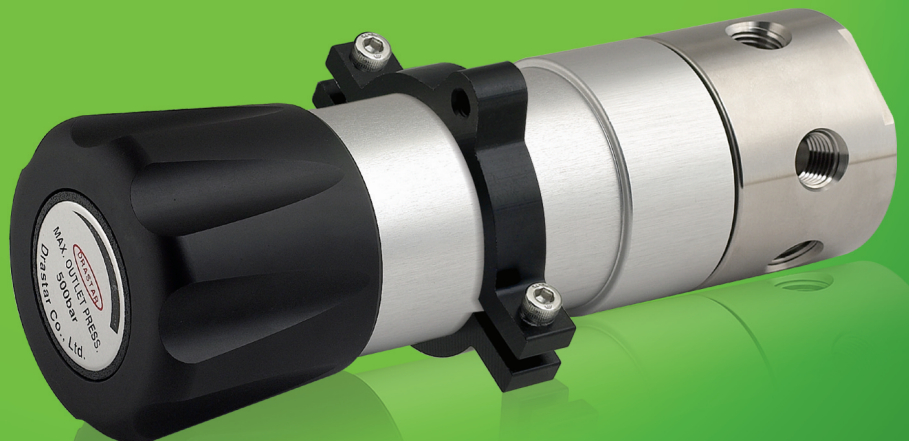


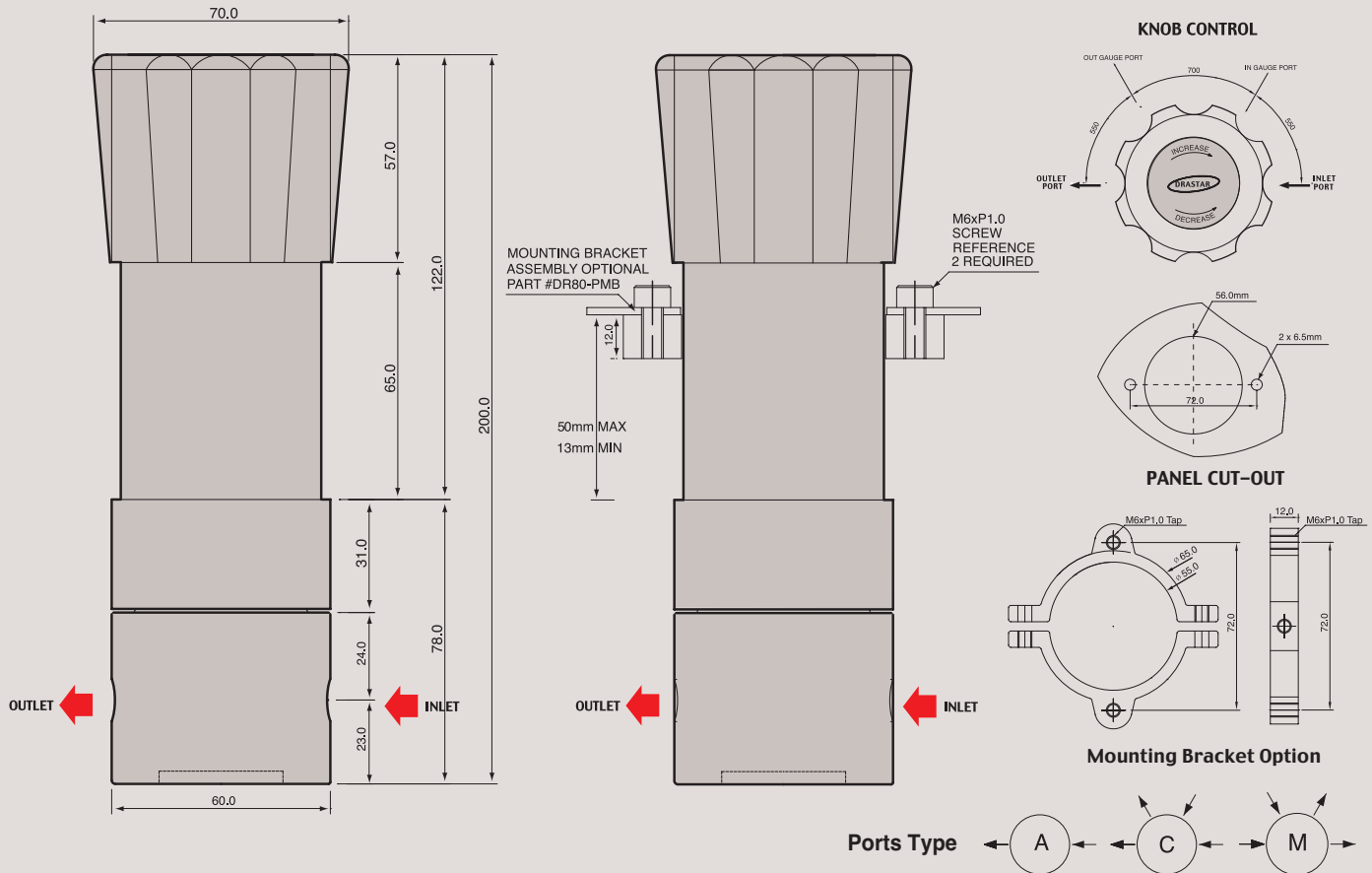


DR80 S E R I E S

High Pressure Reducing Regulators



INSTALLATION DIMENSIONS



DR80 High Pressure, Single-Stage NPT type 1/4", 1/2"

