Data Sheet



8009S Pressure Gauge

FEATURES

- Removable bayonet ring allows for gauge recalibration
- Meets EN837-1 and ASME B40.100 specifications
- R110 & NGV 3.1 Approvals
- FlutterGuard[™] standard on dry gauges
- Custom dials available
- Accessory kits for easy panel mounting
- Designed to meet MSL Helium leak test of 1x10⁻⁶scc/s

TYPICAL USES

- Hydraulic systems
- Food and beverage
- Compressors and pumps
- Irrigation equipment
- Refrigerant applications
- Compressed and liquid natural gas applications
- Hydrogen cell, H₂ gas applications

SPECIFICATIONS

SFLOID IOAT		
Accuracy: 63 r	nm: mm:	$\pm 1.6\%$ of span per EN837-1 $\pm 1\%$ of span per EN837-1 (thru 10,000 psi) ± 2 -1-2% of span ASME B40.100 (thru 10,000 psi) $\pm 1\%$ of span per EN837-1 (thru 10,000 psi) $\pm 1.6\%$ of span per EN837-1
Dial Sizes:		63 mm (2½); 100 mm (4)
Ranges:		Vacuum, compound, 15 to 20,000 psi, bar, kPa, MPa, kg/cm², (available in single or dual scale)
Working Pressure	e:	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 ≤1400 bar ranges: 110% of maximum scale value
Process Connect Location:	ion	63 mm: Lower, center back or lower back 100 mm: Lower, center back or lower back
Process Connect Sizes:	ion	63 mm: ½ NPT, ¼ NPT, G¼ B, ¼ BSPT, SAE-4 ½ 20, M14x1.5, #4JIC, ¼ Tube stub male, ½ Tube stub male, ½ Tube stub male 100 mm: ¼ NPT, ½ NPT, G¼ B, G½ B, M14x1.5, M20x1.5, ¼ BSPT, ½ BSPT, ¼ Tube stub male, ¾ Tube stub male, ½ Tube stub male, ¼ High pressure female
Dial:		Black figures on white background (blue secondary scale for dual scale dials); aluminum
Pointer:		Black, aluminum
Movement:		316 Stainless steel
Dampening:		FlutterGuard [™] , Glycerin fill, Silicone fill
Temperature Effe	ects:	$\pm 0.04\%$ of span per °C change; reference temp. 20 °C $\pm 0.4\%$ of span per 18 °F change; reference temp. 68 °F
Approvals:		CE/UKCA, RoHS (EU Directives 2011/65/EU and 2015/863); PED (2014/68/EU); R110; NGV 3.1 IP66 rating; NEMA 4X for water and dust ingress



- Economical all stainless steel gauge
- Customizable for new applications
- Available in a variety of connections and ranges

WETTED	COMPON	ENTS			
Bourde	on Tube	Process Connection		Restrictor	
316 SS La	ser Welded	316	SS Laser Welded	SS (0.013" orifice)	
NON-WE		IPONI	ENTS		
Ca	ase		Window	Ring	
304 SS, ope	n front (STD.)		carbonate, glass, r safety glass	304 SS, bayonet (STD.)	
316 SS, ope	n front (OPT.)	Polycarbonate, glass, or safety glass		316 SS, bayonet (OPT.)	
	MIN/MA	X TE	MPERATURE L	IMITS	
Version	Ambien	t	Process	Storage	
Dry with Flutter- Guard [™]	-40 °F to 200 °F (-40 °C to 93 °C)		-40 °F to 250 °F (-40 °C to 121 °C)	-40 °F to 200 °F (-40 °C to 93 °C)	
Glycerin Fill	20 °F to 158 °F (-7 °C to 70 °C)		-4 °F to 212 °F (-20 °C to 100 °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 212 °F (-40 °C to 100 °C)	-40 °F to 158 °F (-40 °C to 70 °C)	

