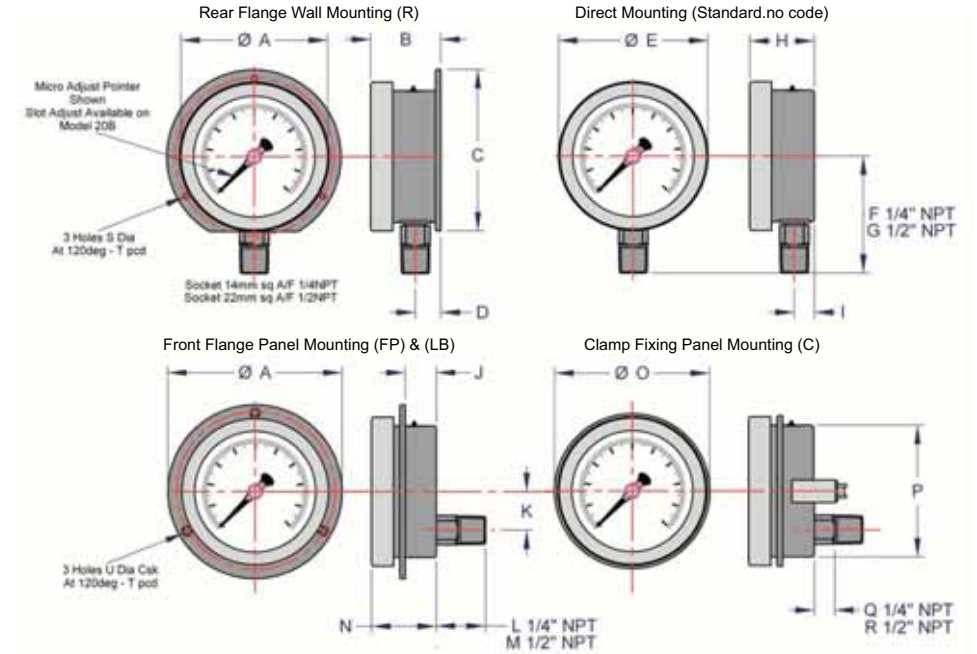
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# Heavy Duty, Brass Internal Gauges

2 1/2" Model- 20B (20BV) 1/4"NPT (BV=VibraGauge® option)

4" Models- 40B (40BV) 1/4"NPT & 41B (41BV) 1/2"NPT (Non-Fillable Case = \*\*44B & \*44BV or \*\*45B & \*\*45BV)

6" Models- 60B (60BV) 1/4"NPT & 61B (61BV) 1/2"NPT (Non-Fillable Case = \*\*62B & \*62BV or \*\*63B & \*\*63BV)



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	Cut Out
(20B) 63mm 2.5in	85	39	78.5	11.5	68.5	58	-	31	9.5	21.5	18	29	-	37	67	62	13	-	3.8	75	3.5	66
	3.35	1.54	3.09	0.45	2.70	2.28		1.22	0.37	0.85	0.71	1.14		1.46	2.64	2.44	0.51		0.15	2.95	0.14	2.60
(40B / 41B) 100mm 4in	132	51	121	17.5	112	83	88	48.5	15	24.5	32	34	39	48.5	110	99	18	18	6	118	6	106
	5.2	1.99	4.76	0.69	4.41	3.27	3.46	1.91	0.59	0.96	1.26	1.34	1.54	1.91	4.33	3.90	0.71	0.71	0.24	4.65	0.24	4.17
(60B / 61B) 160mm 6in	196	51	184	17.5	162	109	114	48.5	15	24.5	32	34	39	48.5	172	148	18	18	5.8	178	5.8	153
	7.72	1.99	7.84	0.69	6.38	4.29	4.49	1.91	0.59	0.96	1.26	1.34	1.54	1.91	6.77	5.83	0.71	0.71	0.23	7.01	0.23	6.02

Warning : Before use please consult our recommendations regarding selection and installation or consult ASME B40.100.



**STEWARTS - USA**  
 6786 Tipperary  
 HOUSTON, TX 77061 USA  
 Phone. 713-643-1022  
 Fax. 713-643-2855  
 Toll Free. 1-800-901-1316  
 Web. [stewartsusa.com](http://stewartsusa.com)

# Heavy Duty, All Stainless Steel Gauges

**2 1/2" Model- 20S (20SV)** 1/4"NPT (SV=VibraGauge® option)  
**4" Models-40S (40SV)** 1/4"NPT & **41S (41SV)** 1/2"NPT  
**6" Models-60S (60SV)** 1/4"NPT & **61S (61SV)** 1/2"NPT



Dry, Liquid Fillable or Pre-Filled. **VibraGauge®** Option also available  
**VibraGauge®** for Dampening of vibration & pulsation without liquid filling.

Case Relief Grommet.  
 White Aluminium Dial, Black Figures.  
 Black Aluminium Pointer (Adjustable on 4" & 6").  
 AISI 316 Stainless Steel Wetted Parts.  
**AISI 316 Stainless Steel Case & Bayonet Ring (standard).**  
 Orifice Restrictor Screw (removable).

**ACCURACY**  
 0-10,000 psi 0.5% of Span on 4" & 6" (1.0% on 2-1/2")  
 15 & 20K psi 1.0% of Span on 4" & 6" (1.5% on 2-1/2")  
 30K psi & up 1.5% of Span

**LENS**  
 Laminated Safety Glass, removable / replaceable - 4mm (0.16") thick.

### MOUNTING TYPES & CASE TYPES

**No Code:** Bottom Connection.  
**LB:** Lower-Back Connection.  
**CB:** Center-Back, Special, N/A on 2.1/2"  
**FP:** Front Flange for Panel Mounting.  
**C:** C-Clamp Fixing for Panel Mounting. (Not Available on Solid Front Model)  
**R:** Rear Flange for Wall Mounting.  
**S:** Solid Front / Blow-out Back (Safety Case).

**PRESSURE RANGE CODES** (up to 60,000 psi available on 6 inch Solid Front / Blow-out Back Case)

Range Code	Range (psi)	Range Code	Range (psi)
V30	30"HG-0Vacuum	300	0-300
R315	Receiver 3-15	400	0-400
C15	30"HG-0-15	600	0-600
C30	30"HG-0-30	800	0-800
C60	30"HG-0-60	1K	0-1,000
C100	30"HG-0-100	1500	0-1,500
C160	30"HG-0-160	2K	0-2,000
C200	30"HG-0-200	3K	0-3,000
C300	30"HG-0-300	4K	0-4,000
15	0-15	5K	0-5,000
30	0-30	6K	0-6,000
60	0-60	10K	0-10,000
100	0-100	15K	0-15,000
160	0-160	20K	0-20,000
200	0-200	30K	0-30,000
		35K	0-35,000

### HIGH PRESSURE CONNECTIONS AVAILABLE

20K =1/4MPF(Female) 1/4MPM(Male) 9/16MMP(Male)  
 30K =1/4HPF(Female) 1/4HPM(Male) 9/16HPM(Male)  
 35K =1/4HPF(Female) 1/4HPM(Male) 9/16HPM(Male)

### SPECIAL ADDER CODES

psi / Bar scale = -B  
 psi / kPa scale = -K  
 Monel wetted parts = -M  
 Safety Zone Reflective Glow = -G  
 Cleaned for Oxygen Service = -O

**Note:** On Model 20S Max Pressure = 20K, High Pressure Connection Required= 1/4MPM(Male)

### HOW TO ORDER BY PART NO.

- Model number selected. (VibraGauge® option: add V to model).
- Choose **Pressure Range** (code).
- Choose **Mounting Type** (code).
- If Special Adder Codes are needed add code or (description).
- Liquid Filling, if desired **Gf=Glycerin, SF=Silicone, FF=Fluorolube**.

