SPAN[™] Liquid Filled Sub-Sea Gauge - 3.5"

Overview

Span Sub-Sea gauges are designed for rugged service applications. Liquid fill fluid dampens the gauge pointer movement for improved readings and longer life, making these gauges ideal for high shock and vibration applications.

The 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

- "ICD" patented internal breathing diaphragm allows gauge to be fully filled. Excellent in angled panel mounting applications. ESSENTIAL in any sub-sea or ROV deep water applications. The ICD is standard on all SPAN Sub-Sea gauges.
- Temperature/Pressure Compensated: The ICD compensates the case (to 150F) for changes in internal case pressure caused by fluctuations in ambient temperature. (Especially critical in lower pressure and vacuum gauges.) The ICD also compensates the case for external pressure in Sub-Sea deep water applications. A SPAN exclusive feature.

Options

- 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.
- Any SPAN gauges can be serialized and certified traceable to N.I.S.T. accuracy standards with Test Points.

Applications

and Panels

- Sub-Sea Applications • Military, Marine • ROV Equipment
 - Mobile Hydraulic
 - Equipment

Dial Ranges and Intervals

Standard Dial Range	Numbered	Minor
0-15	2	.2
0-30	5	.5
0-60	10	1
0-100	10	1
0-160	20	2
0-200	20	2
0-300	50	5
0-400	50	10



SUB/LFC-312 Span 3.5" Liquid Filled Industrial Gauge



SUB/LFS-312 Span 3.5" Liquid Filled Industrial Gauge

Construction Data

Zytel Nylon – Black		
Zytel Nylon – Removable		
Internal Compensating Diaphragm		
316 Stainless Steel - TIG Welded		
HNBR		
Vac to 1000 PSI 316 Stainless Steel "C" Tube 1500 to 20000 Stainless Spiral Tube		
¼" NPT Male		
Acrylic		
White Aluminum		
Precision Swiss Movement		
Black Aluminum w/ White Markings		
High Purity Glycerin		
Vacuum, Compound to 20000 PSI		

Standard Dial Range	Numbered	Minor
0-600	100	10
0-1000	100	10
0-1500	300	20
0-3000	500	50
0-5000	500	50
0-6000	1000	100
0-10000	1000	100
0-15000	2000	200
0-20000	4000	500

INSTRUMENT GROU

Thuemling Instrument Group

1225 Pearl Street, Waukesha, WI 53186 • Phone: 262-547-1789 • Toll Free: 1-800-686-1789 Fax: 262-547-6493 • Web: www.thuemling.com • Email: thuemling@earthlink.net

SPAN[™] Liquid Filled Sub-Sea Gauge – 3.5″

Performance Data

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

Temperature Error

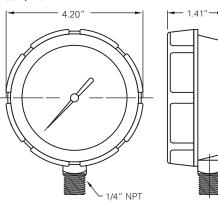
Additional error when temperature changes from reference temperature of 68F (20C) +-0.4% for every 18F (10C) rising or falling as a percentage of Span.

Weather Protection Weather tight (NEMA 4X / IP 65)

Optional Extras

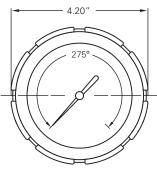
IB	=	KEMX Buna-N Diaphragm	
IV	=	KEMX Viton - Diaphragm	
IE	=	KEMX EPDM - Diaphragm	
CERT	=	NIST Certified with calibration points	
SFB	=	Chrome Bezel	
RECAL	=	Slotted Adjustable Pointer	
02C	=	Oxygen Cleaning	
STUD	=	Back Mount Studs for Wall Mounting	
OEM	=	Custom Dials	
COL	=	Color Bezel	

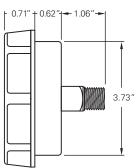
SUB/LFS



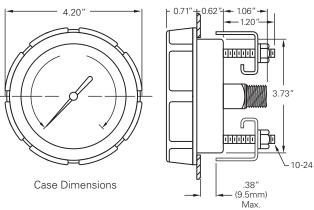
3.81" 3.81" 9/16" Square

SUB/LFC





SUB/LFP



Ordering Number for 3.5" Span Sub-Sea Gauge – Construct by selecting one item from each of the columns below:						
Configuration	Dial Size	Accuracy	Wetted Parts	Range	Fill	Options
SUB/LFS = Stem Mount Bottom	3 = 3-1/2	. '	2 = 316L Stainless Steel Tube and Socket	Please specify from chart	G = Glycerin Filled	From option list
SUB/LFC = Center Back Mount	• • • •	•				
SUB/LFP = Panel Mount U-Clamp						
Example: SUB/LFS -	3 -	1	2	100 -	G	CERT

(SUB/LFS-312-100-G-CERT)

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