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Data Sheet





Dal Sico Sol: 43 mm / 2 ^M 86: 43 mm / 2 ^M Model Case/Inform Material 4 - 034 Statives steel File F. Ory with FlutterQuard" C. Opcorter filed O. Opcorter filed O. Space ScienceColon Sizes (See Table on page 3 for more options) O. * N MPI Medic O. Source ScienceColon Sizes (See Table on page 3 for more options) O. * N MPI Medic O. * N MPI Medic O. * Opcorter filed O. * Opcorter filed O. * See ScienceColon Sizes (See Table on page 3 for more options) O. * N MPI Medic O. * N MPI Medic O. * Opcorter filed <	ORDERING CODE	Example:	63	8009S	4	G	02	L	Р	0	L	10BR	XWP
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S - Safety glass Case Mounting 0 - Stem mounting (ower back and center back only: connection mounted) 6 - U-clamp (lower back and center back only: case mounted) 8 - Front flange and U-clamp (lower back and center back only: case mounted) 9 - Trim ring and U-clamp (lower back and center back only: case mounted) 1 - ±1.% of span (not available in 15,000 psi or 20,000 psi) L - ±1.% of span (not available in 5,000 psi or 20,000 psi) Ranges (c	P - Polycarbonate								Р				
Case Mounting 0 0 - Stem mounting 0 1 - U-clamp (center back only; connection mounted) 0 2 - Front flange (lower back and center back only) 3 3 - Rear flange 4 4 - Front flange and U-clamp (center back only; connection mounted) 5 5 - Trim ring and U-clamp (center back only; connection mounted) 6 6 - U-clamp (lower back and center back only; case mounted) 8 8 - Front flange and U-clamp (lower back and center back only; case mounted) 9 9 - Trim ring and U-clamp (lower back and center back only; case mounted) 1 Accuracy 1 J - ±1% of span (not available in 15,000 psi or 20,000 psi) 1 L - ±1.6% of span (not available in 15,000 psi or 20,000 psi) 1 N - ±2-1-2% of span (not available in 15,000 psi or 20,000 psi) 1 Ranges (coding example only, see Table 1 for all standard ranges) 10BR 100#/BR - 100# black primary and secondary dial scales on white background 10BR 100#/BR - 100# black primary inter scale/ Bar minor blue outer scale (number value is dominant scale) BR/100# - Bar minor blue inner scale/ Bar minor blue outer scale (number value is dominant scale) Options (If choosing an option(s) must include an "X") (See Table on page 3 for more options) X	R - Regular glass												
0 - Stem mounting 0 1 - U-clamp (center back only; connection mounted) 2 2 - Front flange (lower back and center back only) 3 3 - Rear flange 4 4 - Front flange and U-clamp (center back only; connection mounted) 5 5 - Trim ring and U-clamp (center back only; case mounted) 6 6 - U-clamp (lower back and center back only; case mounted) 8 9 - Trim ring and U-clamp (lower back and center back only; case mounted) 9 9 - Trim ring and U-clamp (lower back and center back only; case mounted) 4 Accuracy 1 1 1 - ±1.6% of span (not available in 15,000 psi or 20,000 psi) L 1 - ±1.2% of span (not available in 15,000 psi or 20,000 psi) L 1 - ±1.2% of span (not available in 15,000 psi or 20,000 psi) 10BR 10BR - Black primary and secondary dial scales on white background 10BR 100#/BR - 100# black primary inner scale/ Bar minor blue outer scale (number value is dominant scale) BR/100# - Bar minor blue inner scale100#/ black primary outer scale (number value is dominant scale) 0Ptions (If choosing an option(s) must include an "X") (See Table on page 3 for more options) X	S - Safety glass												
1 - U-clamp (center back only; connection mounted) 2 - Front flange (lower back and center back only) 3 - Rear flange 4 - Front flange and U-clamp (center back only; connection mounted) 5 - Trim ring and U-clamp (center back only; case mounted) 6 - U-clamp (lower back and center back only; case mounted) 8 - Front flange and U-clamp (lower back and center back only; case mounted) 9 - Trim ring and U-clamp (lower back and center back only; case mounted) 9 - Trim ring and U-clamp (lower back and center back only; case mounted) 9 - Trim ring and U-clamp (lower back and center back only; case mounted) Accuracy J - ±1% of span (not available in 15,000 psi or 20,000 psi) Ranges (coding example only, see Table 1 for all standard ranges) 10BR - Black primary and secondary dial scales on white background 10#/BR - 100# black primary inner scale/ Bar minor blue outer scale (number value is dominant scale) BR/100# - Bar minor blue inner scale100#/ black primary outer scale (number value is dominant scale) BR/100# - Bar minor blue inner scale/100#/ black primary outer scale (number value is dominant scale) Options (If choosing an option(s) must include an "X") (See Table on page 3 for more options)	Case Mounting									-			
2 - Front flange (lower back and center back only) 3 - Rear flange 4 - Front flange and U-clamp (center back only; connection mounted) 5 - Trim ring and U-clamp (center back only; connection mounted) 6 - U-clamp (lower back and center back only; case mounted) 8 - Front flange and U-clamp (lower back and center back only; case mounted) 9 - Trim ring and U-clamp (lower back and center back only; case mounted) Accuracy J - ±1% of span (not available in 15,000 psi or 20,000 psi) L - ±1.6% of span M - ±2-1-2% of span (not available in 15,000 psi or 20,000 psi) Ranges (coding example only, see Table 1 for all standard ranges) 10BR - Black primary and secondary dial scales on white background 10 [#] /BR - 100# black primary inner scale/ Bar minor blue outer scale (number value is dominant scale) BR/100# - Bar minor blue inner scale 100#/ black primary outer scale (number value is dominant scale) Options (If choosing an option(s) must include an "X") (See Table on page 3 for more options) X	0 - Stem mounting									0	_		
3 - Rear flange 4 - Front flange and U-clamp (center back only; connection mounted) 5 - Trim ring and U-clamp (center back only; connection mounted) 6 - U-clamp (lower back and center back only; case mounted) 8 - Front flange and U-clamp (lower back and center back only; case mounted) 9 - Trim ring and U-clamp (lower back and center back only; case mounted) 9 - Trim ring and U-clamp (lower back and center back only; case mounted) Accuracy J - ±1% of span (not available in 15,000 psi or 20,000 psi) L - ±1.6% of span M - ±2-1-2% of span (not available in 15,000 psi or 20,000 psi) Ranges (coding example only, see Table 1 for all standard ranges) 10BR - Black primary and secondary dial scales on white background 100#/BR - 100# black primary inner scale/ Bar minor blue outer scale (number value is dominant scale) BR/100# - Bar minor blue inner scale100#/ black primary outer scale (number value is dominant scale) Options (If choosing an option(s) must include an "X") (See Table on page 3 for more options) X	1 - U-clamp (center back only; co	onnection mounted)									_		
4 - Front flange and U-clamp (center back only; connection mounted) 5 - Trim ring and U-clamp (center back only; connection mounted) 6 - U-clamp (lower back and center back only; case mounted) 8 - Front flange and U-clamp (lower back and center back only; case mounted) 9 - Trim ring and U-clamp (lower back and center back only; case mounted) 9 - Trim ring and U-clamp (lower back and center back only; case mounted) Accuracy J - ±1% of span (not available in 15,000 psi or 20,000 psi) L - ±1.6% of span (not available in 15,000 psi or 20,000 psi) Ranges (coding example only, see Table 1 for all standard ranges) 10BR - Black primary and secondary dial scales on white background 10#/BR - 100# black primary inner scale/ Bar minor blue outer scale (number value is dominant scale) BR/100# - Bar minor blue inner scale/100#/ black primary outer scale (number value is dominant scale) Options (If choosing an option(s) must include an "X") (See Table on page 3 for more options) X	2 - Front flange (lower back and	center back only)											
