



Pressure, Level & Temperature Transmitters & Transducers

UK Distributor; Interface Force Measurements

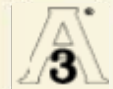
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SANITARY FLUSH DIAPHRAGM PRESSURE TRANSMITTER

Models 218, 318



74-03
Cert no. 668

FEATURES:

- Flush Diaphragm for slurry measurement & cleanability
- Wet - wet true gauge pressure measurement that does not require vented cable
- Rugged, All-welded, corrosion-resistant type 316 SST construction
- NEMA-4X enclosure
- Complies with 3A standard 74-03

PRESSURE RANGES:

- From 0-30" wc through 0-1000 psi

ACCURACY:

- From $\pm 0.5\%$ FSO to $\pm 0.1\%$ FSO (RSS)

WIRING:

	218	318
A/1 RED	+EXC.	+EXC./SIGNAL
B/2 GREEN	+SIGNAL	NC
C/3 WHITE	NC	NC
D/4 BLACK	-EXC./SIGNAL	-EXC./SIGNAL
E/5 BLUE	NC	NC
F/6 BROWN	NC	NC
SHIELD	OPEN	OPEN

Accuracy:

(Includes Hysteresis, Non-linearity, Non-Repeatability)

- **Series A:** $\pm 0.5\%$ FSO (RSS)
- **Series B:** $\pm 0.2\%$ FSO (RSS)
- **Series C:** $\pm 0.1\%$ FSO (RSS)

Resolution:

- Infinite, 0.02% FSO practical minimum

Wetted Parts:

- Type 316 SST

Temperature Limits:

- Compensated: 30° F to +170° F
- Operating: 0° to +185° F

Temperature Compensation:

- Effect on Zero / Span: Within $\pm 2\%$ FSO/100°F for each

Orientation Shift:

- Zero: ± 1 in WC, Option GJ or JH is recommended on ranges ≤ 200 in WC

Span:

- **(Model 218):** 5 Vdc $\pm 2\%$ FSO at 70° F
- **(Model 318):** 16 mA $\pm 2\%$ FSO at 70° F

Enclosure:

- All-welded type 316 SST. Rated NEMA-4x. (3A 74-03 compliant)

Electricals:

- Excitation Voltage:
(Model 218) 10.5-32 Vdc
(Model 318) 13-37 Vdc
- Output at 70° F:
(Model 218) 5.0 Vdc $\pm 2\%$ FSO
(Model 318) 4-20 mA $\pm 2\%$ FSO
- Zero Balance:
(Model 218) 0.0 mV/V $\pm 5\%$ FSO at 70° F Horizontal position
(Model 318) 4.0 mA $\pm 5\%$ FSO at 70° F Horizontal position
- Load Impedance:
(Model 318) 1200 ohms max. at 37 Vdc
- Output Loading:
(Model 218) 3000 ohms min.

Mechanicals:

- Proof Pressure: 3 X full scale pressure
- Burst Pressure: 5 X full scale pressure
- Case Materials: Type 316 Stainless Steel
- Weight: 12 oz. nominal (not including Weld Nipple)
- Identification: Etched on transducer

Connections:

- Pressure: 1-3/4" - 20 UNF thread to 316 SST Weld Nipple (Weld Nipple not included)
- Electrical Cable: NEMA-4x with molded 6 conductor, polyurethane jacket, 8' long.

A5SL-18.00 Rev D

GP:50 reserves the right to make product improvements and amendments to the product specifications stated throughout this brochure without prior notification. Please contact the factory on all critical dimensions and specifications for verification.



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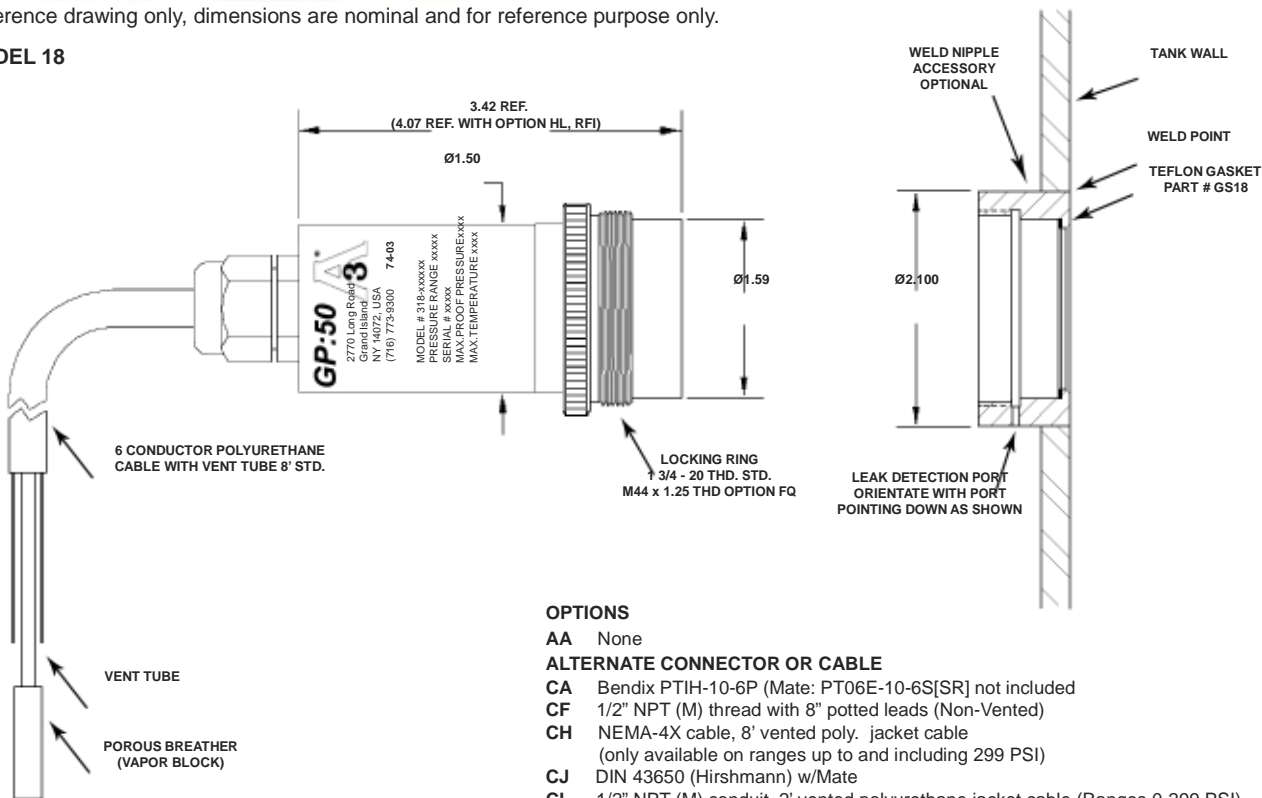
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Reference drawing only, dimensions are nominal and for reference purpose only.

