



415 DUAL STAGE STAINLESS STEEL REGULATOR

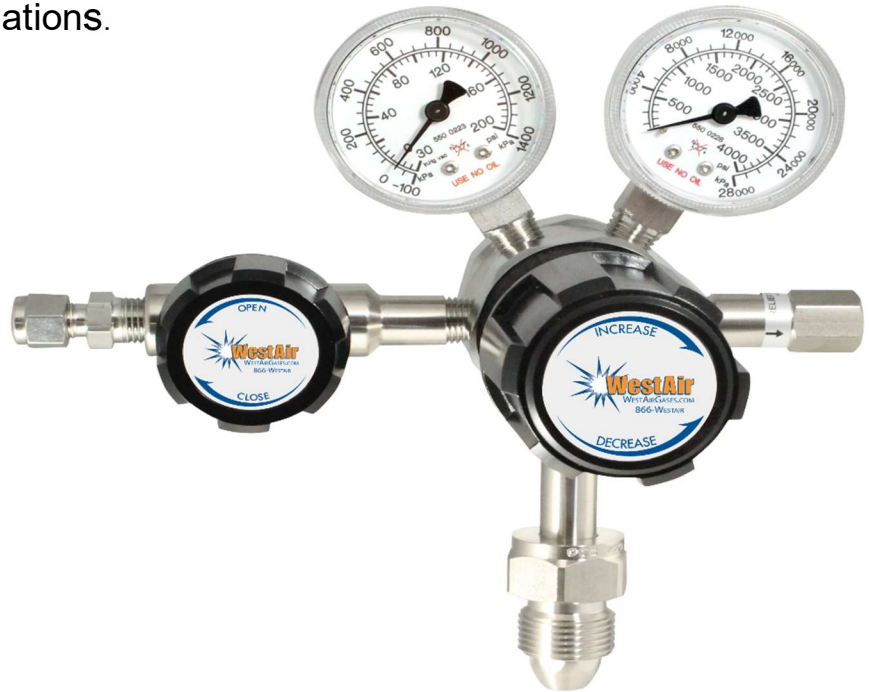
The 415 Series regulators are intended for primary pressure control of ultra-high purity or corrosive gases for applications requiring constant pressure control and delivery regardless of supply pressure variations.

Highlighted Features

- Dual Stage
- 316L Stainless Steel Barstock Body
- Five Port Configuration
- 316L Stainless Steel Diaphragm

Typical Applications

- ❖ EPA Protocol gases
- ❖ Gas and liquid chromatography
- ❖ High purity carrier gases
- ❖ Zero, span, and calibration gases
- ❖ Ultra-high purity chamber pressurization
- ❖ Liquefied hydrocarbon gas control
- ❖ Corrosive gases



Features	Materials	Specifications
<p>Metal-to-Metal Diaphragm Seal No possibility of gas contamination</p> <p>CAPSULE® Seat Increased serviceability and life</p> <p>316L Stainless Steel Barstock Body Increased corrosion resistance</p> <p>Front Panel-Mountable Easy installation</p> <p>10 Micron Filtration in Both Stages Fail-safe seat performance</p> <p>Pressure Ranges 0-15 to 0-350 PSIG (0-1 to 0-24 BAR) Broad range of applications</p> <p>Pipe Away Relief Valve Safety vents exhaust gases</p>	<p>Body 316L stainless steel barstock</p> <p>Bonnet Chrome-plated barstock</p> <p>Seat PTFE PCTFE with 3500 PSIG (240 BAR) or 4500 PSIG (310 BAR) inlet option</p> <p>Filter Patented 10 micron 316 mesh</p> <p>Diaphragm 316L stainless steel</p> <p>Internal Seals PTFE</p>	<p>Maximum Inlet Pressure 3000 PSIG (210 BAR) 3500 PSIG (240 BAR) optional 4500 PSIG (310 BAR) optional</p> <p>Temperature R -40°F to 140°F (-40°C to 60°C)</p> <p>Gauge 2" (53mm) diameter chrome-plated</p> <p>Ports 1/4" FPT</p> <p>Helium Leak Integrity 1 x 10⁻⁹ scc/sec</p> <p>Cv 0.1 <i>Flow curves on pages to follow</i></p> <p>Weight (415 3331-580) 5.09 lbs. (2.31 kg)</p>

Order Information

Model	A	B	C	D	-CON	
Series	Outlet Pressure	Outlet Gauge	Inlet Gauge	Outlet Assemblies	Gauges	Inlet Connections
415	1: 0-15 PSIG (0-1 BAR)	30"-0-30 PSIG/ -1-0-2 BAR	0: None	0: 1/4" FPT port	0: Bare body	000: 1/4" FPT
	2: 0-50 PSIG (0-3.5 BAR)	30"-0-100 PSIG/ -1-0-7 BAR	3: 0-4000 PSIG/ 0-275 BAR	1: 1/4" MPT 2: 1/4" tube fitting	1: Cleanroom assembly (PSIG/kPa gauges)	TF2: 1/8" tube
	3: 0-100 PSIG (0-7 BAR)	30"-0-200 PSIG/ -1-0- 14 BAR	5: 0-1000 PSIG/ 0-70 BAR	3: Diaphragm valve 1/4" tube fitting 4: Diaphragm valve 1/4" MPT	2: Cleanroom assembly (BAR/PSIG gauges)	TF4: 1/4" tube
	4: 0-250 PSIG (0-17 BAR)	0-400 PSIG/ 0-27 BAR	6: 0-300 PSIG/ 0- 21 BAR	5: Needle valve 1/4" MPT 6: 1/8" tube fitting		TF6: 3/8" tube
	7: 0-150 PSIG (0-10 BAR)	30"-0-200 PSIG/ -1-0-14 BAR	7: 0-400 PSIG/ 0- 27 BAR	7: 3/8" tube fitting 8: Diaphragm valve 1/8" tube fitting		M06: 6mm
	E: 0-350 PSIG (0-24 BAR)	0-400 PSIG/ 0-27 BAR	8: 0-6000 PSIG/ 0-415 BAR ¹	9: Diaphragm valve 1/4" FPT M: 6mm tube fitting S: Diaphragm valve 6mm tube fitting		CGA DIN 477 BS 341 and others available
			G: 0-4000 PSIG/ 0-275 BAR ²			

Notes:

- ¹ Maximum inlet pressure 4500 PSIG (310 BAR) with PCTFE seat CAPSULE®
² Maximum inlet pressure 3500 PSIG (240 BAR) with PCTFE seat CAPSULE®

Related Options

Part Number	Description
CON 550-0002	Panel mount kit
CON 550-0001	Captured vent kit
CON 476-0002	Helium leak certification

