



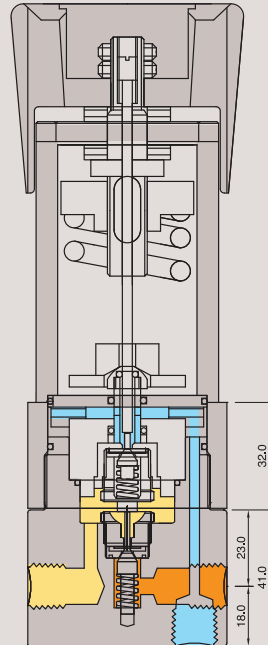
085 S E R I E S



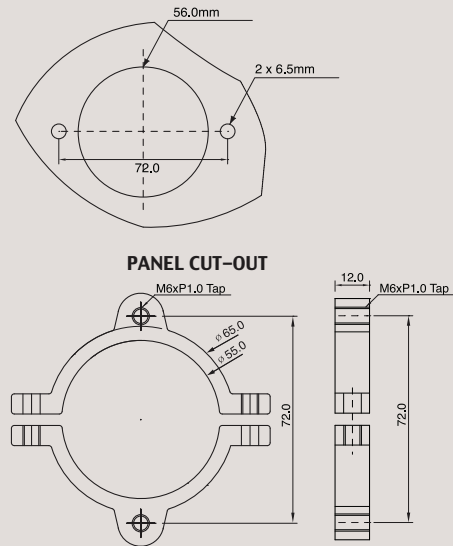
Hydraulic and Gas High Pressure Regulators



FUNCTIONAL SCHEMATIC



INSTALLATION DIMENSIONS



Mounting Bracket Option

085 Pressure Reducing Regulators (1/4", 3/8", 1/2")

085시리즈는 가스는 물론 특히 Hydraulic(유압), 오일, 물 등 Liquid사용 환경에서도 최적으로 사용할 수 있도록 제작된 Pressure Reducing Regulator입니다. 당사가 독자 개발한 Piston-Diaphragm 방식을 채택하여 사용수명은 늘리고 본체와 내부의 모든 부품이 Stainless Steel 316L로 구성되어 Hydraulic, 오일, 물 등 유체와 고압가스, 고순도 가스, 부식성 가스, 그리고 제약 및 실험실, 연구소 등에서 사용하는 각종 가스환경에서 더욱 안전하고 편리하게 사용할 수 있습니다.

- 최대 입구 압력은 700bar(10,000psi)이고 출구 압력은 5bar(70psi) 부터 최대 700bar(10,000psi)까지 사용 가능합니다.

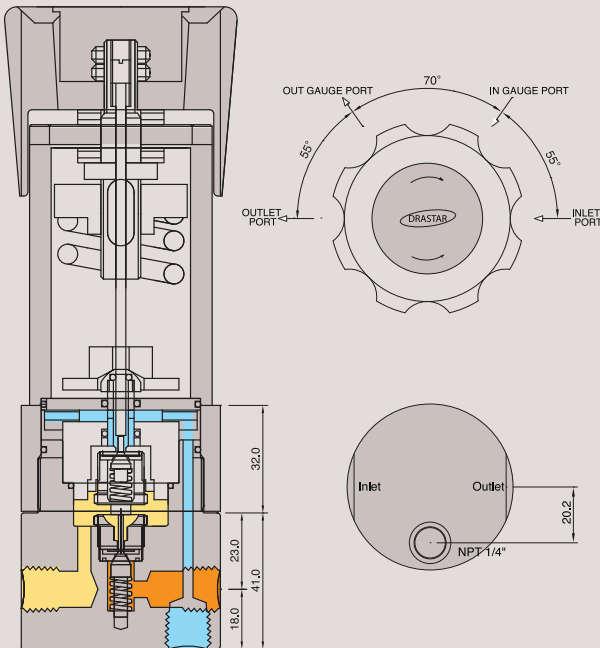
085 Series is a pressure reducing regulator designed to control in particular the liquids such as hydraulic, oil, water, etc. as well as various gases. 085 Series offers extended life span by adopting the piston diaphragm which Drastar developed. As body and all internal parts of the regulator are constructed of stainless steel 316L, this series also offers safe and easy operation not only with the liquids such as hydraulic, oil, water, etc. and but also high pressure, high purity, and corrosive gases and in the pharmaceutical, research institutes and laboratory applications.

- Maximum inlet pressure is 700bar(10,000psi) and outlet pressure ranges from 5bar (70psi) up to 700bar (10,000psi)
- All manufacturing processes such as cleaning, welding, assembly, testing, and packing of Drastar pressure regulators are performed in the class-100 and class-10 clean room.