### FOR EXAMPLE (AS SHOWN) 41S-15K

4inch Fillable Stainless Steel,  
 1/2inch NPT,  
 Bottom Connection.  
 0-15,000 psi.

1-Model	2-Range Code	3-Mounting Type	4-Special Adder Codes	5-Filling
41S	15K	None	None	None

We manufacture a wide range of instruments to customer's special requirements  
 We shall be pleased to discuss and advise on your specifications.

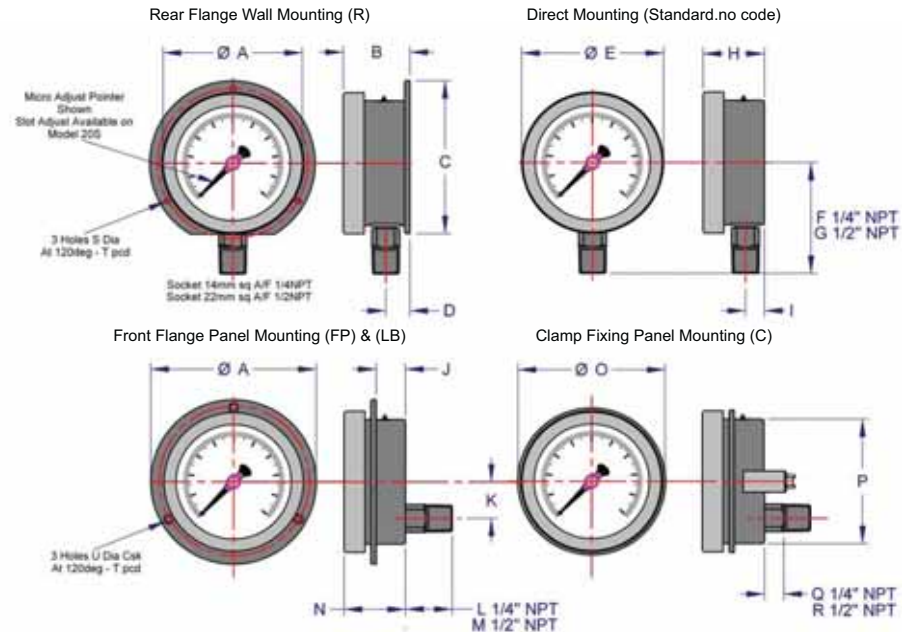
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# Heavy Duty, All Stainless Steel Gauges

**2 1/2" Model- 20S (20SV)** 1/4"NPT (SV=VibraGauge® option)  
**4" Models- 40S (40SV)** 1/4"NPT & **41S (41SV)** 1/2"NPT (Non-Fillable Case = \*\*44S & \*44SV or \*\*45S & \*\*45SV)  
**6" Models- 60S (60SV)** 1/4"NPT & **61S (61SV)** 1/2"NPT (Non-Fillable Case = \*\*62S & \*62SV or \*\*63S & \*\*63SV)



Model Shown: 41S-15K  
 To order other models by part no, See Below.



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	Cut Out
(20S) 63mm 2.5in	85	39	78.5	11.5	68.5	58	-	31	9.5	21.5	18	29	-	37	67	62	13	-	3.8	75	3.5	66
(40S / 41S) 100mm 4in	132	51	121	17.5	112	83	88	48.5	15	24.5	32	34	39	48.5	110	99	18	18	6	118	6	106
(60S / 61S) 160mm 6in	196	51	184	17.5	162	109	114	48.5	15	24.5	32	34	39	48.5	172	148	18	18	5.8	178	5.8	153
<b>SOLID FRONT SAFETY CASE (S)</b>																						
(20S) 63mm 2.5in	85	43	78.5	20.5	63.5	58	-	42	19.5	21	18	28	-	42	62	12	-	3.8	75	3.5	66	
(40S / 41S) 100mm 4in	132	65	121	30	112	83	88	65	29	41	34	37	42	67	99	21	21	6	118	6	106	
(60S / 61S) 160mm 6in	196	66	184	30	162	109	114	65	29	41	34	37	42	92	148	21	21	5.8	178	5.8	155	

Gas and Steam in excess of 400 PSI (25 Bar) pressure can represent danger if there is a rupture in the Bourdon Tube measuring this gas. To minimize the danger, gauges in this application should be Solid Front type, having solid front between Bourdon tube and dial, safety window and blow-out back to allow any discharge to release to the rear of gauge. Although there is not necessarily any great risk in the use of gauges for gases at pressure less than 400psi (25 Bar), a blow-out valve should be incorporated and the purchaser should have regard to the nature of the gas and the installation conditions and, if necessary, order a gauge of the **Solid Front type**. Surface mounted (rear flange) gauges should be fitted with distance pieces of not less than 3/4" (20mm) long to allow them to be mounted away from wall or panel. **VibraGauge®** dampened movement option provides twice the life of dry gauges, without liquid-filling. Eliminates pointer flutter and liquid fill lines.

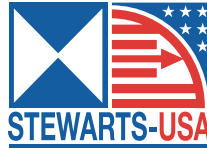
**Warning :** Before use please consult our recommendations regarding selection and installation or consult ASME B40.100.



**STEWARTS - USA**  
 6786 Tipperary  
 HOUSTON, TX 77061 USA  
 Phone. 713-643-1022  
 Fax. 713-643-2855  
 Toll Free. 1-800-901-1316  
 Web. [stewartusa.com](http://stewartusa.com)

# Safety Zone Reflective Glow Gauge

- 2.5" Model -20S (1/4" NPT)
- 4" Models-40S (1/4" NPT) & 41S (1/2" NPT)
- 6" Models-60S (1/4" NPT) & 61S (1/2" NPT)



**Glow-in-the-Dark dial and Reflective Pointer** (US Patent No.: 6,415,672 B1)  
**Dry, Liquid Fillable or Pre-Filled.** (VibraGauge® dampened movement option also available)

- >Case Relief Grommet
- >"Visual Systems" compliance (T.P.M.), with "easy to set" operating zone tabs
- >Glow Dial - Photoluminescent polycarbonate (black figures) (ambient rated to 200F)
- >Black Aluminium (Adjustable) Pointer with Retro-Reflective Enhancement
- >AISI 316 Stainless Steel Wetted Parts
- >AISI 316 Stainless Steel Case
- >AISI 316 Stainless Steel Bayonet Ring (w/ Adjustable Reflective Safety Zone Tabs)
- >Orifice Restrictor Screw for Pulsation (Removable)

**ACCURACY**  
 ± 0.5% Full Scale (ASME B40.1 Grade 2A)(±1.0% on Model 20S)

**LENS**  
 Laminated Safety Glass, removable/replaceable - 4mm thick .

- MOUNTING TYPES**
- No Code:** Bottom Connection
  - LB:** Lower Back Connection (**CB:** Center-Back, Special, N/A on 21/2")
  - FP:** Front Flange for Panel Mounting
  - C:** C-Clamp Fixing for Panel Mounting (Not Available on Solid Front Model)
  - R:** Rear Flange for Wall Mounting
  - S:** Solid Front/Blow-out Back (Safety Case)

**PRESSURE RANGE CODES** (up to 60,000 psi available on 6 inch SF/BOB case)

Range Code	Range (psi)	Range Code	Range (psi)
V30	30"Hg - 0 Vacuum	300	0-300
R315	Receiver 3-15	400	0-400
C15	30"Hg -0- 15	600	0-600
C30	30"Hg -0- 30	800	0-800
C60	30"Hg -0- 60	1K	0-1,000
C100	30"Hg -0- 100	1500	0-1,500
C160	30"Hg -0- 160	2K	0-2,000
C200	30"Hg -0- 200	3K	0-3,000
C300	30"Hg -0- 300	4K	0-4,000
15	0-15	5K	0-5,000
30	0-30	6K	0-6,000
60	0-60	10K	0-10,000
100	0-100	15K	0-15,000
160	0-160	20K	0-20,000 <b>HIGH PRESSURE CONNECTIONS REQUIRED</b>
200	0-200	30K	0-30,000 <b>HIGH PRESSURE CONNECTIONS REQUIRED</b>
		35K	0-35,000 <b>HIGH PRESSURE CONNECTIONS REQUIRED</b>