5 - Trim ring and U-clamp (center back only; connection mounted) 6 - U-clamp (lower back and center back only; case mounted) 8 - Front flange and U-clamp (lower back and center back only; case mounted) 9 - Trim ring and U-clamp (lower back and center back only; case mounted) 9 - Trim ring and U-clamp (lower back and center back only; case mounted) Accuracy J - ±1% of span (not available in 15,000 psi or 20,000 psi) L - ±1.6% of span M - ±2-1-2% of span (not available in 15,000 psi or 20,000 psi) Ranges (coding example only, see Table 1 for all standard ranges) 10BR - Black primary and secondary dial scales on white background 100#/BR - 100# black primary inner scale/ Bar minor blue outer scale (number value is dominant scale) BR/100# - Bar minor blue inner scale100#/ black primary outer scale (number value is dominant scale) Options (If choosing an option(s) must include an "X") (See Table on page 3 for more options) X	3 - Rear flange										_		
6 - U-clamp (lower back and center back only; case mounted) 8 - Front flange and U-clamp (lower back and center back only; case mounted) 9 - Trim ring and U-clamp (lower back and center back only; case mounted) Accuracy J - ±1% of span (not available in 15,000 psi or 20,000 psi) L - ±1.6% of span (not available in 15,000 psi or 20,000 psi) Ranges (coding example only, see Table 1 for all standard ranges) 100#/BR - 100# black primary and secondary dial scales on white background 100#/BR - 100# black primary inner scale/ Bar minor blue outer scale (number value is dominant scale) BR/100# - Bar minor blue inner scale100#/ black primary outer scale (number value is dominant scale) Options (If choosing an option(s) must include an "X") (See Table on page 3 for more options) X	4 - Front flange and U-clamp (cer	nter back only; connection m	ounted)								-		
8 - Front flange and U-clamp (lower back and center back only; case mounted) 9 - Trim ring and U-clamp (lower back and center back only; case mounted) Accuracy J - ±1% of span (not available in 15,000 psi or 20,000 psi) L - ±1.6% of span M - ±2-1-2% of span (not available in 15,000 psi or 20,000 psi) Ranges (coding example only, see Table 1 for all standard ranges) 10BR - Black primary and secondary dial scales on white background 100#/BR - 100# black primary inner scale/ Bar minor blue outer scale (number value is dominant scale) BR/100# - Bar minor blue inner scale100#/ black primary outer scale (number value is dominant scale) Options (If choosing an option(s) must include an "X") (See Table on page 3 for more options) X	5 - Trim ring and U-clamp (center	r back only; connection mour	nted)								-		
8 - Front flange and U-clamp (lower back and center back only; case mounted) 9 - Trim ring and U-clamp (lower back and center back only; case mounted) Accuracy J - ±1% of span (not available in 15,000 psi or 20,000 psi) L - ±1.6% of span M - ±2-1-2% of span (not available in 15,000 psi or 20,000 psi) Ranges (coding example only, see Table 1 for all standard ranges) 10BR - Black primary and secondary dial scales on white background 100#/BR - 100# black primary inner scale/ Bar minor blue outer scale (number value is dominant scale) BR/100# - Bar minor blue inner scale100#/ black primary outer scale (number value is dominant scale) Options (If choosing an option(s) must include an "X") (See Table on page 3 for more options) X	6 - U-clamp (lower back and cen	ter back only; case mounted)								-		
9 - Trim ring and U-clamp (lower back and center back only; case mounted) Accuracy J - ±1% of span (not available in 15,000 psi or 20,000 psi) L - ±1.6% of span M - ±2-1-2% of span (not available in 15,000 psi or 20,000 psi) Ranges (coding example only, see Table 1 for all standard ranges) 10BR - Black primary and secondary dial scales on white background 100#/BR - 100# black primary inner scale/ Bar minor blue outer scale (number value is dominant scale) BR/100# - Bar minor blue inner scale100#/ black primary outer scale (number value is dominant scale) Options (If choosing an option(s) must include an "X") (See Table on page 3 for more options) X				ed)							-		
Accuracy J - ±1% of span (not available in 15,000 psi or 20,000 psi) L - ±1.6% of span M - ±2-1-2% of span (not available in 15,000 psi or 20,000 psi) Ranges (coding example only, see Table 1 for all standard ranges) 10BR - Black primary and secondary dial scales on white background 100#/BR - 100# black primary inner scale/ Bar minor blue outer scale (number value is dominant scale) BR/100# - Bar minor blue inner scale100#/ black primary outer scale (number value is dominant scale) Options (If choosing an option(s) must include an "X") (See Table on page 3 for more options) X			-	,							-		
J - ±1% of span (not available in 15,000 psi or 20,000 psi) L - ±1.6% of span L M - ±2-1-2% of span (not available in 15,000 psi or 20,000 psi) L Ranges (coding example only, see Table 1 for all standard ranges) 10BR - Black primary and secondary dial scales on white background 10BR 100#/BR - 100# black primary inner scale/ Bar minor blue outer scale (number value is dominant scale) BR/100# - Bar minor blue inner scale100#/ black primary outer scale (number value is dominant scale) X			,								-		
L - ±1.6% of span L M - ±2.1-2% of span (not available in 15,000 psi or 20,000 psi) Ranges (coding example only, see Table 1 for all standard ranges) 10BR - Black primary and secondary dial scales on white background 10BR 100#/BR - 100# black primary inner scale/ Bar minor blue outer scale (number value is dominant scale) BR/100# - Bar minor blue inner scale100#/ black primary outer scale (number value is dominant scale) Options (If choosing an option(s) must include an "X") (See Table on page 3 for more options) X		15.000 psi or 20.000 psi)											
M - ±2-1-2% of span (not available in 15,000 psi or 20,000 psi) Ranges (coding example only, see Table 1 for all standard ranges) 10BR - Black primary and secondary dial scales on white background 100#/BR - 100# black primary inner scale/ Bar minor blue outer scale (number value is dominant scale) BR/100# - Bar minor blue inner scale100#/ black primary outer scale (number value is dominant scale) Options (If choosing an option(s) must include an "X") (See Table on page 3 for more options) X		·/···									L		
Ranges (coding example only, see Table 1 for all standard ranges) 10BR 10BR - Black primary and secondary dial scales on white background 10BR 100#/BR - 100# black primary inner scale/ Bar minor blue outer scale (number value is dominant scale) 10BR BR/100# - Bar minor blue inner scale100#/ black primary outer scale (number value is dominant scale) X	· · · · · · · · · · · · · · · · · · ·	ble in 15,000 psi or 20.000 ps	i)										
10BR - Black primary and secondary dial scales on white background 10BR 100#/BR - 100# black primary inner scale/ Bar minor blue outer scale (number value is dominant scale) 10BR BR/100# - Bar minor blue inner scale100#/ black primary outer scale (number value is dominant scale) X Options (If choosing an option(s) must include an "X") (See Table on page 3 for more options) X			,									1	
100#/BR - 100# black primary inner scale/ Bar minor blue outer scale (number value is dominant scale) BR/100# - Bar minor blue inner scale100#/ black primary outer scale (number value is dominant scale) Options (If choosing an option(s) must include an "X") (See Table on page 3 for more options) X												10BR	
BR/100# - Bar minor blue inner scale100#/ black primary outer scale (number value is dominant scale) Image: Comparison of the scale of the sc	,	,	0	er value is	dominar	nt scale)							
Options (If choosing an option(s) must include an "X") (See Table on page 3 for more options) X													
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			and on pag	,	one opine								

