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



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)						

SPECIFICATIONS

Accuracy:	$\pm 1\%$ of span (AS	ME B40.100 Grade 1A)				
Size:	4½″, 6″					
Ranges:	Vacuum, Compou	Vacuum, Compound to 20,000 psi				
Process Connection Location:	Back					
Process Connection Size:	$\frac{1}{4}$ NPT Male, $\frac{1}{2}$ N	$\frac{1}{4}$ NPT Male, $\frac{1}{2}$ NPT Male				
Case Style:	Solid front with pr	essure relief back				
Movement:	400 SS, Teflon [™] segment	coated pinion gear and				
Window Material:	Glass					
Dial:	Aluminum, white background, black figures and intervals					
Case Material:	Aluminum	Aluminum				
Pointer:	Micrometer Adjus	Micrometer Adjustable				
Weather Protection:	Dry case: Case not sealed, recommended for weather protected environment only					
Dampening:	PLUS! ^{M} Performance and throttle plugs					
Mounting:	Stem, surface, flush					
WETTED COMPO	NENTS					
Bourdon Tub	be and a second s	Process Connection Material				
Phosphor bronze	e tube	Brass brazed				
316L SS		316L SS				
K Monel®		K Monel [®]				
NON-WETTED CO	OMPONENTS					
Case	Back Cover	Ring				
Aluminum	300 SS	Steel, hinged, black enamel				

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ORDERING CODE	Example:	451017	s	02	в	XC4	100#
Dial Size/Model Code							
451017 - 41/2" aluminum case, solid front		451017					
601017 - 6" aluminum case, solid front							
System							
A - Phosphor bronze tube, brass process connection (1,0	000 psi Max.)						
P - K-Monel® tube, Monel® 400 process connection (30,0	000 psi Max.)			_			
S - 316L SS (20,000 psi Max.)			S	-			
Process Connection Size				-			
02 - ¹ / ₄ NPT Male				02	-		
04 - 1/2 NPT Male							
Process Connection Location							
B - Lower back					В	-	
Options (If choosing an option(s) must include an "X")						X	
C4 - Traceable calibration certificate						C4	
LL - PLUS! ™ Performance							
TS - Throttle screw (standard with PLUS! [™] Performance)							
PD - Acrylic window							
SG - Safety glass							
EP - Maximum pointer, adjustable (41/2" 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 ran	ges)						
100# - 100 psi							100#

	BOURDON SYSTEM SELECTION										
Ordering Code Connection ⁽¹⁾	Bourdon Tube & Tip Material ⁽²⁾ (all joints TIG welded except "A")	Socket Material	Tube	Range Selection Type (psi)	NPT Connection ⁽²⁾						
А	Phosphor Bronze Brass Tip, Silver Brazed	Brass	C-Tube	12/1,000	1⁄4						
S	316 SS	316 SS	C-Tube Helical	12/1,500 2,000/20,000	1/4 1/2						
P ⁽³⁾	K Monel®	Monel [®] 400	C-Tube Helical	15/1,500 2,000/30,000	1/4 1/2						

Notes:

⁽¹⁾ Optional connections available: ¹/₄ NPT where ¹/₂ NPT is standard, ¹/₄ NPT where ¹/₂ NPT is standard.

⁽²⁾ For selection of the correct Bourdon system material, see the media application table.

⁽³⁾6" dial not available with Monel® system.

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SIN	GLE SCALE ⁽¹⁾					NOTES
ε	psi	bar	kPa	Мра	kg/cm ²	
Vacuum	30IMV	N1BR	N100KP	N0.1MP	N1KG	
Š	-	N1/0.6BR	N100/60KP	N0.1/0.6MP	N1/0.6KG	
	30IMV&15#	-	-	-	-	
	-	N1/1.5BR	N100/150KP	N0.1/15MP	N1/1.5KG	
	30IMV&30#	-	-	-	-	
Compound		N1/3BR	N100/300KP	N0.1/3MP	N1/3KG	
du	30IMV&60#	-	-	-	-	
8	-	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	
a.	300#	-	-	-	-	
Positive Pressure	-	25BR	2500KP	2.5MP	25KG	
Pre	400#	-	-	-	-	
sitive	600#	40BR	4000KP	4MP	40KG	
ő	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#					4½″, 6″ systems only
Deal	30000#	ahla				$4\frac{1}{2}$, 6'' Monel [®] systems only
uua	I-scale ranges avail	able.				

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DIMENSIONS in [] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings

Dial Size Inches	А	В	С	Е	F	н	I	М	S	U	сс	LL	Weight (lbs]
4 ½	6 ⁷ ⁄100 [154]	2¾ [56]	4 ¹³ ⁄16 [122]	5¾ [136.5]	1% [41]	1% [41]	⁵⁄% [16]	4 ⁷ /8 [124]	⁵% [16]	³ ⁄4 [19]	10-24	¹ /8 - ¹ /2 [3-13]	2.63 1.2 kg
6	7%16 [192]	2¾ [56]	6⁵⁄16 [160]	7 [178]	21⁄8 [54]	1% [41]	⁵‰ [16]	6½ [165]	⁵⁄% [16]	³⁄₄ [19]	¹ ⁄4 -20	¹ ⁄8 ₋ 1⁄2 [3-13]	2.75 1.3 kg