**Model Shown:** 41S-6K-G  
 To order other models by part number, see below.

**HIGH PRESSURE CONNECTIONS AVAILABLE**

- 20K = 1/4" MPF(Female) 1/4" MPM(Male) 9/16" MPM(Male)
- 30K = 1/4" HPF(Female) 1/4" HPM(Male) 9/16" HPM(Male)
- 35K = 1/4" HPF(Female) 1/4" HPM(Male) 9/16" HPM(Male)

**SPECIAL ADDER CODES**

- psi/Bar scale = -B
- psi/kPa scale = -K
- Monel wetted parts = -M

**Note:** On Model 20S Max Pressure = 20K, High Pressure Connection Required = 1/4MPM(Male)

**HOW TO ORDER BY PART NUMBER**

- 1 Model Number (code) (VibraGauge® option: add "V" to model)
- 2 Choose Pressure Range (code).
- 3 Choose Mounting Type (code).
- 4 Special Adder Codes: **G= Safety Zone Reflective Glow Gauge Option**
- 5 Liquid filling, if desired: GF=Glycerin, SF=Silicone, FF=Fluorolube or VibraGauge® dampened movement (no need for liquid filling)

**FOR EXAMPLE: 41S-6K-G**

- 4 inch Fillable, All Stainless, 1/2 inch NPT
- 0-6,000 psi
- Standard Bottom Mount
- Safety Zone Reflective Glow Gauge Option

1-Model	2-Range Code	3-Mounting Type	4-Special Adder Codes	5-Filling
41S	6K		G (Glow Gauge)	None

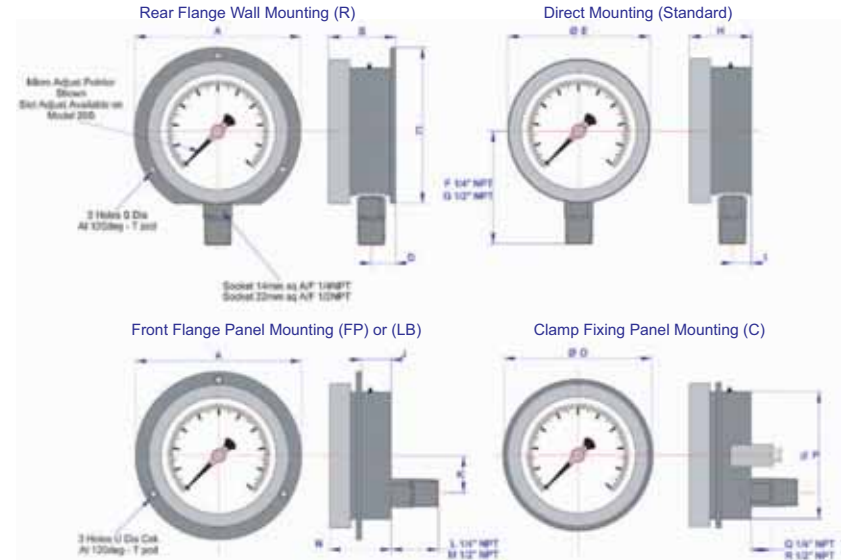
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SZRGG20050328

# Safety Zone Reflective Glow Gauge (316 SS)

- 2.5" Model -20S (1/4" NPT)
- 4" Models-40S (1/4" NPT) & 41S (1/2" NPT)
- 6" Models-60S (1/4" NPT) & 61S (1/2" NPT)



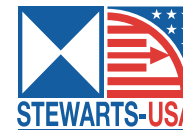
	A Dims	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	Cut Out	
(20S)	63mm 2.5in	85 3.35	39 1.54	78.5 3.09	0.81	2.50	2.28	-	31	9.5	21.5	18	29	-	37	67	62	13	-	3.8	75	3.5	66
(40S/41S)	100mm 4in	132 5.2	51 1.99	121 4.76	0.69	4.41	3.27	3.46	1.91	0.59	0.96	1.26	1.34	1.54	1.91	4.33	3.90	0.71	0.71	6	118	6	106
(60S/61S)	160mm 6in	196 7.72	51 1.99	184 7.84	0.69	6.38	4.29	4.49	1.91	0.59	0.96	1.26	1.34	1.54	1.91	6.77	5.83	0.71	0.71	0.23	178	5.8	153

**SOLID FRONT GAUGE (S)**

	A Dims	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	Cut Out	
(20S)	63mm 2.5in	85 3.35	43 1.70	78.5 3.09	0.81	2.50	2.28	-	42	19.5	21	18	28	-	42	-	62	12	-	3.8	75	3.5	66
(40S/41S)	100mm 4in	132 5.20	65 2.56	121 4.76	1.18	4.41	3.27	3.46	2.56	1.14	1.61	1.34	1.46	1.65	2.64	-	99	21	21	6	118	6	106
(60S/61S)	160mm 6in	196 7.72	66 2.60	184 7.24	1.18	6.38	4.29	4.49	2.56	1.14	1.61	1.34	1.46	1.65	3.62	-	148	21	21	5.8	178	5.8	155

Gas and Steam in excess of 25 Bar pressure can represent danger if there is a rupture in the Bourdon Tube measuring this gas. To minimize the danger, gauges in this application should be Solid Front type, having solid front between Bourdon tube and dial, safety window and blow-out back to allow any blast to release to the rear of gauge. Although there is not necessarily any great risk in the use of gauges for gases at pressure less than 25 Bar, a blow-out valve should be incorporated and the purchaser should have regard to the nature of the gas and the installation conditions and, if necessary, order a gauge of the **Solid Front type**. Surface mounted gauges should be fitted with distance pieces of not less than 3/4" (20mm) long to allow them to be mounted away from wall or panel.

Before use please consult our recommendation regarding selection and installation or consult ASME B40.100



**STEWARTS-USA**  
 6786 Tipperary  
 Houston, TX 77061 U.S.A.  
 713-643-1022  
 713-643-2855 Fax  
 800-901-1316

www.stewartsusa.com



# Utility Gauges

2.5" Model-21S 1/4"NPT

4" Models-42S 1/4"NPT & 43S 1/2"NPT



## AISI 316 STAINLESS STEEL CASE FILLABLE 1/4 / 1/2 inch NPT

AISI 316 Crimped on Bezel  
Blow-Out Relief.  
Polycarbonate Window.  
White Aluminium Dial. (Black Printing)  
Black Aluminium Pointer.  
Stainless Steel Movement.  
AISI 316 Stainless Steel Wetted Parts.  
Pulsation Restrictor.

**ACCURACY**  
ASME B40.1 Grade A 2-1-2%.

**RANGE**  
As Detailed Below.

**MOUNTING TYPES**  
Standard Direct Mounted (Bottom Vertical).  
CB: Center Back Connection.  
LB: Lower Back Connection.  
FP: Front Flange for Panel Mounting.  
CP: C-Clamp Fixing for Panel Mounting.  
R: Rear Flange for Wall Mounting.



Model: 42S-6K  
To order other models  
by part no, See Below.

### RANGE SELECTION

Range Code	Range (psi)	Range Code	Range (psi)
V30	VAC 0-30	160	0-160
R315	REC 3-15	200	0-200
C15	COMP 30+15	300	0-300
C30	COMP 30+30	400	0-400
C60	COMP 30+60	600	0-600
C100	COMP 30+100	800	0-800
C160	COMP 30+160	1K	0-1,000
C200	COMP 30+200	1500	0-1,500
C300	COMP 30+300	2K	0-2,000
15	0-15	3K	0-3,000
30	0-30	5K	0-5,000
60	0-60	6K	0-6,000
100	0-100	10K	0-10,000

Additional Code Suffix for dual scale ranges (B = BAR/PSI) (K = KPA/PSI) (Kg Cm<sup>2</sup>) (KgCm<sup>2</sup> = KgCm<sup>2</sup> / PSI)

### HOW TO ORDER BY PART NO.

- 1 Model No.
- 2 Choose Pressure Range (code).
- 3 Choose Mounting Type.
- 4 If special requirements are needed add description.

