

Data Sheet

1017 General Service Pressure Gauge

FEATURES

- Solid-front case design for safety
- Ideal gauge for panel mounting
- **PLUS!**™ Performance option to dampen vibration, shock and pulsation effects to provide a liquid-fill performance in a dry gauge

TYPICAL USES

- Deionized Water
- Refrigeration
- Hydraulics and Pneumatics
- Specialized OEM Equipment



1017
4½", 6" dial size

SPECIFICATIONS

Accuracy:	±1% of span (ASME B40.100 Grade 1A)
Size:	4½", 6"
Ranges:	Vacuum, Compound to 20,000 psi
Process Connection Location:	Back
Process Connection Size:	¼ NPT Male, ½ NPT Male
Case Style:	Solid front with pressure relief back
Movement:	400 SS, Teflon® coated pinion gear and segment
Window Material:	Glass
Dial:	Aluminum, white background, black figures and intervals
Case Material:	Aluminum
Pointer:	Micrometer Adjustable
Weather Protection:	Dry case: Case not sealed, recommended for weather protected environment only
Dampening:	PLUS! ™ Performance and throttle plugs
Mounting:	Stem, surface, flush

WETTED COMPONENTS

Bourdon Tube	Process Connection Material
Phosphor bronze tube	Brass brazed
316L SS	316L SS
K Monel®	K Monel®

NON-WETTED COMPONENTS

Case	Back Cover	Ring
Aluminum	300 SS	Steel, hinged, black enamel

KEY BENEFITS

- Most economical of the general service industrial gauges
- Provides durability, reliability, and performance
- Well-suited for many industrial applications

MIN/MAX TEMPERATURE LIMITS

Version	Ambient	Process	Storage
Dry	-20°F to 200°F (-29°C to 93°C)	-20°F to 250°F (-29°C to 121°C)	-40°F to 250°F (-40°C to 121°C)

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ORDERING CODE	Example:	451017	S	02	B	XC4	100#
Dial Size/Model Code							
451017 - 4½" aluminum case, solid front		451017					
601017 - 6" aluminum case, solid front							
System							
A - Phosphor bronze tube, brass process connection (1,000 psi Max.)							
P - K-Monel® tube, Monel® 400 process connection (30,000 psi Max.)							
S - 316L SS (20,000 psi Max.)			S				
Process Connection Size							
02 - ¼ NPT Male				02			
04 - ½ NPT Male							
Process Connection Location							
B - Lower back					B		
Options (If choosing an option(s) must include an "X")							
C4 - Individual calibration chart (in accordance with ASME B 40.100:2013. Accuracy of unit traceable to NIST)						X	C4
LL - PLUS! ™ Performance							
TS - Throttle screw (standard with PLUS! ™)							
PD - Acrylic window							
SG - Safety glass							
EP - Maximum pointer, adjustable (4½" and 6" dial only)							
SH - Red set hand, stationary							
NH - SS tag wired to case							
DA - Dial marking (text marking on dial)							
EO - Red set hand adjustable							
EQ - Minimum pointer							
PR - Receiver gauge							
BD - Black dial							
OS - Overload stop							
VS - Underload stop							
6B - Oxygen service							
Range (See range table on page 3 for all standard ranges)							
100# - 100 psi							100#

BOURDON SYSTEM SELECTION					
Ordering Code Connection ⁽²⁾	Bourdon Tube & Tip Material ⁽¹⁾ (all joints TIG welded except "A")	Socket Material	Tube	Range Selection Type (psi)	NPT Connection ⁽²⁾
A	Phosphor Bronze Bras Tip, Silver Brazed	Brass	C-Tube	12/1,000	¼
S	316 SS	316 SS	C-Tube Helical	12/1,500 2,000/20,000	¼ ½
P ⁽⁴⁾	K Monel®	Monel® 400	C-Tube Helical	15/1,500 2,000/30,000	¼ ½

Notes:

- ⁽¹⁾ For selection of the correct Bourdon system material, see the media application table.
- ⁽²⁾ Optional connections available: ¼ NPT where ½ NPT is standard, ¼ NPT where ½ NPT is standard.
- ⁽³⁾ Single-scale and dual-scale ranges available.
- ⁽⁴⁾ 6" dial not available with Monel® system.

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SINGLE SCALE					NOTES
	psi	bar	kPa	Mpa	kg/cm ²
Vacuum	30IMV	N1BR	N100KP	N0.1MP	N1KG
	-	N1/0.6BR	N100/60KP	N0.1/0.6MP	N1/0.6KG
Compound	30IMV&15#	-	-	-	-
	-	N1/1.5BR	N100/150KP	N0.1/15MP	N1/1.5KG
	30IMV&30#	-	-	-	-
	-	N1/3BR	N100/300KP	N0.1/3MP	N1/3KG
	30IMV&60#	-	-	-	-
	-	N1/5BR	N100/&500KP	N0.1/5MP	N1/5KG
	-	-	-	-	-
	30IMV&100#	-	-	-	-
	-	N1/9BR	N100/900KP	N0.1/9MP	N1/9KG
	15#	1BR	100KP	0.1MP	1KG
-	1.6BR	160KP	0.16MP	1.6KG	
30#	-	-	-	-	
-	2.5BR	250KP	0.25MP	2.5KG	
60#	4BR	400KP	0.4MP	4KG	
-	6BR	600KP	0.6MP	6KG	
100#	-	-	-	-	
-	10BR	1000KP	1MP	10KG	
160#	-	-	-	-	
200#	-	-	-	-	
-	16BR	1600KP	1.6MP	16KG	
300#	-	-	-	-	
-	25BR	2500KP	2.5MP	25KG	
400#	-	-	-	-	
600#	40BR	4000KP	4MP	40KG	
800#	-	-	-	-	
-	60BR	6000KP	6MP	60KG	
1000#	-	-	-	-	
1500#	100BR	10000KP	10MP	100KG	
2000#	-	-	-	-	
-	160BR	16000KP	16MP	160KG	
3000#	-	-	-	-	
-	250BR	25000KP	25MP	250KG	
4000#	-	-	-	-	
5000#	-	-	-	-	
6000#	400BR	40000KP	40MP	400KG	
-	600BR	60000KP	60MP	600KG	
8000#	-	-	-	-	
10000#	-	-	-	-	
15000#	1000BR	100000KP	100MP	1000KG	
20000#	-	-	-	-	
30000#	-	-	-	-	

4½", 6" systems only

4½", 6" Monel[®] systems only

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DIMENSIONS in [] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings

Dial Size Inches	A	B	C	E	F	H	I	M	S	U	CC	LL	Weight (lbs)
4½	6 ⁷ / ₁₀₀ [154]	2 ³ / ₁₆ [56]	4 ¹³ / ₁₆ [122]	5 ³ / ₈ [136.5]	1 ⁵ / ₈ [41]	1 ⁵ / ₈ [41]	5 ⁵ / ₈ [16]	4 ⁷ / ₈ [124]	5 ⁵ / ₈ [16]	¾ [19]	10-24	1 ¹ / ₈ - 1 ¹ / ₂ [3-13]	2.63 1.2 kg
6	7 ⁹ / ₁₆ [192]	2 ³ / ₁₆ [56]	6 ⁵ / ₁₆ [160]	7 [178]	2 ¹ / ₈ [54]	1 ⁵ / ₈ [41]	5 ⁵ / ₈ [16]	6 ¹ / ₂ [165]	5 ⁵ / ₈ [16]	¾ [19]	¼ -20	1 ¹ / ₈ - 1 ¹ / ₂ [3-13]	2.75 1.3 kg

