

SPAN™

Liquid Filled Series SC Gauges 2.0", 2.5" and 4.0"

Overview

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

SC gauges are suitable for applications with media compatible with brass or 316 stainless steel wetted materials

Benefits

- Matching sealed stainless steel cases are offered in three sizes in plain or two panel mounting configurations. 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 (SC-2) or brass internals (SC-1)



SCU63-1
Liquid Filled Industrial Gauge



SCS63-2
Liquid Filled Industrial Gauge

Construction Data

Case	Stainless Steel	
Bezel	Stainless Steel - crimped	
Socket	SC-1	Brass
	SC-2	Stainless Steel
Bourdon Tubes	SC-1	Vac to 1000 PSI "C" tube, 1500 to 10,000, brass spiral tube
	SC-2	Vac to 1000 PSI "C" tube, 1500 to 15,000, stainless spiral tube
Pressure Connection	1/8" or 1/4" npt male (JIC SAE optional)	
Lens	Acrylic	
Pointer	Black aluminum	
Movement	Stainless Steel	
Dial	White aluminum	
Fill fluid	Glycerin -Optional dry	
Ranges	Vacuum, compound 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 (SC-2 Only)	3000	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

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

Performance Data

Accuracy	SC-1 (Brass)	2%-1%-2%
	SC-2 (Stainless)	1% Full Scale Grade 1A
Design	ANSI/ASME B40.1	
Operating Temp.	-40 to 150F	

Temperature Error

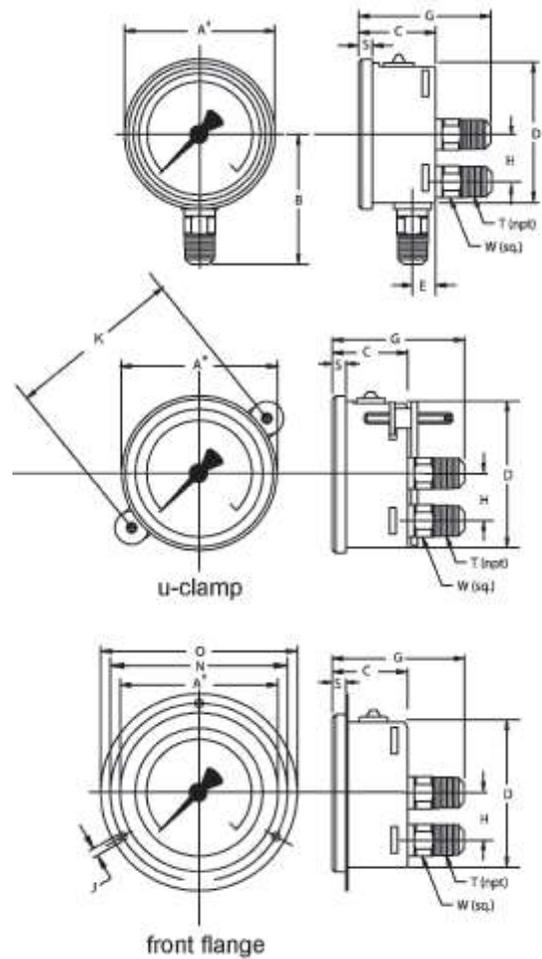
Additional error when temperature changes from reference temperature of 68F (20C) +0.4% for every 18F (10C) rising or falling as a percentage of Span.

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



Size		A	B	C	D	E	G	H	J	K	N	O	S	T	W	Weight
50mm (2")	mm in	55 2.17	48 1.89	30 1.18	50 1.97	12 0.47	53 2.09	-	3.6 0.14	72 2.83	60 2.36	17 2.80	5.5 0.22	¼"	14 0.55	0.27 lb. dry 0.33 lb. filled
63mm (2½")	mm in	69 2.69	54 2.13	32 1.26	63 2.45	13 0.51	54 2.13	-	3.6 0.14	72 2.83	75 2.95	85 3.35	6.5 0.26	¼"	14 0.55	0.36 lb. dry 0.44 lb. filled
100mm (4")	mm in	107 4.21	87 3.43	48 1.89	100 3.91	15.5 0.61	79.5 3.13	30 1.18	4.8 0.19	109 4.29	116 4.57	132 5.20	8 0.31	½"	22 0.87	1.10 lb. dry 1.76 lb. filled

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: 101mm front flange: 104mm

Ordering Number for SC 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 Flange Mount					
Example: SCS -	63-	2 -	100 -	G	DBR

(SCS63-2-200-G-DBR)

SPAN™

Dry Steel Cased Pressure Gauge 1.5", 2.0", 2.5" and 3.5"

Overview

These gauges are designed for use with gas, oil and water or any media not corrosive to brass or bronze. Series EC gauges are designed for applications not requiring a liquid filled gauge. EC gauges are a good choice in applications not subject to high shock or severe vibrations.

