

623 Series Delivery System



The 623 is an Ultra High Flow gas delivery system for laser purity gases. Typically these gases are supplied from low pressure (less than 600 PSIG/042 BAR) cryogenic supply systems. The 623 is designed for direct installation to the external vaporizer. The dome-loaded, balanced stem seat design allows for full flow capacity that may be required for the assist or process gases and ensures constant delivery flow and pressure regardless of supply source inlet pressure fluctuations.

623 Features

- Up to 3000 PSIG Inlet Available. Liquid or High Pressure Use.
- High Flow Delivery Regulator. ISOFLOW™ Seat Design.
- 40-Micron Internal Filter. Limits Possibility of Gas Contamination.
- Variable Line Pressure. Line Pressure Adjustable on Site.
- Wall Mounting Bracket. Easy Installation.
- Right and Left Hand Inlets Available. Flexible Installation Options.

623 Typical Application

- Assist Gases from Cryogenic Supply (*Nitrogen and Oxygen*) (Use low inlet models for LaserCyl™ and Trifecta™)
- Assist Gases for High Pressure Supply (*Nitrogen and Oxygen*) (Use high inlet models with “Gas Paks”, cradles, and tube trailers)

Materials of Construction

- Delivery Regulator Brass Bar Stock Body and Bonnet
PTFE Seat
PTFE and Viton® (internal)
- Pilot Regulator Brass Bar Stock Body and Bonnet
PTFE Seat
PTFE and Viton® (internal)
- Tubing and Tube Fittings 316L Stainless Steel
- Pressure Gauges Brass (*Socket*)
Bronze (*Bourdon Tube*)
Brass (*Case*)

623 Specifications

- Maximum Inlet Pressure 600 PSIG (42 BAR)
3000 PSIG (210 BAR)
- Temperature Operating Range -40° F - 140° F (-40° C - 60° C)
- Maximum Flow (Nitrogen) 10,000 SCFH (4700 lpm)
- Inlet Connection 1/2" FPT
- Outlet Connection 1/2" FPT
- Weight 12.6 lbs. (5.7 kg.)

How to Order: *Specify a number from each category*

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Model Number Series	Outlet Pressure PSIG	Inlet Connection	Outlet Connection	Assembly Orientation/ Maximum Inlet Pressure	Inlet Connection
623	2 0-2000 PSIG (0-136 BAR)	0 1/2" FPT Port	0 1/2" FPT Port	0 Right Hand Inlet 600 PSIG (92 BAR)	Please specify inlet connection
	5 0-500 PSIG (0-35 BAR)				
	7 0-725 PSIG (0-50 BAR)			2 Right Hand Inlet 3000 PSIG (210 BAR)	