

Data Sheet

8008A Commercial Pressure Gauge

FEATURES

- Meets EN837-1 and ASME B40.100 specifications
- Corrosion resistant stainless steel case
- Dry gauges are field fillable
- FlutterGuard™ standard on dry gauges
- Custom dials available
- Ventable fill plug
- Accessory kits for easy panel mounting

TYPICAL USES

- Hydraulic systems
- Hydraulic hand tools
- Injection molding equipment
- Pressure washers and sprayers
- Paint spray equipment
- Compressors
- Irrigation equipment



SPECIFICATIONS

Accuracy:	63mm: ±1.6% of span per EN837-1 ±1% of span per EN837-1 ±2-1-2% of span ASME B40.100
	100mm: ±1% of span per EN837-1
Sizes:	63mm (2½"); 100mm (4')
Ranges:	Vacuum, compound, 15 to 15,000 psi, bar, kPa, MPa, kg/cm², (available in single or dual scale)
Working Pressure:	Steady: 75% full-scale value Fluctuating: 80% full-scale value Short Time: full-scale value
Over Pressure/ Proof Pressure:	≤100 bar ranges: 125% of maximum scale value >100 to ≤600 bar ranges: 115% of maximum scale value >600 to ≤1000 bar ranges: 110% of maximum scale value
Process Connection Location:	63mm: Lower or center back 100mm: Lower or lower back
Process Connection Sizes:	63mm: ¼ NPT, ¼ NPT, G¼ B, ¼ BSPT, SAE-4 ¼-20, M14x1.5, #4JIC 100mm: ¼ NPT, ½ NPT, G¼ B, G½ B, M14x1.5, M20x1.5, ¼ BSPT, ½ BSPT
Dial:	Black figures on white background (blue secondary scale for dual scale dials); aluminum
Pointer:	Black, aluminum
Movement:	Brass
Dampening:	FlutterGuard™, Glycerin fill, Silicone fill
Temperature Effects:	±0.04% of span per °C change; reference temp. 20°C ±0.4% of span per 18°F change; reference temp. 68°F
Approvals:	RoHS (EU Directives 2011/65/EU and 2015/863); PED (2014/68/EU); REACH compliant; CRN; IP 66 rating; Nema 4 for water and dust ingress

KEY BENEFITS

- Rugged design for OEM applications
- Cost effective for high volume applications
- Retrofits existing applications
- Customizable for new applications

WETTED COMPONENTS

Bourdon Tube	Process Connection	Restrictor
Bronze (vacuum-8700 psi & compound) 316 SS (10,000 psi-15,000 psi)	Brass/Soldered (vacuum-8,700 psi & compound) Brass/Brazed (10,000 psi & 15,000 psi)	Brass (0.013" orifice)

NON-WETTED COMPONENTS

Case	Window	Ring
304 SS	Polycarbonate, glass, or safety glass	304 SS, crimped

MIN/MAX TEMPERATURE LIMITS

Version	Ambient	Process	Storage
Dry with FlutterGuard™	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Glycerin Fill	20°F to 158°F (-7°C to 70°C)	-4°F to 158°F (-20°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Silicone Fill	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)

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ORDERING CODE	Example:	63	8008A	4	G	02	L	P	0	L	10BR	XWP
Dial Size												
63 - 63mm / 2½"		63										
10 - 100mm / 4"												
Model												
8008A - Pressure gauge			8008A									
Case/Ring Material												
4 - 304 SS				4								
Fill												
F - Dry with Flutterguard™												
G - Glycerine filled					G							
S - Silicone filled												
N - Dry, Silicone free												
T - Dry, with silicone free Flutterguard™												
Process Connection Sizes												
01 - ⅙ NPT Male (63mm only)												
02 - ¼ NPT Male						02						
04 - ½ NPT Male (100mm only)												
13 - G¼ B Male												
15 - G½ B Male (100mm only)												
KA - ¼ BSPT												
RW - SAE-4 7/16-20 (63mm only)												
16 - M20x1.5 (100mm only)												
41 - M14x1.5												
EJ - #4JIC (63mm only)												
KD - ½ BSPT (100mm only)												
Process Connection Location												
L - Lower							L					
B - Lower-back (100mm only)												
C - Center-back (63mm only)												
Window Material												
P - Polycarbonate								P				
R - Regular glass												
S - Safety glass												
Case Mounting												
0 - Stem mounting									0			
1 - U-clamp												
2 - Front flange												
4 - Front flange and U-clamp												
5 - Trim ring and U-clamp (63mm only)												
Accuracy												
J - ±1% of span												
L - ±1.6% of span										L		
M - ±2-1-2% of span												
Ranges (coding examples only, see Table 1 for all standard ranges)												
10BR											10BR	
Options (If choosing an option(s) must include an "X" (See Table 2 on page 6 for more options)												
BM - Black primary and secondary dial scales on white background												X__
CR - Custom individual carton label information												
RM - Black primary and red secondary dial scales on white background												
WP - Omit restrictor (throttle plug)												WP
ZO - Bulk packaging												
ZP - Customer part number and description on Ashcroft label												

