

## Pressure Gauge Options

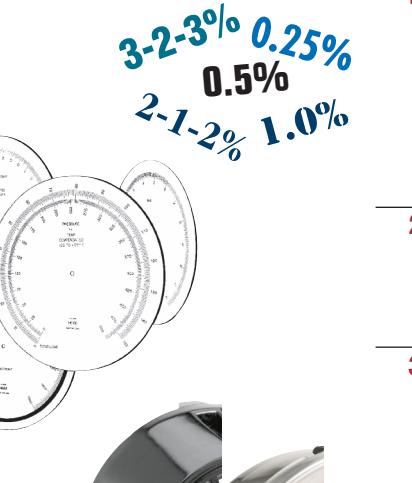
CODE	DESCRIPTION	PRESSURE GAUGE TYPE										
		TEST & PROCESS GAUGES		STAINLESS STEEL CASE		INDUSTRIAL GAUGES		COMMERCIAL GAUGES				
	TEST GAUGES	PROCESS GAUGES	1009 (2½", 3½")	1009 (4½", 6")	1008S	GENERAL SERVICE	SPECIAL SERVICE	1490/1495 SERIES	1001T	1005/1000 SERIES	1007P	1008A
XLL	<b>PLUS! Performance</b>	•	•	•	•							
XSF	FlutterGuard™	•	•	•	•					STD		
XNP	Nickel plated socket	•	•	•	•					•		
XBF	Wall mounting bracket	•	•	•	•					•		
XFW	Back flange	•	•	•	•							
XFF	Front flange	•	•	•	•					•		
XUC	U-clamp	•	•	•	•			STD		•		
XLJ	Dry liquid-fillable gauge	•	•	•	•					•		
XOS	Overload stop	STD	•	STD	•	STD <sup>(1)</sup>	•	•				
XVS	Underload stop	STD	•	STD	•	STD <sup>(1)</sup>	•	•				
XTS	Throttle screw	•	•	•	•	•	•	•			•	
XTU	Throttle plug	•	•	•	•	•	•	•			•	
XT4	Throttle plug	•	•	•	•	•	•	•			•	
XT5	Throttle plug	•	•	•	•	•	•	•			STD	
XT7	Throttle plug	•	•	•	•	•	•	•	STD		•	
XT9	Throttle plug	•	•	•	•	•	•	•	•		•	
XS4	Slotted link movement (decrease)	•	•	•	•	•	•	•				
XRJ	Slotted link (increase)	•	•	•	•	•	•	•				
XAP	Adjustable pointer	STD	•	STD	STD	•	•	•			•	
XMP	Micrometer pointer	STD	•	STD	STD	•	•	•			•	
XSH	Red set hand stationary	•	•	•	•	•	•	•				
XEO	Red set hand adjustable	•	•	•	•	•	•	•				
XEP	Maximum pointer	•	•	•	•	•	•	•			•	
XEQ	Minimum pointer	•	•	•	•	•	•	•			•	
XPD	Plastic window	•	•	STD	•	STD <sup>(1)</sup>	•	•	STD	STD	STD	STD
XSG	Safety glass	•	•	•	•	•	•	•	•	•	•	•
XDA	Dial marking	•	•	•	•	•	•	•	•	•	•	•
XNN	Paper tag	•	•	•	•	•	•	•	•	•	•	•
XNH	Stainless steel tag	•	•	•	•	•	•	•	•	•	•	•
XAB	Absolute pressure	•	•	•	•	•	•	•				
XAJ	½% optional accuracy	STD	•	•	•	•	•	•				
XAN	1% optional accuracy	STD	STD	STD	STD	•	•	•				
XRA	Retard scale	•	•	•	•	•	•	•	•	•	•	•
XBD	Black dial	•	•	•	•	•	•	•	•	•	•	•
X6B	Oxygen-cleaned gauges (gaseous)	•	•	•	•	•	•	•	•	•	•	•
XTB	Tip bleed	•	•	•	•	•	•	•	•	•	•	•
XED	High and low electric contacts	•	•	•	•	•	•	•	•	•	•	•
XEE	Double high-electric contacts	•	•	•	•	•	•	•	•	•	•	•
XEF	Double low-electric contacts	•	•	•	•	•	•	•	•	•	•	•
XEG	Electric contacts off at low or high and in-between	•	•	•	•	•	•	•	•	•	•	•
XGV	Silicone-filled gauge	•	•	•	•	•	•	•	•	•	•	•
XGX	Halocarbon-filled gauge	•	•	•	•	•	•	•	•	•	•	•
XCH	Carrying handle	•	•	•	•	•	•	•	•	•	•	•
XC4	Calibration Chart	•	•	•	•	•	•	•	•	•	•	•

**NOTES:** The options listed above are only a partial listing. For other options on these or other pressure instruments please call the factory for availability.