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Process Connection Size Table				
Connection Code	Process Connection			
01	1/8 NPT Male (63 mm only)			
02	1/4 NPT Male			
04	1/2 NPT Male (100 mm only)			
09	1/4 High pressure, female (recommended for 20,000 psi, 100 mm only)			
13	G¼ B Male			
15	G½ B Male (100 mm only)			
16	M20x1.5 (100 mm only)			
41	M14x1.5 (63 mm only)			
EJ	#4JIC (63 mm only)			
KA	1/4 BSPT			
KD	1/2 BSPT (100 mm only)			
JP	1/4" Tube stub, male (not available on 15,000 psi or 20,000 psi)			
JR	% Tube stub, male (not available on 15,000 psi or 20,000 psi)			
JS	$\frac{1}{2}$ Tube stub, male (not available on 15,000 psi or 20,000 psi)			
RW	SAE-4 $\%_{\rm 16}$ -20 (63 mm only) (not available on 15,000 psi or 20,000 psi)			

Options (If choosing an option(s) must include an "X")

- AR Adjustable red indicator and min/max drag pointer (63 mm dry gauge only)
- BM Black primary and secondary dial scales on white background
- CR Custom individual carton label information
- RM Black primary and red secondary dial scales on white background
- WP Omit restrictor
- ZO Bulk packaging
- ZP Customer part number and description on Ashcroft label
- ZQ Customer part number only (no Ashcroft®)
- ZW Customer part number and gauge description on label (no Ashcroft indentification)
- B1 Black protective boot (63 mm only, lower connect or center back connect only)
- S2 Safety pattern gauge without baffle wall; designed by S2 per EN837-1 (only available on 63 mm gauge having a polycarbonate window)
- 99 Serial number on dial
- ML Mass spectrometer leak test
- R5 Ammonia refrigerant dial (30IMV&150#, 30IMV&300#)
- 8N NGV 3.1 Approval on dial
- 8R R110 Approval on dial



		TAB	LE 1 - COMM	ERCIAL GAU	GE RANGES
psi	bar	kPa	Мра	kg/cm ²	NOTES
30IMV	-1BR	-100KP	1MP	-1KSC	
-	-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#	_	_	_	_	
V&150#	_	_	_	_	
V&300#	_	_	_	_	
-	-1&9BR	-100&900KP	1&.9MP	-1&9KSC	
15#	1BR	100KP	.1MP	1KSC	
20#	-	-	_	_	
-	1.6BR		.16MP	1.6KSC	
30#	-	-	. TOIVIF	-	
-	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	
-	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	
7500#	-	-	-	-	
-	600BR	60,000KP	60MP	600KSC	
10000#	_	_	-	-	
15000#	1000BR	100,000KP	100MP	1,000KSC	Only available with $\pm 1.6\%$ of span accuracy. This range is not CRN registered.
20000#	_	_	_	_	Only available with $\pm 1.6\%$ of span accuracy. This range is not CRN registered.

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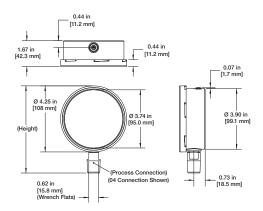
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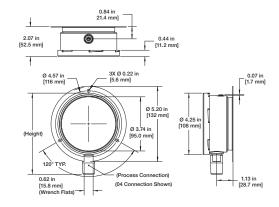
DIMENSIONS in [] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings

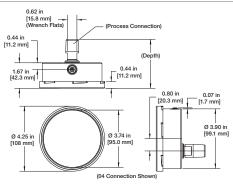
100 mm	100 mm lower connect -stem mount				
Connection Code	Process Connection	Height			
02	1/4 NPT	5.56[141.2]			
04	1/2 NPT	5.61 [142.4]			
09	1/4 HP Female	5.61 [142.4]			
13	G1⁄4 B	5.48 [139.1]			
15	G1⁄2 B	5.72 [145.4]			
16	M20x1.5	5.72 [145.4]			
JP	1/4 Tube	5.59 [141.9]			
JR	3% Tube	5.72 [143.8]			
JS	1/2 Tube	5.75 [146.1]			
KA	1/4 BSPT or R 1/4	5.41 [137.5]			
KD	1/2 BSPT or R 1/2	5.61 [142.4]			

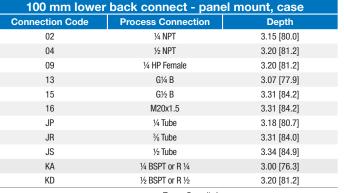


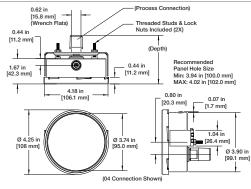
100 mm lower connect - rear flange					
Connection Code	Process Connection	Height			
02	1/4 NPT	5.56[141.2]			
04	1/2 NPT	5.61 [142.4]			
09	1/4 HP Female	5.61 [142.4]			
13	G1⁄4 B	5.48 [139.1]			
15	G1⁄2 B	5.72 [145.4]			
16	M20x1.5	5.72 [145.4]			
JP	1/4 Tube	5.59 [141.9]			
JR	3% Tube	5.72 [145.2]			
JS	1/2 Tube	5.75 [146.1]			
KA	1/4 BSPT or R 1/4	5.41 [137.5]			
KD	1/2 BSPT or R 1/2	5.61 [142.4]			



100 mm lov	ver back connect - st	em mount	100 mm l
Connection Code	Process Connection	Depth	Connection Co
02	1/4 NPT	3.15 [80.0]	02
04	1/2 NPT	3.20 [81.2]	04
09	1/4 HP Female	3.20 [81.2]	09
13	G1⁄4 B	3.07 [77.9]	13
15	G1⁄2 B	3.31 [84.2]	15
16	M20x1.5	3.31 [84.2]	16
JP	1/4 Tube	3.18 [80.7]	JP
JR	3/8 Tube	3.31 [84.0]	JR
JS	1/2 Tube	3.34 [84.9]	JS
KA	1/4 BSPT or R 1/4	3.00 [76.3]	KA
KD	1/2 BSPT or R 1/2	3.20 [81.2]	KD







