

LiquiSeal™ Purge Control



735 SERIES

- Fully integrated air purge regulator and level transmitter
- Operation based on the control regulating a continuous 1 cfh (cubic foot per hour) flow of compressed air into the tank downpipe
- Provides a 1:1 pressure signal to a compatible indicator or external transducer through 1/4 in. airline tubing
- All LiquiSeal™ purge controls feature an internal isolation diaphragm
- Back pressure created by the continuous purging of the downpipe is applied to this internal diaphragm
- Working as a pneumatic transmitter, an equivalent pressure is generated on the gauge side of the diaphragm, which isolates downstream components from contact with the liquid or vapor releases

APPLICATIONS

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

SPECIFICATIONS

Temperature Range	0 to 120°F / -16 to 54°C
Maximum pressure	300% over-range
Burst pressure	200 psig
Compressed air requirement	35-150 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)
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)
Flow rate (air purge)	Nominal 1 cfh (cubic feet per hour) at specified differential Maximum air consumption under 5 cfh.
Materials	Machined Brass body with acrylic semi-gloss enamel finish; integral filter element is aluminum with acrylic semi-gloss enamel finish
SafeGard option	An adjustable pressure-limiting control that permits pre-setting a maximum value for pressure output from the Purge Control. SafeGard range available as 25 inH ₂ O to 650 inH ₂ O or 650 inH ₂ O to 1750 inH ₂ O

ORDERING INFORMATION				
SERIES	735			
FITTINGS	1918	None, 1/4" NPT	3918	Polyflo; (1) 3/8" tube, (2) 1/4" tube
			4918	Swagelok; (1) 3/8" tube, (2) 1/4" tube (compatible with copper or poly tubing)
PRESSURE OUTPUT	38	25"-650" SafeGard range	48	650"-1750" SafeGard range
			58	Without SafeGard option

EXAMPLE

Series

Fitting

Pressure output

.....735 Series

.....Polyflo; (1) 3/8" tube, (2) 1/4" tube

.....650"-1750" SafeGard range

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