

# Purge Control



## 780 SERIES

- Generates a constant flow of compressed air to purge a downpipe
- All-pneumatic design does not include integral transmitter
- Provides 1:1 pressure signal to a compatible indicator or external transducer through 1/4 in. airline tubing
- Holds a fixed pressure differential across a precision orifice to ensure constant flow rate of 1 cfh (cubic foot per hour), making it possible to maintain a linear 1:1 response of the sensing system
- Back pressure sensed is equivalent to the hydrostatic head pressure due to actual liquid depth

### 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 °F to 120 °F / -16 °C to 54 °C
Maximum pressure	300% over-range
Burst pressure	200 psig
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 <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			
SERIES	780		
FITTINGS	198 None, 1/4" NPT	398 Polyflo; (1) 3/8" tube, (2) 1/4" tube	498 Swagelok; (1) 3/8" tube, (2) 1/4" tube (compatible with copper or poly tubing)
PRESSURE OUTPUT	68 25"-650" SafeGard range	78 650"-1750" SafeGard range	88 Without SafeGard option

**EXAMPLE**

Series ..... 780 Series 780 - 398 - 78  
 Fitting ..... Polyflo; (1) 3/8" tube, (2) 1/4" tube  
 Pressure output ..... 650"-1750" SafeGard range