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TABLE 1 - COMMERCIAL GAUGE RANGES

psi	bar	kPa	Mpa	kg/cm ²	NOTES
30IMV	-1BR	-100KP	-.1MP	-1KSC	100mm gauge only available as liquid filled for these ranges.
-	-1&.6BR	-100&60KP	-.1&.06MP	-1&.6KSC	
V&15#	-	-	-	-	
-	-1&1.5BR	-100&150KP	-.1&.15MP	-1&1.5KSC	
V&30#	-	-	-	-	
-	-1&3BR	-100&300KP	-.1&.3MP	-1&3KSC	
V&60#	-	-	-	-	
-	-1&5BR	-100&500KP	-.1&.5MP	-1&5KSC	
V&100#	-	-	-	-	
-	-1&9BR	-100&900KP	-.1&.9MP	-1&9KSC	
15#	1BR	100KP	.1MP	1KSC	100mm gauge only available as liquid filled for these ranges.
20#	-	-	-	-	
-	1.6BR	160KP	.16MP	1.6KSC	
30#	-	-	-	-	
-	2.5BR	250KP	.25MP	2.5KSC	
60#	4BR	400KP	.4MP	4KSC	
-	6BR	600KP	.6MP	6KSC	
100#	-	-	-	-	
120#	-	-	-	-	
-	10BR	1,000KP	1MP	10KSC	
160#	-	-	-	-	
200#	-	-	-	-	
-	16BR	1,600KP	1.6MP	16KSC	
300#	-	-	-	-	
-	25BR	2,500KP	2.5MP	25KSC	
400#	-	-	-	-	
500#	-	-	-	-	
600#	40BR	4,000KP	4MP	40KSC	
800#	-	-	-	-	
-	60BR	6,000KP	6MP	60KSC	
1000#	-	-	-	-	
1500#	100BR	10,000KP	10MP	100KSC	
2000#	-	-	-	-	
-	160BR	16,000KP	16MP	160KSC	
3000#	-	-	-	-	
-	250BR	25,000KP	25MP	250KSC	
4000#	-	-	-	-	
5000#	-	-	-	-	
6000#	400BR	40,000KP	40MP	400KSC	
8000#	-	-	-	-	
-	600BR	60,000KP	60MP	600KSC	
10000#	-	-	-	-	
15000#	1000BR	100,000KP	100MP	1,000KSC	

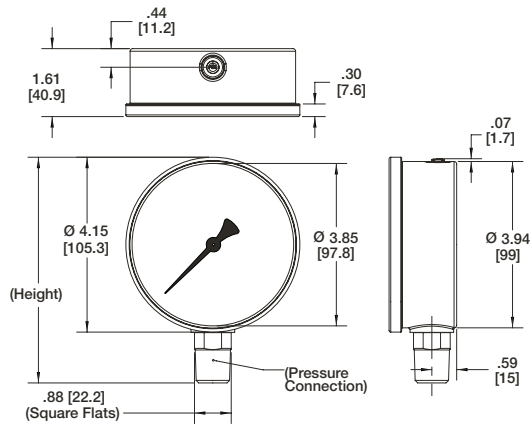
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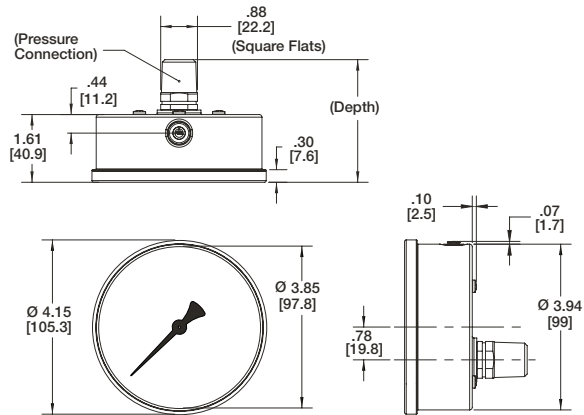
DIMENSIONS in [] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings

