

305 Series

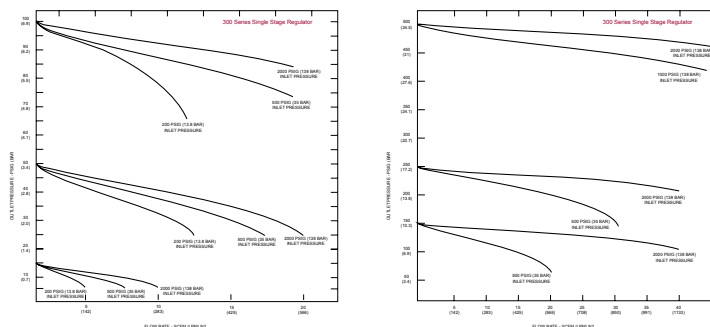
single stage, chrome-plated brass barstock regulator



Description	Advanced Features	Typical Applications
The 305 Series regulators are specifically designed for use in the medical laboratory for blood gases, laser gases, and other clinical gas applications where minor fluctuations in outlet pressure due to diminishing inlet supply pressure can be tolerated.	<ul style="list-style-type: none"> Chrome-Plated Brass Barstock Body 316L Stainless Steel Diaphragm 	<ul style="list-style-type: none"> Blood gases Laser gases Medical research Pharmaceutical manufacturing University laboratories

300 Series Advantage	Materials	Specifications
<ul style="list-style-type: none"> Capsule® seat Increased serviceability and life 316L stainless steel diaphragm No inboard diffusion Low wetted surface area Minimal purge requirements Field-adjustable pressure limit Safeguard downstream equipment Convolute diaphragm Smooth pressure changes Compact design Easily transported and integrated 	<p>Body Chrome-plated brass barstock</p> <p>Bonnet Chrome-plated die cast zinc</p> <p>Seat PTFE</p> <p>Filter 10 micron sintered bronze</p> <p>Diaphragm 316L stainless steel</p> <p>Internal Seals PTFE</p>	<p>Maximum Inlet Pressure 3000 PSIG (210 BAR)</p> <p>Temperature Range -40°F to 140°F (-40°C to 60°C)</p> <p>Gauges 2" diameter chrome-plated</p> <p>Ports ¼" FPT</p> <p>Helium Leak Integrity 1 x 10⁻⁸ scc/sec</p> <p>Cv 0.1</p> <p>Weight (305-8381-M1L) 2.8 lbs. (1.29 kg)</p>

Flow Performance



Ordering Information and Configuration Options

305	A	B	C	D	-Inlet	
Series 305	Outlet Pressure 1: 0-15 2: 0-30 3: 0-50 5: 0-100 6: 0-200 7: 0-500 8: 2-15 LPM CO ₂ 9: Custom Calibration	Outlet Gauge 0-30 PSIG 0-60 PSIG 0-100 PSIG 0-200 PSIG 0-400 PSIG 0-1000 PSIG 2-15 LPM Flowgauge Custom Flowgauge	Inlet Gauge 0: None 3: 0-4000 PSIG	Outlet Assemblies 0: 1/4" FPT Port 1: 1/4" MPT 2: 1/4" Tube Fitting 3: Diaphragm Valve 1/4" Tube Fitting 4: Diaphragm Valve 1/4" MPT 5: Needle Valve 1/4" MPT 6: 1/8" Tube Fitting 7: 3/8" Tube Fitting 8: Diaphragm Valve 1/8" Tube Fitting 9: Diaphragm Valve 1/4" FPT A: 3/8" BSP Right Hand Fitting	Assembly/Gauges 0: Bare Body 1: Standard Assembly (PSIG/kPa Gauges) 2: Standard Assembly (BAR/PSIG Gauges)	Inlet Connections See Inlet/Outlet selection chart below (Availability is limited to the combinations shown)

Gas Service	Inlet (Threaded)	Inlet (Yoke)	Outlet (Medical DISS)
Air	CGA 346	CGA 950	1160
Argon	CGA 580	not available	1060 1120
Carbon Dioxide	CGA 320	CGA 940	1080
Carbon Dioxide < 7% and Oxygen	CGA 280	CGA 880	1020 1180 1200
Carbon Dioxide > 7% and Oxygen	CGA 500	CGA 940	1020 1060 1080
Clinical Blood Gas Mixtures	CGA 500	CGA 973	1020 1060 1080
Cyclopropane	not available	CGA 920	1100
Ethylene	not available	CGA 900	1140
Helium	CGA 580	not available	1060 1120
Helium < 80% and Oxygen	CGA 280	CGA 890	1020 1180 1200
Helium > 80% and Oxygen	CGA 500	CGA 930	1020 1060 1080
Krypton	CGA 580	not available	1060 1120
Methylene Fluoride	CGA 320	not available	1080
Neon	CGA 580	not available	1060 1120
Nitrogen	CGA 580	CGA 960	1060 1120
Nitrogen and Oxygen < 23.5%	CGA 280	CGA 890	1020 1180 1200
Nitrous Oxide	CGA 326	CGA 910	1040
Nitrous Oxide 47.5% - 52.5% and Oxygen	CGA 280	CGA 965	1020 1180 1200
Oxygen	CGA 540	CGA 870	1240
Tetrafluoromethane	CGA 580	not available	1060 1120
Xenon	CGA 580	not available	1060 1120
Xenon and Oxygen < 20%	CGA 280	CGA 890	1020 1180 1200

