

FEATURES

- MicroSpan[™] adjustment eases span calibration
- Integral span adjustment
- Compact design
- Teflon[®]-coated, SS movement

SPECIFICATIONS

SPECIF	SPECIFICATIONS							
Accuracy:		±0.5%	±0.5% of span (ASME B40.100 Grade 2A)					
Process Connection Size: 1/4 NPT								
Process Connection								
Location:		Lower						
Case Style: S		SS	SS					
Movemer	nt:	Precision, SS with Teflon [®] S coated bearings and pinion						
Window Material: Polycarbonate								
Pointer: A			Aluminum with red-painted tip					
Mounting Options: S			Stem					
WETTED COMPONENTS								
Model	Bourdon Tube		Process Connection Materials		Joints			
1084	316 SS		316 SS		Welded			
NON-WETTED COMPONENTS								
Model	Case		Ring		Dial			
1084	316 SS		316 SS		Aluminum			
MIN/MAX TEMPERATURE LIMITS								
	Ambient		Process S		Storage			
Version	Ambient							



ORDERING CODE	Example:	30	1084	S	02	L	100#
Gauge Size							
30 - 3" dial		30					
Model							
1084 - Test gauge			1084				
System (tube and process connection)							
S - 316L SS tube and process connection				S	_		
Process Connection							
02 - ¼ Male					02	_	
Connection Location							_
L - Lower						L	
Ranges							
15# - 0-15 psi							
30# - 0-30 psi							
60# - 0-60 psi							
100# - 0-100 psi							100#
160# - 0-160 psi							
200# - 0-200 psi							
300# - 0-300 psi							
400# - 0-400 psi							
600# - 0-600 psi							
1000# - 0-1,000 psi							

All specifications are subject to change without notice.

All sales subject to standard terms and conditions. info@ashcroft.com

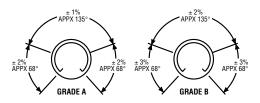
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ACCURACY:

Accuracy – the conformity of indication to an accepted standard or true value. Accuracy is the difference (error) between the true value and the indication expressed as a percent of the span. It includes the combined effects of method, observer, apparatus and environment. Accuracy error includes hysteresis and repeatability errors but not friction error. It is determined under specific conditions. (Normal position, 73.4°F (23°C), and 29.92 in Hg barometric pressure.)

The following tables define the ASME B40.1* accuracy grades used by Ashcroft products.



Accuracy of a pressure gauge may be expressed as percent of span or percent of indicated reading. Percent of span is the most common method. Percent of indicated reading is usually limited to precision test gauges and unless specifically spelled out, it may be assumed that an accuracy of $\pm 0.5\%$ means $\pm 0.5\%$ of span.

GRADE 4A:

Gauges offering the highest accuracy and calibrated to $\pm 0.1\%$ of span over the entire range of the gauge. These gauges are called laboratory precision test gauges and are generally $8\frac{1}{2}$, 12° or 16° dials. These high-accuracy gauges may be temperature compensated. They must be handled carefully in order to retain accuracy.

ACCURACY EXAMPLES							
Range	Accuracy Span	Grade	Permissible Error % of Span				
0/100 psi	100 psi	1A	1.0				
0/400 kPa	400 kPa	2A	0.5				
0/1000 bar	1000 bar	В	3 (0/250 & 750/1000 bar) 2 (250/750 bar)				
-100/400	400 kPa	2A	0.5				
30 inHg/	44.7 psi	4A	0.1				
30 psi							

The last item (30 inHg/30 psi)deserves some explanation. The span is defined as the algebraic difference between the limits of the scale. 30 inHg = -14.7 psi Span = 30 psi -(-14.7) = 44.7 psi. 0.1% of 44.7 psi = 0.045 psi or 0.022 Hg.

*ASME B40.1 may be ordered from: American Society of Mechanical Engineers Three Park Avenue, New York, NY 10016

GRADE 3A:

Gauges are calibrated to an accuracy of $\pm 0.25\%$ of span over the entire range of these gauges. These gauges are called test gauges and are generally $4\frac{1}{2}$, 6° or $8\frac{1}{2}$ dials. The gauges are generally not temperature compensated (except Ashcroft Type 1082).

GRADE 2A:

Gauges are calibrated to an accuracy of $\pm 0.5\%$ of span over the entire range of the gauge. They are often referred to as process gauges and are usually supplied as $4\frac{1}{2}$ and 6[°] cases and are not temperature compensated.

GRADE 1A:

Gauges are calibrated to an accuracy of $\pm 1\%$ over the entire range of the gauge. These gauges are high-quality industrial gauges and are supplied in $2\frac{1}{2}$, $3\frac{1}{2}$ and $4\frac{1}{2}$ sizes.

GRADE A:

Gauges are calibrated to an accuracy of $\pm 1\%$ of span over the middle half of the scale and $\pm 2\%$ of span over the first and last quarters of the scale.

GRADE B:

Gauges are calibrated to an accuracy of ±2% of span over the middle half of the scale and ±3% of span over the first and last quarters of the scale. These gauges are often referred to as commercial or utility gauges and are supplied in 1½", 2", 2½", 3½" and 4½" case sizes.

GRADE C:

Gauges are calibrated to an accuracy of $\pm 3\%$ of span over the middle half of the scale and $\pm 4\%$ of span over the first and last quarters of the scale.

GRADE D:

Gauges are calibrated to an accuracy of $\pm 5\%$ of span over the entire scale.

ACCURACY EXAMPLES							
		Permissible Error % of Span					
Type of Gauge	Grade	Lower 25%	Middle 50%	Upper 25%	Max. Friction (% of Span)		
Precision Test (A4A)	4A	0.1	0.1	0.1	See Note		
Test (1082)	3A	0.25	0.25	0.25	0.25		
Process (1279)	2A	0.5	0.5	0.5	0.5		
Industrial/ Hydraulic (1009)	1A	1.0	1.0	1.0	1.0		
Industrial/ Hydraulic (1010, 1188	A , 1490)	2.0	1.0	2.0	1.0		
Commercial Utility (1005, 3005	В	3.0	2.0	3.0	2.0		

Note: Grade 4A gauges must remain within 0.1% before and after being lightly tapped.

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