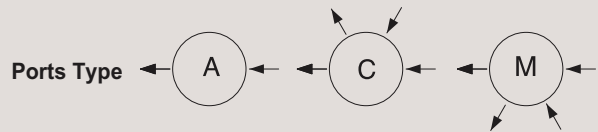
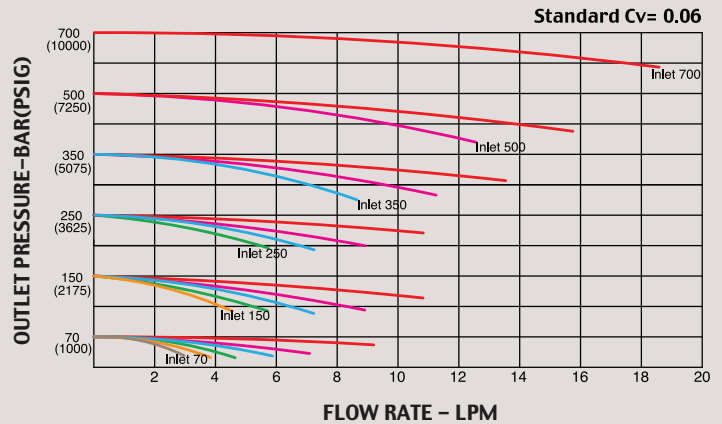
Specifications

Port Sizes	1/4", 3/8", 1/2" FNPT
Body	Stainless Steel 316L
Bonnet	AL6061
Diaphragm	Stainless Steel 316L
Main Valve	Stainless Steel 316L
Valve Spring	Stainless Steel 316L
Valve Seat	PCTFT or Vespel (Optional)
Maximum Inlet Pressure	700bar(10,000psig) or 420bar(6,000psi)
Outlet Pressure Range	70bar, 150bar, 250bar, 350bar, 500bar, 700bar
Design Proof Pressure	150% of maximum rated
Leakage	to 2x10 ⁻⁸ atm cc/sec Helium available.
Operating Temperature	- 40°C to +70°C (-40°F to +160°F) (Standard) H1 model: up to +120°C (Optional) H2 model: up to +250°C (Optional)
Flow Capacity	Cv=0.06 / Main Valve Cv=0.2 / Venting Valve
Other Options	CGA, Inlet and Outlet Gauges, etc.

INSTALLATION DIMENSIONS



FLOW CHART



※ [DRASTER Regulators are Oil-free]

DRASTER's all pressure regulators are assembled, cleaned, inspected, and packed in clean-rooms 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.

드라스타의 모든 레귤레이터는 클린벤치, 헬륨디텍터, 파티클카운터, 초음파 세척기, 초 순수 시스템, 진공 포장기 등을 갖춘 클린룸(Clean Room)에서 CGA 4.1 및 ASTM G-93에 명시된 절차와 규정에 따라 조립, 세척, 검사 및 포장이 이루어지며 그리스 또는 오일 등 유분이 완전히 세정된 제품입니다.

※ **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.

※ **주의 :** 크린라인이 아닌 일반 라인에 사용 할 경우 반드시 필터링(gas $7\mu\text{m} \sim 15\mu\text{m}$, water $15\mu\text{m} \sim 80\mu\text{m}$)을 하여야 하며, 그렇지 않을 경우 바로 고장의 원인이 됩니다. 모든 제품은 필터링하여 사용하면 A/S 비용 절감과 제품의 수명연장에 많은 도움이 됩니다.

ORDERING INFORMATION

085 - B S - 070 A - 1 S - V - H1

BASIS SERIES	MAX. INLET PRESSURE	BODY MATERIAL	OUTLET PRESSURE RANGE	PORTS TYPE FNPT	IN AND OUTPORTS SIZE	FLOW CAPACITY	SELF VENTING	HIGH TEMPERATURE
085 Series	A = 420bar (6,000psi) B = 700bar (10,000psi)	S = STS 316L	070 = 1-70bar(1-1000psi) 150 = 5-150bar(10-2175psi) 250 = 10-250bar(30-3600psi) 350 = 20-350bar(50-5000psi) 500 = 30-500bar(100-7200psi) 700 = 30-700bar(100-10000psi)	A = 2 Ports C = 4 Ports M = 4 Ports	1 = 1/4" 8 = 3/8" 2 = 1/2"	S = 0.06 Standard O = 0.2 Optional	V = Self-Venting Standard	H1 = +120° C H2 = +250° C H3 = +320° C

085

SERIES