### FOR EXAMPLE (AS SHOWN) 42S-6K-CB

4inch Utility Gauge 1/4inch NPT.  
0-6,000 psi.  
Center Back Connection.  
No Non Standard Requirements.

Model	Dial Range Code	Mounting Type	Filling Type	Non Standard Requirements
42S	6K	CB	None	None

We manufacture a wide range of instruments to customer's special requirements  
We shall be pleased to discuss and advise on your specifications.

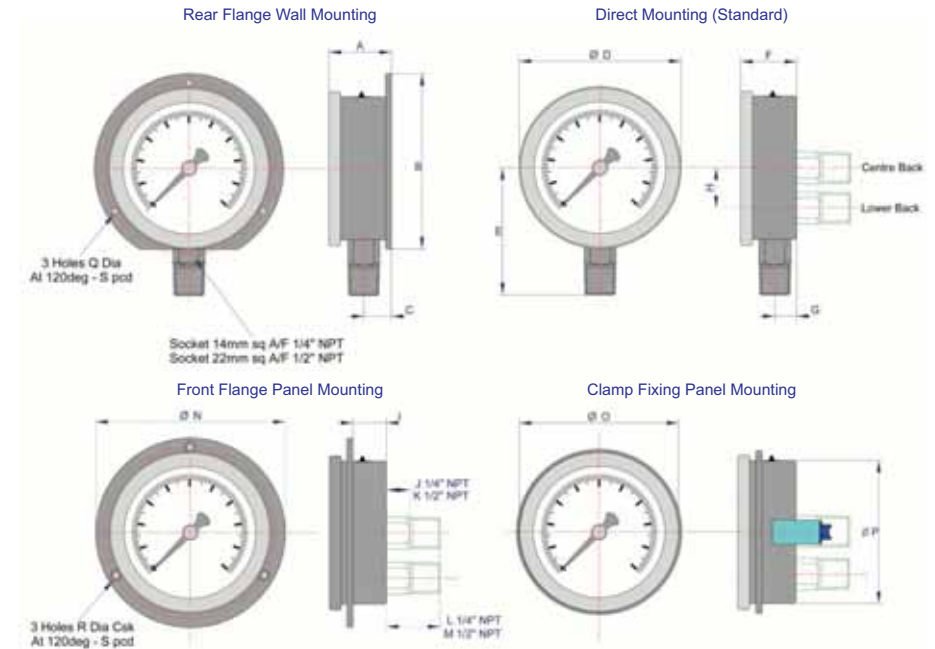
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# Utility Gauges

2.5" Model-21S 1/4"NPT

4" Models-42S 1/4"NPT & 43S 1/2"NPT



Dim's	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	Cut Out
63mm 2.5in				67.3 2.65	56 2.20	30.5 1.20	10.6 0.42	18 0.71	19.5 0.77					85.2 3.35	67 2.64	62 2.44	3.8 0.15	3.8 0.15	75 2.95	66 2.60
100mm 4in				109 4.29	78.5 2.97	33.5 1.32	0.82 12.2	18 0.71	20.8 0.82					132.5 5.21	110 4.33	98.8 3.89	6 0.24	6 0.24	118 4.65	106 4.17

Warning : Before use please consult our recommendation regarding selection and installation.  
Copies available on request.



**STEWARTS-USA, LLC**  
6786 Tipperary  
HOUSTON, TX 77061  
Phone. 713-643-1022  
Fax. 713-643-2855  
Toll Free. 1-800-901-1316



# Heavy Duty, All Stainless Steel Gauges 2" Model-30S



## Dry, Liquid Fillable or Pre-Filled.

Case Relief, Grommet.  
White Aluminium Dial, Black figures.  
Black Aluminium Pointer.  
AISI 316 Stainless Steel Wetted Parts.  
**AISI 316 Stainless Steel Case & Bayonet Ring (Standard).**  
Orifice Restrictor Screw for Pulsation (Removable).

**ACCURACY**  
±-1% Full Scale (AMSE B40.1 Grade 1A).

**LENS**  
Laminated Safety Glass, removable / replaceable -4mm thick.

**MOUNTING TYPES**  
**No Code:** Bottom Connection (Standard).  
**CB:** Center Back Connection.  
**FP:** Front Flange for Panel Mounting.  
**C:** C-Clamp Fixing for Panel Mounting.



Model Shown: 30S - 60  
To order other models  
by part no. See Below.

## PRESSURE RANGE CODES

Range Code	Range (psi)	Range Code	Range (psi)
V30	30" Hg -0 Vacuum	300	0-300
R315	Receiver 3-15	400	0-400
C15	30" Hg-0-15	600	0-600
C30	30" Hg-0-30	800	0-800
C60	30" Hg-0-60	1K	0-1,000
C100	30" Hg-0-100	1500	0-1,500
C160	30" Hg-0-160	2K	0-2,000
C200	30" Hg-0-200	3K	0-3,000
C300	30" Hg-0-300	4K	0-4,000
15	0-15	5K	0-5,000
30	0-30	6K	0-6,000
60	0-60	10K	0-10,000
100	0-100		
160	0-160		
200	0-200		

Special Adder Codes for dual scale ranges: (B = psi/Bar) (K = psi/kPa) (KGC2 = psi/Kg CM<sup>3</sup>)

## HOW TO ORDER BY PART NUMBER.

- 1 **Model Number:** (30S)
- 2 Choose **Pressure Range** (code).
- 3 Choose **Mounting Type** (code)
- 4 If **Special Adder Codes** are needed, add code or (description).
- 5 Liquid filling, if desired: **GF=Glycerin**, **SF=Silicone**, **FF=Fluorolube**. **Note: Add 1/8 if you require 30S with 1/8" NPT.**

## FOR EXAMPLE: 30S-60

2 inch Fillable 316 Stainless Steel Gauge, 1/4 inch NPT.  
0-60 psi range.  
Standard Bottom Mount.

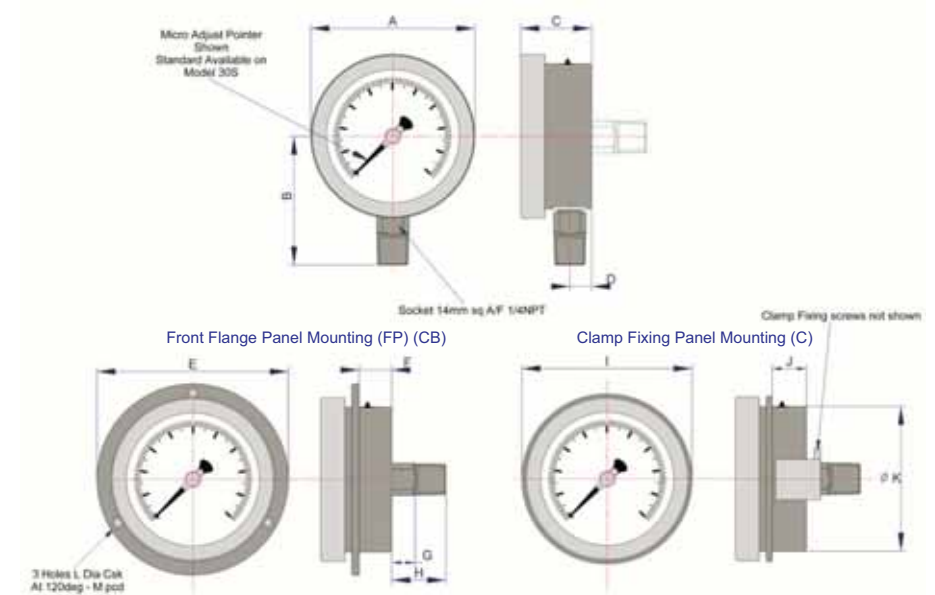
1-Model	2-Range Code	3-Mounting Type	4-Special Adder Code	5-Filling Type
30S	60	None	None	None

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We shall be pleased to discuss and advise on your specifications.

