

# 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

<b>Temperature Range</b>	0 to 120°F / -16 to 54°C
<b>Maximum pressure</b>	300% over-range
<b>Burst pressure</b>	200 psig
<b>Compressed air requirement</b>	35-150 psig supply pressure at control inlet. (Minimum supply pressure should be at least 20 psig greater than anticipated maximum liquid head pressure.)
<b>Maximum depth measurement</b>	1,937 inH <sub>2</sub> O (49.0 m)
<b>Purge control</b>	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)
<b>Flow rate (air purge)</b>	Nominal 1 cfh (cubic feet per hour) at specified differential Maximum air consumption under 5 cfh.
<b>Materials</b>	Machined Brass body with acrylic semi-gloss enamel finish; integral filter element is aluminum with acrylic semi-gloss enamel finish
<b>SafeGard option</b>	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				
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 ..... 735 Series  
 Fitting ..... Polyflo; (1) 3/8" tube, (2) 1/4" tube  
 Pressure output ..... 650"-1750" SafeGard range

**735 - 3918 - 48**