드라스타가 독자 개발한 피스톤 다이아후렘 타입으로 초 고압의 가스 및 액체에 적합

- 316L Stainless Steel Body
- 본체와 부품이 316L SS 구성되어 부식성 가스 및 액체 등에서도 안심하고 사용 가능.
- 입구압력과 조절압력을 최대 700bar(10,150psi)까지 사용 가능한 초 고압용 제품임.
- 전 부품은 CGA4.1 and ASTM G93 규정에 따라 세척하여 O₂ 사용 가능한 Oil free 제품임.
- 클린라인 외의 경우 고장방지 및 수명 연장을 위해 별도의 필터사용 필수 권장.(gas 7 μ m~15 μ m, water 15 μ m~80 μ m)

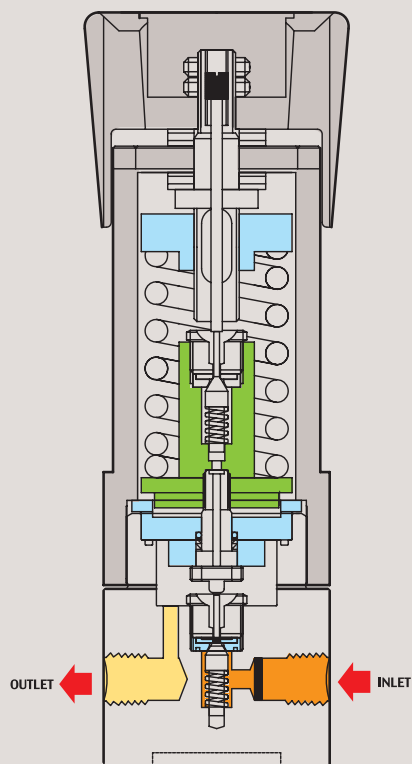
Specifications

Inlet & Outlet Ports	1/4"NPTF, 1/2"NPTF / Gauge port: 1/4" NPTF
Body	316L Stainless Steel
Bonnet	Aluminum #2024
Diaphragm	316L Stainless Steel
Main Valve	316L Stainless Steel
Valve Spring	316L Stainless Steel (standard) / Hastelloy C-22 (option)
Valve Seat	Vespel (standard) / PEEK (option)
Maximum Inlet Pressure	DR80-AS-xxxA-1 : 414bar (6,000psi) DR80-BS-xxxA-1 : 700bar (10,150psi)
Outlet Pressure/bar(psi)	70 (1,015), 150 (2,175), 250 (3,625), 350 (5,075), 500 (7,250), 700 (10,150)
Design Proof Pressure	150% of rated capacity
Leakage	Internal: Bubble-tight / External: $\leq 2 \times 10^{-8}$ atm cc/sec He
Operating Temperature	-40°C to +70°C (-40°F to +160°F) (Standard) H1 : up to +120°C (option) H2 : up to +250°C (option) H3 : up to +320°C (option)
Flow Capacity (Cv)	0.06 (standard) / 0.2 (option)
Other Options	Pressure gauge, CGA, Wall Mounting Bracket
Net Weight (excl. gauge)	Approximately 2.4kgs

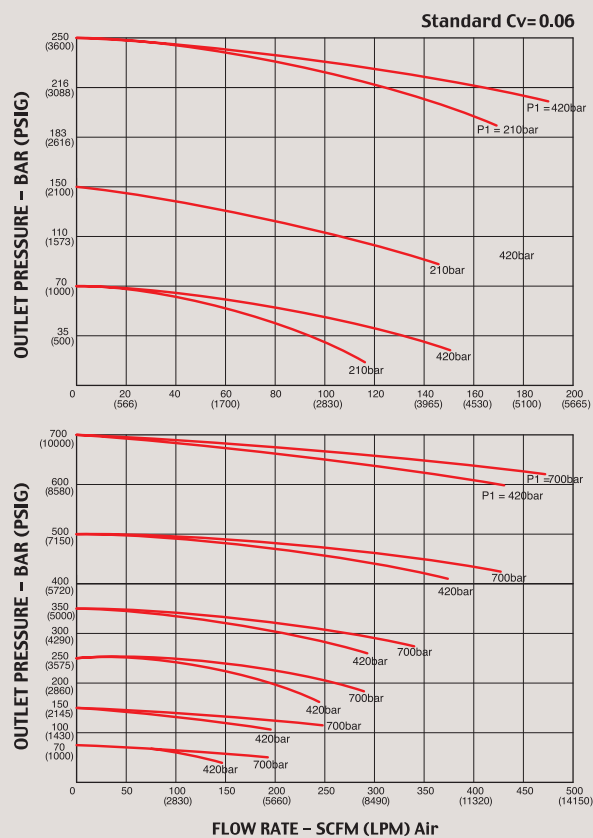


REFERENCE
Contents in the catalogue including specifications, performance data, etc. can be changed without prior notice in the course of continuous upgrading and improvement of the products.
사양서와 성능데이터 등 카다록에 있는 내용은 당사 제품의 지속적인 업그레이드 및 개선의 과정에서 사전 예고 없이 변경될 수 있습니다.

