

# Heavy Duty, All Stainless Steel Gauges

2½" Model - 20S (20SV) ¼"NPT (SV = VIBRAGAUGE® option)

4" Models - 40S (40SV) ¼"NPT & 41S (41SV) ½"NPT

6" Models - 60S (60SV) ¼"NPT & 61S (61SV) ½"NPT



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

- Case pressure-relief grommet (Topside on liquid-fillable models, Backside on dry models).
- White-painted aluminium dial, Black-printed figures.
- Black-anodised aluminium pointer (Micrometer adjustable is standard on 4" & 6" dial sizes).
- AISI 316 Stainless Socket & Element.
- **AISI 316 Stainless Steel Case & Bayonet Ring (standard).**
- IP CLASS = IP66. Operating temperature range = -4°F to 140°F (-20° to 60°C) without loss of accuracy.
- Orifice Restrictor Screw (standard Ø0.9mm, Ø0.4mm on request).

### ACCURACY\* (\*UnDampened, Dry)

0 - 10,000 psi = 0.5% of span on 4" & 6" (1.0% on 2½").  
15K psi = 1% of span on 4" & 6" (1.5% on 2½").  
20K psi & up = 1.5% of span (Also inches on H2O ranges).

### 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 available by special order (Not available on 20S).

**FP:** Front Flange for Panel Mounting.

**C:** C-Clamp Fixing for Panel Mounting (Not Available with Safety Case).

**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" Solid Front / Blow-out Back 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	<b>20K</b>	<b>0-20,000</b>
200	0-200	<b>30K</b>	<b>0-30,000</b>
		<b>35K</b>	<b>0-35,000</b>

Text in **Red** denotes **HIGH PRESSURE CONNECTIONS REQUIRED**



Model shown is 41S-2K  
To order other models by part no, 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)

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

### 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).

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

5/ Liquid Filling. If desired **GF**= Glycerin, **SF**=Silicone, **FF**=Fluorolube.

### FOR EXAMPLE AS SHOWN

4 inch Dial All 316 Stainless Steel, ½"NPT, Bottom Connection, 0 - 2000 psi

1-MODEL	2-RANGE CODE	3-MOUNTING TYPE	4-SPECIAL ADDER CODES	5-FILLING
41S	2K	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.