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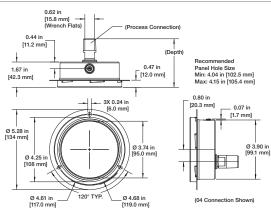
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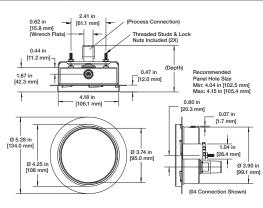
DIMENSIONS in [] are millimeters

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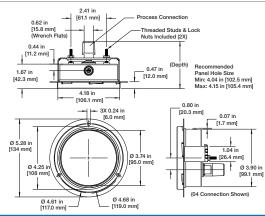
100 mm lo	100 mm lower back connect - front flange				
Connection Code	Process Connection	Depth			
02	1/4 NPT	3.15 [80.0]			
04	1/2 NPT	3.20 [81.2]			
09	1/4 HP Female	3.20 [81.2]			
13	G1/4 B	3.07 [77.9]			
15	G1⁄2 B	3.31 [84.2]			
16	M20x1.5	3.31 [84.2]			
JP	1/4 Tube	3.18 [80.7]			
JR	3% Tube	3.31 [84.0]			
JS	½ Tube	3.34 [84.9]			
KA	1/4 BSPT or R 1/4	3.00 [76.3]			
KD	1/2 BSPT or R 1/2	3.20 [81.2]			



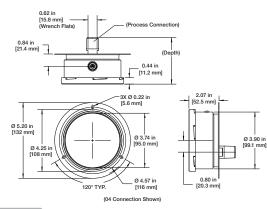
100 mm lower back connect - panel mount case, trim ring				
Connection Code	Process Connection	Depth		
02	1/4 NPT	3.15 [80.0]		
04	1/2 NPT	3.20 [81.2]		
09	1/4 HP Female	3.20 [81.2]		
13	G1⁄4 B	3.07 [77.9]		
15	G1/2 B	3.31 [84.2]		
16	M20x1.5	3.31 [84.2]		
JP	1/4 Tube	3.18 [80.7]		
JR	3% Tube	3.31 [84.0]		
JS	1/2 Tube	3.34 [84.9]		
KA	1/4 BSPT or R 1/4	3.00 [76.3]		
KD	1/2 BSPT or R 1/2	3.20 [81.2]		



100 mm lower back connect - panel mount case, front flange					
Connection Code	Process Connection	Depth			
02	1/4 NPT	3.15 [80.0]			
04	1/2 NPT	3.20 [81.2]			
09	1/4 HP Female	3.20 [81.2]			
13	G1⁄4 B	3.07 [77.9]			
15	G1/2 B	3.31 [84.2]			
16	M20x1.5	3.31 [84.2]			
JP	1/4 Tube	3.18 [80.7]			
JR	3% Tube	3.31 [84.0]			
JS	½ Tube	3.34 [84.9]			
KA	1/4 BSPT or R 1/4	3.00 [76.3]			
KD	1/2 BSPT or R 1/2	3.20 [81.2]			



100 mm lower back connect - rear flange					
Connection Code	Process Connection	Depth			
02	1/4 NPT	3.15 [80.0]			
04	1/2 NPT	3.20 [81.2]			
09	1/4 HP Female	3.20 [81.2]			
13	G1⁄4 B	3.07 [77.9]			
15	G1⁄2 B	3.31 [84.2]			
16	M20x1.5	3.31 [84.2]			
JP	1/4 Tube	3.18 [80.7]			
JR	3% Tube	3.31 [84.0]			
JS	1/2 Tube	3.34 [84.9]			
KA	1/4 BSPT or R 1/4	3.00 [76.3]			
KD	1/2 BSPT or R 1/2	3.20 [81.2]			



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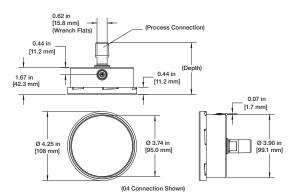
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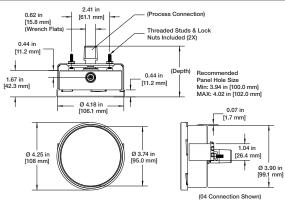
DIMENSIONS in [] are millimeters

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100 mm center back connect - stem mount		
Connection Code	Process Connection	Depth
02	1/4 NPT	3.15 [80.0]
04	1/2 NPT	3.20 [81.2]
09	1/4 HP Female	3.20 [81.2]
13	G1⁄4 B	3.07 [77.9]
15	G1/2 B	3.31 [84.2]
16	M20x1.5	3.31 [84.2]
JP	1/4 Tube	3.18 [80.7]
JR	3% Tube	3.31 [84.0]
JS	1/2 Tube	3.34 [84.9]
KA	1/4 BSPT or R 1/4	3.00 [76.3]
KD	1/2 BSPT or R 1/2	3.20 [81.2]



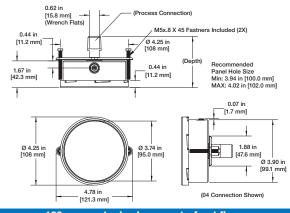
100 mm center back connect - panel mount, case		
Connection Code	Process Connection	Depth
02	1/4 NPT	3.15 [80.0]
04	1/2 NPT	3.20 [81.2]
09	1/4 HP Female	3.20 [81.2]
13	G1⁄4 B	3.07 [77.9]
15	G1⁄2 B	3.31 [84.2]
16	M20x1.5	3.31 [84.2]
JP	1/4 Tube	3.18 [80.7]
JR	3/8 Tube	3.31 [84.0]
JS	1/2 Tube	3.34 [84.9]
KA	1/4 BSPT or R 1/4	3.00 [76.3]
KD	1/2 BSPT or R 1/2	3.20 [81.2]



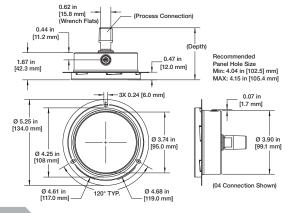
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100 mm center back connect - panel mount, socket			
Connection Code	Process Connection	Depth	
02	1/4 NPT	3.15 [80.0]	
04	1/2 NPT	3.20 [81.2]	
09	1/4 HP Female	3.20 [81.2]	
13	G1⁄4 B	3.07 [77.9]	
15	G1⁄2 B	3.31 [84.2]	
16	M20x1.5	3.31 [84.2]	
JP	1/4 Tube	3.18 [80.7]	
JR	3/8 Tube	3.31 [84.0]	
JS	1/2 Tube	3.34 [84.9]	
KA	1/4 BSPT or R 1/4	3.00 [76.3]	
KD	1/2 BSPT or R 1/2	3.20 [81.2]	



