

SPAN™ Liquid Filled Series SC-1 Gauge – 2.0”, 2.5” and 4.0”

Overview

Series SC-1 gauges offer a stainless steel case with brass internals. Gauges are available in sealed dry or liquid filled for high shock and vibration applications.

SC-1 gauges are suitable for applications with media compatible with brass wetted materials.

Benefits

- Matching sealed stainless steel cases are offered in three sizes and four configurations – bottom, center back, u-clamp, or front flange. An optional removable bayonet ring is available
- Case dimensions are popular metric sizes. Panel mounting gauges fit existing panels using most stainless steel cased gauges
- Made in the USA, series SC gauges offer a very competitive high quality option to many imported gauges

Applications

- Intended for adverse service conditions where pulsating or vibration exists (with liquid filling)
- Hydraulics and compressors
- Suitable for gaseous or liquid media that will not obstruct the pressure system
- Applications compatible with brass internals



SCU63-1
Liquid Filled Industrial Gauge



SCS63-1
Liquid Filled Industrial Gauge

Construction Data

Case	Stainless Steel
Bezel	Stainless Steel - crimped
Socket	Brass
Bourdon Tubes	Vac to 1000 PSI "C" tube, 1500 to 10,000, brass spiral tube
Pressure Connection	¼" or ½" (Others available upon request)
Lens	Acrylic
Pointer	Black aluminum
Movement	Brass
Dial	White Aluminum
Fill fluid	Glycerin
Ranges	Vacuum, compound, and pressure ranges up to 10,000 PSI

Dial Ranges and Intervals

Range PSI	Fig. Inter. PSI	Grad. Inter. PSI
15	3	0.2
30	5	0.5
60	10	1
100	20	2
160	20	2
200	50	5
300	50	5
400	100	10
600	100	10
800	200	20
1000	200	20
1500	300	20
2000	500	50

Range PSI	Fig. Inter. PSI	Grad. Inter. PSI			
3000	500	50			
5000	1000	100			
7500	1000	100			
10000	2000	200			
VACUUM RANGE ¹					
30-0" Hg	5" Hg	0.5" Hg			
COMPOUND RANGES					
"Hg	PSI	"Hg	PSI	"Hg	PSI
30-0-	15	10	5	1	0.5
30-0-	30	10	10	2	1
30-0-	30	30	20	2	2
30-0-	100	30	20	5	2
30-0-	160	30	20	10	5
30-0-	200	30	50	10	5

Thuemling Instrument Group

1225 Pearl Street, Waukesha, WI 53186 • Phone: 262-547-1789 • Fax: 262-547-6493
Web: www.thuemling.com • Email: thuemling@earthlink.net



SPAN™ Liquid Filled Series SC-2 Gauge – 2.0”, 2.5” and 4.0”

Overview

Series SC-2 gauges offer a stainless steel case with corrosion resistant 316 stainless steel internals. Gauges are available in sealed dry or liquid filled for high shock and vibration applications.

SC-2 gauges are suitable for applications with media compatible with 316 stainless steel wetted materials.

Benefits

- Matching sealed stainless steel cases are offered in three sizes and four configurations – bottom, center back, u-clamp, or front flange. An optional removable bayonet ring is available
- Case dimensions are popular metric sizes. Panel mounting gauges fit existing panels using most stainless steel cased gauges
- Made in the USA, series SC gauges offer a very competitive high quality option to many imported gauges

Applications

- Intended for adverse service conditions where pulsating or vibration exists (with liquid filling)
- Hydraulics and compressors
- Suitable for gaseous or liquid media that will not obstruct the pressure system
- Applications compatible with 316 stainless steel internals



SCU63-2
Liquid Filled Industrial Gauge



SCS63-2
Liquid Filled Industrial Gauge

Construction Data

Case	Stainless Steel
Bezel	Stainless Steel - crimped
Socket	Stainless Steel
Bourdon Tubes	Vac to 1000 PSI "C" tube, 1500 to 15,000, stainless spiral tube
Pressure Connection	¼" or ½" (Others available upon request)
Lens	Acrylic
Pointer	Black aluminum
Movement	Stainless Steel
Dial	White Aluminum
Fill fluid	Glycerin
Ranges	Vacuum, compound, and pressure ranges up to 15,000 PSI

Dial Ranges and Intervals

Range PSI	Fig. Inter. PSI	Grad. Inter. PSI
15	3	0.2
30	5	0.5
60	10	1
100	20	2
160	20	2
200	50	5
300	50	5
400	100	10
600	100	10
800	200	20
1000	200	20
1500	300	20
2000	500	50

Range PSI	Fig. Inter. PSI	Grad. Inter. PSI
3000	500	50
5000	1000	100
7500	1000	100
10000	2000	200
15000	3000	200

