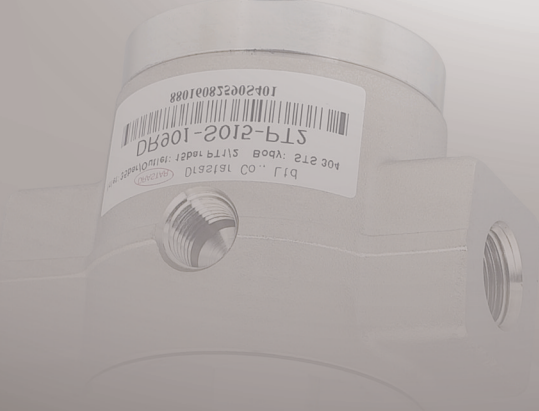




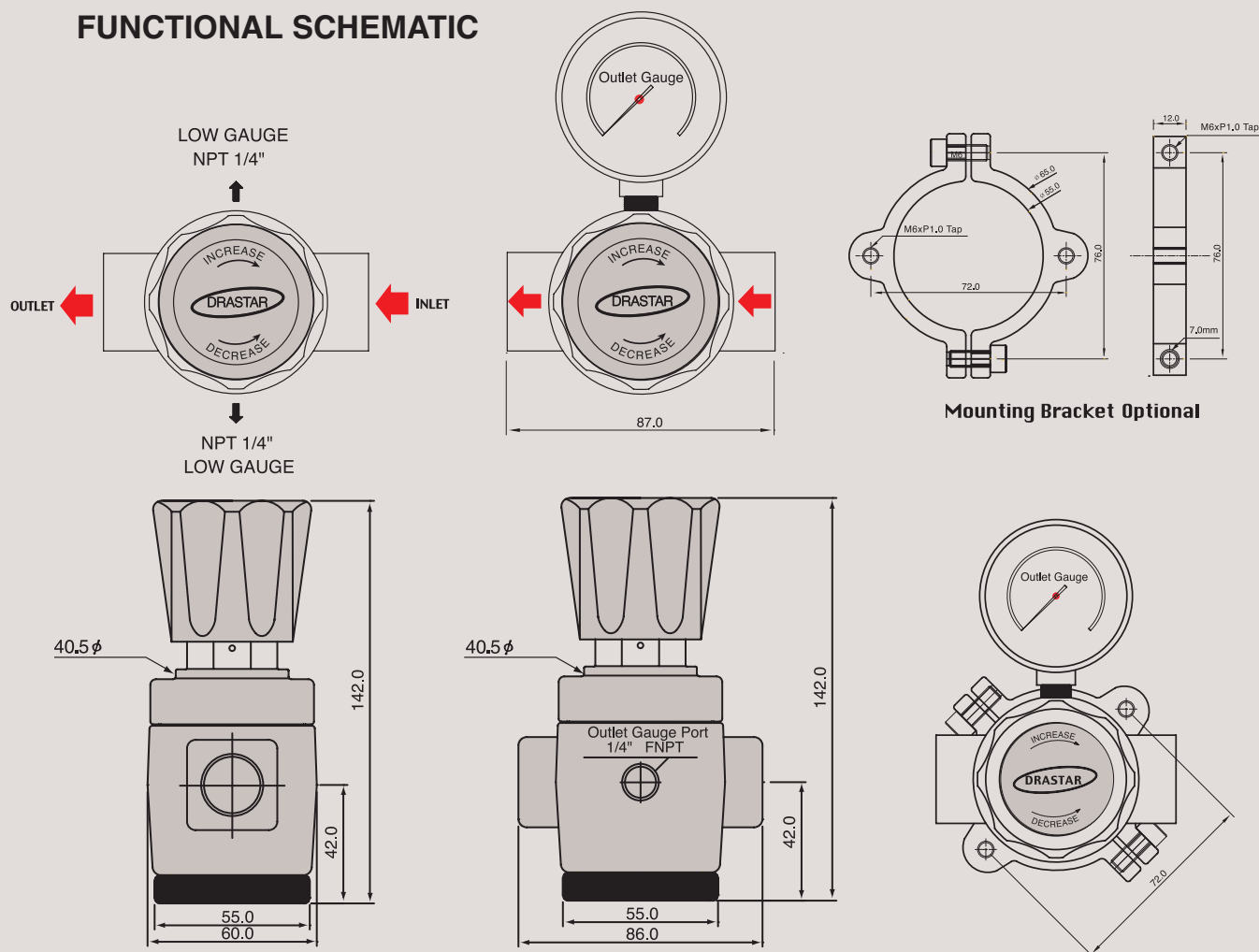
DR90 S E R I E S



GAS AND D/I WATER HIGH FLOW PT TYPE



FUNCTIONAL SCHEMATIC

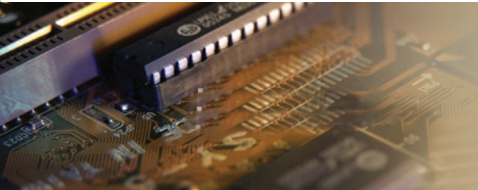


Gas and D/I Water High Flow PT type (1/2", 3/4", 1")

DR90 Series with Cv4.0 is a PT type pressure reducing regulator ideally designed to use for D/I water, general industrial gases, air or water line. 3/8", 1/2", 3/4", or 1" PT type ports of connection are available.