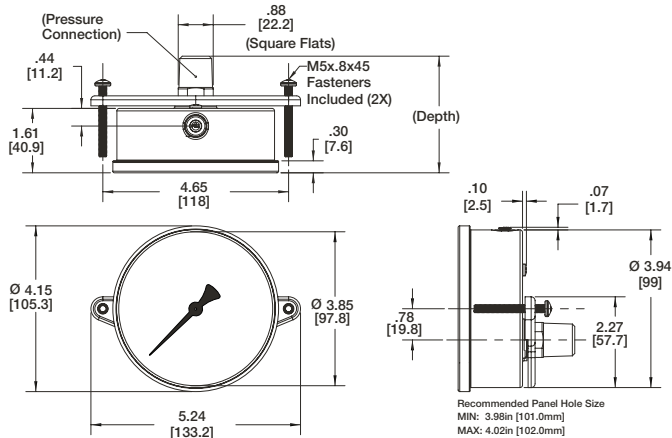
100mm lower connect		
Connection Code	Pressure Connection	Height
02	¼ NPT	5.25 [133.4]
04	½ NPT	5.35 [135.9]
13	G¼ B	5.12 [130.0]
15	G½ B	5.44 [138.2]
41	M14x1.5	5.24 [133.1]
16	M20x1.5	5.44 [138.1]
KA	¼ BSPT	5.16 [131.1]
KD	½ BSPT	5.35 [135.9]



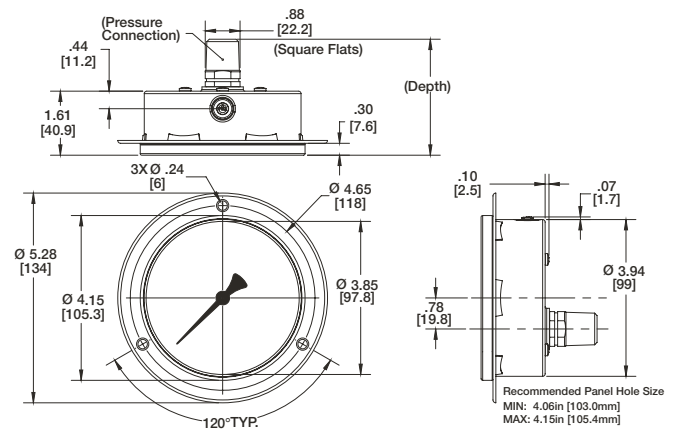
100mm lower back connect		
Connection Code	Pressure Connection	Height
02	¼ NPT	5.25 [133.4]
04	½ NPT	5.35 [135.9]
13	G¼ B	5.12 [130.0]
15	G½ B	5.44 [138.2]
41	M14x1.5	5.24 [133.1]
16	M20x1.5	5.44 [138.1]
KA	¼ BSPT	5.16 [131.1]
KD	½ BSPT	5.35 [135.9]



100mm lower back connect - U clamp		
Connection Code	Pressure Connection	Height
02	¼ NPT	5.25 [133.4]
04	½ NPT	5.35 [135.9]
13	G¼ B	5.12 [130.0]
15	G½ B	5.44 [138.2]
41	M14x1.5	5.24 [133.1]
16	M20x1.5	5.44 [138.1]
KA	¼ BSPT	5.16 [131.1]
KD	½ BSPT	5.35 [135.9]



100mm lower back connect - front flange		
Connection Code	Pressure Connection	Height
02	¼ NPT	5.25 [133.4]
04	½ NPT	5.35 [135.9]
13	G¼ B	5.12 [130.0]
15	G½ B	5.44 [138.2]
41	M14x1.5	5.24 [133.1]
16	M20x1.5	5.44 [138.1]
KA	¼ BSPT	5.16 [131.1]
KD	½ BSPT	5.35 [135.9]



