

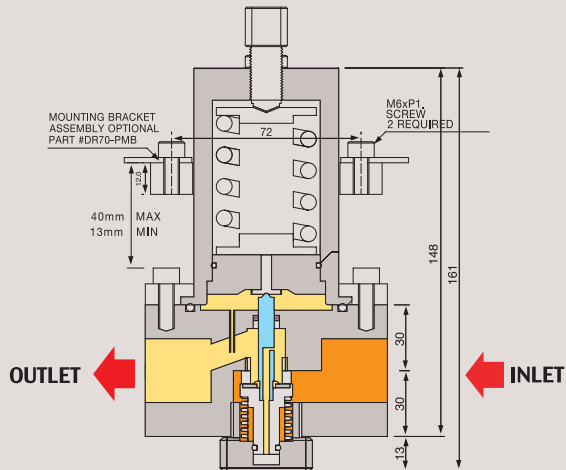
DR70 S E R I E S

HIGH-FLOW HIGH PRESSURE
NPT OR BSP TYPE

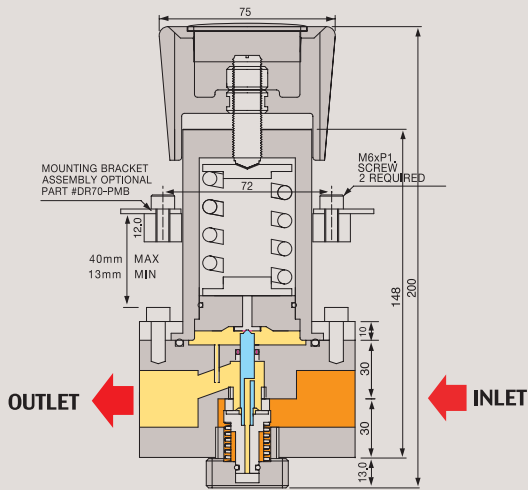


FUNCTIONAL SCHEMATIC

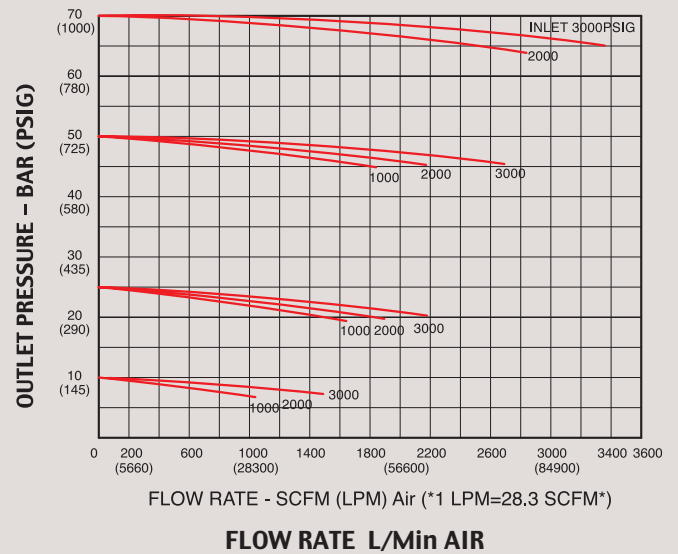
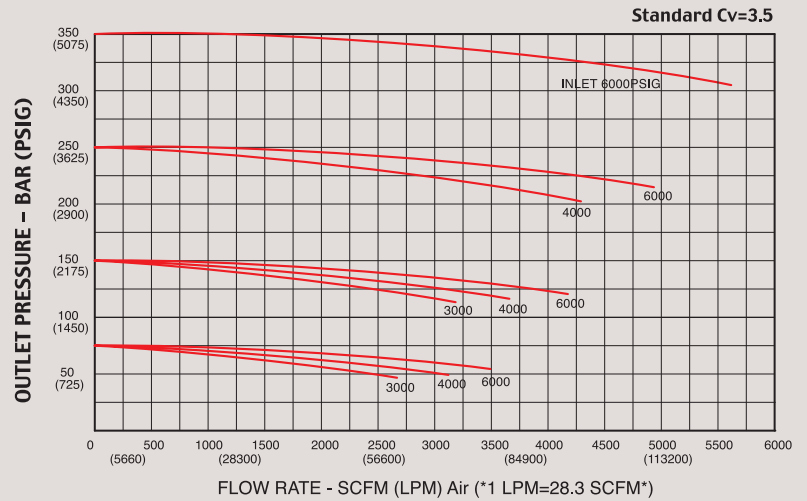
■ BOLT CONTROL TYPE (DR701 SERIES)