100 mm center back connect - front flange			
Connection Code	Process Connection	Depth	
02	1/4 NPT	3.15 [80.0]	
04	1/2 NPT	3.20 [81.2]	
09	1/4 HP Female	3.20 [81.2]	
13	G1⁄4 B	3.07 [77.9]	
15	G1⁄2 B	3.31 [84.2]	
16	M20x1.5	3.31 [84.2]	
JP	1/4 Tube	3.18 [80.7]	
JR	3% Tube	3.31 [84.0]	
JS	½ Tube	3.34 [84.9]	
KA	1/4 BSPT or R 1/4	3.00 [76.3]	
KD	1/2 BSPT or R 1/2	3.20 [81.2]	



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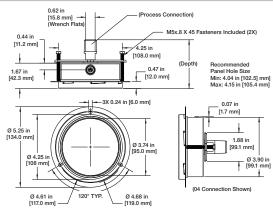
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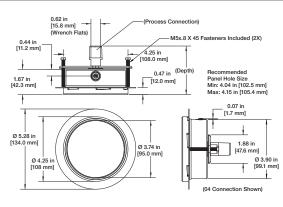
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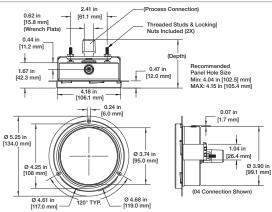
100 mm center back connect - panel mount, socket, front flange		
Connection Code	Process Connection	Depth
02	1/4 NPT	3.15 [80.0]
04	1/2 NPT	3.20 [81.2]
09	1/4 HP Female	3.20 [81.2]
13	G1⁄4 B	3.07 [77.9]
15	G1⁄2 B	3.31 [84.2]
16	M20x1.5	3.31 [84.2]
JP	1/4 Tube	3.18 [80.7]
JR	3% Tube	3.31 [84.0]
JS	1/2 Tube	3.34 [84.9]
KA	1/4 BSPT or R 1/4	3.00 [76.3]
KD	1/2 BSPT or R 1/2	3.20 [81.2]



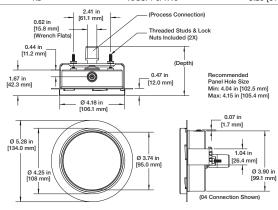
100 mm center back connect - panel mount, socket, trim ring		
Connection Code	Process Connection	Depth
02	1/4 NPT	3.15 [80.0]
04	1/2 NPT	3.20 [81.2]
09	1/4 HP Female	3.20 [81.2]
13	G1⁄4 B	3.07 [77.9]
15	G1⁄2 B	3.31 [84.2]
16	M20x1.5	3.31 [84.2]
JP	1/4 Tube	3.18 [80.7]
JR	3% Tube	3.31 [84.0]
JS	1/2 Tube	3.34 [84.9]
KA	1/4 BSPT or R 1/4	3.00 [76.3]
KD	1/2 BSPT or R 1/2	3.20 [81.2]



100 mm center back connect - panel mount, case, front flange			
Connection Code	Process Connection	Depth	
02	1/4 NPT	3.15 [80.0]	
04	1/2 NPT	3.20 [81.2]	
09	1/4 HP Female	3.20 [81.2]	
13	G1⁄4 B	3.07 [77.9]	
15	G1⁄2 B	3.31 [84.2]	
16	M20x1.5	3.31 [84.2]	
JP	1/4 Tube	3.18 [80.7]	
JR	3% Tube	3.31 [84.0]	
JS	1/2 Tube	3.34 [84.9]	
KA	1/4 BSPT or R 1/4	3.00 [76.3]	
KD	1/2 BSPT or R 1/2	3.20 [81.2]	



100 mm center back connect - panel mount, case, trim ring		
Connection Code	Process Connection	Depth
02	1/4 NPT	3.15 [80.0]
04	1/2 NPT	3.20 [81.2]
09	1/4 HP Female	3.20 [81.2]
13	G1⁄4 B	3.07 [77.9]
15	G1⁄2 B	3.31 [84.2]
16	M20x1.5	3.31 [84.2]
JP	1/4 Tube	3.18 [80.7]
JR	¾ Tube	3.31 [84.0]
JS	1/2 Tube	3.34 [84.9]
KA	1/4 BSPT or R 1/4	3.00 [76.3]
KD	1/2 BSPT or R 1/2	3.20 [81.2]



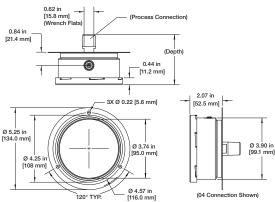
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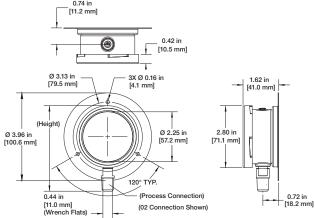
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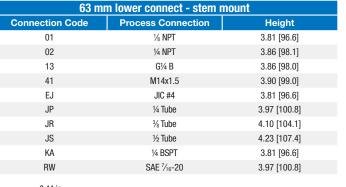
100 mm center back connect - rear flange		
Connection Code	Process Connection	Depth
02	1/4 NPT	3.15 [80.0]
04	1/2 NPT	3.20 [81.2]
09	1/4 HP Female	3.20 [81.2]
13	G1⁄4 B	3.07 [77.9]
15	G1⁄2 B	3.31 [84.2]
16	M20x1.5	3.31 [84.2]
JP	1/4 Tube	3.18 [80.7]
JR	3% Tube	3.31 [84.0]
JS	1/2 Tube	3.34 [84.9]
KA	1/4 BSPT or R 1/4	3.00 [76.3]
KD	1/2 BSPT or R 1/2	3.20 [81.2]

