Data Sheet

1220 General Service Pressure Gauge



- 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	SP	ECI	FI	CAT	0	NS
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Accuracy:	$\pm 1\%$ 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 ^{$^{\text{TM}}$} 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 Connec	Process Connection Material								
Phosphor bronze tube	Brass bi	Brass brazed								
316L Stainless steel	316L Stainl	316L Stainless steel								
K Monel [®]	K Mon	K Monel®								
NON-WETTED COMPONENTS										
Case	Back Cover	Ring								
4½": Black phenolic, solid front 6": Black polypropylene, solid front 8½": Black aluminum, solid front	4 ½": Polycarbonate 6": Polypropylene 8 ½": 300 SS	6": Poly	, Polycarbonate propylene jed, black enamel							

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- 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)										



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ORDERING CODE	Example:	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	on (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 - ¹ ⁄ ₄ NPT Male				02			
04 - 1/2 NPT Male							
Process Connection Location					-		
L - Lower						-	
B - Lower back					В	-	
Options (If choosing an option(s) must include an	1 "X")					X	
C4 - Traceable calibration certificate						C4	
LL - PLUS! [™] Performance							
TS - Throttle screw (standard with <i>PLUS!</i> ™)							
PD - Acrylic window							
SG - Safety glass							
EP - Maximum pointer, adjustable (41/2" and 6" dial o	nly)						
SH - Red set hand, stationary							
NH - Stainless steel 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	d ranges)						

100# - 100 psi

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

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SIN	GLE SCALE					NOTES
	psi	bar	kPa	Мра	kg/cm ²	
Vacuum	30IMV	N1BR	N100KP	N0.1MP	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#	-	-	-	-	
P		N1/3BR	N100/300KP	N0.1/3MP	N1/3KG	
Compound	30IMV&60#	-	-	-	-	
Col	-	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#	-	-	-	-	
Positive Pressure	-	25BR	2500KP	2.5MP	25KG	
Pres	400#	-	-	-	-	
sitive	600#	40BR	4000KP	4MP	40KG	
Pos	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	

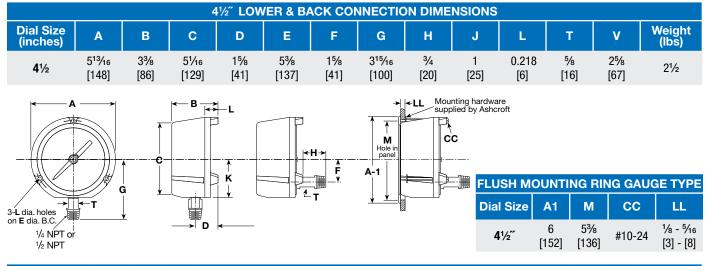
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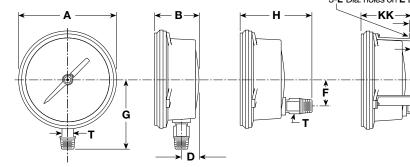
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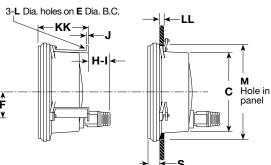
DIMENSIONS in [] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings



	6 LOWER & BACK CONNECTION DIMENSIONS																	
Dial Size	•	В		D	-	-			114				L	L	М	S	-	Weight (lbs)
Dial Size (inches)	A	В		U	E	F	G	п	-	J	N N	L	Min.	Max.	IVI	5		(lbš)
6	6¾	2 ⁷ /16	43⁄4	7⁄8	5¾	1%	3 ¹⁵ ⁄16	4%16	4%2	5⁄64	2 ¹¹ /16	0.218	¹ /16	1/2	6	¹¹ /16	5⁄8	6
6	[163]	[62]	[120]	[22]	[137]	[42]	[100]	[116]	[109]	[2]	[69]	[6]	[2]	[13]	[152]	[17]	[16]	0





	81/2" LOWER & BACK CONNECTION DIMENSIONS																
Dial Size (inches)	Α	В	С	D	Е	F	G	н	к	м	Р	S	т	U	сс	LL	Weight (lbs)
8 ½	10¼16 [257]	2 ⁷ ⁄8 [73]	4¾ [121]	11⁄16 [27]	95⁄8 [244]	15⁄⁄8 [41]	6 [152]	1¾ [35]	11⁄16 [27]	9 [229]	21⁄8 [54]	5% [16]	⁵⁄8 [16]	³ ⁄4 [19]	¹ ⁄4 -20	¹ / ₈ - 1⁄2 [3] [13]	6

Nuts & washers not supplied by Ashcroft ·B ←s -B-Ċ т М Hole in F panel ٨ Ġ н 3 Mounting studs **CC** threaded equally spaced on **E** dia. B.C. κ - LL D

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