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# Heavy Duty, All Stainless Steel Gauges 2" Model-30S

## Direct Mounting (Standard No Code)



A Dims	B	C	D	E	F	G	H	I	J	K	L	M	Cut Out
55.4 2.18	50 1.97	31.5 1.24	10.8 0.42	77 3.03	15.8 0.62	6.7 0.26	22.7 0.89	55.9 2.20	18 0.71	49 1.93	3.8 0.15	65 2.56	53 2.09

50.8mm  
2in

Warning : Before use please consult our recommendation regarding selection and installation or consult ASME B40.1.



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6786 Tipperary  
HOUSTON, TX 77061 USA  
Phone. 713-643-1022  
Fax. 713-643-2855  
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Web. [stewartsusa.com](http://stewartsusa.com)

# Stainless Steel Case Brass Internals Gauges Non - Fillable



4" Models-44B 1/4"NPT & 45B 1/2"NPT  
6" Models-62B 1/4"NPT & 63B 1/2"NPT

## AISI 316 STAINLESS STEEL CASE BRASS INTERNALS NON-FILLABLE 1/4 / 1/2 inch NPT

Blow-Out Relief (Back).  
Laminated Safety Glass Window.  
White Aluminium Dial (Black Printing).  
Black Aluminium (Adjustable) Pointer.  
Brass / Bronze Wetted Parts.  
AISI 316 Stainless Steel Case.  
AISI 316 Stainless Steel Bayonet Ring.  
Pulsation Restrictor.

### ACCURACY

1/2 of 1% Full scale.  
Low Pressure 1 1/2% Full Scale.

### RANGE

As Detailed Below.

### MOUNTING TYPES

Standard Direct Mounted (Bottom Vertical).

LB: Lower Back Connection.  
FP: Front Flange for Panel Mounting.  
C: C-Clamp Fixing for Panel Mounting.  
R: Rear Flange for Wall Mounting.



Model Shown: 45B-100"WC  
To order other models  
by part no. See Below.

### RANGE SELECTION

Range Code	Range (psi)	Range Code	Range (psi)
V30	VAC 0-30	300	0-300
R315	REC 3-15	400	0-400
C15	COMP 30+15	600	0-600
C30	COMP 30+30	800	0-800
C60	COMP 30+60	1K	0-1,000
C100	COMP 30+100	1500	0-1,500
C160	COMP 30+160	2K	0-2,000
C200	COMP 30+200	3K	0-3,000
C300	COMP 30+300	4K	0-4,000
15	0-15	5K	0-5,000
30	0-30	6K	0-6,000
60	0-60		
100	0-100		
160	0-160		
200	0-200		

Additional Code Suffix for dual scale ranges (B = BAR/PSI) (K = KPA/PSI) (KgCm<sup>2</sup> = KgCm<sup>2</sup> / PSI)

### HOW TO ORDER BY PART NO.

- 1 Model No.
- 2 Choose Pressure Range (code).
- 3 Choose Mounting Type.
- 4 If special requirements are needed add description.

### FOR EXAMPLE (AS SHOWN) 45B-100"WC-C

- 4inch Non Fillable Stainless Steel / Brass 1/2inch NPT.  
0-100".  
C-Clamp Fixing for Panel Mounting.  
No Non Standard Requirements.

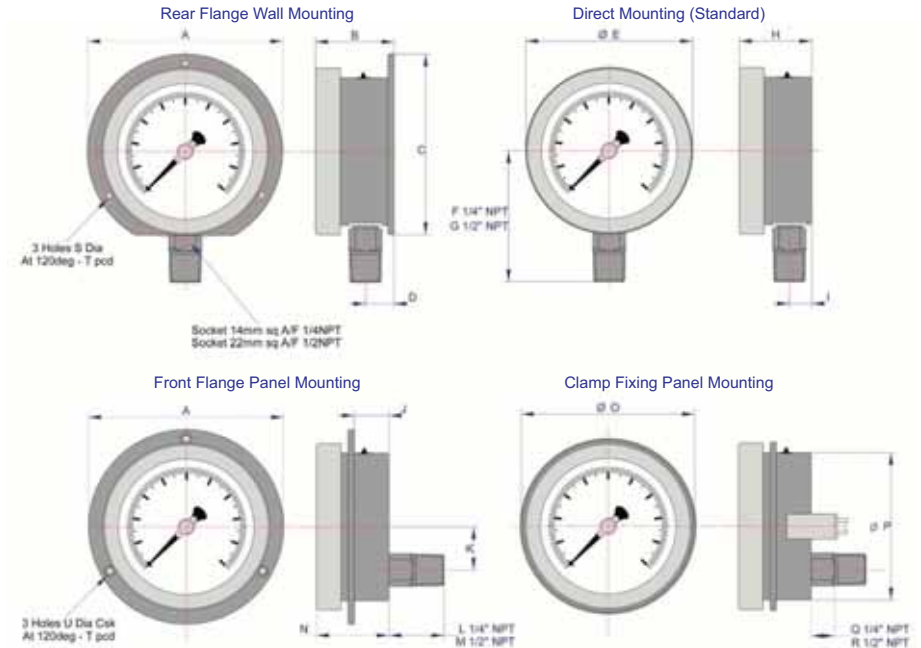
Model	Dial Range Code	Mounting Type	Filling Type	Non Standard Requirements
45B	100"WC	C	None	None

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# Stainless Steel Case Brass Internals Gauges Non - Fillable

4" Models-44B 1/4"NPT & 45B 1/2"NPT  
6" Models-62B 1/4"NPT & 63B 1/2"NPT



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	Cut Out
100mm 4in	132 5.2	51 1.99	121 4.76	17.5 0.69	112 4.41	83 3.27	88 3.46	48.5 1.91	15 0.59	24.5 0.96	32 1.26	34 1.34	39 1.54	48.5 1.91	110 4.33	99 3.90	18 0.71	18 0.71	6 0.24	6 0.24	118 4.65	106 4.17
160mm 6in	196 7.72	51 1.99	184 7.84	17.5 0.69	162 6.38	109 4.29	114 4.49	48.5 1.91	15 0.59	24.5 0.96	32 1.26	34 1.34	39 1.54	48.5 1.91	172 6.77	148 5.83	18 0.71	18 0.71	5.8 .23	5.8 .23	178 7.01	153 6.02

Warning : Before use please consult our recommendation regarding selection and installation.  
Copies available on request.



**STEWARTS-USA, LLC**  
6786 Tipperary  
HOUSTON, TX 77061  
Phone. 713-643-1022  
Fax. 713-643-2855  
Toll Free. 1-800-901-1316

# Stainless Steel Case Brass Internals Test Gauges Non - Fillable



4" Models-44BT 1/4"NPT & 45BT 1/2"NPT  
6" Models-62BT 1/4"NPT & 63BT 1/2"NPT

## AISI 316 STAINLESS STEEL CASE BRASS INTERNALS NON-FILLABLE 1/4 / 1/2 inch NPT

Blow-Out Relief (Back).  
Laminated Safety Glass Window.  
Mirror Dial (Black Printing).  
Black Aluminium (Knife Edge) Pointer.  
Brass / Bronze Wetted Parts.  
AISI 316 Stainless Steel Case.  
AISI 316 Stainless Steel Bayonet Ring.

