

SPAN™

Liquid Filled Industrial Gauges

Overview

SPAN gauges are designed for rugged service applications where brass & copper materials are compatible with the media being used. Liquid fill fluid dampens the gauge pointer movement for improved readings and longer life, making SPAN gauges ideal for high shock and vibration applications.

Our Zytel case and ring offer good appearance and excellent resistance to chemical, weather, and corrosion attack.

The SPAN gauge has many optional features that allow a user to develop a basic or special product specification.



Benefits

- "Fully Filled": The internal "breathing diaphragm" eliminates the need for an air bubble in the mid-range of the gauge, which can distort readings and look unsightly. The ICD is standard on 2.5" dials up to 60 PSI, optional on higher ranges and standard on all 3.5" and 4.5" dials.
- Temperature compensated: The ICD compensates the case (to 150° F) for changes in internal case pressure caused by fluctuations in ambient temperature. (Especially critical in lower pressure and vacuum gauges.)
- Freeze proof: The KEM-X Socket Saver is an internal diaphragm seal to prevent freezing, clogging, and corrosion. It is available on all SPAN gauges.
- Lighted Dial: SPAN offers the only lighted and liquid filled gauge. 12 volt incandescent or LED in white, blue, green or red.

Applications

- Mobile Hydraulic Equipment
- Irrigation / Water purification
- Waste Water / Slurry
- Fire Apparatus
- Bulk Transport Trailers
- Military / Marine

Construction Data

| | |
|---------------------|---|
| Case | Zytel Nylon - black |
| Bezel | Zytel Nylon - removable |
| Socket | Brass |
| Bourdon Tubes | Copper Alloy Vac to 1000 PSI "C" tube 1500 to 7500 stainless spiral tube |
| Pressure Connection | 1/4" npt male (JIC optional) |
| Lens | Acrylic |
| Pointer | Black aluminum |
| Movement | Swiss movement copper alloy |
| Dial | White aluminum |
| Fill fluid | High purity glycerin |
| Ranges | Vacuum, compound to 7500 PSI |

Dial Ranges and Intervals

| Standard Dial Range | Major | Minor | Standard Dial Range | Major | Minor |
|---------------------|-------------|------------|---------------------|-------|-------|
| 30" Hg | 5" | .5" | 0-200 | 20 | 2 |
| 30-0-15 | 10"-3 psi | 2"-1 psi | 0-300 | 50 | 5 |
| 30-0-30 | 10"-5 psi | 2"-1 psi | 0-400 | 50 | 5 |
| 30-0-60 | 30"-10 psi | 5"-2 psi | 0-600 | 100 | 10 |
| 30-0-150 | 30"-25 psi | 10"-5 psi | 0-1000 | 100 | 10 |
| 30-0-300 | 30"-50 psi | 15"-10 psi | 0-1500 | 300 | 20 |
| 30-0-600 | 30"-100 psi | 30"-20 psi | 0-2000 | 200 | 20 |
| 0-15 | 3 | .2 | 0-3000 | 500 | 50 |
| 0-30 | 5 | .5 | 0-5000 | 500 | 50 |
| 0-60 | 10 | 1 | 0-6000 | 1000 | 100 |
| 0-100 | 10 | 1 | 0-7500 | 1500 | 100 |
| 0-160 | 20 | 2 | 0-10000 | 1000 | 100 |

SPAN™ Liquid Filled Industrial Gauge 2.5", 3.5" and 4.5"

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.

