



A-flow

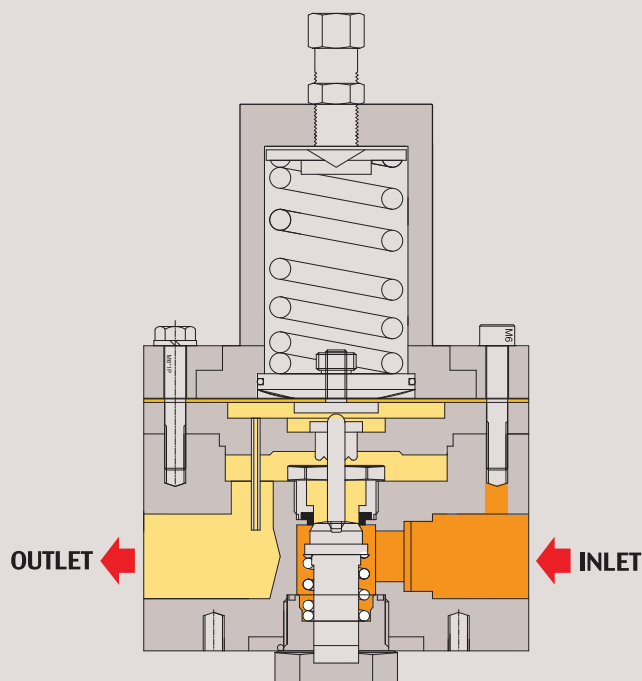
www.a-flow.com

DR110 S E R I E S

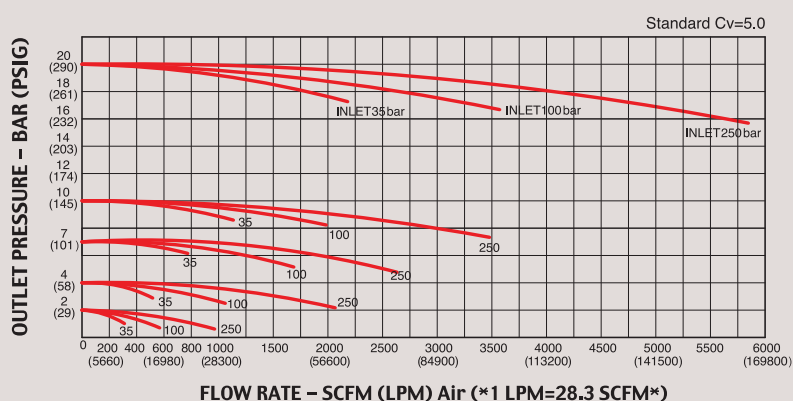
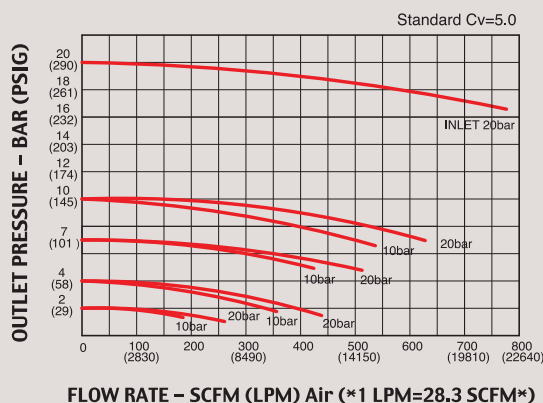
Gas and Water High Flow Low Pressure Regulators



