



622 Series Delivery System

The single-body design of the 622 makes it a great choice for start-up installation using twelve-packs or liquid cylinders. The dome loaded seat offers excellent flow capacity, which enables the 622 to transition into a point-of-use regulator of a bulk installation.

Advanced Features

- **Up to 4,500 PSIG Inlet Available**
Liquid or high pressure use
- **40-Micron Internal Filter**
Limits possibility of gas contamination
- **Optional Wall Mounting Kit**
Maintains flow capacity
- **Right and Left Hand Inlets Available**
Flexible installation options



622-3503-580 shown

Applications

Assist Gases from Cryogenic Supply

Nitrogen and Oxygen
(Use low inlet models for MVE Laser-Cyl™*, TW™ VHP liquid cylinder*, MVE Trifecta™, CTR Laser Maid™, and TW™ Laser Pak Systems)

**Requires optional external ambient air vaporizers for maximum flow capacity.*

Assist Gases from High Pressure Supply

Nitrogen and Oxygen
(Use high inlet models with "Gas Paks", cradles, and tube trailers)

Materials

Delivery Regulator

Brass barstock body and bonnet
PTFE seat* or PCTFE seat†
PTFE and Viton® (internal)

Pilot Regulator

Brass barstock body and bonnet
PTFE seat* or PCTFE seat†
PTFE and Viton® (internal)

Tubing and Tube Fittings

316L stainless steel

Pressure Gauges (PSIG/BAR Dual Scale)

Brass (Socket)
Bronze (Bourdon tube)
Brass (Case)

** 3,000 PSIG (208 BAR) inlet
†4,500 PSIG (310 BAR) inlet*

Specifications

Maximum Inlet Pressure

600 PSIG (42 BAR),
3,000 PSIG (210 BAR)
4,500 PSIG (310 BAR)

Temperature Range

-40 to 140°F (-40 to 60°C)

Maximum Flow (Nitrogen)

5,200 SCFH (2454 lpm)

Inlet Connection

½" FPT

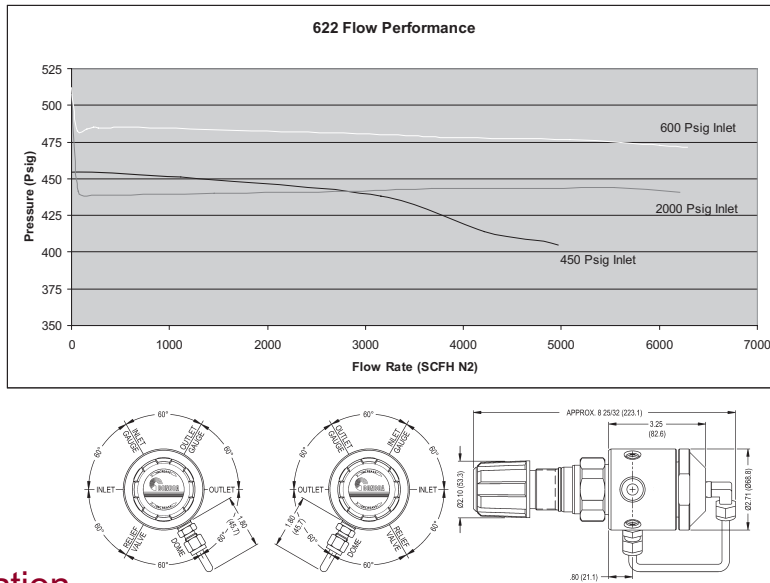
Outlet Connection

½" FPT

Weight

5.4 lbs. (3.5 kg)

Flow Performance Curves



Ordering Information

622	A	B	C	D	Inlet	Options
Series 622	Outlet Pressure	Inlet Pressure	Outlet Connection	Assembly Orientation/ Maximum Inlet Pressure	Connection	Options
	1:0-100 PSIG	0:1/2" FPT Port	0:1/2" FPT Port	0:Right Hand Inlet 600 PSIG (42 BAR)	Please specify inlet connection CGA 477 BS 341 and others available	W: Wall Mount Kit**
	2:0-250 PSIG	1:1/2" Stainless Steel Tube Fitting	1:1/2" Stainless Steel Compression Tube	1:Left Hand Inlet 600 PSIG (42 BAR)		B:Two Cylinders*
	3:0-500 PSIG	2:12mm Tube Fitting	2:12mm Stainless Steel Compression Tube	2:Right Hand Inlet 3,000 PSIG (210 BAR)		C:Three Cylinders*
		3:Diaphragm Valve 1/2" FPT	3:Diaphragm Valve 1/2" FPT	3:Left Hand Inlet 3,000 PSIG (210 BAR)		D:Four Cylinders
		4:Diaphragm Valve 1/2" Tube	4:Diaphragm Valve 1/2" Tube	4:Right Hand Inlet 4,500 PSIG (310 BAR)		E:Five Cylinders*
	5:Cylinder Connection	5:3/8" FPT Port	5:3/8" FPT Port	5:Left Hand Inlet 4,500 PSIG (310 BAR)		F:Six Cylinders*
	6:MicroManifold with 72" Pigtail	6:3/8" - 37° JIC Male Flare	6:3/8" - 37° JIC Male Flare			G:Seven Cylinders*
	7:MicroManifold with Master Valve and 72" Pigtail					H:Eight Cylinders*
	8:MicroManifold with P/S and 72" Pigtail					*Valid if B=6, 7, 8 or 9
	9:MicroManifold with Master Valve, P/S and 72" Pigtail				**Valid if B=0, 1, 2, 3, 4 or 5	

Related Options

Option	Series	Description
Front Panel Mount Kit	550-0002	Pilot regulator panel mount nut and washer
RH Wall Mount Kit	830-9772	Wall mount bracket with pilot regulator panel mount nut and washer
LH Wall Mount Kit	830-9773	Wall mount bracket with pilot regulator panel mount nut and washer
Cryogenic Liquid Hoses	See page 57	Supply liquid gas to vaporizers
Tube Trailer Hoses	See page 56	Connection from high pressure tube trailer to gas delivery systems
Vaporizer	See page 59	Vaporizer specifically designed for use with the 622 gas delivery system