Not all variations available for each size, connection, range in a specific gauge, model/type. Minimums may also apply.

(1) Available on 40mm and 50mm.

## Seven Steps to Select a Pressure Gauge



### 1. ACCURACY

For a mechanical pressure gauge, accuracy is defined as a percentage of the full-scale range.

While requirements differ from one industry to another, the following are general guidelines:

- Test Gauges and Standards: 0.25% through 0.10% full scale accuracies.
  - Critical Processes: 0.5% full scale accuracy.
  - General Industrial Processes: 1.0% accuracy. Less Critical Commercial Uses: 2.0% accuracy.
- Refer to ASME B40.100 for more information on accuracy.

### 2. DIAL SIZE

Pressure gauge dial sizes range from less than 1" to 16" diameters. Generally, readability requirements, space limitations and required gauge accuracy determine dial size. Accuracies of 0.25% or 0.5% generally have dial sizes of 4½" or larger since more dial graduations are required.



### 3. CASE STYLE / MATERIAL

Environmental considerations include ambient temperature, air-borne particulate, condensation, humidity, water and chemicals, all of which can affect gauge performance.

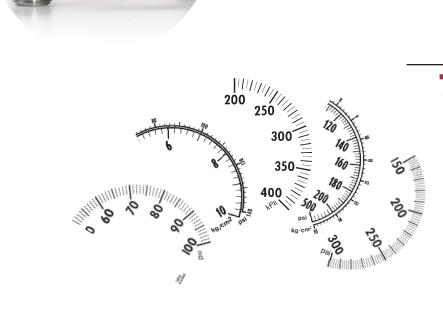
Ambient temperature may affect the accuracy and integrity of the gauge. Gauges are available either temperature compensated or non-temperature compensated. Ambient conditions may require that the gauge be isolated from temperature extremes. When required, the gauge should be isolated from temperature extremes with a flexible line assembly.

When ambient conditions are corrosive, contain a large number of particulate or if the gauge will be exposed to a wet or humid environment like humidity, wash-downs or rain, specify a gauge that is weatherproof/hermetically sealed or liquid filled.



### 4. MEDIA / WETTED PARTS

The wetted parts of the pressure gauge, the Bourdon tube and socket must be compatible with the process media. If not compatible with the wetted parts of the gauge, corrosion will occur. Corrosion of gauge wetted parts will eventually cause gauge failure and possibly safety issues. When the gauge wetted parts are not compatible with the process media, a diaphragm should be considered.



### 5. CONNECTION SIZE

Gauges are available with a variety of connections including NPT, DIN, JIS, BSP & SAE. Process pressure gauges with 4½" dial sizes or larger are most often supplied with a ½" NPT connection to best support the gauge. Factors to consider when selecting a pressure gauge connection include process pressures, gauge size and weight, space limitations, leak integrity, and past experience.



### 6. CONNECTION LOCATION

Consider the following mounting options when selecting a pressure gauge:

- Stem mount lower connect
- Wall/surface mount lower connect
- Panel mount back connect
- U-clamp flush mount back connect, for panel mounting
- Front flange flush mount back connect, for panel mounting



### 7. PRESSURE RANGES

ASME B40.100 recommends that normal operating pressure be confined to 25%-75% of the scale. If pulsation is present in the process, maximum operating gauge pressure should not exceed 50% of the full-scale range.

#### CONCLUSION

To properly select a pressure gauge, consider the gauge process, range, environment, accuracy, dial size, connection and mounting requirements.

