All Stainless Steel, Dry & Liquid Filled, Extreme High Pressure

402/502 SERIES

- Corrosion-resistant dry or liquid-filled gauge for high pressure applications
- Ranges from 0 psi to 30,000 psi through 0 psi to 85,000 psi
- 4" and 6" gauge sizes
- Solid front design with a blow out back in accordance to EN 837, S3 Safety Pattern
- Stainless Steel case
- NiFe alloy/316L Stainless Steel wetted parts
- DIN 16001 compliant

OPERATING SPECIFICATIONS

1. Working Pressure Limitations

a. Dynamic Pressure
The working pressure should be limited to 65% of the dial range.

b. Static Pressure
The working pressure, where no sharp fluctuations occur, should be limited to 75% of the dial range

APPLICATIONS

- Pumps & compressors
- High pressure processing
- Test equipment & systems
- Water jet cutting

	SERIES	SPECIFICATIONS
Pressure ranges	402, 412 & 500 Series	0 psi to 30,000 psi through 0 psi to 85,000 psi
Accuracy	≤40,000 psi	±1.6% full scale (optional 1% increased accuracy)
	≥50,000 psi	±1% full scale (85,000 psi is ±1.6% accuracy)
Temperature ranges*	402 & 412 Series	Media -40 °F to 392 °F (-40 °C to 200 °C) Ambient -40 °F to 140 °F (-40 °C to 60 °C)
	502 Series	Media -4 °F to 212 °F (-20 °C to 100 °C) Glycerin fill Ambient -4 °F to 140 °F (-20 °C to 60 °C) Glycerin fill
Measuring element	402/502 Series (all)	NiFe alloy
Connection	402/502 Series (all)	316L Stainless Steel
Case	402/502 Series (all)	Stainless Steel, solid front with blowout back
Cover ring	402/502 Series (all)	Stainless Steel bayonet ring
Lens	402/502 Series (all)	Laminated safety glass
Pointer	402/502 Series (all)	Black finished Aluminum
Dial	402/502 Series (all)	Aluminum, white background with black scale. UV resistant.
Movement	402/502 Series (all)	Stainless Steel with highly polished bearing surfaces
Fill liquids	502 Series (Bottom connected only)	Glycerin

* For every 68 °F (20 °C) shift in temperature from which the gauge is calibrated, the user can experience up to ±0.4% additional error.

For details on accuracy/standard dial configuration and dial layouts, see pages 56-61.

WARNING: This product can expose you to chemicals including Nickel, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

ORDERING INFORMATION						
GAUGE SIZE	**40**	4"	**60**	6" *		
CASE TYPES	**402**	Dry, bottom connection	**412**	Dry, lower back connection	**502**	Liquid filled, bottom connection
PRESSURE RANGES	**30000**	0 psi to 30,000 psi	**50000**	0 psi to 50,000 psi	**75000**	0 psi to 75,000 psi
	40000	0 psi to 40,000 psi	**60000**	0 psi to 60,000 psi	**85000**	0 psi to 85,000 psi **
SCALE OPTIONS	**psi**	psi single scale	**psi/kg/cm²**	psi/kg/cm² dual scale		
	psi/kPa	psi/kPa dual scale	**psi/bar**	psi/bar dual scale		
CONNECTION SIZES * **	**9/16-18**	9/16"-18 UNF 2B high pressure cone - Female	**9/16-HPM**	9/16"-18 UNF 2A left hand thread - Male		
OPTIONS	**BRSP**	Bayonet Ring Adjustable Set Pointer	**SL**	Silicone Fill	**ST**	Stainless Steel Tagging
	LM	Laser Marking	**SP**	Red Set Pointer	**IA**	Increased Accuracy
	MIP	Maximum Indicating Pointer †	**SSFF**	304SS Front Flange		

Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

NOTE: Cleaning for Oxygen Service (O2) is available only for dry or HL filled gauges

* Bottom connection only.
** Only available on 60-402 and 60-502 models, with ±1.6% accuracy.
*** Additional process connection sizes available, consult factory.
† GY40 fill is standard for liquid filled gauges

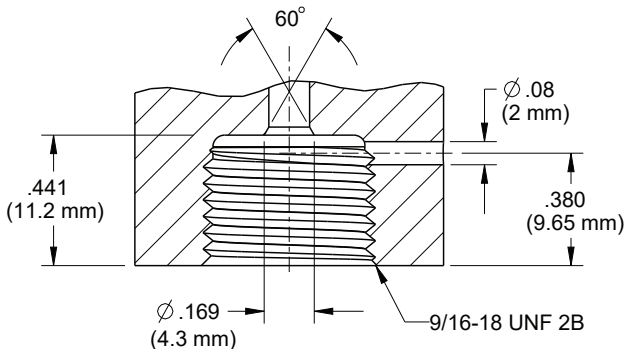
EXAMPLE

40 – 402 – 30000 – psi – 9/16-18 – BRSP

Gauge size ..... 4"
Case type ..... Dry, bottom connection
Pressure range & scale option ..... 0 psi to 30,000 psi
Connection size ..... 9/16"-18 UNF 2B high pressure cone
Option ..... Bayonet Ring Adjustable Set Pointer

