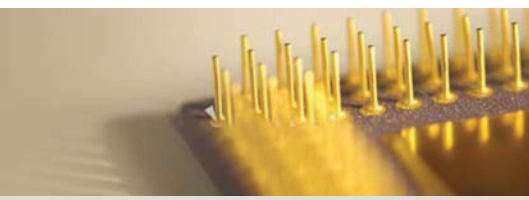
DR80 SERIES

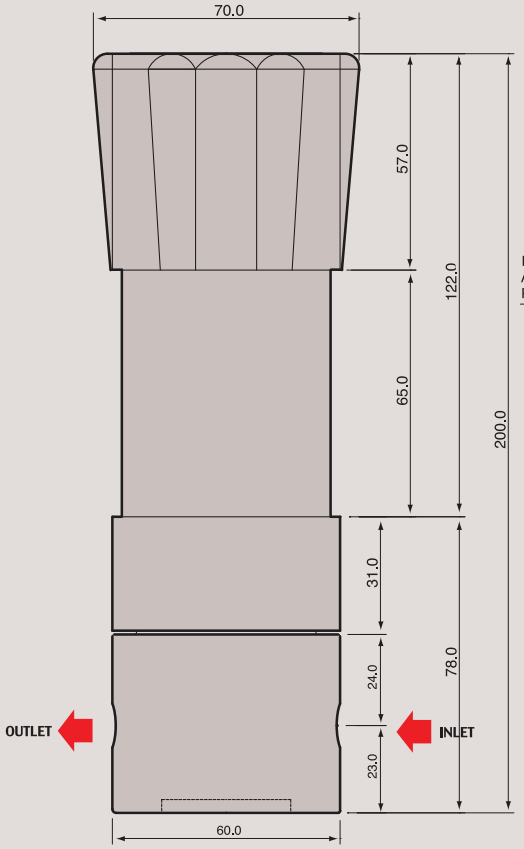
High Pressure Reducing Regulators

DR80
SERIES

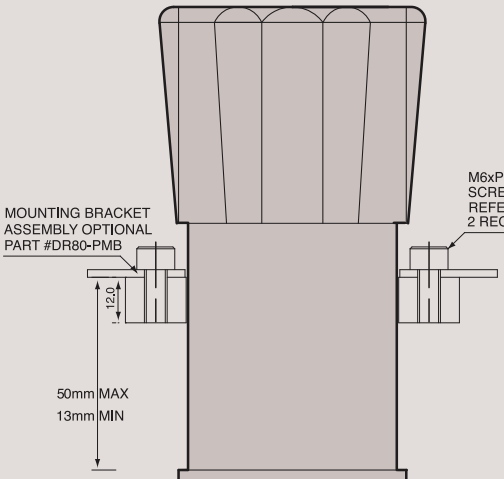
This catalogue is revised and/or updated as of Jan. 2020 and supersedes any old ones.
이 카다록은 2020년 1월에 개정 또는 업데이트 되었으며 이전의 카다록을 대체합니다.

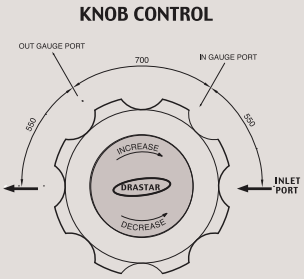


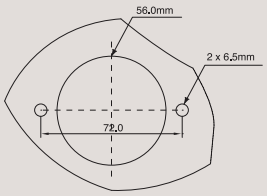
FUNCTIONAL SCHEMATIC



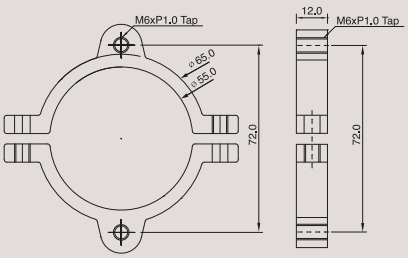
INSTALLATION DIMENSIONS





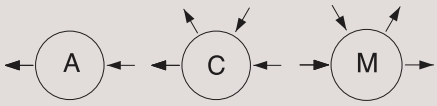


PANEL CUT-OUT



Mounting Bracket Option

Ports Type



High Pressure NPT 1/4″, 1/2″

DR80 시리즈는 드라스타가 독자 개발한 Piston Diaphragm 방식을 적용하여 초 고압의 가스 및 액체에서도 더욱 안전하게 사용할 수 있도록 개발된 제품입니다.