Benefits

- Dry black steel case gauge with chrome rings
- Large inventory in stock for quick shipment
- Back-up stocking programs available to OEMs
- Quality manufactured in ISO 9000 certified facility

Applications

- Pneumatic regulators
- Filters
- Low cost panel mounted gauges
- Small diameter gauges
- Tank pressures
- Air pressure measurements



EC103D
Panel Mount Industrial Gauge



EC101D
Stem Mount Industrial Gauge

Construction Data

Case	Steel - black or chrome
Bezel	Steel - chrome
Socket	Brass
Bourdon Tubes	Copper Alloy Vac to 1000 PSI "C" tube 1500 to 6000 copper spiral tube
Pressure Connection	1/8" or 1/4" npt male (JIC SAE optional)
Lens	Acrylic
Pointer	Black aluminum
Movement	Brass movement
Dial	White aluminum
Fill fluid	None
Ranges	Vacuum, compound to 6000 PSI

Gauge Scales - dual. Inner scale is metric (kPa & bar). Outer scale is PSI.

Range	Code	Major	Minor
30"-0" VAC	A	5"	.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

Range	Code	Major	Minor
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

SPAN™ Dry Steel Cased Pressure Gauge 1.5", 2.0", 2.5" and 3.5"

Performance Data

Accuracy	3-2-3% Grade B
Design	ANSI/ASME B40.1
Operating Temp.	-40 to 150F

Temperature Error

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

Case Styles and Dimensions

Bottom Mount Style 1		SIZE	A	B	C	D	E		
		1½"	1.64"	.93"	.65"	2.26"	⅛" NPT		
		2"	2.07"	1.06"	.83"	2.83"	⅛" or ¼"		
		2½"	2.50"	1.13"	.88"	3.31"	¼" NPT		
		3½"	3.54"	1.12"	1.02"	4.49"	¼" NPT		
Back Mount Style 2		SIZE	A	B	C	D	E		
		1½"	1.64"	0.93"	.63"	1.51"	⅛" NPT		
		2"	2.07"	1.03"	.89"	1.90"	⅛" or ¼"		
		2½"	2.50"	1.17"	.90"	1.97"	¼" NPT		
		3½"	3.49"	1.22"	.83"	2.02"	¼" NPT		
Panel Mount Style 3		SIZE	A	B	C	D	G	E	
		1½"	1.84"	1.03"	.63"	1.61"	1.61"	⅛" NPT	
		2"	2.31"	1.18"	.73"	1.84"	2.04"	⅛" or ¼"	
		2½"	2.68"	1.12"	.76"	1.87"	2.44"	¼" NPT	
		3½"	3.98"	1.23"	.67"	2.02"	3.59"	¼" 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"	⅛" NPT
		2"	2.31"	1.18"	.73"	1.84"	2.81"	2.04"	⅛" or ¼"
		2½"	2.68"	1.12"	.76"	1.87"	3.47"	2.44"	¼" NPT
		3½"	3.98"	1.23"	.67"	2.02"	5.21"	3.59"	¼" NPT

Ordering Number for EC Series Gauge – Construct by selecting one item from each of the columns below:

Base Model	Case Style	Dry	Dial Size	Connection	Range
EC10	1 = bottom connected-plain	D	15 = 1½" Dia.	8 = ⅛" NPT male 4 = ¼" NPT male	please specify from chart
	2 = center back connected plain		20 = 2" Dia.		
	3 = back connected u-clamp panel mount		25 = 2½" Dia.		
	4 = back connected front flange panel mount		35 = 3½" Dia.		
Example: EC10	1		25	4 -	E

(EC101D-254-E)