VACUUM RANGE¹

30-0" Hg	5" Hg	0.5" Hg
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COMPOUND RANGES

"Hg	PSI	"Hg	PSI	"Hg	PSI
30-0-	15	10	5	1	0.5
30-0-	30	10	10	2	1
30-0-	30	30	20	2	2
30-0-	100	30	20	5	2
30-0-	160	30	20	10	5
30-0-	200	30	50	10	5

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SPAN™ Liquid Filled Series SC Gauges – 2.0", 2.5" and 4.0"

Performance Data

Accuracy	1% Full Scale Grade 1A
Design	ANSI/ASME B40.1
Operating Temp.	-40 to 150F

Temperature Error

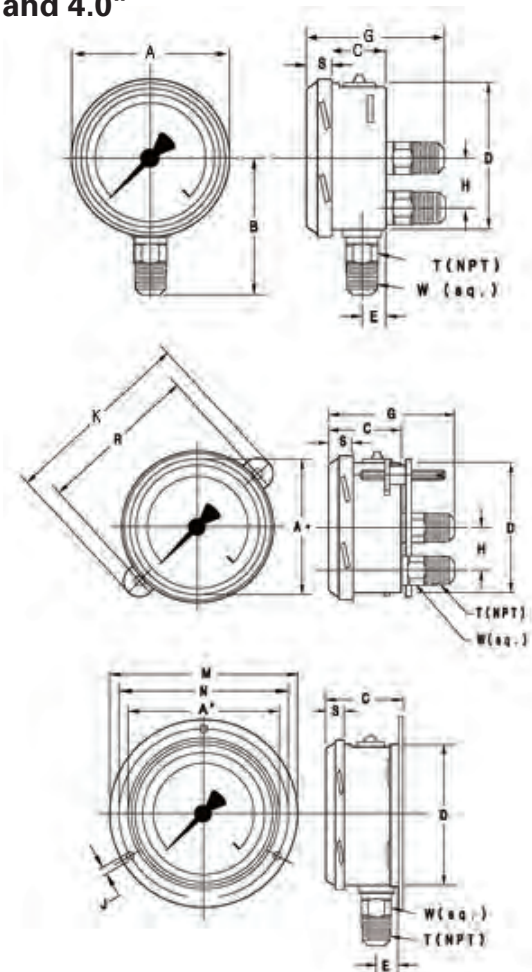
Additional error when temperature changes from reference temperature of 68F (20C) +0.4% for every 18F (10C) rising or falling as a percentage of Span.

Weather Protection

Weather tight (NEMA 4X / IP 65)

Optional Extras

SCK	=	Threaded socket restrictor
CERT	=	NIST Certified with calibration points
GL	=	Glass Lens
DM	=	Dampened movement
BR	=	Bayonet bezel-removable
OEM	=	Custom Dials
JIC, SAE	=	Special Process Connections
DBR	=	Dual Scale PSI and BAR
DKG	=	Dual Scale PSI and KgCm ²
DKP	=	Dual Scale PSI and KpA



Dimensions

Dial	A	B	C	D	E	G	H	J	K	M	N	S	T	W
2" mm	55	48	30	50	12	53	-	3.6	72	71	60	5.5	-	14
in	2.17	1.89	1.18	1.97	0.47	2.09	-	0.14	2.83	2.80	2.36	0.22	¼"	0.55
2.5" mm	63	54	32	62	13	54	-	3.6	72	88.1	75	6.5	-	14
in	2.69	2.13	1.26	2.45	0.51	2.13	-	0.14	2.83	3.47	2.95	0.26	¼"	0.55
4" mm	107	87	48	100	15.5	79.5	30	4.8	109	132	116	8	-	22
in	4.21	3.43	1.89	3.91	0.61	3.13	1.18	0.19	4.29	5.20	4.57	0.31	½"	0.87

Note: for ¼" NPT connections on 4" gauges, reduce B dimension by 5mm/0.2

Recommended panel cut-out: 2" U-clamp: 51mm, front flange: n/a • 2½" U-clamp: 63mm, front flange: 65mm • 4" U-clamp: 101 mm, front flange: 104mm

Ordering Number for SC-2 Span Gauge – Construct by selecting one item from each of the columns below:

Configuration	Dial Size	Wetted Parts	Range	Fill	Options
SCS=Stainless Case Stem Mount Bottom	50=2.0"/50mm	1 = Brass Tube and socket	Please specify from chart	G = Glycerin Filled	From option list
SCC=Stainless Case Center Back	63=2.5"/63mm	2 = 316 Stainless Steel Tube and socket		D = Dry No fill	
SCU=Stainless Case U-Clamp Mount	100=4.0"/100mm				
SCF=Stainless Case Front Flanger Mount					
Example: SCS -	63-	2 -	100 -	G	DBR

(SCS63-2-200-G-DBR)

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