

605 Series Manifold Regulator

ISOFLOW™
 Seat Design
 High Flow
 High Purity



605-3311-580 shown

ASSIST GAS SUPPLY

The 605 Series regulators are intended for pressure control at the source of either liquid or high pressure cylinders for applications with pressure requirements up to 250 PSIG.

Advanced Features

- *Up to 3,000 PSIG Inlet Available*
Liquid or high pressure use
- *High Flow Delivery Regulator*
ISOFLOW™ seat design
- *40-Micron Internal Filter*
Limits possibility of gas contamination
- *Balance Stem Seat*
Eliminates decaying inlet pressure fluctuation
- *Stainless Steel Diaphragm*
UHP design

Applications

Liquid or High Pressure Cylinder Use
 Beam Purge
 N₂ or O₂ assist
Bulk Gas Distribution Systems
Laser Welding Shielding Gases
 CO₂, Argon, Helium

Materials

Body
 Brass barstock
Bonnet
 Chrome-plated die cast zinc
Seat
 PTFE
Filter
 40-micron 316L stainless steel mesh
Diaphragm
 316L stainless steel
Internal Seals
 PTFE

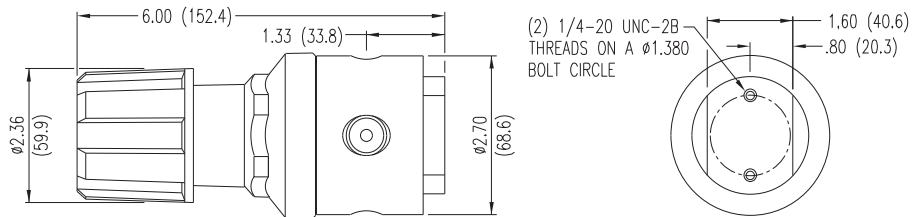
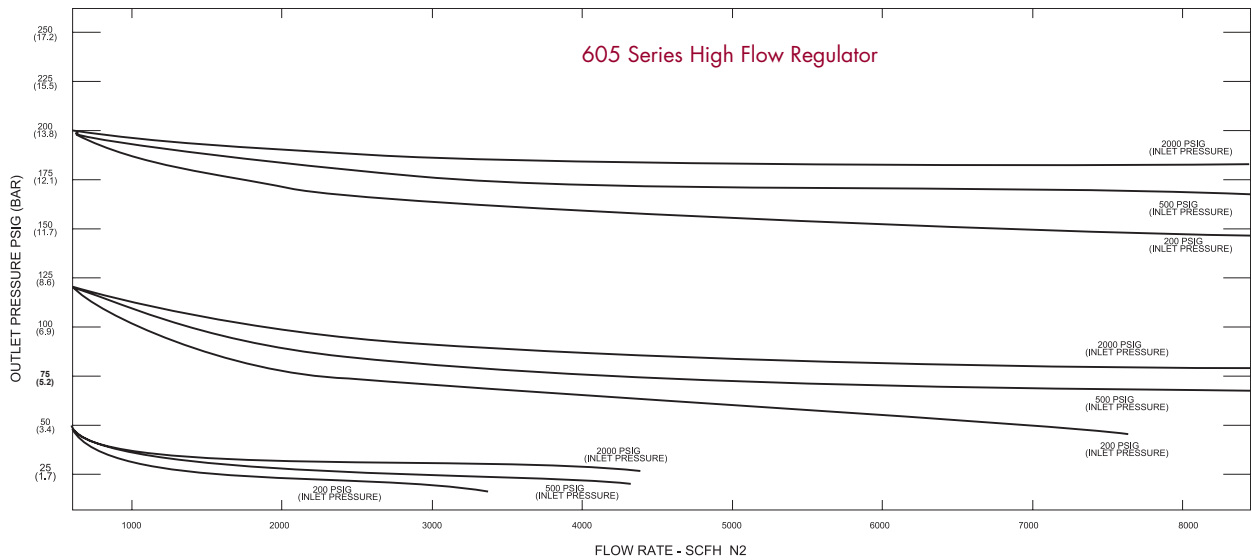
Specifications

Maximum Inlet Pressure
 3,000 PSIG (210 BAR)
Temperature Range
 -40°F to 140°F (-40°C to 60°C)
Gauges
 2" diameter brass
Ports
 ½" FPT (inlet/outlet)
 ¼" FPT (gauges)
Helium Leak Integrity
 1 x 10⁻⁸ scc/sec
Cv
 1.0
Weight
 4.4 lbs. (2 kg)

CONCOA

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Flow Performance Curves



ASSIST GAS SUPPLY

Ordering Information

605-	A		B	C	D	Inlet	Options
Series 605	Outlet Pressure	Outlet Gauge	Inlet Gauge	Outlet Assemblies	Assembly/ Gauges	Connections	Installed Options
	1: 0-15 PSIG 2: 0-40 PSIG 3: 0-120 PSIG 4: 0-200 PSIG 5: 0-250 PSIG	0-30 PSI 0-60 PSI 0-200 PSI 0-400 PSI 0-400 PSI	3: 0-4,000 PSI 9: 0-600 PSI	0: 1/2" FPT Port 1: 1/2" Tube Fitting 2: 12mm Tube Fitting	1: Standard Assembly (PSI/kPa Gauges) 2: Standard Assembly (BAR/PSI Gauges)	000: 1/2" FPT M12: 12mm Tube Fitting TF8: 1/2" Tube Fitting CGA DIN 477 BS 341 and others available	A: Laser Gas Alarm Station (110V) B: Laser Gas Alarm Station (220V) C: Laser Gas Switchover Station G: Laser Gas Switchover Station with Alarm (110V) H: Laser Gas Switchover Station with Alarm (210V) M: Laser Gas Station

Related Options

Option	Order No.	Description
Laser Panels Purge Devices Laser Gas Station	See Page 9 See Page 47 Add Letter "M" after inlet	Three Gas Panel delivery systems for the Laser Gases (Helium, Nitrogen and Carbon Dioxide) Tee and Straight Purge configurations to satisfy all requirements Wall mount bracket, including stainless steel pigtail with check valve in the inlet gland