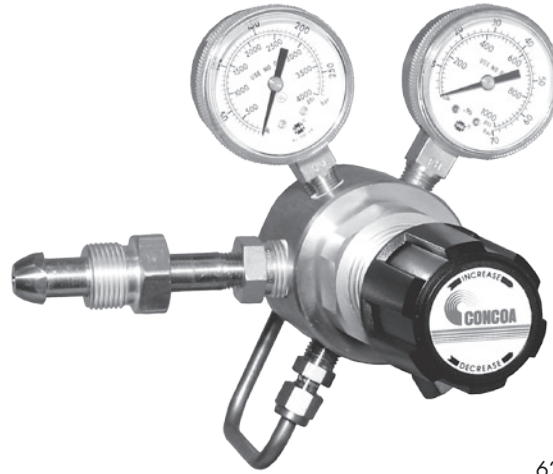


622 Series Delivery System

*Laser Assist Gas
Single Body Design
High Flow
Dome Loaded*



622-3503-580 shown

ASSIST GAS SUPPLY

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

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) or
4,500 PSIG (310 BAR)

Temperature Range

-40 to 140°F (-40 to 60°C)

Maximum Flow (Nitrogen)

6,000 SCFH (2800 lpm)

Inlet Connection

½" FPT

Outlet Connection

½" FPT

Weight

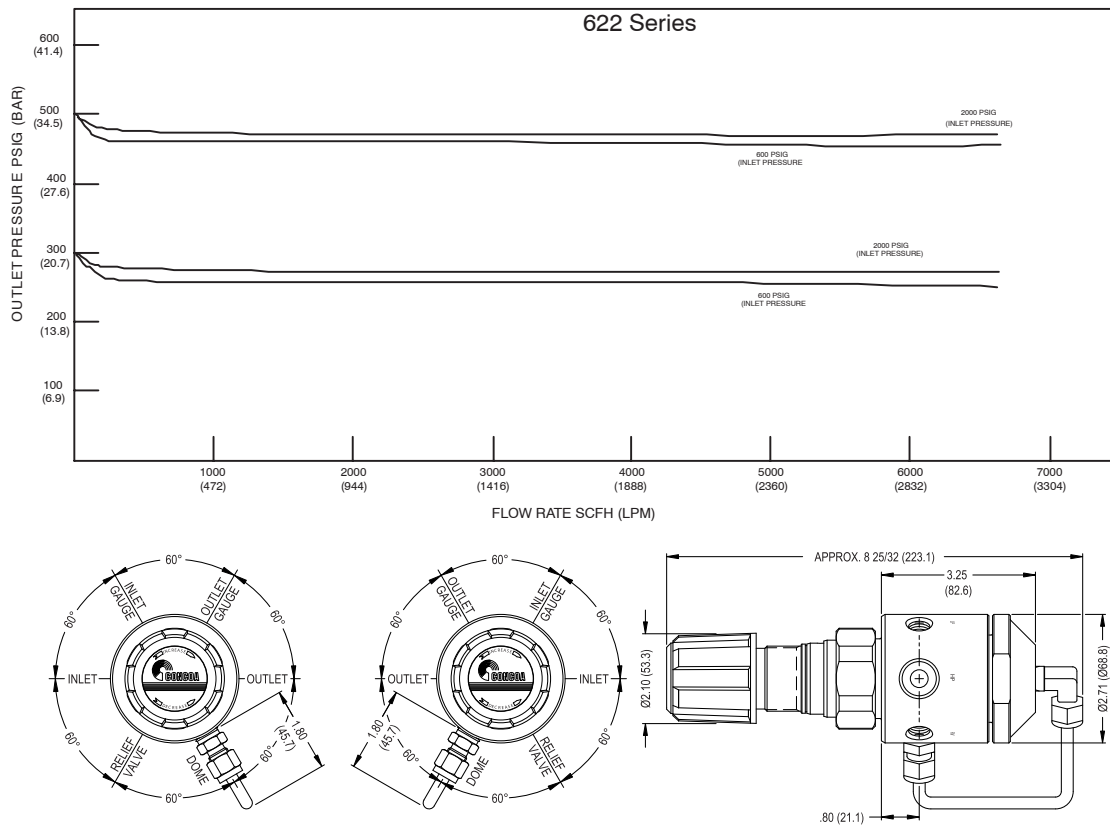
5.4 lbs. (3.5 kg)

CONCOA

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Flow Performance Curves



ASSIST GAS SUPPLY

Ordering Information

622-	A	B	C	D	Inlet	Options
Series 622	Outlet Pressure 1: 0-100 PSIG 2: 0-250 PSIG 3: 0-500 PSIG	Inlet Connection 0: 1/2" FPT Port 1: 1/2" Stainless Steel Tube Fitting 2: 12mm Tube Fitting 3: Diaphragm Valve 1/2" FPT 4: Diaphragm Valve 1/2" Tube 5: Cylinder Connection 6: MicroManifold with 72" Pigtail 7: MicroManifold with Master Valve and 72" Pigtail 8: MicroManifold with P/S and 72" Pigtail 9: MicroManifold with Master Valve, P/S and 72" Pigtail	Outlet Connection 0: 1/2" FPT Port 1: 1/2" Stainless Steel Compression Tube 2: 12mm Stainless Steel Compression Tube 3: Diaphragm Valve 1/2" FPT 4: Diaphragm Valve 1/2" Tube 5: 3/8" FPT Port 6: 3/8" - 37° JIC Male Flare	Assembly Orientation/ Maximum Inlet Pressure 0: Right Hand Inlet 600 PSIG (42 BAR) 1: Left Hand Inlet 600 PSIG (42 BAR) 2: Right Hand Inlet 3,000 PSIG (210 BAR) 3: Left Hand Inlet 3,000 PSIG (210 BAR) 4: Right Hand Inlet 4,500 PSIG (310 BAR) 5: Left Hand Inlet 4,500 PSIG (310 BAR)	Connection Please specify inlet connection CGA DIN 477 BS 341 and others available	W: Wall Mount Kit** B: Two Cylinders* C: Three Cylinders* D: Four Cylinders* E: Five Cylinders* F: Six Cylinders* G: Seven Cylinders* H: Eight Cylinders* *Valid if B=6, 7, 8 or 9 **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 53	Supply liquid gas to vaporizers
Tube trailer hoses	See page 51	Connection from high pressure tube trailer to gas delivery systems
Vaporizer	See page 53	Vaporizer specifically designed for use with the 622 gas delivery system