MODEL 18



OPTIONS

AA None

ALTERNATE CONNECTOR OR CABLE

- CA Bendix PTIH-10-6P (Mate: PT06E-10-6S[SR] not included)
- CF 1/2" NPT (M) thread with 8" potted leads (Non-Vented)
- CH NEMA-4X cable, 8' vented poly. jacket cable (only available on ranges up to and including 299 PSI)
- CJ DIN 43650 (Hirshmann) w/Mate
- CL 1/2" NPT (M) conduit, 2' vented polyurethane jacket cable (Ranges 0-299 PSI)
- CT Teflon jacketed cable, Tefzel used on submersible units (Options CH, CL, CW, DE, GM)
- CZ Alternate Connector/Cable/Other

ALTERNATE PRESSURE PORT

- FQ M44 X 1.25 Metric thread
- FZ Non-standard pressure port

GENERAL

- DE IP-67 (NEMA-6) vented polyurethane jacket cable, neoprene grommet.
- CW Submersible housing, 8' non-vented polyurethane jacket cable, neoprene grommet, 1/2" NPT (M) conduit.
- GA Stand. Full Scale Output, (FSO = (Full Scale Reading) - (Zero Reading) ±0.5% FSO)
- GB Alternate Electronic Output (Specify Zero & Span output values)
- GE Improved Temperature Compensation to ±0.5% FSO/100°F for Zero & Span Respectively, (from 30°F to 180°F)
- GF Expanded process temperature range, -65 to 250°F (± 2% FSO/100°F)
- GJ Add Zero & Span Controls. (Approx. ±20% FSO adjustment)
- GK Inconel Diaphragm and Diaphragm Housing
- GM Submersible housing w/8' Std Cable
- GP Hastelloy Diaphragm and Diaphragm Housing
- GS 0-10 Vdc FSO, Model 218. (Requires 16 - 32 Vdc excitation)
- HL RFI Protection (for unit proximity to radio transmitter)
- JH Remote Cable-Mounted Zero and Span Controls (Model 318 only)
- GZ Customer special

MODEL 18 ACCESSORIES

Weld Nipples

- WN18-AA-AA-2.1 1-3/4" - 20 316 SS 2.1" OD
- WN18-AA-FQ-2.1 M44 - 1.25 316 SS 2.1" OD
- WN18-AA-AA-2.5 1-3/4" - 20 316 SS 2.5" OD
- WN18-AA-FQ-2.5 M44 - 1.25 316 SS 2.5" OD

Weld Plugs

- WP18-AA-AA 1-3/4" - 20 316SS
- WP18-AA-FQ M44 - 1.25 316SS

Lock Rings

- LR18-AA-AA 1-3/4" - 20 316SS
- LR18-AA-FQ M44 - 1.25 316SS

Calibration / Test Fixture

- CTF18-AL-AA Aluminum 1/3/4" - 20 X 1/4" NPTF
- CTF18-AL-FQ Aluminum M44 - 1.25 X 1/4" NPTF

Face Seal

- GS18 Teflon gasket - Model 18

NOTE:

Specifications reflect standard product, improved performance / mechanical options available.

Modifications may alter specs, consult factory for more information.

MODELS

- 218 5 Vdc
- 318 4-20 mA

ACCURACY (SERIES)

- B 0.5% FSO
- C 0.2% FSO
- D 0.1% FSO

PRESSURE RANGE (PSI) * No reference slots, cable vented

PC 1	PP 15	RB 150
PE 2	PR 20	* RD 200
PG 3	PT 30	* RF 300
PJ 5	PV 50	* RH 500
PL 7.5	PX 75	* RJ 600
PN 10	PZ 100	* RK 750
		* RM 1000

IN WC

XD 30	XK 100	XU 750
XF 50	XM 150	XW 1000
XH 75	XO 200	XY 1500
	XQ 300	YA 2000
	XS 500	SZ Non- Standard

PRESSURE TYPE

- 2 Gauge
- 3 Absolute (Ranges ≥ 0-5 psia)
- 4 Vacuum
- 8 Elevated
- 10 Compound