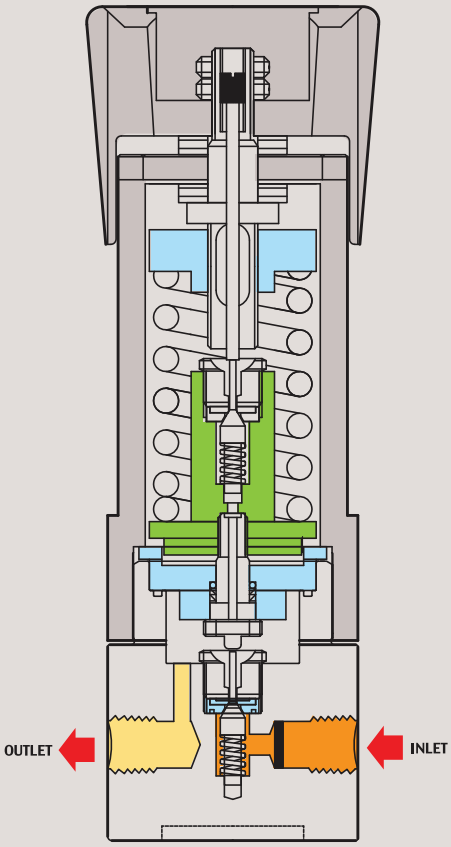
- 본체와 내부의 모든 부품은 Stainless Steel 316L로 제작하여 부식성 가스 또는 액체 등에서 안심하고 사용할 수 있습니다.
- 입구압력은 420bar (6000psi)에서 최대 700bar(10000psi) 사용 가능하고 출구 압력은 10bar(145psi) ~ 최대 700bar(10000psi)까지 사용 가능하도록 설계된 초 고압용 레귤레이터입니다.
- 배관 사이즈는 1/4″, 1/2″ NPT type이 가능합니다.

DR80 Series is a NPT type ultra-high pressure reducing regulator. With the “piston diaphragm “, which Drastar specially developed, DR80 Series is suitable to regulate ultra-high pressure gases and liquids up to max. 700 bar (10000 psig) more safely. As body and all internal parts are made of stainless steel 316L material, it is suitable for corrosive gases and liquids as well.