FUNCTIONAL SCHEMATIC



FLOW CHART



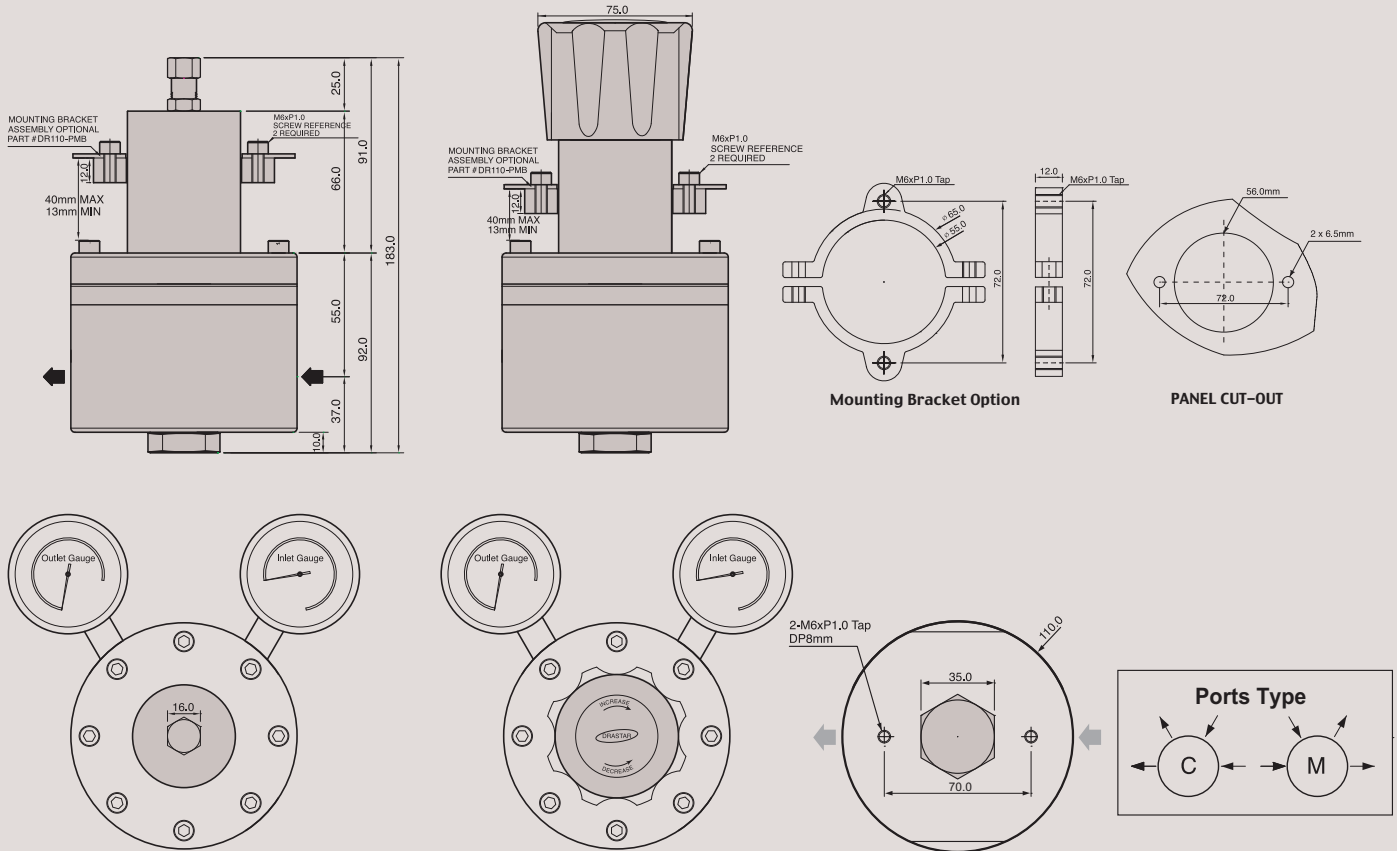
Gas and Water High Flow NPT 1/2", 3/4", 1"

DR110 Series having Cv5.0 is a pressure reducing regulator ideally designed to use for high flow application in the field of general industrial gas pipeline, air pipeline, wafer or DI water lines. 1/2", 3/4", and 1" NPT and BSP connections are available.

