

Differential Pressure LiquiSeal™ Purge Control



738 SERIES

- Fully integrated air purge regulator that provides continuous level measurement
- Integral differential pressure transmitter provides 4 mAdc to 20 mAdc output proportional to liquid level
- Reliable proven sensing technique
- A highly refined versions of the basic bubbler air control
- All-pneumatic version available
- Simple to install and maintain

APPLICATIONS

- Tank level indication
- Marine
 - Tank level, draft monitoring and vessel management
- Ballast water
- Fuel oil
- Fresh water
- Lube oil
- Brine
- Preload
- Holding

SPECIFICATIONS

Output signal	4 mAdc to 20 mAdc (milliamperes)
Accuracy	0-5 psid trans./control ± 0.34% full scale
	0-10 psid trans./control ± 0.27% full scale
	0-15 psid trans./control ± 0.24% full scale
	0-30 psid trans./control ± 0.22% full scale
	0-50 psid trans./control ± 0.21% full scale
Repeatability	± 0.20% of calibrated span
Temperature range	0 °F to 120 °F / -16 °C to 54 °C
Maximum pressure	300% over-range
Burst pressure	200 psig
Power requirement*	14 Vdc to 40 Vdc
Compressed air requirement	35 psig to 150 psig supply pressure at control inlet. (Minimum supply pressure should be at least 20 psig greater than anticipated maximum liquid head pressure.)
Maximum depth measurement	1,937 inH ₂ O(49.0 m)
DP Purge control	Unit incorporates differential air flow regulator with flow control orifice. Fixed differential set to nominal 10 psid. Output is 1:1 pneumatic pressure (hydrostatic force equivalent). Includes an integral differential pressure (D/P) transmitter converting pneumatic pressure into 4 mAdc to 20 mAdc electronic output. Ranges available: 0 psid to 5 psid, 0 psid to 10 psid to 30 psid, 0 psid to 50 psid,
Flow rate (air purge)	Nominal 1 cfh (cubic feet per hour) at specified differential. Maximum air consumption under 5 cfh.
Materials of construction	Machined brass body with acrylic semi-gloss enamel finish; integral filter element is aluminum with acrylic semi-gloss enamel finish.

* Unregulated

ORDERING INFORMATION				
SERIES	738			
FITTINGS	1918	None, 1/4" NPT	3918	Polyflo; (1) 3/8" tube, (1) 1/4" tube x 1/4" NPT
	4918	Swagelok; (1) 3/8" tube, (1) 1/4" tube x 1/4" NPT (compatible with Copper or Poly tubing)		
MILLIAMP OUTPUTS	108	4 mAdc to 20 mAdc 0-5 psid	128	4 mAdc to 20 mAdc 0-15 psid
	118	4 mAdc to 20 mAdc 0-10 psid	138	4 mAdc to 20 mAdc 0-30 psid
			148	4 mAdc to 20 mAdc 0-50 psid
			168	4 mAdc to 20 mAdc 0-2 psid

NOTE: Unit includes (1) water-resistant Hubbell cord grip.

EXAMPLE

738 - 3918 - 108

738 Series

Polyflo; (1) 3/8" tube, (1) 1/4" tube x 1/4" NPT

4 mAdc to 20 mAdc 0-5 psid

Series

Fitting

Milliamp output

