

1220 General Service Pressure Gauge

FEATURES

- Solid-front case design for safety
- Wide selection of Bourdon tube materials and pressure ranges
- PLUS![™] Performance option to dampen vibration, shock and pulsation effects to provide liquid-fill performance in a dry gauge

TYPICAL USES

- Deionized water
- Refrigeration
- Specialized OEM equipment

SPECIFICATIONS	
Accuracy:	±1% of span (ASME B40.100 Grade 1A)
Size:	4½", 6", 8½"
Ranges:	Vacuum, compound to 30,000 psi
Process Connection Location:	Lower or back
Process Connection Size:	1/4 NPT, 1/2 NPT
Case Style:	Solid front
Movement:	400 SS, Teflon® coated pinion gear and segment
Window Material:	Glass
Dial:	Aluminum, white background, black figures and intervals
Pointer:	Micrometer adjustable
Weather Protection:	Dry case, case not sealed, recommended for weather protected environment only
Dampening:	PLUS! ™ Performance and throttle plugs
Mounting Option:	Flush, stem, surface

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



KEY BENEFITS

- Provides durable, reliable performance for many industrial applications
- Versatile general service gauge

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)										

NON-WETTED COMPONENTS													
Case	Back Cover	Ring											
4½": Black phenolic, solid front	4 ½": Polycarbonate	4 ½": Treaded, Polycarbonate											
6": Black polypropylene, solid front 8½": Black aluminum, solid front	6": Polypropylene 8 ½": 300 SS	6": Polypropylene 8 ½": Steel, hinged, black enamel											

Data Sheet



1220 General Service Pressure Gauge

ORDERING CODE E	xample:	451220	S	02	В	XC4	100			
Dial Size/Model Code										
451220 - 41/2" phenolic case, solid front		451220								
601220 - 6" polypropylene case, solid front										
851220 - 81/2" aluminum case, solid front										
System										
A - Phosphor bronze tube, brass process connection (1,000 psi Max	i.)			_						
P - K-Monel® tube, Monel® 400 process connection (30,000 psi Max.	.)			-						
S - 316L Stainless steel (20,000 psi Max.)	•		S	-						
Process Connection Size				-						
02 - 1/4 NPT Male				02						
04 - ½ NPT Male										
Process Connection Location										
L - Lower						_				
B - Lower back					В					
Options (If choosing an option(s) must include an "X")										
C4 - Individual calibration chart (in accordance with ASME B 40.100:	:2013. Accuracy of ur	nit traceable to NIST)				C4				
LL - PLUS! ™ Performance										
TS - Throttle screw (standard with PLUS! ™)										
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										
H - Hermetic seal										
56 - Flush mounting ring										
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⁾									
Α	Phosphor Bronze Bras Tip, Silver Brazed	Brass	Brass C-Tube		1/4									
S	316 SS	316 SS	C-Tube Helical	15/1,500 2,000/20,000	1/ ₄ 1/ ₂									
P ⁽⁴⁾	K Monel®	Monel® 400	C-Tube Helical	15/1,500 2,000/30,000	1/ ₄ 1/ ₂									

Notes

- (1) For selection of the correct Bourdon system material, see the media application table.
- ⁽²⁾ Optional connections available: 1/4 NPT where 1/2 NPT is standard, 1/4 NPT where 1/2 NPT is standard.
- (3) Single-scale and dual-scale ranges available.
- $^{(4)}$ 6" and 8 $^{1}\!/\!{_2}$ " dial not available with Monel® system.

Data Sheet



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SIN	GLE SCALE					N
	psi	bar	kPa	Mpa	kg/cm²	
Vacuum	30IMV	N1BR	N100KP	NO.1MP	N1KG	
Va	-	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#	-	-	-	-	
ᅙ	oomii aaan	N1/3BR	N100/300KP	N0.1/3MP	N1/3KG	
Compound	30IMV&60#	-	-	-	- -	
Com		N1/5BR	N100/&500KP	N0.1/5MP	N1/5KG	
	-	-	-	-		
	30IMV&100#	-	-	-	-	
	JUNIVATUU#	N1/ODD	N100/000VP	NO 1/OMD	NI1/OVC	
	15#	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#	-	-	-	-	
nre	-	25BR	2500KP	2.5MP	25KG	
Positive Pressure	400#	-	-	-	-	
ive P	600#	40BR	4000KP	4MP	40KG	
osit	800#	-	- -		- TONG	
_	-	60BR	6000KP	6MP	60KG	
		บบบท	UUUUNF	UIVIF	ound	
	1000#	10000	10000/0	10MD	100//0	
	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	

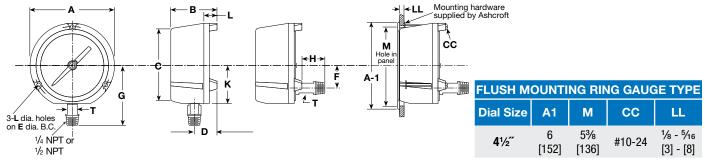


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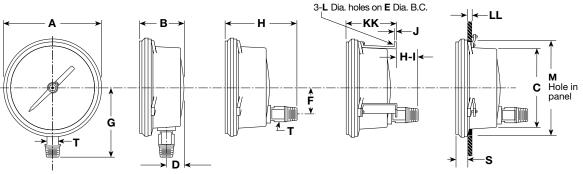
DIMENSIONS in [] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings

	4½″ LOWER & BACK CONNECTION DIMENSIONS														
Dial Size (inches)	A	В	С	D	E	F	G	н	J	L	т	V	Weight (lbs)		
4 ½	5 ¹³ ⁄16 [148]	3¾ [86]	5½ [129]	1% [41]	5% [137]	1% [41]	3 ¹⁵ / ₁₆ [100]	³ / ₄ [20]	1 [25]	0.218 [6]	% [16]	25/8 [67]	21/2		



	6" LOWER & BACK CONNECTION DIMENSIONS																	
Dial Size (inches)	Α	В	С	D	Е	F	G	н	H1	J	KK	L	L Min.	L Max.	М	s	Т	Weight (lbs)
6	6% [163]	2 ⁷ / ₁₆ [62]	4¾ [120]	7/8 [22]	5¾ [137]	15/8 [42]	3 ¹⁵ / ₁₆ [100]	4 ⁹ / ₁₆ [116]	4% ₂ [109]	⁵ / ₆₄ [2]	2 ¹¹ / ₁₆ [69]	0.218 [6]	½16 [2]	½ [13]	6 [152]	¹¹ / ₁₆ [17]	5% [16]	6



	81/2" LOWER & BACK CONNECTION DIMENSIONS																
Dial Size (inches)	Α	В	С	D	Е	F	G	н	K	М	Р	s	Т	U	СС	LL	Weight (lbs)
81/2	10½6 [257]	2½ [73]	4 ³ / ₄ [121]	1½6 [27]	95/8 [244]	15/8 [41]	6 [152]	1¾ [35]	1½6 [27]	9 [229]	2½ [54]	5% [16]	5⁄8 [16]	³ ⁄ ₄ [19]	1/4 -20	½ - ½ [3] [13]	6