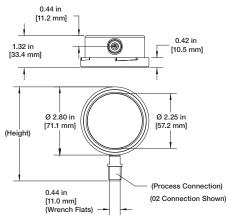


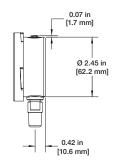
63 mm lower connect - rear flange		
Connection Code	Process Connection	Height
01	1/8 NPT	3.81 [96.6]
02	1/4 NPT	3.86 [98.1]
13	G1⁄4 B	3.86 [98.0]
41	M14x1.5	3.90 [99.0]
EJ	JIC #4	3.81 [96.6]
JP	1/4 Tube	3.97 [100.8]
JR	3% Tube	4.10 [104.1]
JS	1/2 Tube	4.23 [107.4]
KA	1/4 BSPT	3.81 [96.6]
RW	SAE 7/16-20	3.97 [100.8]
0.74 i	n	



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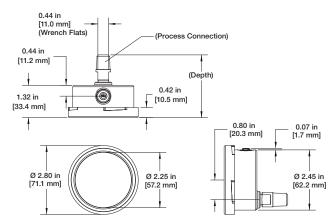
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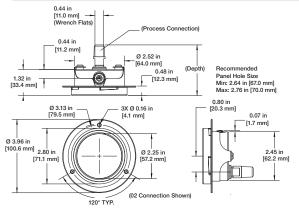
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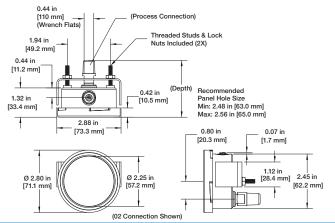
63 mm lower back connect - stem mount		
Connection Code	Process Connection	Depth
01	1/8 NPT	2.50 [63.4]
02	1/4 NPT	2.55 [64.8]
13	G1⁄4 B	2.55 [64.7]
41	M14x1.5	2.59 [65.7]
EJ	JIC #4	2.50 [63.4]
JP	1/4 Tube	2.66 [67.5]
JR	3% Tube	2.79 [70.8]
JS	1/2 Tube	2.92 [74.1]
KA	1/4 BSPT	2.50 [63.4]
RW	SAE 1/16-20	2.66 [67.5]



63 mm lower back connect - front flange		
Connection Code	Process Connection	Depth
01	1/8 NPT	2.50 [63.4]
02	1/4 NPT	2.55 [64.8]
13	G1⁄4 B	2.55 [64.7]
41	M14x1.5	2.59 [65.7]
EJ	JIC #4	2.50 [63.4]
JP	1/4 Tube	2.66 [67.5]
JR	3 [/] / ₈ Tube	2.79 [70.8]
JS	1/2 Tube	2.92 [74.1]
KA	1/4 BSPT	2.50 [63.4]
RW	SAE 7/16-20	2.66 [67.5]

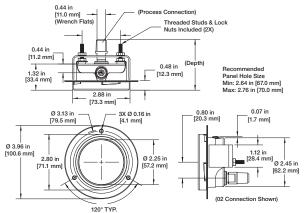


63 mm lower back connect - panel mount, case		
Connection Code	Process Connection	Depth
01	1/8 NPT	2.50 [63.4]
02	1/4 NPT	2.55 [64.8]
13	G1⁄4 B	2.55 [64.7]
41	M14x1.5	2.59 [65.7]
EJ	JIC #4	2.50 [63.4]
JP	1/4 Tube	2.66 [67.5]
JR	3% Tube	2.79 [70.8]
JS	1/2 Tube	2.92 [74.1]
KA	1/4 BSPT	2.50 [63.4]
RW	SAE 7/16-20	2.66 [67.5]



63 mm lower back connect - panel mount, case, front flange

o min lower back connect - parler mount, case, nont hange		
Connection Code	Process Connection	Depth
01	1/8 NPT	2.50 [63.4]
02	1/4 NPT	2.55 [64.8]
13	G1⁄4 B	2.55 [64.7]
41	M14x1.5	2.59 [65.7]
EJ	JIC #4	2.50 [63.4]
JP	1/4 Tube	2.66 [67.5]
JR	3% Tube	2.79 [70.8]
JS	1/2 Tube	2.92 [74.1]
KA	1/4 BSPT	2.50 [63.4]
RW	SAE 7/16-20	2.66 [67.5]



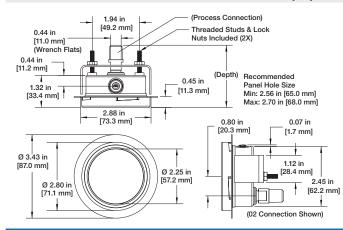
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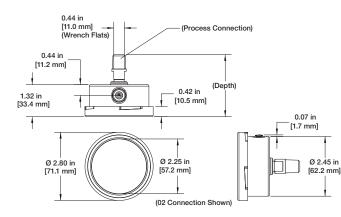
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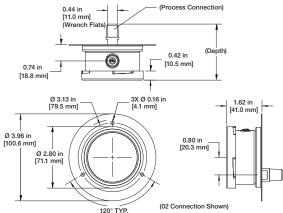
63 mm lower back connect - panel mount, case, trim ring		
Connection Code	Process Connection	Depth
01	1/8 NPT	2.50 [63.4]
02	1/4 NPT	2.55 [64.8]
13	G1⁄4 B	2.55 [64.7]
41	M14x1.5	2.59 [65.7]
EJ	JIC #4	2.50 [63.4]
JP	1/4 Tube	2.66 [67.5]
JR	3% Tube	2.79 [70.8]
JS	½ Tube	2.92 [74.1]
KA	1/4 BSPT	2.50 [63.4]
RW	SAE 7/16-20	2.66 [67.5]



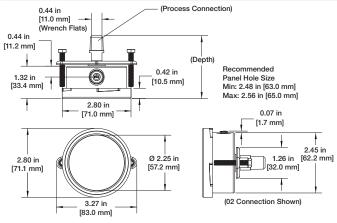
63 mm center back connect - stem mount		
Connection Code	Process Connection	Depth
01	1/8 NPT	2.50 [63.4]
02	1/4 NPT	2.55 [64.8]
13	G1⁄4 B	2.55 [64.7]
41	M14x1.5	2.59 [65.7]
EJ	JIC #4	2.50 [63.4]
JP	1/4 Tube	2.66 [67.5]
JR	3% Tube	2.79 [70.8]
JS	1/2 Tube	2.92 [74.1]
KA	1/4 BSPT	2.50 [63.4]
RW	SAE 7/16-20	2.66 [67.5]