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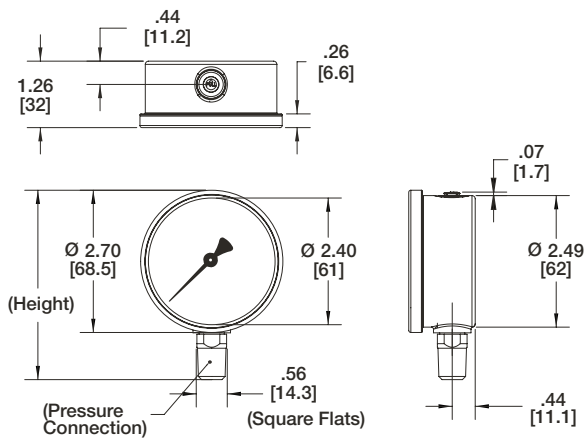
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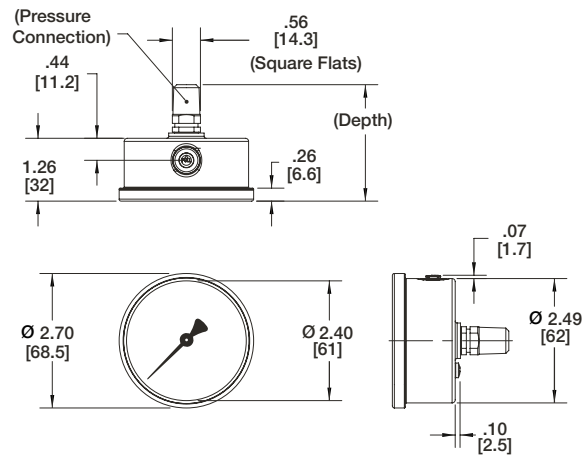
63mm lower connect

Connection Code	Pressure Connection	Height
01	1/8 NPT	2.17 [55.1]
02	1/4 NPT	2.33 [59.3]
13	G1/4 B	2.32 [59.0]
KA	1/4 BSPT	2.24 [57.0]
RW	SAE-4 7/16-20	2.40 [60.9]
41	M14 X 1.5	2.36 [60.0]
EJ	#4JIC	2.27 [57.7]



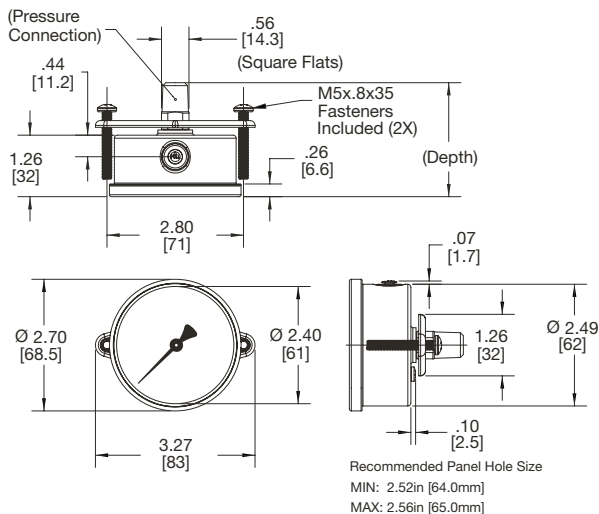
63mm center back connect

Connection Code	Pressure Connection	Height
01	1/8 NPT	2.17 [55.1]
02	1/4 NPT	2.33 [59.3]
13	G1/4 B	2.32 [59.0]
KA	1/4 BSPT	2.24 [57.0]
RW	SAE-4 7/16-20	2.40 [60.9]
41	M14 X 1.5	2.36 [60.0]
EJ	#4JIC	2.27 [57.7]