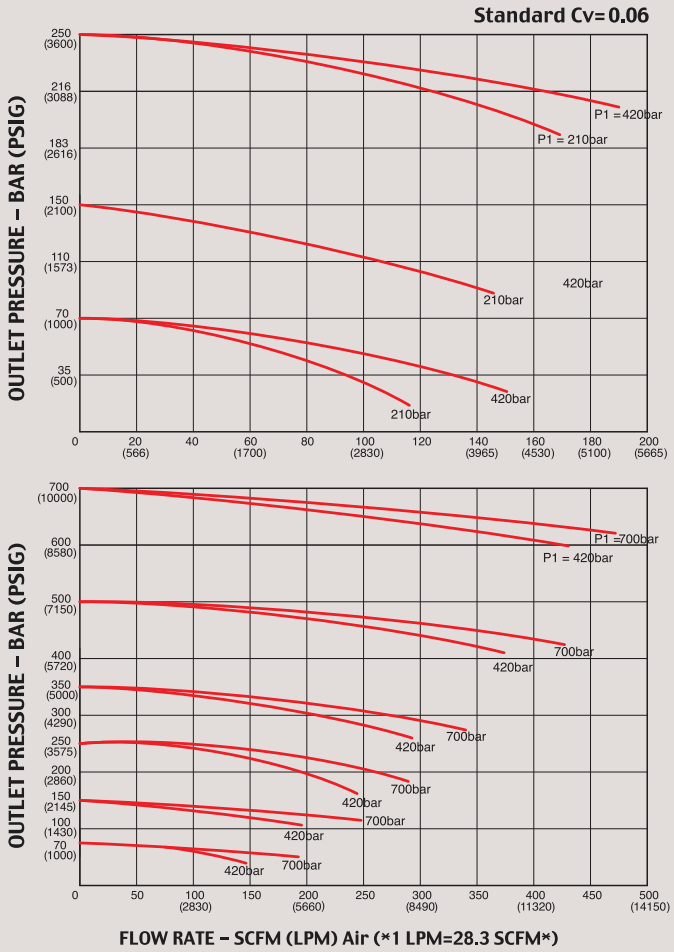
Features & Applications

- 1/4″ & 1/2″ NPT type
- Suitable for the high pressure labs, industrial control
- Inlet pressures are 700bar(10000psig) or 420bar(6000psig) and outlet pressures are 70bar(1000psig) ~ 700bar(10000psig)
- Panel mounting bracket available as option
- Design proof pressure: 150% of maximum rated

FUNCTIONAL SCHEMATIC



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㎛ ~ 15㎛, water 15㎛ ~ 80㎛) 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.

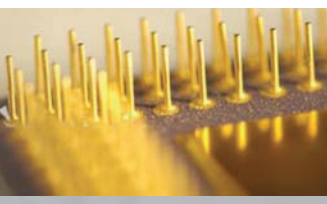
※ 주의 : 크린라인이 아닌 일반 라인에 사용 할 경우 반드시 필터링(gas 7㎛~15㎛, water 15㎛~80㎛)을 하여야 하며, 그렇지 않을 경우 바로 고장의 원인이 됩니다. 모든 제품은 필터링하여 사용하면 A/S 비용 절감과 제품의 수명연장에 많은 도움이 됩니다.

ORDERING INFORMATION

DR80 – B S – 070 A – 1 S – V – H1

BASIS SERIES	INLET PRESSURE	BODY MATERIAL	CONTROLLED PRESS. RANGES	PORT TYPE NPTF	IN & OUT PORTS SIZE	FLOW CAPACITY	SELF VENTING	HIGH TEMPE RATURE
DR80	A-420bar(6,000psig) B-700bar(10,000psig)	S-STS 316L	070 - 70bar (1,000psig) 150 - 150bar (2,100psig) 250 - 250bar (3,600psig) 350 - 350bar (5,000psig) 500 - 500bar (7,200psig) 700 - 700bar(10,000psig)	A = 2Ports C = 4Ports M = 4Ports	1 = 1/4″ 2 = 1/2″	S = 0.06 O = 0.2 Optional	V = Self-Venting Optional	H1 = +120° C H2 = +250° C H3 = +320° C Optional

DR80
SERIES



Specifications

In/Outlet Port Size	1/4″ FNPT / 1/2″ FNPT / Gauge port: 1/4″ NPT
Body	Stainless Steel 316L
Bonnet	Aluminum #2024
Diaphragm	Stainless Steel 316L
Main Valve	Stainless Steel 316L
Valve Spring	Stainless Steel 316L
Valve Seat	Vespel (standard)
Maximum Inlet Pressure	A = 420bar (6,000psig) / B = 700bar (10,000psig)
Outlet Pressure Range	70bar(1000psig), 150bar (2,100psig), 250bar (3,600psig), 350bar(5,000psig), 500bar(7,200psig), 700bar(10,000psig)
Design Proof Pressure	150% of maximum rated
Leakage	to $2x10^{-6}$atmcc/secHeliumavailable
Operating Temperature	-40°C to +70°C(-40°F to +160°F) (Standard)
	H1 option: up to +120°C (Optional) H2 option: up to +250°C (Optional)
Flow Capacity	Cv = 0.06 (Standard), Cv = 0.2 (Optional)
Other Options	CGA, Pressure Gauges, etc.
Weight	Approx. 2.4kgs