

# 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 <sub>2</sub> 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 <sub>2</sub> O to 650 inH <sub>2</sub> O or 650 inH <sub>2</sub> O to 1750 inH <sub>2</sub> O

ORDERING INFORMATION			
<b>SERIES</b>	735		
<b>FITTINGS</b>	1918 None, $\frac{1}{4}$ " 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)
<b>PRESSURE OUTPUT</b>	38 25"-650" SafeGard range	48 650"-1750" SafeGard range	58 Without SafeGard option

## EXAMPLE

**Series** ..... 735 Series  
**Fitting** ..... Polyflo; (1) 3/8" tube, (2) 1/4" tube  
**Pressure output** ..... 650"-1750" SafeGard range

735 - 3918 - 48

