452 Series Regulator

Single Stage
Vaporizing regulator
316L Stainless Steel

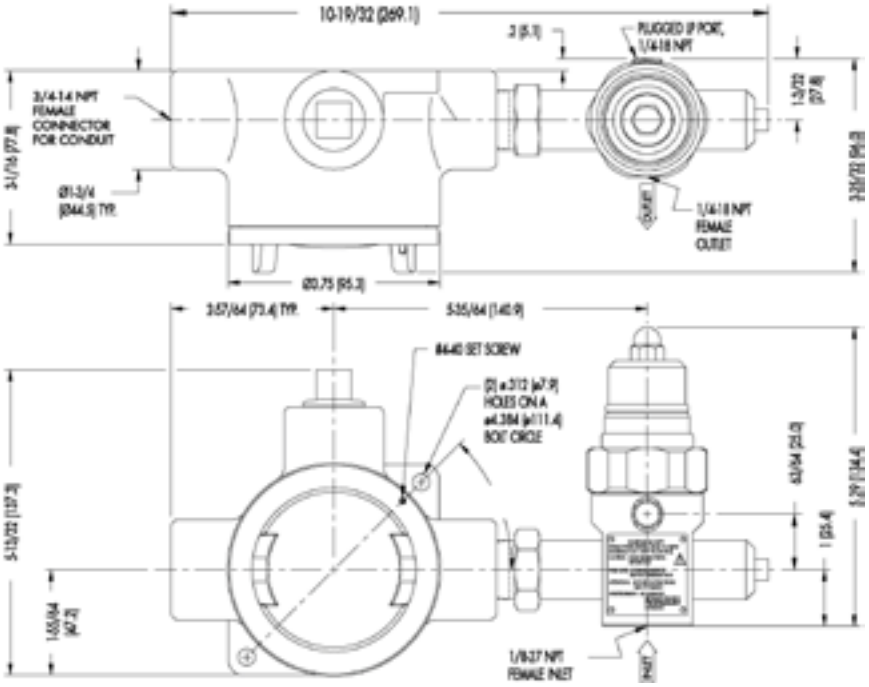
The 492 Series electrically heated vaporizing regulator is designed to heat and vaporize an inlet gas stream containing heavy hydrocarbons so that they will remain in the vapor state for chromatographic analysis. The entire system is explosion–proof for safety. Three temperature ranges, three heater wattages and six outlet pressure ranges allow the 452 Series regulators to meet the needs of diverse applications.

Materials of Construction

Body	316L stainless steel barstock
Bonnet	Stainless steel barstock
Diaphragm	316L stainless steel
Seat	Arlon® (PEEK)
Heat exchanger	316L stainless steel
Explosion-proof enclosure	Iron alloy/aluminum
Heat wattage	50, 100 or 150 watts

Features

- 316L stainless steel barstock body for increased corrosion resistance
- Pressure ranges 0-15 and 0-500 psig
- Capsule® seat for increased serviceability and life
- Adjustable thermistor controller
- Explosion proof enclosure Class 1, Division 1, Group A, B, C & D
- Conforms to UL 1203, UL 823, UL 508, CSA C22.2 #14, CSA E79-0 and others
- Metal-to-metal diaphragm seals

Specifications

Maximum Inlet Pressure	Temperature Range	Maximum Delivery Pressure
3000 psig (210 bar)	25°C to 82°C 71°C to 138°C 121°C to 193°C	15 psig 50 psig 100 psig 150 psig 250 psig 500 psig
Maximum Flow: (100 psig) 283 LPM (600 SCFH) Inlet connection: ⅛" FNPT Outlet connection: ¼" FNPT Helium Leak Rate: 1 X 10^{-8} scc/sec Weight: 2.7 kg (6 lbs)