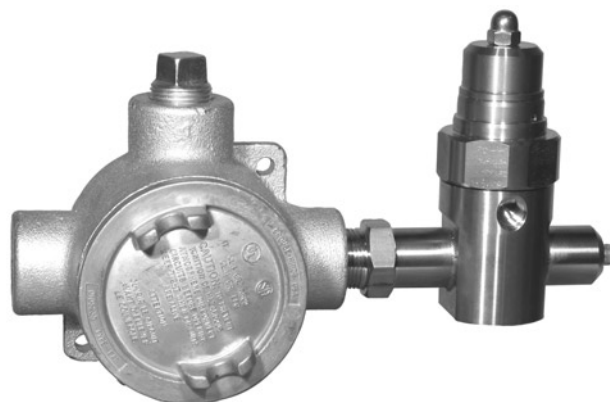


452 Series Regulator

Vaporizing Regulator
316L Stainless Steel
Single Stage



452-3303 shown

The 452 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.

Advanced Features

- *316L stainless steel barstock body*
Increased corrosion resistance
- *Pressure ranges 0 - 15 to 0 - 500 PSIG*
Wide variety of applications
- *Metal to metal seals*
No possibility of gas contamination
- *Capsule Seat*
Increased serviceability and life
- *Internal heat exchanger*
Improved heat transfer
- *Adjustable thermistor controller*
Close control of gas temperature

400 Advantage

Materials

Specifications

<ul style="list-style-type: none"> • <i>Metal-to-metal diaphragm seal</i> No possibility of gas contamination • <i>Capsule[®] seat</i> Increased serviceability and life • <i>Low wetted surface area</i> Minimal purge requirements • <i>Thermistor controller</i> Easily adjustable temperature limit • <i>Explosion-proof enclosure</i> Class 1, Division 1, Group A, B, C & D • <i>Third-party conformity certification</i> CAN/CSA E60079-0 and E60079-1, UL 1203, ATEX 13688 	<p><i>Body</i> 316L stainless steel barstock</p> <p><i>Bonnet</i> Stainless steel barstock</p> <p><i>Seat</i> Arlon[®] (PEEK)</p> <p><i>Diaphragm</i> 316L stainless steel</p> <p><i>Heat Exchanger</i> 316L stainless steel</p> <p><i>Explosion-proof Enclosure</i> Iron alloy/Aluminum</p> <p><i>Heater Wattage</i> 50, 100 or 150 watts</p>	<p><i>Maximum Inlet Pressure</i> 3000 PSIG (210 BAR)</p> <p><i>Temperature Range</i> 77°F to 180°F (25°C to 82°C) 160°F to 280°F (71°C to 138°C) 250°F to 380°F (121°C to 193°C)</p> <p><i>Maximum Flow (100 PSIG)</i> 600 SCFH (283 LPM)</p> <p><i>Inlet Connection</i> 1/8" FPT</p> <p><i>Outlet Connection</i> 1/4" FPT</p> <p><i>Helium Leak Integrity</i> 1 x 10⁻⁹ scc/sec</p> <p><i>Weight (452-3301)</i> 6 lbs. (2.7 kg)</p>
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Controls Corporation of America, Inc.

1501 Harpers Road • Virginia Beach, Virginia 23454 USA • 1.800.225.0473 • 757.422.3125 • www.concoa.com