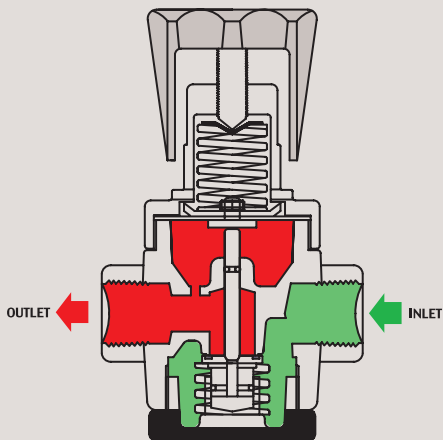
Features & Applications

- 3/8", 1/2", 3/4", or 1" PT type port of connection available
- Inlet pressure is 42bar(600psig) and outlet pressures are 5bar(72psig), 10bar(145psig), 15bar(210 psig)
- Panel mounting bracket available as option
- Design proof pressure: 150% of maximum rated
- Suitable for D/I water, industrial gases, air or water line (Cv = 4.0)

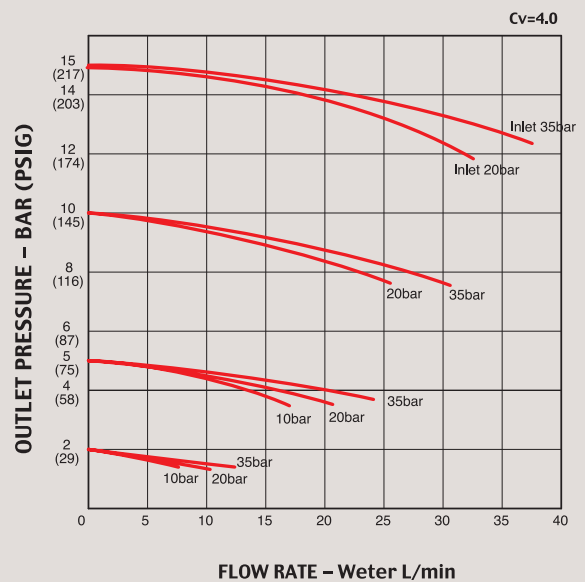
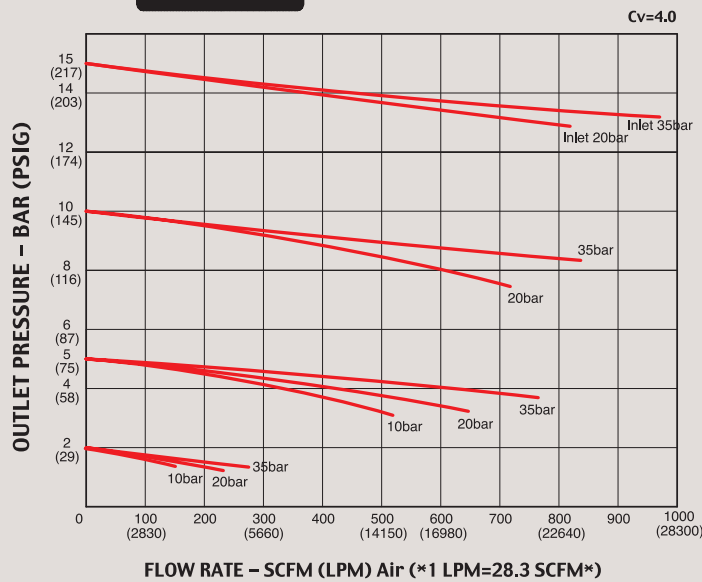


REFERENCE

This catalogue is printed as of January 2018, and the dimensions and/or specifications in this catalogue can be changed without prior notice in the course of constant upgrading and improvement of our products.



FLOW CHART



※ 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 $7\mu\text{m}\sim 15\mu\text{m}$, water $15\mu\text{m}\sim 80\mu\text{m}$) is a MUST to use in the general gas application other than high purity gases. Otherwise, it may cause a failure to the regulators. It is strongly recommended to install filter for extension of life span and saving the maintenance expense.

ORDERING INFORMATION

DR90

-

S

005

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PT2

BASIS SERIES NUMBER	BODY MATERIAL	CONTROLLED PRESS. RANGES	IN & OUT PORTS SIZE
DR901 = Bolt Control DR902 = Knob Control DR905 = Knob Control Only Di Water Inlet Pressure Max. 42bar(600psi)	S = STS 304 or STS 316L	005 = 5bar(72psi) 010 = 10bar(145psi) 015 = 15bar(217psi)	PT8 = 3/8" PT2 = 1/2" PT3 = 3/4" PT1 = 1"

SPECIFICATIONS

Ports	DR90x-S000-PT8 3/8" Female PT DR90x-S000-PT2 1/2" Female PT DR90x-S000-PT3 3/4" Female PT DR90x-S000-PT1 1" Female PT
Leak Rate Certification	to 2 x 10 ⁻⁶ atm cc/sec Helium available
Body Materials	DR90x-S000-PTx Stainless steel 304 DR90x-B000-PTx Nickel Plated Forged Brass
Bonnet Material	Zinc(Zn) Casting Nickel Plated
Diaphragm	Particular of Synthetic Rubber
Main Valve	Stainless steel
Valve Spring	Stainless steel
Valve Seat	Viton
Inlet Pressure Ranges	42bar(600psi)
Outlet Pressure Ranges	DR90x-x005-PTx 5bar(72psi) DR90x-x010-PTx 10bar(145psi) DR90x-x020-PTx 20bar(290psi)
Operating Temperature	-40° C ~ +70° C (-40° F ~ +165° F) Standard
Flow Capacity	3/8", 1/2" Cv = 4.0 Standard 3/4", 1" Cv = 4.5 Standard
Standard Optional	Outlet Gauge