Performance Data

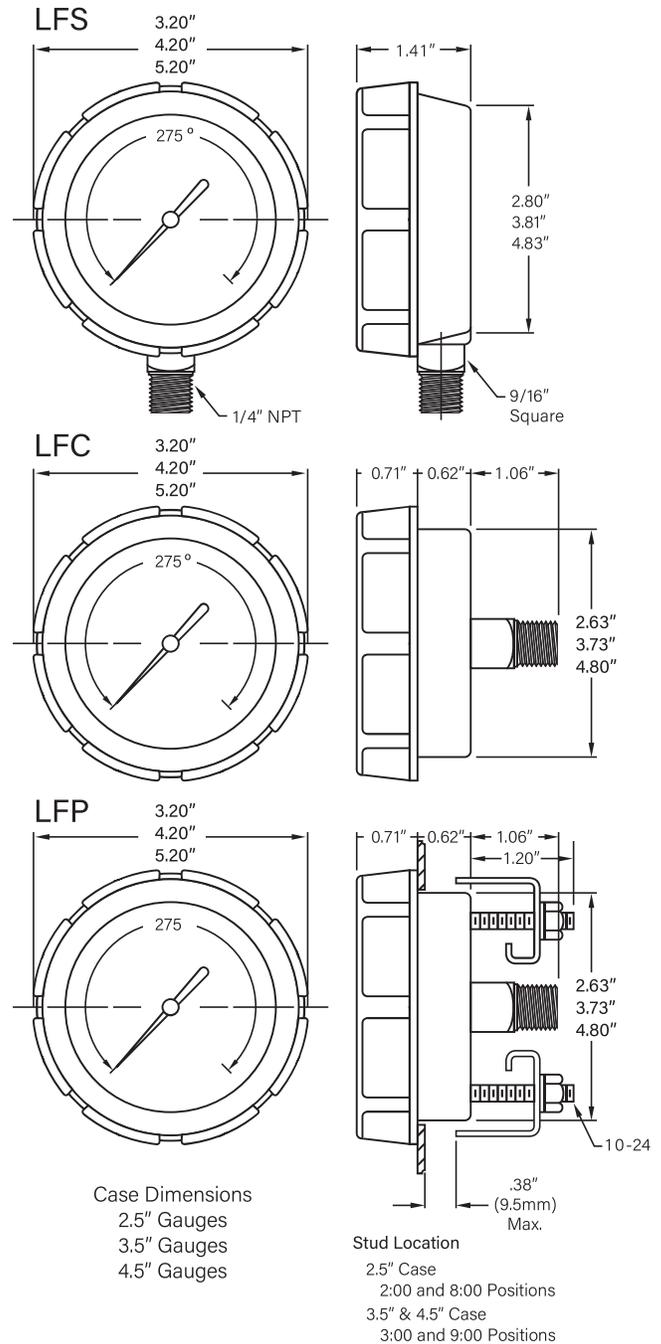
| | |
|----------------------------------|---|
| Accuracy - 2.5" - 3.5" & 4.5" | 2/1/2% Grade A (1% Grade 1A Optional) 1% Full Scale Grade 1A |
| Design | ANSI/ASME B40.1 |
| Ambient Temp. | -40° to 150° F |

Weather Protection

Weather tight (NEMA 4X / IP 65)

Optional Extras

| | | |
|-------|---|--|
| ICD | = | Internal temperature compensating diaphragm |
| IPG | = | Lighted dial |
| IB | = | KEM-X Buna-N diaphragm |
| IV | = | KEM-X Viton diaphragm |
| IE | = | KEM-X EPDM diaphragm |
| SCK | = | Threaded socket restrictor |
| CERT | = | NIST Certified with calibration points |
| SFB | = | S.S. Bezel |
| RECAL | = | Slotted adjustable pointer |
| O2C | = | Oxygen cleaning |
| GL | = | Glass lens |
| STUD | = | Back mount studs and hardware for panel mounting |
| DM | = | Dampened movement |
| WC | = | Sanitary applications, white case |
| OEM | = | Custom dials |
| JIC | = | #4 JIC process connection |
| COL | = | Color coded bezel |



Ordering Number for 3.5" Span Gauge - Construct by selecting one item from each of the columns below:

| Configuration | Dial Size | Accuracy | Wetted Parts | Range | Fill | Options |
|---------------------------|-----------|---------------------|---|---------------------------|---------------------|------------------|
| LFS = Stem Mount Bottom | 2 = 2-1/2 | 1 = 1% Accuracy | 0 = Phosphor Bronze Tube, Brass Socket | Please specify from chart | G = Glycerin Filled | From option list |
| LFC = Center Back Mount | 3 = 3-1/2 | 2 = 2/1/2% Accuracy | 4 = above 1000 PSI 316 Stainless Steel Tube, Brass socket | | D = Dry No Fill | |
| LFP = Panel Mount U-Clamp | 4 = 4-1/2 | | | | | |
| Example: LFS - | 3 | 1 | 0 - | 100 - | G | CERT |

(LFS-310-100-G - CERT)