**ACCURACY**  
1/4 of 1% (6,000psi & below)

**RANGE**  
As Detailed Below.

**MOUNTING TYPES**  
Standard Direct Mounted (Bottom Vertical).  
LB: Lower Back Connection.  
FP: Front Flange for Panel Mounting.  
C: C-Clamp Fixing for Panel Mounting.  
R: Rear Flange for Wall Mounting.



Model Shown: 45BT-10  
To order other models  
by part no. See Below.

RANGE SELECTION		Range Code	Range (psi)
V30	VAC 0-30	300	0-300
R315	REC 3-15	400	0-400
C15	COMP 30+15	600	0-600
C30	COMP 30+30	800	0-800
C60	COMP 30+60	1K	0-1,000
C100	COMP 30+100	1500	0-1,500
C160	COMP 30+160	2K	0-2,000
C200	COMP 30+200	3K	0-3,000
C300	COMP 30+300	4K	0-4,000
15	0-15	5K	0-5,000
30	0-30	6K	0-6,000
60	0-60		
100	0-100		
160	0-160		
200	0-200		

Additional Code Suffix for dual scale ranges (B = BAR/PSI) (K = KPA/PSI) (KgCm<sup>2</sup> = KgCm<sup>2</sup> / PSI)

### HOW TO ORDER BY PART NO.

- 1 Model No.
- 2 Choose Pressure Range (code).
- 3 Choose Mounting Type.
- 4 If special requirements are needed add description.

### FOR EXAMPLE (AS SHOWN) 45BT-10-C

4inch Non-Fillable Stainless Steel / Brass Test Gauge 1/2inch NPT.  
0-10 psi.  
C-Clamp Fixing for Panel Mounting.  
No Non Standard Requirements.

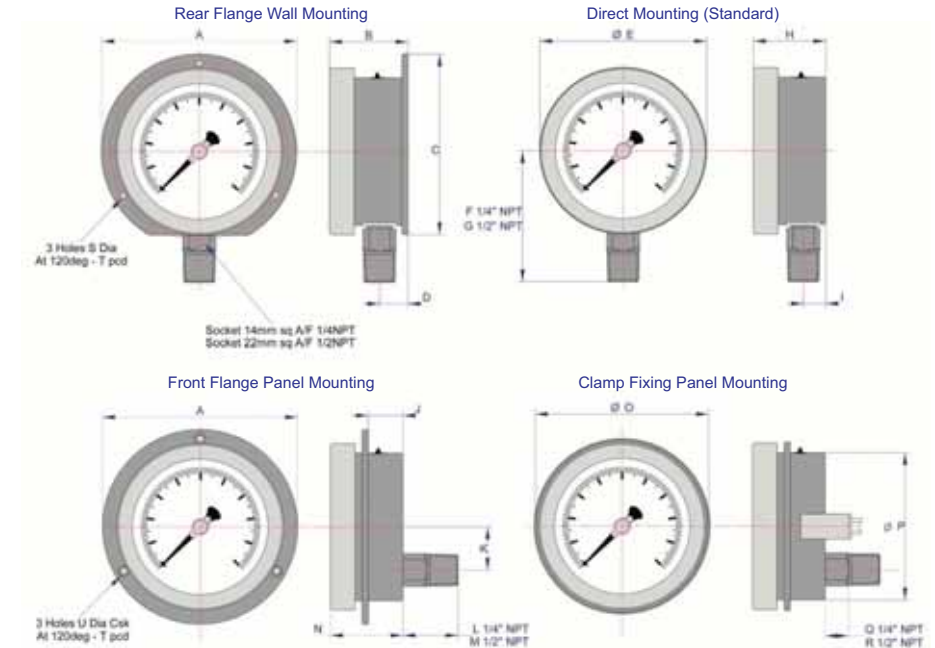
Model	Dial Range Code	Mounting Type	Filling Type	Non Standard Requirements
45BT	10	C	None	None

We manufacture a wide range of instruments to customer's special requirements  
We shall be pleased to discuss and advise on your specifications.

Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing.  
Engineering modifications may take place without prior notice.

# Stainless Steel Case Brass Internals Test Gauges Non - Fillable

4" Models-44BT 1/4"NPT & 45BT 1/2"NPT  
6" Models-62BT 1/4"NPT & 63BT 1/2"NPT



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	Cut Out
100mm 4in	132 5.2	51 1.99	121 4.76	17.5 0.69	112 4.41	83 3.27	88 3.46	48.5 1.91	15 0.59	24.5 0.96	32 1.26	34 1.34	39 1.54	48.5 1.91	110 4.33	99 3.90	18 0.71	18 0.71	6 0.24	6 0.24	118 4.65	106 4.17
160mm 6in	196 7.72	51 1.99	184 7.84	17.5 0.69	162 6.38	109 4.29	114 4.49	48.5 1.91	15 0.59	24.5 0.96	32 1.26	34 1.34	39 1.54	48.5 1.91	172 6.77	148 5.83	18 0.71	18 0.71	5.8 .23	5.8 .23	178 7.01	153 6.02

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6786 Tipperary  
HOUSTON, TX 77061  
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Fax. 713-643-2855  
Toll Free. 1-800-901-1316



# Stainless Steel Case Gauges Non - Fillable



4" Models-44S 1/4"NPT & 45S 1/2"NPT  
 6" Models-62S 1/4"NPT & 63S 1/2"NPT

## AISI 316 STAINLESS STEEL CASE NON FILLABLE 1/4 / 1/2 inch NPT

Blow-Out Relief (Back).  
 Laminated Safety Glass Window.  
 White Aluminium Dial (Black Printing).  
 Black Aluminium (Adjustable) Pointer.  
 AISI 316 Stainless Steel Wetted Parts.  
 AISI 316 Stainless Steel Case.  
 AISI 316 Stainless Steel Bayonet Ring.  
 Pulsation Restrictor.

### ACCURACY

1/2 of 1% Full scale.  
 Over 10,000 psi 1%.  
 Low Pressure 1 1/2% Full Scale.

### RANGE

As Detailed Below.

### MOUNTING TYPES

Standard Direct Mounted (Bottom Vertical).

LB: Lower Back Connection.  
 FP: Front Flange for Panel Mounting.  
 C: C-Clamp Fixing for Panel Mounting.  
 R: Rear Flange for Wall Mounting.



Model Shown: 45S-100"WC  
 To order other models by part no, See Below.

### RANGE SELECTION

Range Code	Range (psi)	Range Code	Range (psi)
V30	VAC 0-30	300	0-300
R315	REC 3-15	400	0-400
C15	COMP 30+15	600	0-600
C30	COMP 30+30	800	0-800
C60	COMP 30+60	1K	0-1,000
C100	COMP 30+100	1500	0-1,500
C160	COMP 30+160	2K	0-2,000
C200	COMP 30+200	3K	0-3,000
C300	COMP 30+300	4K	0-4,000
15	0-15	5K	0-5,000
30	0-30	6K	0-6,000
60	0-60	10K	0-10,000
100	0-100	15K	0-15,000
160	0-160	20K	0-20,000 <b>HIGH PRESSURE CONNECTIONS REQD</b>
200	0-200	30K	0-30,000
		35K	0-35,000

Additional Code Suffix for dual scale ranges (B = BAR/PSI) (K = KPA/PSI) (KgCm<sup>2</sup> = KgCm<sup>2</sup> / PSI)

### HOW TO ORDER BY PART NO.

- 1 Model No.
- 2 Choose Pressure Range (code).
- 3 Choose Mounting Type.
- 4 If special requirements are needed add description.

### FOR EXAMPLE (AS SHOWN) 45S-100"WC-C

4inch Non Fillable Stainless Steel 1/2inch NPT.  
 0-100".  
 C-Clamp Fixing for Panel Mounting.  
 No Non Standard Requirements.