Features & Applications

- 1/2", 3/4", and 1" NPT port of connection available
- Drop-preventing function is built in
- Inlet pressures are 250bar(3600psi) or 42bar(600psi) and outlet pressures are 2bar(30psig) ~ 20bar(290psig)
- Panel mounting and wall mounting bracket available as option
- Design proof pressure: 150% of maximum rated
- Suitable for D/I water, industrial gases, air or water line industrial control

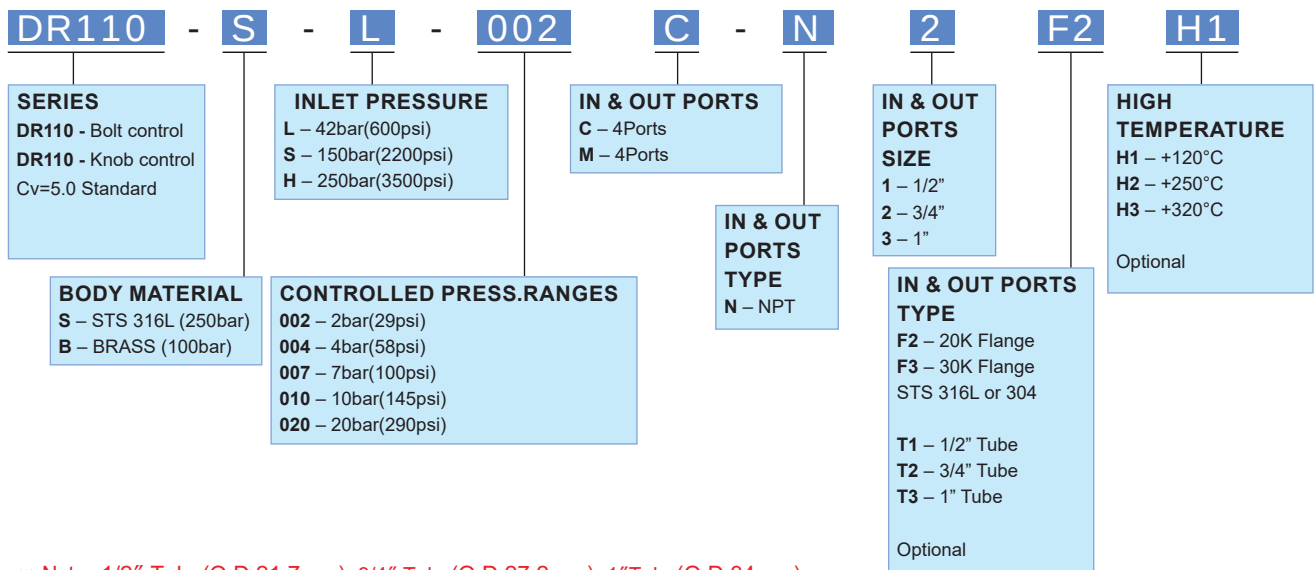
INSTALLATION DIMENSIONS



※ DRASTAR' s all pressure regulators are assembled, cleaned, inspected, and packed in clean-room equipped with clean bench, helium detector, particle counter, ultrasonic cleaner, ultrapure water system, vacuum packaging machine, etc. through oxygen cleaning procedure in compliance with process and regulations indicated in CGA 4.1. and or ASTM G-93 and are free of any grease or oils.

※ **Caution:** Filtering (gas $7\mu\text{m}$ ~ $15\mu\text{m}$, water $15\mu\text{m}$ ~ $80\mu\text{m}$) is a MUST to use in the general gas application other than high purity gases. Otherwise, it may cause