■ KNOB CONTROL TYPE (DR702 SERIES)



FLOW CHART



High Flow and High Pressure NPT or BSP type (1/2", 3/4", 1")

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DR70 Series is a NPT or BSP type single-stage high flow pressure reducing regulator suitable for pipeline application where high flow of water, chemical, liquid and gases are being used. Drop-preventing function of DR70 series enables stable and precise regulation of outlet pressure even facing with wide pressure variation at P1.

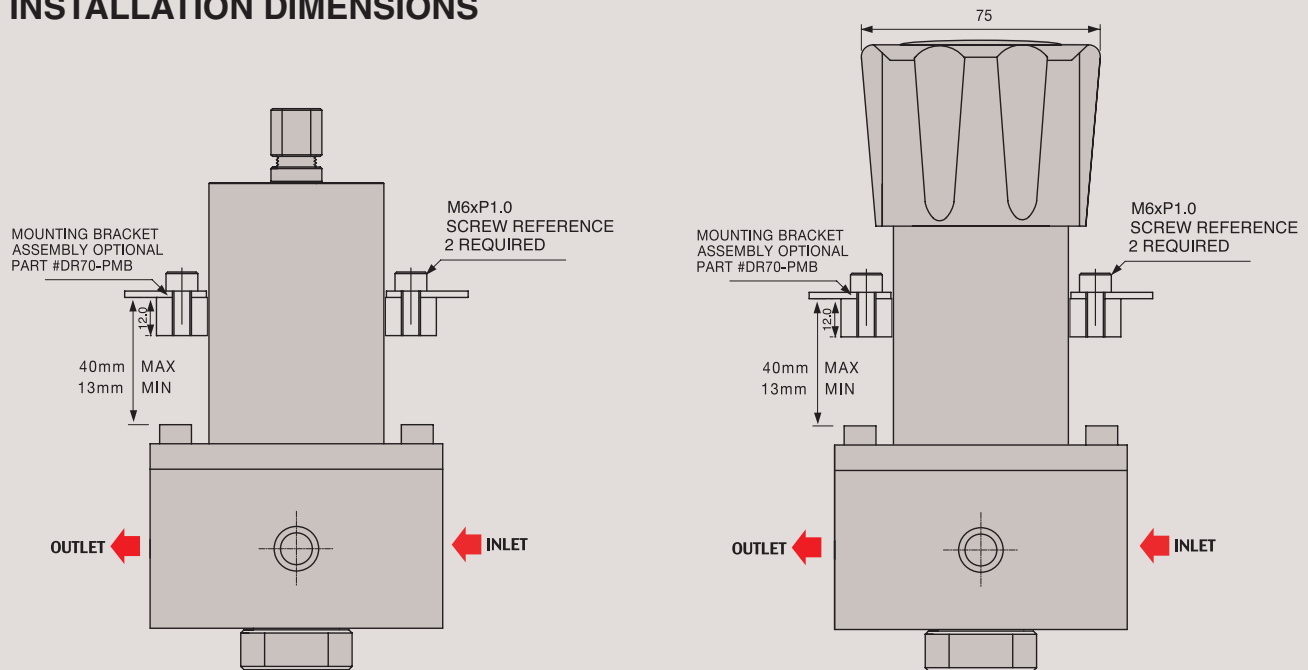
Features & Applications

- 1/4", 3/4", 1" NPT or BSP type available
- Drop-preventing function is built in
- Suitable for the industrial control
- Inlet pressures are 420bar(6000psi) or 100bar(1450psi) and outlet pressures are 10bar(145psi) ~ 350bar(5000psi)
- Panel mounting and wall mounting bracket available as option
- Design proof pressure: 150% of maximum rated