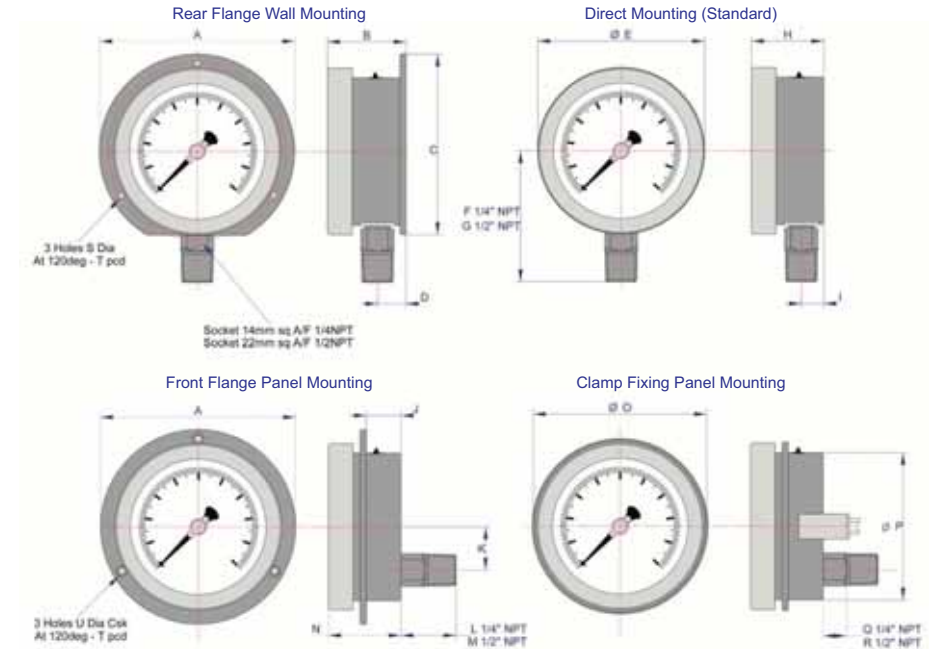
Model	Dial Range Code	Mounting Type	Filling Type	Non Standard Requirements
45S	100"WC	C	None	None

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# Stainless Steel Case Gauges Non - Fillable

4" Models-44S 1/4"NPT & 45S 1/2"NPT  
 6" Models-62S 1/4"NPT & 63S 1/2"NPT



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	Cut Out
100mm 4in	132 5.2	51 1.99	121 4.76	17.5 0.69	112 4.41	83 3.27	88 3.46	48.5 1.91	15 0.59	24.5 0.96	32 1.26	34 1.34	39 1.54	48.5 1.91	110 4.33	99 3.90	18 0.71	18 0.71	6 0.24	6 0.24	118 4.65	106 4.17
160mm 6in	196 7.72	51 1.99	184 7.84	17.5 0.69	162 6.38	109 4.29	114 4.49	48.5 1.91	15 0.59	24.5 0.96	32 1.26	34 1.34	39 1.54	48.5 1.91	172 6.77	148 5.83	18 0.71	18 0.71	5.8 .23	5.8 .23	178 7.01	153 6.02

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# Stainless Steel Case Test Gauges Non - Fillable

4" Models-44ST 1/4"NPT & 45ST 1/2"NPT  
6" Models-62ST 1/4"NPT & 63ST 1/2"NPT



## AISI 316 STAINLESS STEEL CASE NON-FILLABLE 1/4 / 1/2 inch NPT

Blow-Out Relief (Back).  
Laminated Safety Glass Window.  
Mirror Dial (Black Printing).  
Black Aluminium (Knife Edge) Pointer.  
AISI 316 Stainless Steel Wetted Parts.  
AISI 316 Stainless Steel Case.  
AISI 316 Stainless Steel Bayonet Ring.

### ACCURACY

1/4 of 1% (10,000psi & below)  
1/2 of 1% (15,000psi & over)

### RANGE

As Detailed Below.

### MOUNTING TYPES

Standard Direct Mounted (Bottom Vertical).

LB: Lower Back Connection.  
FP: Front Flange for Panel Mounting.  
C: C-Clamp Fixing for Panel Mounting.  
R: Rear Flange for Wall Mounting.



Model Shown: 45ST-10  
To order other models  
by part no, See Below.

### RANGE SELECTION

Range Code	Range (psi)	Range Code	Range (psi)
V30	VAC 0-30	300	0-300
R315	REC 3-15	400	0-400
C15	COMP 30+15	600	0-600
C30	COMP 30+30	800	0-800
C60	COMP 30+60	1K	0-1,000
C100	COMP 30+100	1500	0-1,500
C160	COMP 30+160	2K	0-2,000
C200	COMP 30+200	3K	0-3,000
C300	COMP 30+300	4K	0-4,000
15	0-15	5K	0-5,000
30	0-30	6K	0-6,000
60	0-60	10K	0-10,000
100	0-100	15K	0-15,000
160	0-160	20K	0-20,000
200	0-200	30K	0-30,000
		35K	0-35,000

Additional Code Suffix for dual scale ranges (B = BAR/PSI) (K = KPA/PSI) (KgCm<sup>2</sup> = KgCm<sup>2</sup> / PSI)

### HIGH PRESSURE CONNECTIONS AVAILABLE

20K = 1/4" MPF(Female) 1/4" MPM(Male) 9/16" MPM(Male)  
30K = 1/4" HPF(Female) 1/4" HPM(Male) 9/16" HPM(Male)  
35K = 1/4" HPF(Female) 1/4" HPM(Male) 9/16" HPM(Male)

Note:- On Model 20S Max Pressure = 20K, High Pressure Connection = 1/4" MPM(Male)

### HOW TO ORDER BY PART NO.

- 1 Model No.
- 2 Choose Pressure Range (code).
- 3 Choose Mounting Type.
- 4 If special requirements are needed add description.

### FOR EXAMPLE (AS SHOWN) 45ST-10-C

- 4inch Non-Fillable Stainless Steel Test Gauge 1/2inch NPT.  
0-10 psi.  
C-Clamp Fixing for Panel Mounting.  
No Non Standard Requirements.

Model	Dial Range Code	Mounting Type	Filling Type	Non Standard Requirements
45ST	10	C	None	None

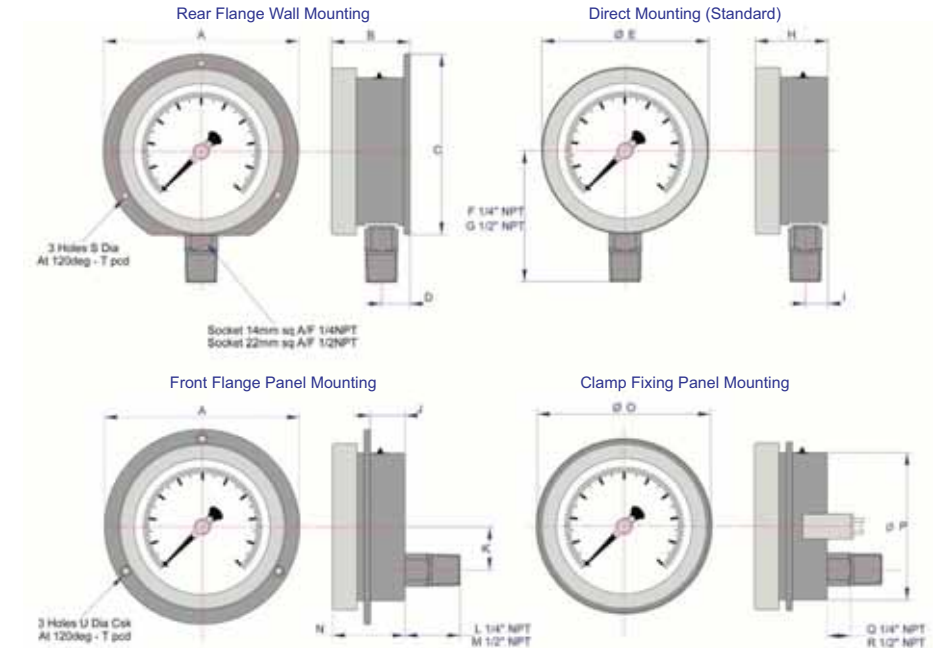
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S141103