FUNCTIONAL SCHEMATIC



FLOW CHART



DR80 High Pressure, Single-Stage NPT type 1/4", 1/2"

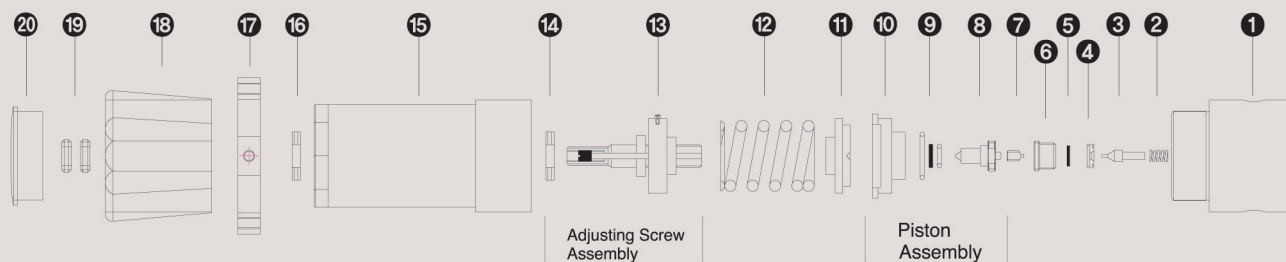
- Construction of 316L Stainless Steel Body & Piston Diaphragm
- Suitable for ultra high-pressure applications up to 700bar(10,150psi) for corrosive gases and liquids as well as general gas line
- Cleaning : CGA 4.1. and ASTM G-93 for O² service / Oil-free
- Except for high purity gas lines, separate filtering is MUST (gas 7_{μm}~15_{μm} water 15_{μm}~80_{μm}) for long life and failure prevention

Ordering Information

DR80 - A S - 070 A - 1S - H1							
Basic Series	Inlet Pressure	Body Material	Outlet Pressure Range(bar/psi)	Port Type	Inlet & Outlet Ports Size & Cv	Self-venting	High Temperature
DR80 1/4"NPTF 1/2"NPTF	A= 414bar (6,000psi) B= 700bar (10,150psi)	S = 316L SS	070 = 70/1,015 150 = 150/2,175 250 = 250/3,625 350 = 350/5,075 500 = 500/7,250 700 = 700/10,150	A = 2ports C = 4ports M = 4ports	1S=1/4" 0.06 2S=1/2" 0.06 Standard 1O=1/4" 0.2 2O=1/2" 0.2 Optional	-Non-venting V = Self-venting Optional	H1 = 120° C H2 = 250° C H3 = 320° C Optional

Note:1) Push and lock handle is NOT compatible with DR80 series / DR80 시리즈는 푸시 & 락 핸들 적용 불가.

DR80 SERIES PART LIST



Series Part List (Standard Model)

Item No	Part Name	Part No. & Description
01	Body	DR80-01-01: 316L SS
02	Valve Spring	DR80-02-01: 316L SS (standard) / 02-02: Hastelloy C-22 (option)
03	Main Valve	DR80-03-01: 316L SS (standard)
04	Seat Cartridge	DR80-04-01: 316L SS
05	Valve Seat	DR80-05-01: Vespel (standard) / 05-02: PEEK (option)
06	Locking Screw	DR80-06-01: 316L SS
07	Main Valve Guide Pin	DR80-07-01: 316L SS
08	Piston	DR80-08-01: 70bar~250bar / 08-02: 350bar~700bar *316L SS
09	Piston O-ring Assembly	DR80-09-01: 70bar~250bar / 09-02: 350bar~700bar *316L SS
10	Piston Diaphragm	DR80-10-01: common
11	Spring Plate	DR80-11-01: common
12	Load Spring	DR80-12-01: 70bar / 12-02: 150bar / 12-03: 250bar / 12-04: 350bar / 12-05: 500bar / 12-06: 700bar
13	Adjusting Screw Assembly	DR80-13-01: common
14	Thrust Needle Bearing	DR80-14-01: common #1226
15	Bonnet	DR80-15-01: AL2024
16	Thrust Needle Bearing	DR80-16-01: common #1226
17	Panel Mounting Bracket	DR80-17-01: Option
18	Control Knob	DR80-18-01: common
19	Locking Nut	DR80-19-01: common
20	Name Cap	DR80-20-01: 70bar / 20-02: 150bar / 20-03: 250bar / 20-04: 350bar / 20-05: 500bar / 20-06: 700bar

※ Parts for self-venting model and H1, H2, H3 options: please contact www.drastar.com
(self-venting 모델 및 고온용 모델은 별도 문의: www.drastar.com)