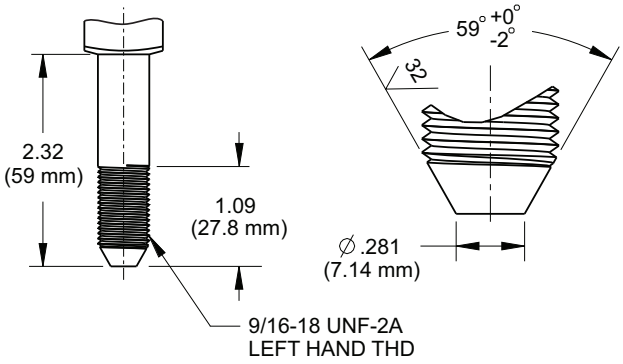
9/16"-18 UNF 2B High Pressure Cone Connection

Female



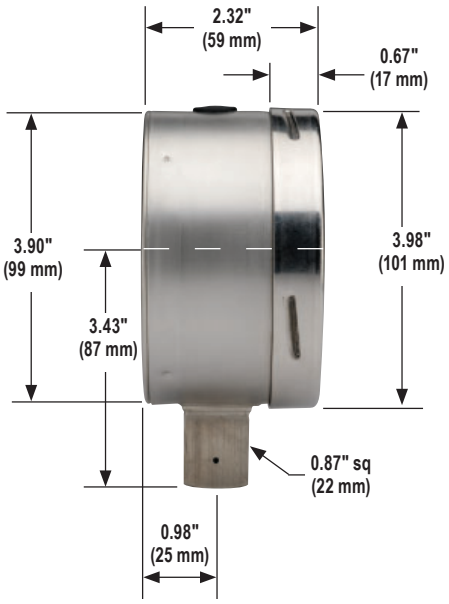
9/16"-18 UNF 2A left hand thread

Male

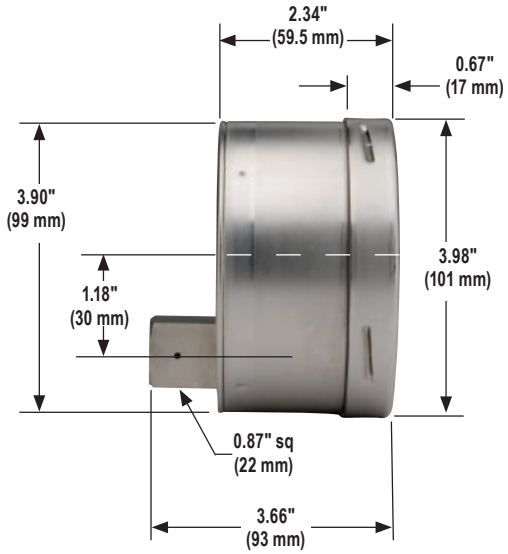


Dimensions

