

# Test Gauges, Solid Front

## Model 1082

According ASME B40.1

Nominal size: 4 1/2, 6 and 8 1/2 inch

Accuracy: Grade 3A (0,25 %)

### Features

- External adjustable dial facilitates compensation for tare or zero adjustment (standard version)
- Temperature compensated movement that significantly reduces temperature error
- MicroSpan™ adjustment for ease in span calibration
- Long life bourdon tube
- Hydraulically staked movement provides improved stability
- Improved dial and pointer results in excellent readability
- Supplied with solid front case for safety
- Overload protection 130 %
- Measuring system brass or Monel

### Ranges

-1 ... 0 bar up to 0 ... 700 bar

-30 in. Hg ... 0 psi up to 0 ... 10.000 psi

### Applications

Test benches

Calibration laboratories

Maintenance repair shops



Technical specification	1082															
Case type	Standard						TY						AY			
Dial size in inch	4 1/2		6		8 1/2		4 1/2						4 1/2		6	
Construction housing ring	Solid front safety pattern with blow out at the back															
Zero adjustment	Hinged						Threaded									
Measuring principle	At the front, adjustable dial															
Range in bar	Bourdon tube															
	1	1,6	2,5	4	6	10	16	25	40	60	100	160	250	400	600	700
Overpressure limit	1/0 -1/0,6 -1/1,5 -1/3 -1/5 -1/9															
Pressure type	130 % F.S., short time															
	Gauge, vacuum and compound															
Process connection	1/4 NPT male (standard), 1/2 NPT male according ANSI/ASME B1.20.1															
	9/16-18 UNF-2B Aminco															
	G1/4 B male, G1/2 B male, M20x1,5 male, metric connections with adapter															
	Others on request															
Connection location	Lower, back						Lower						Lower			
Material																
Pressure connection	Brass (max. 25 bar) and Monel															
Tube	Phosphor bronze (max. 25 bar) and Monel															
Case	Aluminum <sup>1)</sup>						Phenolic						Aluminum <sup>1)</sup>			
Ring	Steel enamel coated						Polypropylene									
	<sup>1)</sup> Black epoxy coated															
Window	Instrument glass, optional laminated safety glass or acrylic															
Dial	Aluminum, black markings on white background, with polished mirror band															
Pointer	Aluminum, black, red painted knife edge															
Movement	Stainless steel 400 series, bimetallic temperature compensated, with micro-span adjustment and under-load/overload stops															
Accuracy	Grade 3A (0,25 % F.S.)															
Permissible																
Ambient temperature	-25 ... 60 °C															
Medium temperature	Max. 100 °C															
Storage temperature	-40 ... 65 °C															
Effect	Automatic compensated, max. 0,09 % / 10 K															
Protection according EN 60 529/IEC 529	IP54															
Filling liquids	Filling not available															
Mounting	Stem, optional flush						Stem, surface, flush with 1278M ring						Stem, surface			
Weight in kg	1,1		1,4		2		1,6						1,1		1,4	
Accessories, options	Valves															

All specifications are subject to change without notice.

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