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. ⚠

# Heavy Duty, All Stainless Steel Gauges

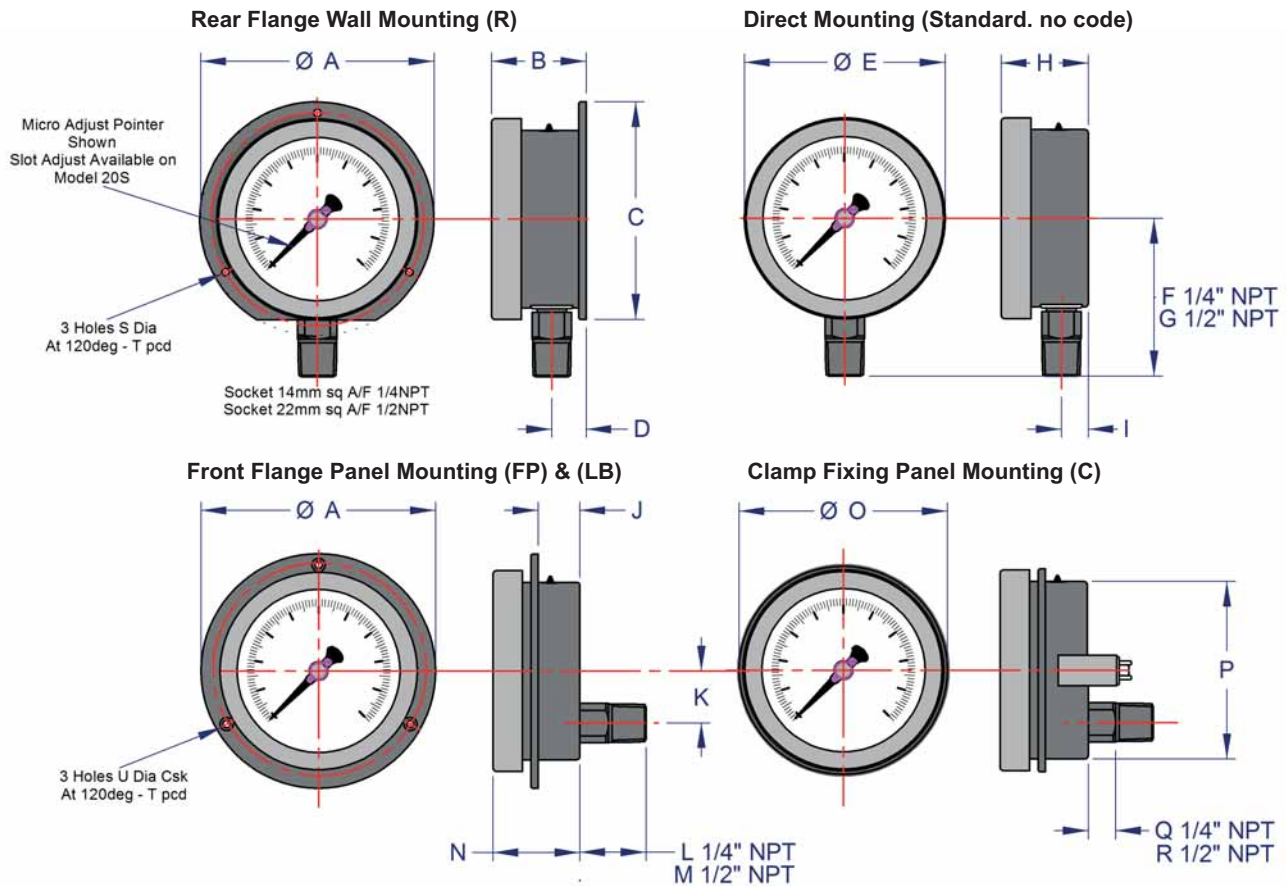
2 1/2" Model - 20S (20SV) 1/4"NPT (SV = VIBRAGAUGE® option)

4" Models - 40S (40SV) 1/4"NPT

& 41S (41SV) 1/2"NPT (or Non-Fillable Case = 44S & 44SV or 45S & 45SV)

6" Models - 60S (60SV) 1/4"NPT

& 61S (61SV) 1/2"NPT (or Non-Fillable Case = 62S & 62SV or 63S & 63SV)



**Dimension Chart (Same for VIBRAGAUGE® Option Models)**

Model	Dia.	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/2.5 IN	85	39	78.5	11.5	68.50	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
40S/41S	100mm/4 IN	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
60S/61S	160mm/6 IN	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

**Solid front safety case (S)**

20S	63mm/2.5 IN	85	42	78.5	20	68.5	58	-	42.5	20	24.5	18	30	-	42	-	62	12	-	3.8	75	3.8	66
		3.35	1.65	3.09	0.79	2.70	2.28	-	1.67	0.79	0.96	0.71	1.18	-	1.65	-	2.44	0.47	-	0.15	2.95	0.15	2.75
40S/41S	100mm/4 IN	132	65	121	30	112	83	88	65	29	41	34	37	42	67	-	99	21	21	6	118	6	106
		5.20	2.56	4.76	1.18	4.41	3.27	3.46	2.56	1.14	1.61	1.34	1.46	1.65	2.64	-	3.90	0.83	0.83	0.24	4.65	0.24	4.17
60S/61S	160mm/6 IN	196	66	184	30	162	109	114	65	29	41	34	37	42	92	-	148	21	21	5.8	178	5.8	155
		7.72	2.60	7.24	1.18	6.38	4.29	4.49	2.56	1.14	1.61	1.34	1.46	1.65	3.62	-	5.83	0.83	0.83	0.23	7.01	0.23	6.10

Gas & 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 & dial, safety window & blow-out back to allow any discharge to release to the rear of the 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 & the purchaser should have regard to the nature of the gas & the installation conditions &, if necessary, order a gauge of the Solid Front type.

**The essence of this type of gauge is safety.**

(Surface mounted rear flange gauges of the "Solid Front Type Case" 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 & liquid fill lines.

Before use please consult our recommendations regarding selection & 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)