

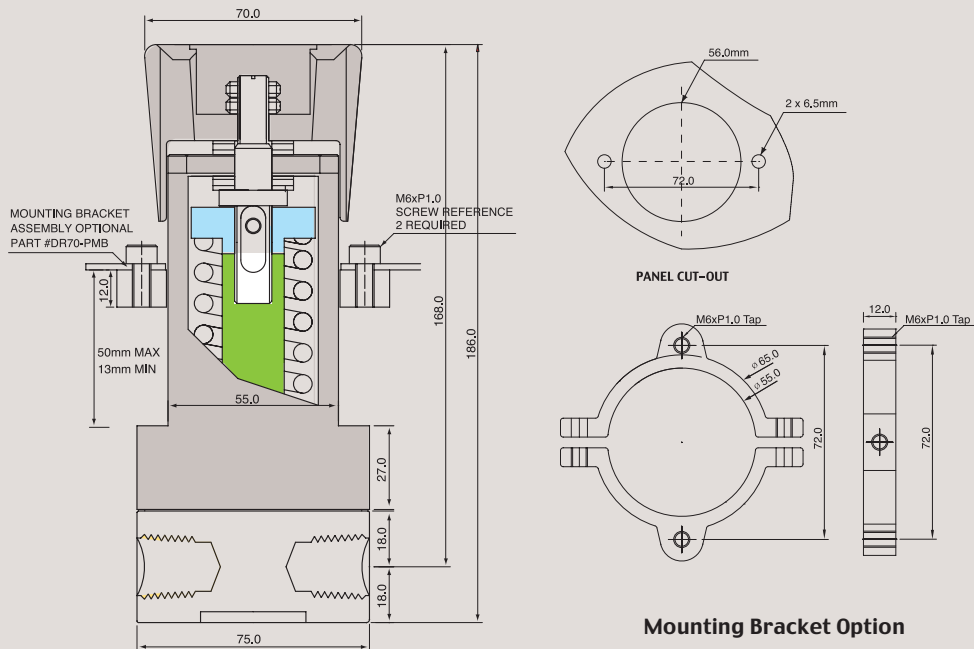


088 S E R I E S

Relief / Backpressure Reducing Regulators



INSTALLATION DIMENSIONS



088 Relief / Backpressure, High Pressure, Single-Stage NPT type 1/4", 1/2"

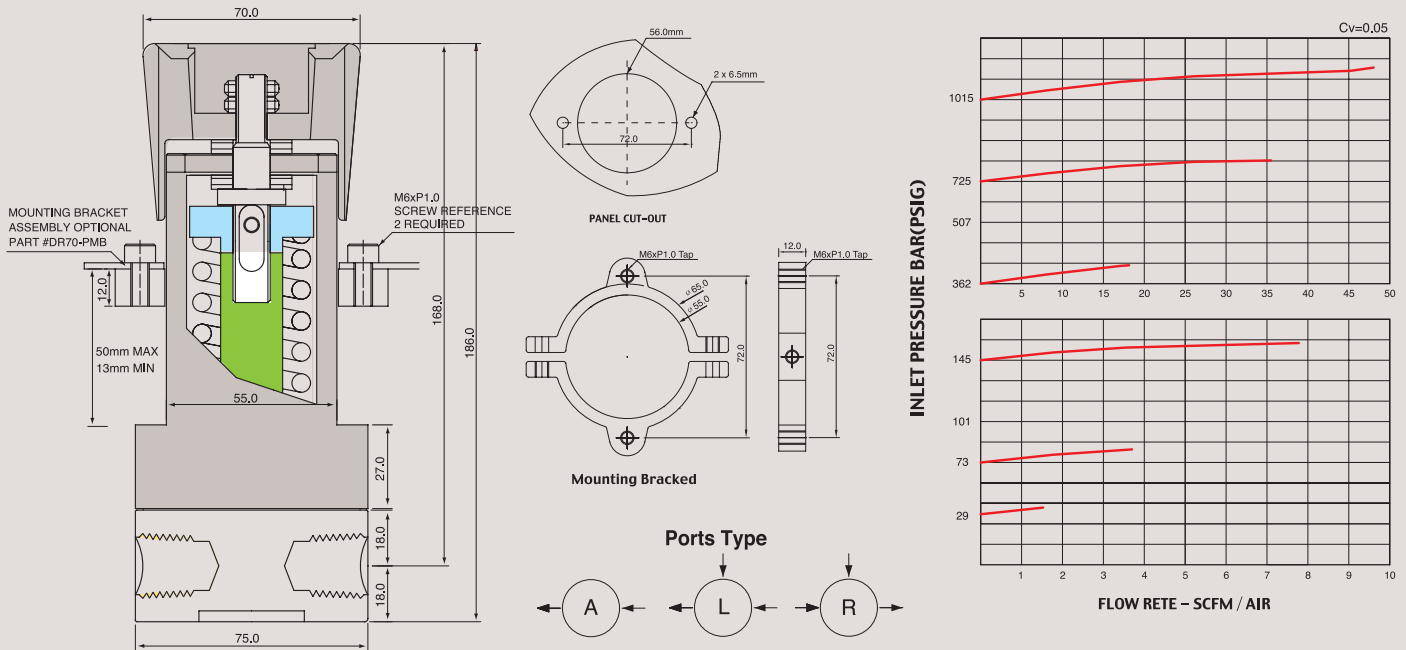
1/4", 1/2" NPT type의 고압용 Relief / Backpressure 레귤레이터