ORDERING INFORMATION

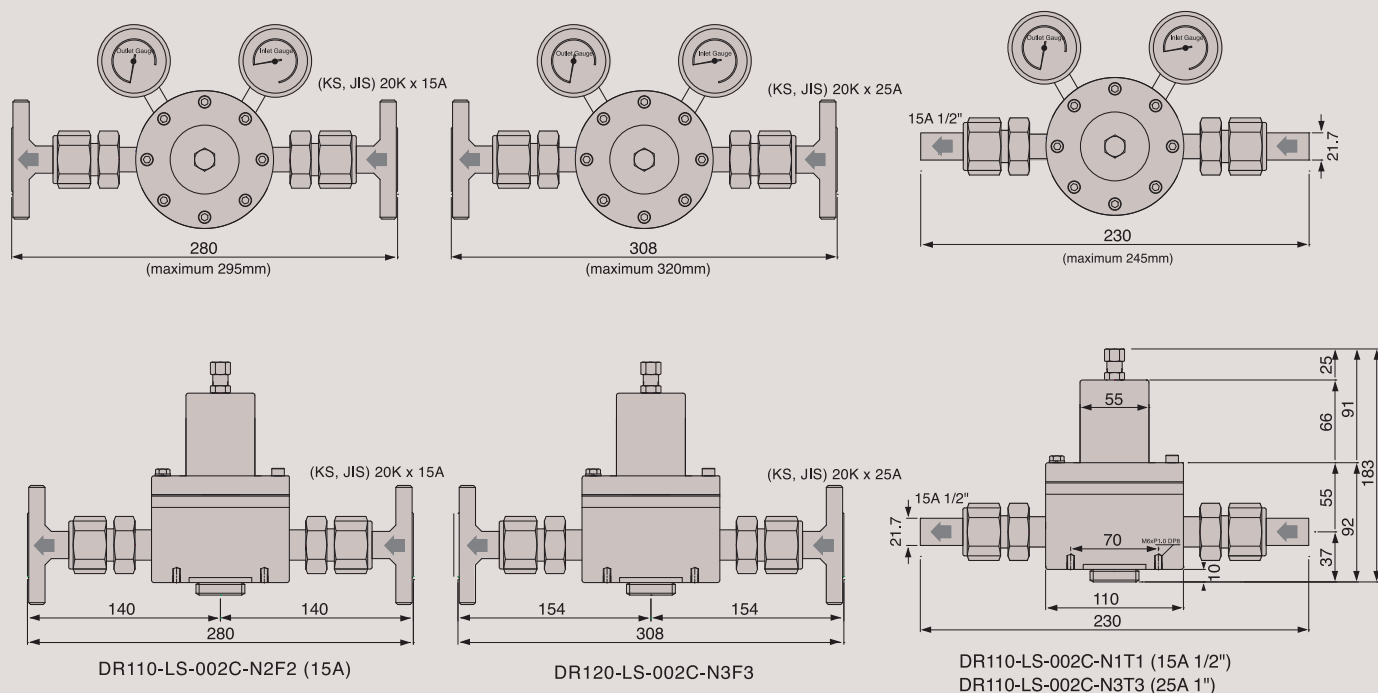


※ Note : 1/2" Tube(O.D 21.7mm), 3/4" Tube(O.D 27.2mm), 1"Tube(O.D 34mm)

INSTALLATION DIMENSIONS

METRIC EQUIVALENTS ARE IN PARENTHESES

GAUGE PORT OPTIONS



Specifications

In/Outlet Port Size	1/2", 3/4", 1" FNPT / Gauge port: 1/4" NPT F1 = 1/2" 10k Flange / T1 = 1/2" Tube F2 = 3/4" 20k Flange / T2 = 3/4" Tube F3 = 1" 30k Flange / T3 = 1" Tube
Body	Stainless Steel 316L / Nickel Plated Brass
Bonnet	Aluminum #2024
Diaphragm	Teflon
Main Valve	Stainless Steel 316L
Valve Spring	Stainless Steel 316L
Valve Seat	Teflon
Maximum Inlet Pressure	L=42bar(600psig), S= 150bar(2200psig), H=250bar(3,600psig)
Outlet Pressure Range	2bar(29psig), 4bar (58psig), 7bar (100psig),10bar (145psig), 20bar (290psig)
Design Proof Pressure	150% of maximum rated
Leakage	to 2x10 ⁻⁵ atmcc/secHeliumavailable
Operating Temperature	-40°C to +70°C(-40°F to +160°F) H1 option: up to +120°C (Optional) H2 option: up to +250°C (Optional)
Flow Capacity	Cv = 5.0
Other Options	Pressure Gauges, etc.
Weight	Approx. 6.5kgs