

452 Series Stainless Steel Vaporizing Regulator



The 452 Series electronically 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 seven 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
Seat: Arlon[®] (PEEK)
Diaphragm: 316L Stainless steel
Heater Exchange: 316L stainless steel
Explosion-proof Enclosure: Iron Alloy/Aluminum
Heater Wattage: 50, 100 or 150 watts

Specifications:

Maximum inlet pressure: 3000 PSIG (210 Bar)
Temperature range:
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)
Maximum Flow (100 PSIG)
600 SCFH (283 LPM)
Inlet Connection: 1/8" FPT
Outlet Connection: 1/4" FPT
Helium leak integrity: 1 x 10⁻⁸ scc/sec
Explosion-proof enclosure: Class 1 Division 1, Groups A, B, C & D
Third-party conformity certification: UL 1203, UL 823, UL 508, CSA C22.2 & 14, CSA E79-0
CSA E79-1 and others

4170 A Main Pearland, TX 77581 PH: 281-648-1894 FAX: 281-648-1895
www.dcgpartnership.com
E-mail: sales@dcgpartnership.com

Chromatographic Reference Materials

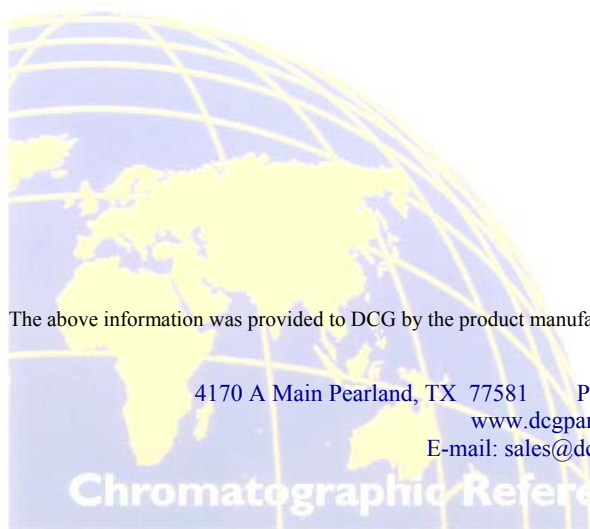


452 Series Stainless Steel Vaporizing Regulator (continued)

Ordering Information

452	A	B	C	D	-Inlet
Series 452	Max Delivery Pressure	Heater Wattage	Outlet Connection	Temperature Range/Voltage	Connections
	1: 15 PSIG 2: 50 PSIG 3: 100 PSIG 4: 250 PSIG 5: 500 PSIG 7: 150 PSIG	1: 50 Watts 2: 100 Watts 3: 150 Watts	0: 1/4" FPT 1: 1/8" Tube Fitting 2: 1/4" Tube Fitting 3: 3/8" Tube Fitting M: 6mm Tube Fitting	1: 77° - 180° F/120VAC 2: 160° - 280° F/120VAC 3: 250° - 380° F/120VAC 4: 77° - 180° F/220VAC 5: 160° - 280° F/220VAC 6: 250° - 380° F/220VAC	000: 1/8" FPT TF2: 1/8" Tube TF4: 1/4" Tube TF6: 3/8" Tube M06: 6mm Tube

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The above information was provided to DCG by the product manufacturer. DCG makes no additional warranties or representations.

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