315 Series

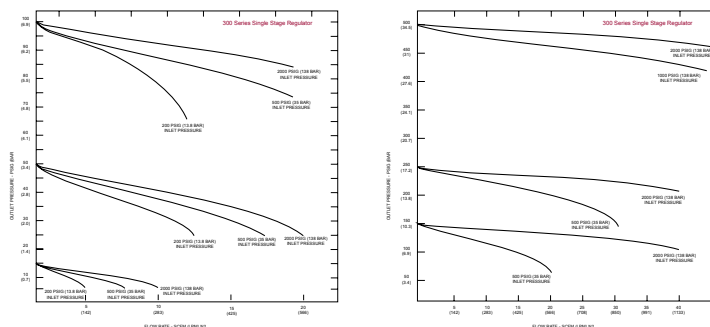
dual stage, chrome-plated brass barstock regulator



Description	Advanced Features	Typical Applications
The 315 Series regulators are specifically designed for use in the medical laboratory for blood gases, laser gases, and other clinical gas applications requiring constant pressure control and delivery regardless of supply pressure variations.	<ul style="list-style-type: none"> Chrome-Plated Brass Barstock Body 316L Stainless Steel Diaphragm 	<ul style="list-style-type: none"> Blood gases Laser gases Medical research Pharmaceutical manufacturing University laboratories

300 Series Advantage	Materials	Specifications
<ul style="list-style-type: none"> Capsule® seat Increased serviceability and life 316L stainless steel diaphragm No inboard diffusion Low wetted surface area Minimal purge requirements Field-adjustable pressure limit Safeguard downstream equipment Convolute diaphragm Smooth pressure changes Compact design Easily transported and integrated 	<p>Body Chrome-plated brass barstock</p> <p>Bonnet Chrome-plated die cast zinc</p> <p>Seat PTFE</p> <p>Filter 10 micron sintered bronze</p> <p>Diaphragm 316L stainless steel</p> <p>Internal Seals PTFE</p>	<p>Maximum Inlet Pressure 3000 PSIG (210 BAR)</p> <p>Temperature Range -40°F to 140°F (-40°C to 60°C)</p> <p>Gauges 2" diameter chrome-plated</p> <p>Ports ¼" FPT</p> <p>Helium Leak Integrity 1 x 10⁻⁸ scc/sec</p> <p>Cv 0.1</p> <p>Weight (315-8381-MIL) 4.2 lbs. (1.90 kg)</p>

Flow Performance



Ordering Information and Configuration Options

315	A	B	C	D	-Inlet	
Series 315	Outlet Pressure	Outlet Gauge	Inlet Gauge	Outlet Assemblies	Assembly/ Gauges	Inlet Connections
	1: 0-15 2: 0-30 3: 0-50 5: 0-100 6: 0-200 7: 0-500 8: 2-15 LPM CO ₂ 9: Custom Calibration	0-30 PSIG 0-60 PSIG 0-100 PSIG 0-200 PSIG 0-400 PSIG 0-1000 PSIG 2-15 LPM Flowgauge Custom Flowgauge	0: None 3: 0-4000 PSIG	0: 1/4" FPT Port 1: 1/4" MPT 2: 1/4" Tube Fitting 3: Diaphragm Valve 1/4" Tube Fitting 4: Diaphragm Valve 1/4" MPT 5: Needle Valve 1/4" MPT 6: 1/8" Tube Fitting 7: 3/8" Tube Fitting 8: Diaphragm Valve 1/8" Tube Fitting 9: Diaphragm Valve 1/4" FPT A: 3/8" BSP Right Hand Fitting	0: Bare Body 1: Standard Assembly (PSIG/kPa Gauges) 2: Standard Assembly (BAR/PSIG Gauges)	See Inlet/Outlet selection chart below (Availability is limited to the combinations shown)

Gas Service	Inlet (Threaded)	Inlet (Yoke)	Outlet (Medical DISS)
Air	CGA 346	CGA 950	1160
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Carbon Dioxide	CGA 320	CGA 940	1080
Carbon Dioxide < 7% and Oxygen	CGA 280	CGA 880	1020 1180 1200
Carbon Dioxide > 7% and Oxygen	CGA 500	CGA 940	1020 1060 1080
Clinical Blood Gas Mixtures	CGA 500	CGA 973	1020 1060 1080
Cyclopropane	not available	CGA 920	1100
Ethylene	not available	CGA 900	1140
Helium	CGA 580	not available	1060 1120
Helium < 80% and Oxygen	CGA 280	CGA 890	1020 1180 1200
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Krypton	CGA 580	not available	1060 1120
Methylene Fluoride	CGA 320	not available	1080
Neon	CGA 580	not available	1060 1120
Nitrogen	CGA 580	CGA 960	1060 1120
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