- 316L Stainless Steel Body
- 최대 700bar(10,000psi)까지 사용 가능한 고압용으로 일반 가스와 물, 액체, 케미칼 및 부식성 가스에도 사용 가능.
- 푸시&락 핸들(당사 특허) 장착으로 운전 중 셋팅 값 변동 방지 (General Information 참조).
- 전 부품은 CGA4.1 and ASTM G93 시스템 준수하여 0° 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 (standard)
Diaphragm	316L SS (standard)
Main Valve	316L SS (standard)
Valve Spring	316L SS (standard) / Hastelloy C-22 (option)
Valve Seat	Vespel (standard) / PCTFE, PEEK (option)
Maximum Inlet Pressure	not available
Outlet Pressure/bar(psi)	25 (363), 50 (725), 100 (1,450), 250 (3,625), 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)	0.05 (Standard) / 0.6 (Option)
Other Options	Pressure gauge, CGA, Wall Mounting Bracket
Net Weight (excl. gauge)	Approximately 2.6kgs

FLOW CHART



088 Relief / Backpressure, High Pressure, Single-Stage NPT type 1/4", 1/2"

- 316L Stainless Steel Body.
- Applicable for general gas line, water, liquid, chemical and corrosive gases for high pressure up to 700bar. (10,000psi)
- 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 μ m~15 μ m water 15 μ m~80 μ m) for long life and failure prevention.

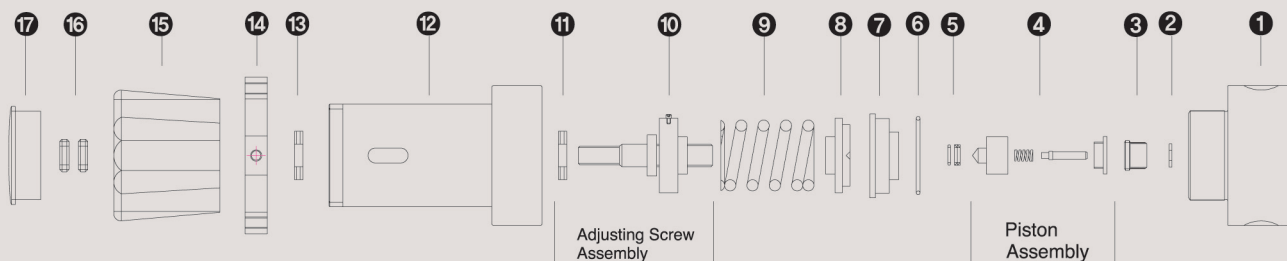
Ordering Information

088	S	-	025	L	-	1S	-	H1	
Basic Series	Body Material		Outlet Pressure Range(bar/psi)	Port Type	Flow Capacity Cv	Diaphragm Material	Inlet Pressure Psi(bar)	Self-venting	High Temperature
088 BPR-High 1/4" NPTF 1/2" NPTF	S=316L SS H=Hastelloy C-22		025 = 25/362 050 = 50/725 100 = 100/1450 250 = 250/2900 500 = 500/7250 700 = 700/10000	A = 2 ports L = 3 ports R = 3 ports	1S=1/4" 0.05 2S=1/2" 0.05 Standard 1O=1/4" 0.6 2O=1/2" 0.6 Optional	- 316L SS Standard H=Hastelloy C-22 Optional	-	-	H1 = 120° C H2 = 250° C H3 = 320° C Optional

* Strikethrough material: To be prepared /취소선 소재: 준비 중

※ Note : 1) Push and lock handle is NOT available / 푸시 & 락 핸들 미 적용.

088 SERIES PART LIST



Series Part List (Standard Model)

Item No	Part Name	Part No. & Description
01	Body	088-01-01: 316L SS
02	Valve Seat	088-02-01: PCTFE (standard) / 02-02: Teflon, Polyimide (option)
03	Locking Screw	088-03-01: 316L SS
04	Piston Assembly	088-04-01: 25bar, 50bar, 100bar / 04-02: 250bar, 500 bar, 700bar
05	Piston O-ring Assembly	088-05-01: 25bar, 50bar, 100bar / 05-02: 250bar, 500 bar, 700bar *O-ring+Back-up ring
06	Piston Diaphragm O-ring	088-06-01: common
07	Diaphragm Plate	088-07-01: common
08	Spring Plate	088-08-01: common
09	Load Spring	088-09-01: 25bar / 09-02: 50bar / 09-03: 100bar / 09-04: 250bar / 09-05: 500bar / 09-06: 700bar
10	Adjusting Screw Assembly	088-10-01: common
11	Thrust Needle Bearing	088-11-01: common #1226
12	Bonnet	088-12-01: AL2024 (standard) / 088-12-02: 316L SS, Brass (option)
13	Thrust Needle Bearing	088-13-01: common #1226
14	Panel Mounting Bracket	088-14-01: option
15	Control Knob	088-15-01: common
16	Locking Nut	088-16-01: common
17	Name Cap	088-17-01: 25bar / 17-02: 50bar / 17-03: 100bar / 17-04: 250bar / 17-05: 500bar / 17-06: 700bar

※ Parts for H1, H2, H3 options: please contact www.drastar.com
(고온용 모델은 별도 문의: www.drastar.com)