# Seven Steps to Pressure Gauge Selection

**ASHCROFT®**

PRODUCT CATEGORY	TEST GAUGES	PROCESS GAUGES	STAINLESS STEEL CASE & INDUSTRIAL GAUGES	MODEL NUMBER	ACCURACY		DIAL SIZE		CASE		PROCESS MEDIA (GAUGE WETTED PARTS)		CONNECTION SIZE		CONN. LOCATION		RANGE	
					TEST GAUGES	PROCESS GAUGES	STAINLESS STEEL CASE & INDUSTRIAL GAUGES	MODEL NUMBER	ACCURACY	DIAL SIZE	CASE	MATERIAL	PROCESS MEDIA (GAUGE WETTED PARTS)	CONNECTION SIZE	CONN. LOCATION	RANGE		
1187	2089	1008S	1008S	• 0.05% Span	• 0.10% Span	• 0.25% Span	• 0.5% Span	• 1% Span	1% at 0, 2% 3/4 scale, 5% last 1/4 scale	23mm	23mm	Open Front	1/4 NPT	Lower	Absolute	0-1 IWD to 60 IWD	0-1 IWD to 60 IWD	
1188	2086	1008S	1008S (02C)	• 0.05% Span	• 0.10% Span	• 0.25% Span	• 0.5% Span	• 1% Span	1% at 0, 2% 3/4 scale, 5% last 1/4 scale	23mm	1 1/4 Inches	Solid Front	1/4 NPT	Back	In-Line	0-5 PSID to 100 PSID	0-5 PSID to 150 PSID	
1189	2084	1008S	1008S (02C)	• 0.05% Span	• 0.10% Span	• 0.25% Span	• 0.5% Span	• 1% Span	1% at 0, 2% 3/4 scale, 5% last 1/4 scale	23mm	1 1/2 Inches, 40 mm	Thermoset / Thermoplastic	316 Stainless Steel/Carbon Steel Socket	1/4 NPT	In-Line	0-1000 PSI (including vacuum & compound)	0-10000 PSI (including vacuum & compound)	
1279	1084	1008S	1008S (02C)	• 0.05% Span	• 0.10% Span	• 0.25% Span	• 0.5% Span	• 1% Span	1% at 0, 2% 3/4 scale, 5% last 1/4 scale	23mm	2.0 Inches, 50mm	Aluminum	Beryllium Copper/Brass Socket	1/4 NPT	Back	0-10000 PSI (including vacuum & compound)	0-100000 PSI (including vacuum & compound)	
1290	1082	1008S	1008S (02C)	• 0.05% Span	• 0.10% Span	• 0.25% Span	• 0.5% Span	• 1% Span	1% at 0, 2% 3/4 scale, 5% last 1/4 scale	23mm	2.5 Inches, 63mm	Stainless Steel	316 Stainless Steel	1/4 High Pressure	Lower	0-100000 PSI (including vacuum & compound)	0-1000000 PSI (including vacuum & compound)	
1377	2462	1008S	1008S (02C)	• 0.05% Span	• 0.10% Span	• 0.25% Span	• 0.5% Span	• 1% Span	1% at 0, 2% 3/4 scale, 5% last 1/4 scale	23mm	3 Inches	Black Metal	Monel	Tri-Clamp Type	Back	0-1000000 PSI (including vacuum & compound)	0-10000000 PSI (including vacuum & compound)	
1379	1259	1008S	1008S (02C)	• 0.05% Span	• 0.10% Span	• 0.25% Span	• 0.5% Span	• 1% Span	1% at 0, 2% 3/4 scale, 5% last 1/4 scale	23mm	3.5 Inches	Open Front	Inconel Tube, 316 SS Socket	1/4 NPT	In-Line	Inches of Water - incl. IW vacuum and compound	Inches of Water - incl. IW vacuum and compound	
2462	T5500	1008S	1008S (02C)	• 0.05% Span	• 0.10% Span	• 0.25% Span	• 0.5% Span	• 1% Span	1% at 0, 2% 3/4 scale, 5% last 1/4 scale	23mm	4 Inches, 100mm	Beryllium Copper/Brass Socket	316 Stainless Steel/Carbon Steel Socket	1/4 NPT	Back	0-600 PSI (including vacuum & compound)	0-600 PSI (including vacuum & compound)	
1259	T6500	1008S	1008S (02C)	• 0.05% Span	• 0.10% Span	• 0.25% Span	• 0.5% Span	• 1% Span	1% at 0, 2% 3/4 scale, 5% last 1/4 scale	23mm	4.5 Inches	Stainless Steel	316 Stainless Steel	1/4 NPT	Lower	0-1000 PSI (including vacuum & compound)	0-1000 PSI (including vacuum & compound)	