63 mm lower back connect - rear flange			
Connection Code	Process Connection	Depth	
01	1/8 NPT	2.50 [63.4]	
02	1/4 NPT	2.55 [64.8]	
13	G1⁄4 B	2.55 [64.7]	
41	M14x1.5	2.59 [65.7]	
EJ	JIC #4	2.50 [63.4]	
JP	1/4 Tube	2.66 [67.5]	
JR	3% Tube	2.79 [70.8]	
JS	1/2 Tube	2.92 [74.1]	
KA	1/4 BSPT	2.50 [63.4]	
RW	SAE 7/16-20	2.66 [67.5]	



120 1111			
63 mm center back connect - panel mount, socket			
Connection Code	Process Connection	Depth	
01	1/8 NPT	2.50 [63.4]	
02	1/4 NPT	2.55 [64.8]	
13	G1⁄4 B	2.55 [64.7]	
41	M14x1.5	2.59 [65.7]	
EJ	JIC #4	2.50 [63.4]	
JP	1/4 Tube	2.66 [67.5]	
JR	3% Tube	2.79 [70.8]	
JS	1/2 Tube	2.92 [74.1]	
KA	1/4 BSPT	2.50 [63.4]	
RW	SAE 7/16-20	2.66 [67.5]	



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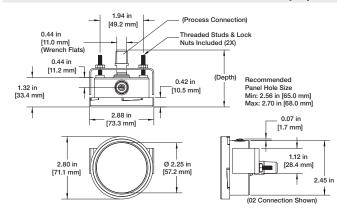
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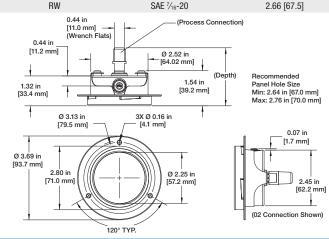
DIMENSIONS in [] are millimeters

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63 mm center back connect - panel mount, case		
Connection Code	Process Connection	Depth
01	1/8 NPT	2.50 [63.4]
02	1/4 NPT	2.55 [64.8]
13	G1⁄4 B	2.55 [64.7]
41	M14x1.5	2.59 [65.7]
EJ	JIC #4	2.50 [63.4]
JP	1/4 Tube	2.66 [67.5]
JR	3% Tube	2.79 [70.8]
JS	1/2 Tube	2.92 [74.1]
KA	1/4 BSPT	2.50 [63.4]
RW	SAE 7/16-20	2.66 [67.5]

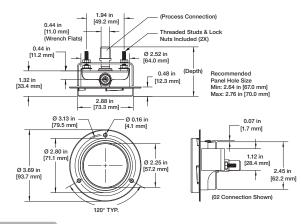


63 mm center back connect - front flange			
	Connection Code	Process Connection	Depth
	01	1/8 NPT	2.50 [63.4]
	02	1/4 NPT	2.55 [64.8]
	13	G1⁄4 B	2.55 [64.7]
	41	M14x1.5	2.59 [65.7]
	EJ	JIC #4	2.50 [63.4]
	JP	1/4 Tube	2.66 [67.5]
	JR	3% Tube	2.79 [70.8]
	JS	1/2 Tube	2.92 [74.1]
	KA	1/4 BSPT	2.50 [63.4]
	214	0157/ 00	0.00 (07.5)



63 mm center back connect - panel mount case, front flange

of min center back connect - panel mount case, nont hange		
Connection Code	Process Connection	Depth
01	1/8 NPT	2.50 [63.4]
02	1/4 NPT	2.55 [64.8]
13	G1⁄4 B	2.55 [64.7]
41	M14x1.5	2.59 [65.7]
EJ	JIC #4	2.50 [63.4]
JP	1/4 Tube	2.66 [67.5]
JR	3 [/] 8 Tube	2.79 [70.8]
JS	1/2 Tube	2.92 [74.1]
КА	1/4 BSPT	2.50 [63.4]
RW	SAE 7/16-20	2.66 [67.5]



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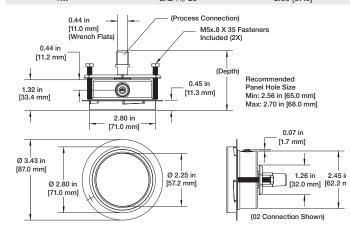
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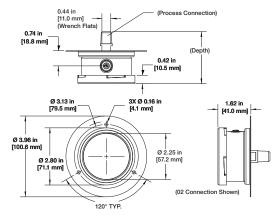
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63 mm center back connect - panel mount socket, trim ring		
Connection Code	Process Connection	Depth
01	1/8 NPT	2.50 [63.4]
02	1/4 NPT	2.55 [64.8]
13	G1⁄4 B	2.55 [64.7]
41	M14x1.5	2.59 [65.7]
EJ	JIC #4	2.50 [63.4]
JP	1/4 Tube	2.66 [67.5]
JR	3% Tube	2.79 [70.8]
JS	1/2 Tube	2.92 [74.1]
KA	1/4 BSPT	2.50 [63.4]
RW	SAE 7/16-20	2.66 [67.5]



63 mm center back connect - rear flange		
Connection Code	Process Connection	Depth
01	1/8 NPT	2.50 [63.4]
02	1/4 NPT	2.55 [64.8]
13	G1⁄4 B	2.55 [64.7]
41	M14x1.5	2.59 [65.7]
EJ	JIC #4	2.50 [63.4]
JP	1/4 Tube	2.66 [67.5]
JR	3% Tube	2.79 [70.8]
JS	1/2 Tube	2.92 [74.1]
KA	1/4 BSPT	2.50 [63.4]
RW	SAE 7/16-20	2.66 [67.5]

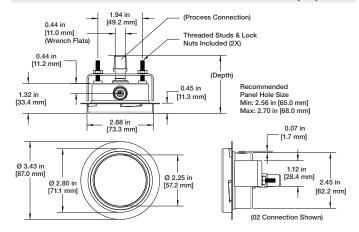


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Connection Code	Process Connection	Depth
01	1/8 NPT	2.50 [63.4]
02	1/4 NPT	2.55 [64.8]
13	G1⁄4 B	2.55 [64.7]
41	M14x1.5	2.59 [65.7]
EJ	JIC #4	2.50 [63.4]
JP	1/4 Tube	2.66 [67.5]
JR	3/8 Tube	2.79 [70.8]
JS	1/2 Tube	2.92 [74.1]
KA	1/4 BSPT	2.50 [63.4]
RW	SAE 7/16-20	2.66 [67.5]

63 mm center back connect - panel mount, case, trim ring



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