# Stainless Steel Case Test Gauges Non - Fillable

4" Models-44ST 1/4"NPT & 45ST 1/2"NPT  
6" Models-62ST 1/4"NPT & 63ST 1/2"NPT



A Dims	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	Cut Out	
100mm 4in	132 5.2	51 1.99	121 4.76	17.5 0.69	112 4.41	83 3.27	88 3.46	48.5 1.91	15 0.59	24.5 0.96	32 1.26	34 1.34	39 1.54	48.5 1.91	110 4.33	99 3.90	18 0.71	18 0.71	6 0.24	6 0.24	118 4.65	106 4.17
160mm 6in	196 7.72	51 1.99	184 7.84	17.5 0.69	162 6.38	109 4.29	114 4.49	48.5 1.91	15 0.59	24.5 0.96	32 1.26	34 1.34	39 1.54	48.5 1.91	172 6.77	148 5.83	18 0.71	18 0.71	5.8 .23	5.8 .23	178 7.01	153 6.02

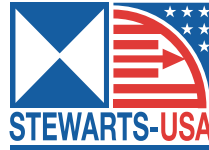
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6786 Tipperary  
HOUSTON, TX 77061  
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# Process Gauges Solid Front Safety Case

4.5" model **50S** or **50SV** (¼" NPT)  
4.5" model **51S** or **51SV** (½" NPT)



**DRY or VibraGauge® dampened movement**  
**VibraGauge® option eliminates need for liquid filling**

Use **VibraGauge®** instead of liquid-filling for pulsation or vibration<sup>1</sup>.

- \* AISI 316 Stainless Steel Stem and Socket.
- \* AISI 316 Stainless Bourdon Tube (C-Form 600 PSI and Below) (Spiral 800 PSI and Above)
- \* Threaded Fiberglass / Polycarbonate Bezel Ring.
- \* Elastometer with Integral O-Ring Seal Compensation Diaphragm.
- \* Molded Fiberglass / Phenolic Safety Case, Turret Style.
- \* Polypropylene with Reinforced Fiberglass Blow-Out Back.
- \* White Aluminum Dial, Black Figures.
- \* Black Aluminum Pointer (Adjustable).
- \* Threaded Inlet Port, restrictor screw ready.

### ACCURACY

+/- ½ % of Full Scale (Grade 2A - ASME B40.1).

### LENS

Laminated Safety Glass (Will not craze or discolor; UV resistant, Shatterproof)

### MOUNTING TYPES

Bottom Connection only (High quality "Rolled" threads, helps prevent galling)

### RANGE SELECTION (Inches of H2O ranges available, call factory)

Range Code	Range (psi)	Range Code	Range (psi)
V30	Vacuum 30" Hg - 0	200	0-200
R315	Receiver 3 - 15	300	0-300
C15	30" Hg - 0 - 15	400	0-400
C30	30" Hg - 0 - 30	600	0-600
C60	30" Hg - 0 - 60	800	0-800
C100	30" Hg - 0 - 100	1K	0-1,000
C160	30" Hg - 0 - 160	1500	0-1,500
C200	30" Hg - 0 - 200	2K	0-2,000
C300	30" Hg - 0 - 300	3K	0-3,000
15	0-15	5K	0-5,000
30	0-30	6K	0-6,000
60	0-60	10K	0-10,000
100	0-100	15K	0-15,000
160	0-160	20K	0-20,000 <b>HIGH PRESSURE CONNECTION REQUIRED</b>



**Model: 51S-1K**  
To order other models  
by part number, see below.

**DUAL-SCALE CODES:** (B = psi/Bar), (K = psi/kPa), (KGCM2 = psi/KgCm2)

**HIGH PRESSURE CONNECTION OPTION (required on 20K)**  
CODES: 1/4" HPF (Female) = 1/4HPF or 9/16" MPM (Male) = 9/16MPM

### HOW TO ORDER BY PART NUMBER:

- 1- Model # (**50S, 51S**=Dry or **50SV, 51SV**=VibraGauge® Option)
- 2- Choose Pressure Range (**code**). (Single Scale Metric Available)
- 3- Option Code(s): (Dual-Scale ?) (Monel ? = **M**) (Glow Gauge ? = **G**)

**Note:** If VibraGauge® Option, **S** becomes **SV** (example: **51S** is now **51SV**)

1- Model	2- Range Code	3- Dual-Scale Code or Option Code(s)	Filling Type
51S	1K	None	N/A

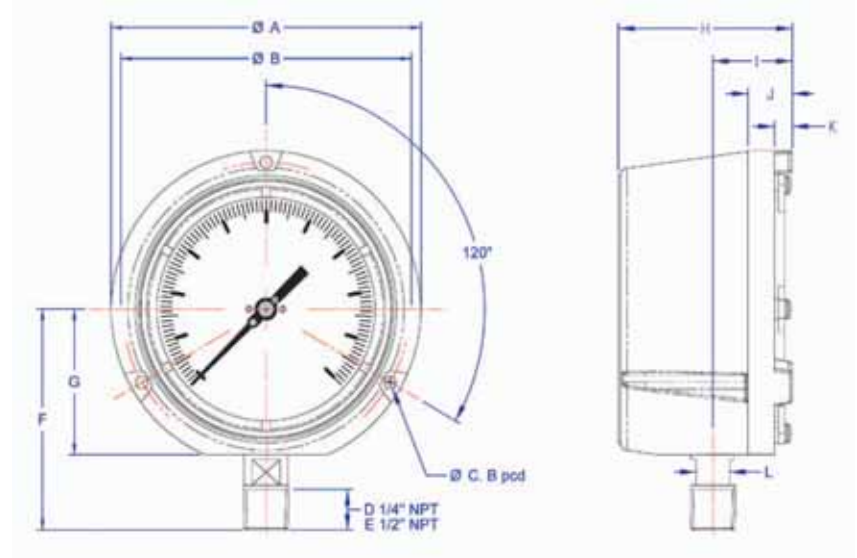
<sup>1</sup>VibraGauge® option dampens the effects of pulsation and vibration, without liquid !!

It is easier to read because there are no fill lines. Twice the life of dry gauges. No liquid = No leaks!

<sup>2</sup>Safety Zone Glow Gauge Option: Luminescent Dial, Reflective Pointer, Green Reflective Operating Zone Tabs.  
Easily see if operating conditions have become abnormal. Great for low-light conditions.

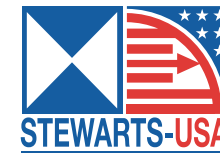
# Process Gauges Solid Front Safety Case

4.5" model - **50S** (dry) or **50SV** (VibraGauge®) (¼" NPT)  
4.5" model - **51S** (dry) or **51SV** (VibraGauge®) (½" NPT)



Dims	A	B	C	D	E	F	G	H	I	J	K	L
130 mm	148	137	6.5	16	21	103.25	68	83	38	21	8.5	16
4, 1/2 inch	5.83	5.4	0.25	0.63	0.83	4.06	2.68	3.27	1.5	0.83	0.33	0.63

Before use, please consult ASME B40.1 regarding selection and installation of pressure gauges  
Copies available from: The American Society of Mechanical Engineers  
Three Park Avenue, New York, NY 10016-5990



**STEWARTS - USA**  
6786 Tipperary  
Houston, TX 77061 USA

(713) 643-1022  
(713) 643-2855 FAX  
(800) 901-1316 Toll Free

www.stewartusa.com