1339	1008S	1008S	1008S (02C)	• 0.05% Span	• 0.10% Span	• 0.25% Span	• 0.5% Span	• 1% Span	1% at 0, 2% 3/4 scale, 5% last 1/4 scale	23mm	6 Inches, 160mm	Monel	Monel	1/4 NPT	Back	0-10000 PSI (including vacuum & compound)	0-10000 PSI (including vacuum & compound)	
1339	1150H	1008S	1008S (02C)	• 0.05% Span	• 0.10% Span	• 0.25% Span	• 0.5% Span	• 1% Span	1% at 0, 2% 3/4 scale, 5% last 1/4 scale	23mm	8.5 Inches	Black Metal	Inconel Tube, 316 SS Socket	1/4 NPT	Lower	0-100000 PSI (including vacuum & compound)	0-100000 PSI (including vacuum & compound)	
1122	1490	1008S	1008S (02C)	• 0.05% Span	• 0.10% Span	• 0.25% Span	• 0.5% Span	• 1% Span	1% at 0, 2% 3/4 scale, 5% last 1/4 scale	23mm	12 Inches	Open Front	316 Stainless Steel	1/4 NPT	Back	0-1000000 PSI (including vacuum & compound)	0-1000000 PSI (including vacuum & compound)	
1490	1495	1008S	1008S (02C)	• 0.05% Span	• 0.10% Span	• 0.25% Span	• 0.5% Span	• 1% Span	1% at 0, 2% 3/4 scale, 5% last 1/4 scale	23mm	12 Inches	Solid Front	316 Stainless Steel	1/4 NPT	Lower	0-10000000 PSI (including vacuum & compound)	0-10000000 PSI (including vacuum & compound)	
1125	1125A	1008S	1008S (02C)	• 0.05% Span	• 0.10% Span	• 0.25% Span	• 0.5% Span	• 1% Span	1% at 0, 2% 3/4 scale, 5% last 1/4 scale	23mm	12 Inches	Thermoset / Thermoplastic	316 Stainless Steel/Carbon Steel Socket	1/4 NPT	Back	0-100000000 PSI (including vacuum & compound)	0-100000000 PSI (including vacuum & compound)	
1125A	5503	1008S	1008S (02C)	• 0.05% Span	• 0.10% Span	• 0.25% Span	• 0.5% Span	• 1% Span	1% at 0, 2% 3/4 scale, 5% last 1/4 scale	23mm	12 Inches	Aluminum	Beryllium Copper/Brass Socket	1/4 NPT	Lower	0-1000000000 PSI (including vacuum & compound)	0-1000000000 PSI (including vacuum & compound)	
5503	5509	1008S	1008S (02C)	• 0.05% Span	• 0.10% Span	• 0.25% Span	• 0.5% Span	• 1% Span	1% at 0, 2% 3/4 scale, 5% last 1/4 scale	23mm	12 Inches	Beryllium Copper/Brass Socket	316 Stainless Steel	1/4 NPT	Back	0-10000000000 PSI (including vacuum & compound)	0-10000000000 PSI (including vacuum & compound)	
5509	1127	1008S	1008S (02C)	• 0.05% Span	• 0.10% Span	• 0.25% Span	• 0.5% Span	• 1% Span	1% at 0, 2% 3/4 scale, 5% last 1/4 scale	23mm	12 Inches	Stainless Steel	316 Stainless Steel	1/4 NPT	Lower	0-100000000000 PSI (including vacuum & compound)	0-100000000000 PSI (including vacuum & compound)	
1127	1128	1008S	1008S (02C)	• 0.05% Span	• 0.10% Span	• 0.25% Span	• 0.5% Span	• 1% Span	1% at 0, 2% 3/4 scale, 5% last 1/4 scale	23mm	12 Inches	Black Metal	Monel	1/4 NPT	Back	0-1000000000000 PSI (including vacuum & compound)	0-1000000000000 PSI (including vacuum & compound)	
1128	1130	1008S	1008S (02C)	• 0.05% Span	• 0.10% Span	• 0.25% Span	• 0.5% Span	• 1% Span	1% at 0, 2% 3/4 scale, 5% last 1/4 scale	23mm	12 Inches	Open Front	Monel	1/4 NPT	Lower	0-10000000000000 PSI (including vacuum & compound)	0-10000000000000 PSI (including vacuum & compound)	