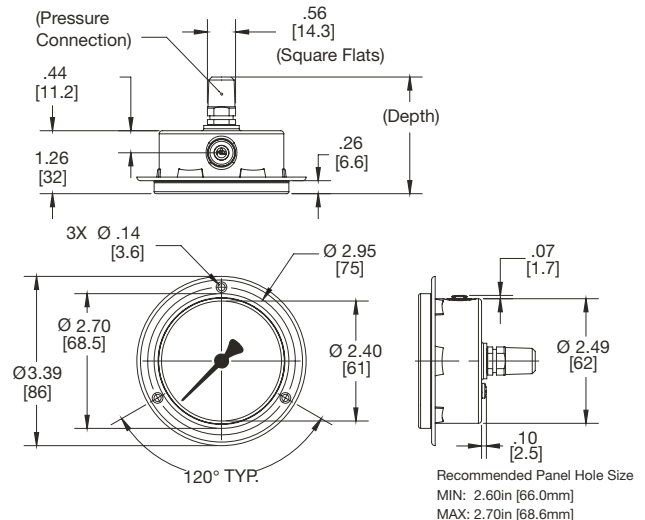
63mm center back connect - U clamp

Connection Code	Pressure Connection	Height
01	1/8 NPT	2.17 [55.1]
02	1/4 NPT	2.33 [59.3]
13	G1/4 B	2.32 [59.0]
KA	1/4 BSPT	2.24 [57.0]
RW	SAE-4 7/16-20	2.40 [60.9]
41	M14 X 1.5	2.36 [60.0]
EJ	#4JIC	2.27 [57.7]



63mm center back connect - front flange

Connection Code	Pressure Connection	Height
01	1/8 NPT	2.17 [55.1]
02	1/4 NPT	2.33 [59.3]
13	G1/4 B	2.32 [59.0]
KA	1/4 BSPT	2.24 [57.0]
RW	SAE-4 7/16-20	2.40 [60.9]
41	M14 X 1.5	2.36 [60.0]
EJ	#4JIC	2.27 [57.7]



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63mm center back connect - U clamp with trim ring		
Connection Code	Pressure Connection	Height
01	¼ NPT	2.17 [55.1]
02	¼ NPT	2.33 [59.3]
13	G¼ B	2.32 [59.0]
KA	¼ BSPT	2.24 [57.0]
RW	SAE-4 ¼-20	2.40 [60.9]
41	M14 X 1.5	2.36 [60.0]
EJ	#4JIC	2.27 [57.7]

63mm lower, center back connect - rubber boot

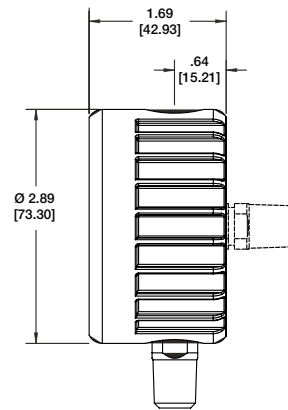
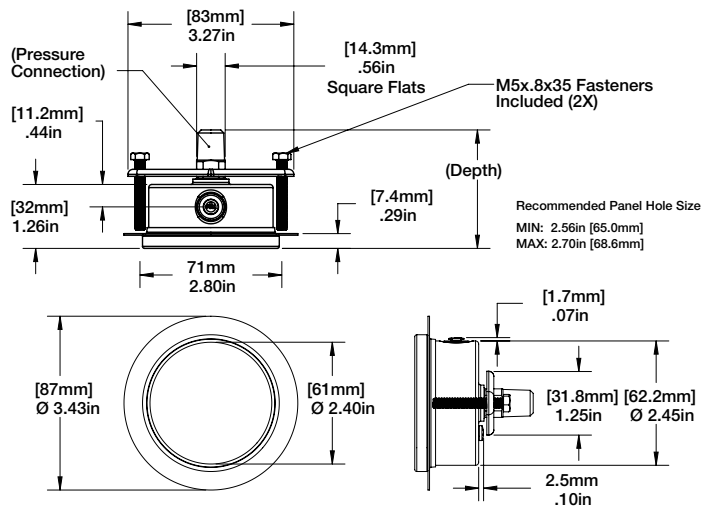


TABLE 2 - OPTIONS - Continued

ZQ - Customer part number only on label (no Ashcroft)
ZW - Customer part number and gauge description on label (no Ashcroft)
B1 - Black protective boot (63mm only)
S2 - Safety pattern gauge without baffle wall: designed by S2 per EN8337-1 (only available on 63mm gauge having a polycarbonate window)
T4 - 0.007" Orifice Restrictor
T7 - 0.020" Orifice Restrictor
T8 - 0.031" Orifice Restrictor
T9 - 0.063" Orifice Restrictor
99 - Serial number on dial