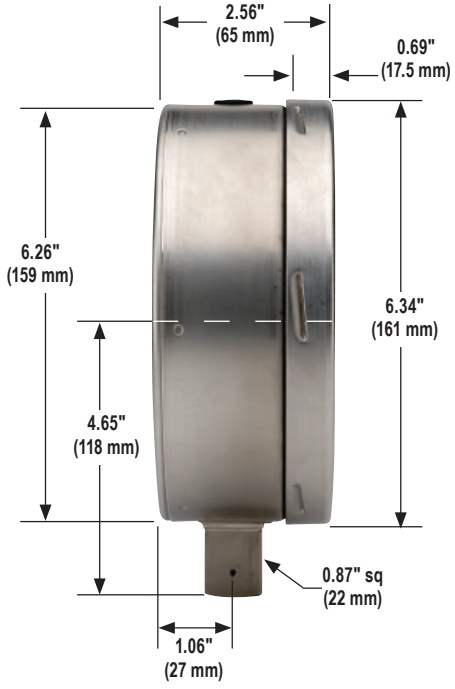
40-402/502



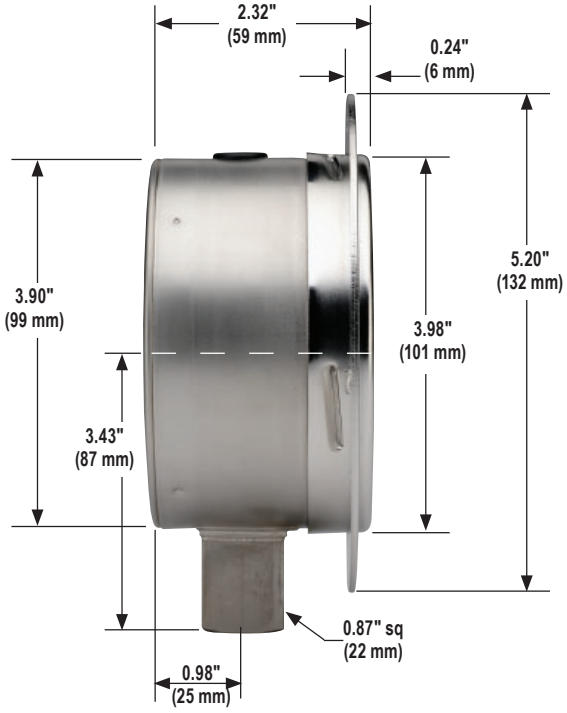
40-412



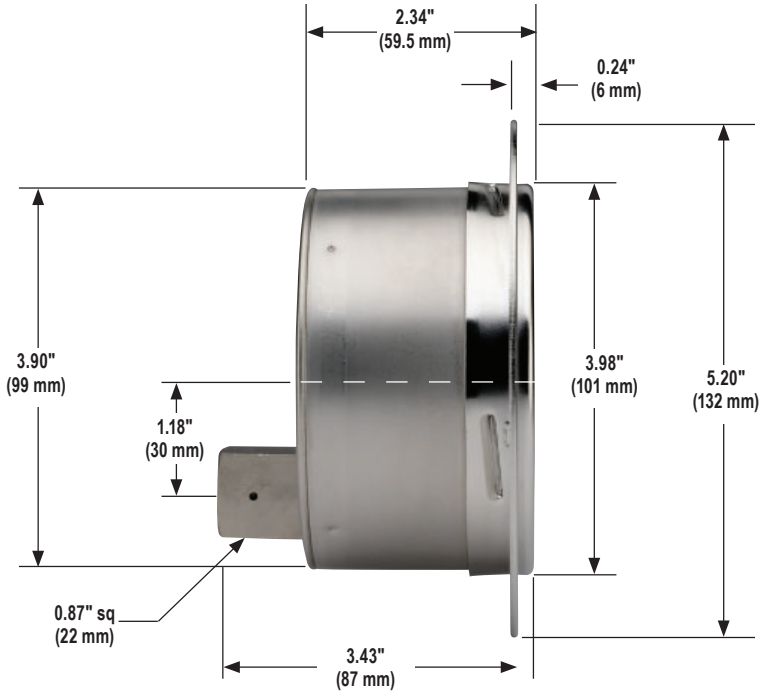
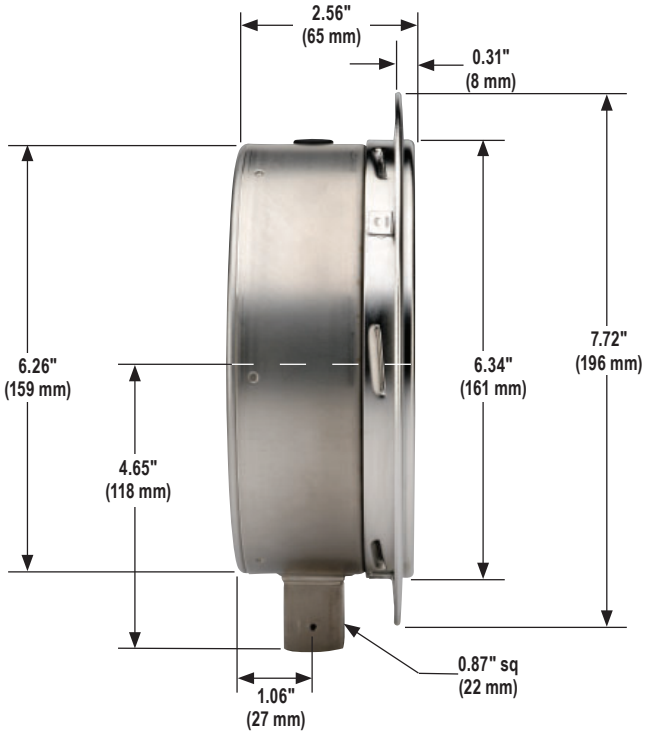
60-402/502



40-402/502 Front Flange



40-412 Front Flange



60-402/502 Front Flange