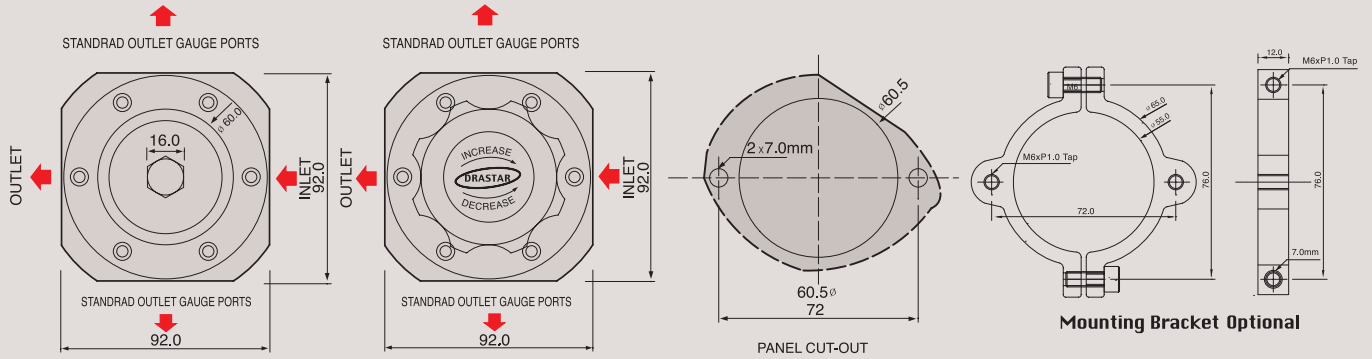
REFERENCE

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.

INSTALLATION DIMENSIONS



■ **BOLT CONTROL TYPE** ■ **KNOB CONTROL TYPE** ■ **MOUNTING BRACKET**



※ 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

DR70 2 - S P - 010 - NP 3 - V - H1

BASIS SERIES NUMBER	CONTROL TYPE	BODY MATERIAL INLET PRESSURE	VALVE SEAT	CONTROLLED PRESSURE RANGE	INLET OUTLET PORTS TYPE	INLET OUTLET PORTS SIZE	SELF VENTING	HIGH TEMPE- RATURE
DR70	1=BOLT TYPE	S = STS 316L 3000psi	P = Teflon V = Vespel	010 = 10bar 025 = 25bar 050 = 50bar 070 = 70bar 150 = 150bar 250 = 250bar 350 = 350bar	NP = NPT BS = BSP	1 = 1/2"	V = Self-Venting	H1 = +120°C H2 = +250°C H3 = +350°C
	2=KNOB TYPE	B = Brass 1500psi SH = STS 316L 6000psi ONLY STS 316L	SH model Vespel Standard			2 = 3/4" 3 = 1"	Optional	Optional

SPECIFICATIONS

Ports	DR70x-SP-010 -NP2 3/4" NPT DR70x-SP-010 -BS2 3/4" BSP DR70x-SP-010 -NP3 1" NPT DR70x-SP-010 -BS3 1" BSP
Leak Rate Certification	to 2x10 ⁻⁸ atm cc/sec Helium available.
Body Materials	DR70x-BP-010 -NP2 Brass DR70x-SP-010 -NP2 Stainless steel 316L
Bonnet Material	Nickel Plated Brass / Stainless steel 316L(Optional)
Main Valve	Stainless steel 316L
Valve Spring	Stainless steel 316L(Optional)
Valve Seat	DR70x-SV-010 -NP2 VESPEL DR70x-SP-010 -NP2 TEFLON
Outlet Pressure Ranges	10bar(145psig), 25bar(362psig) 50bar(725psig), 70bar(1015psig)
Operating Temperature	-30°C ~ +60°C VITON / -40°C ~ +70°C TEFLON (standard)
Flow Capacity	Cv= 3.5 (Standard)