1130	1131	1008S	1008S (02C)	• 0.05% Span	• 0.10% Span	• 0.25% Span	• 0.5% Span	• 1% Span	1% at 0, 2% 3/4 scale, 5% last 1/4 scale	23mm	12 Inches	Solid Front	Monel	1/4 NPT	Back	0-100000000000000 PSI (including vacuum & compound)	0-100000000000000 PSI (including vacuum & compound)	
1131	1132	1008S	1008S (02C)	• 0.05% Span	• 0.10% Span	• 0.25% Span	• 0.5% Span	• 1% Span	1% at 0, 2% 3/4 scale, 5% last 1/4 scale	23mm	12 Inches	Thermoset / Thermoplastic	Monel	1/4 NPT	Lower	0-1000000000000000 PSI (including vacuum & compound)	0-1000000000000000 PSI (including vacuum & compound)	
1132	1133	1008S	1008S (02C)	• 0.05% Span	• 0.10% Span	• 0.25% Span	• 0.5% Span	• 1% Span	1% at 0, 2% 3/4 scale, 5% last 1/4 scale	23mm	12 Inches	Aluminum	Monel	1/4 NPT	Back	0-10000000000000000 PSI (including vacuum & compound)	0-10000000000000000 PSI (including vacuum & compound)	
1133	1134	1008S	1008S (02C)	• 0.05% Span	• 0.10% Span	• 0.25% Span	• 0.5% Span	• 1% Span	1% at 0, 2% 3/4 scale, 5% last 1/4 scale	23mm	12 Inches	Beryllium Copper/Brass Socket	Monel	1/4 NPT	Lower	0-100000000000000000 PSI (including vacuum & compound)	0-100000000000000000 PSI (including vacuum & compound)	
1134	SANITARY GAUGES	1032	1032	• 0.05% Span	• 0.10% Span	• 0.25% Span	• 0.5% Span	• 1% Span	1% at 0, 2% 3/4 scale, 5% last 1/4 scale	23mm	12 Inches	Stainless Steel	Monel	1/4 NPT	Back	0-1000000000000000000 PSI (including vacuum & compound)	0-1000000000000000000 PSI (including vacuum & compound)	
1134	SANITARY GAUGES	1036	1036	• 0.05% Span	• 0.10% Span	• 0.25% Span	• 0.5% Span	• 1% Span	1% at 0, 2% 3/4 scale, 5% last 1/4 scale	23mm	12 Inches	Black Metal	Monel	1/4 NPT	Lower	0-10000000000000000000 PSI (including vacuum & compound)	0-10000000000000000000 PSI (including vacuum & compound)	
1134	SANITARY GAUGES	2030 Series	2030 Series	• 0.05% Span	• 0.10% Span	• 0.25% Span	• 0.5% Span	• 1% Span	1% at 0, 2% 3/4 scale, 5% last 1/4 scale	23mm	12 Inches	Open Front	Monel	1/4 NPT	Back	0-100000000000000000000 PSI (including vacuum & compound)	0-100000000000000000000 PSI (including vacuum & compound)	
1001T	1005	1005P	1005P	• 0.05% Span	• 0.10% Span	• 0.25% Span	• 0.5% Span	• 1% Span	1% at 0, 2% 3/4 scale, 5% last 1/4 scale	23mm	12 Inches	Solid Front	Monel	1/4 NPT	Lower	0-1000000000000000000000 PSI (including vacuum & compound)	0-1000000000000000000000 PSI (including vacuum & compound)	
1005	1005P	1005M,XRG	1005M,XRG	• 0.05% Span	• 0.10% Span	• 0.25% Span	• 0.5% Span	• 1% Span	1% at 0, 2% 3/4 scale, 5% last 1/4 scale	23mm	12 Inches	Thermoset / Thermoplastic	Monel	1/4 NPT	Back	0-10000000000000000000000 PSI (including vacuum & compound)	0-10000000000000000000000 PSI (including vacuum & compound)	
1005P	1005M,XRG	1005S	1005S	• 0.05% Span	• 0.10% Span	• 0.25% Span	• 0.5% Span	• 1% Span	1% at 0, 2% 3									