

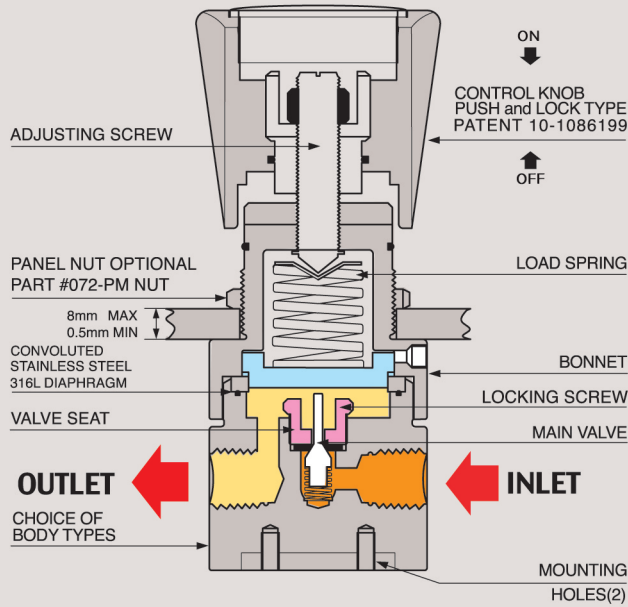


072 SERIES

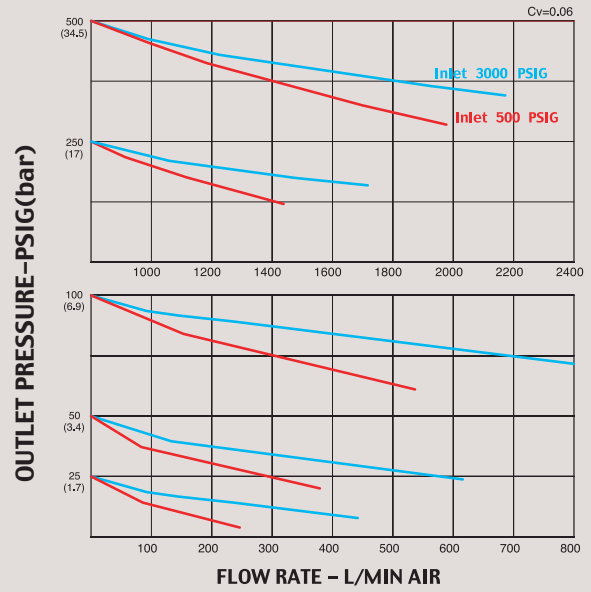
Single Stage Low Pressure Regulators



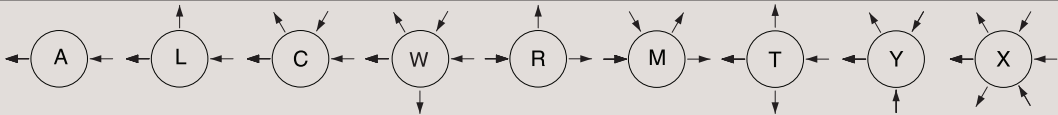
FUNCTIONAL SCHEMATIC



FLOW CHART



Ports Type



072 Low Pressure, Single-Stage NPT type 1/4"

가스 실린더 및 전반적인 가스 사용환경에서 가장 폭넓게 사용되는 1/4" NPT 타입 레귤레이터

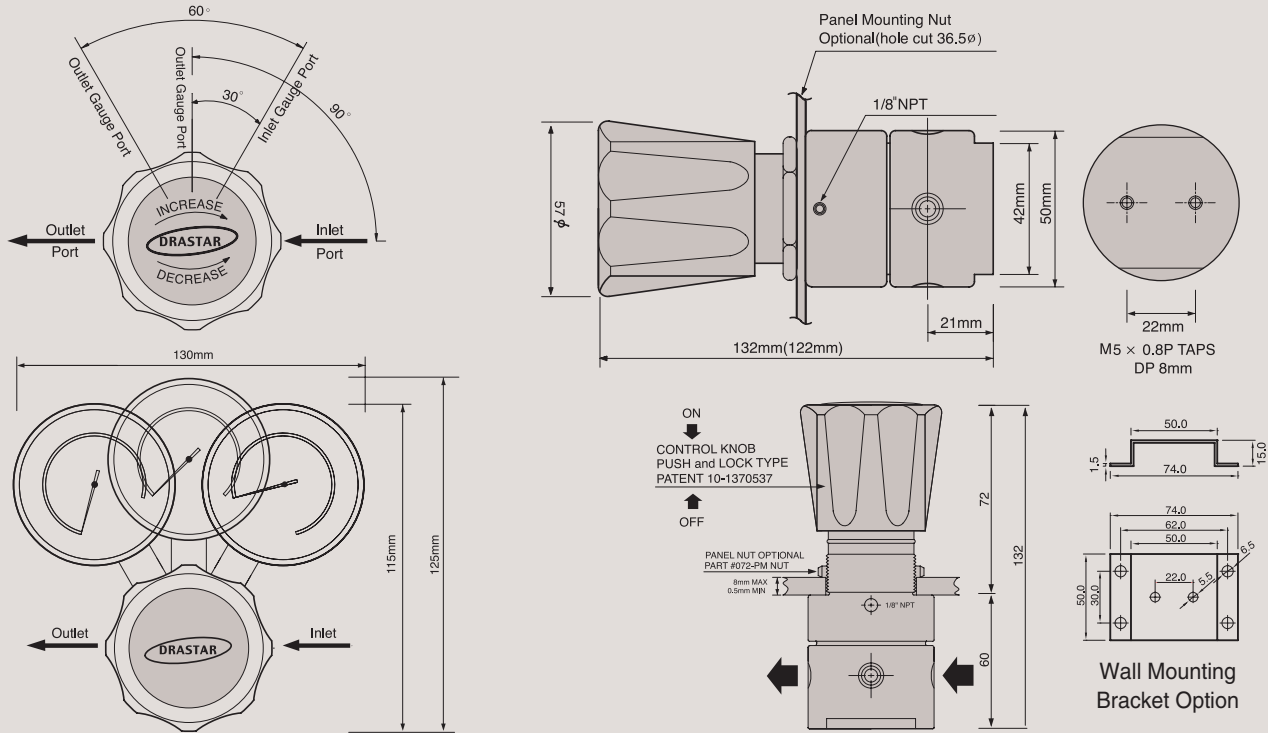
- 316L Stainless Steel or Nickel-plated Brass Body
- 가스실린더와 일반가스 라인, 실험실, 분석용 특수 가스, 고순도 가스, 미식용 가스 및 부식성 가스 (072S 모델)와 물, 액체 (W072 모델) 등에 폭넓게 사용 가능.
- 푸시 & 락 핸들(당사 특허) 장착으로 운전 중 셋팅 값 변동 방지 (General Information 참조).
- 전 부품은 CGA4.1 and ASTM G93 절차에 따라 세척하여 O₂ 사용 가능한 Oil free 제품임.
- 클린라인 외의 경우 고장방지 및 수명 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 / Gauge Port : 1/4" NPTF
Body	072S-0000-1S: 316L Stainless Steel 072B-0000-1S: Nickel-plated brass
Bonnet	Brass (standard) / Stainless Steel (option)
Diaphragm	316L SS (standard) / Hastelloy C-22 (option)
Main Valve	316L SS (standard)
Valve Spring	316L Stainless Steel (standard) / Hastelloy C-22 (option)
Valve Seat	Teflon (standard) / Vespel, PEEK (option)
Maximum Inlet Pressure	072x-0000-1S : 3,000psi (207bar) 072x-0000-1S-5 : 600psi (41.4bar)
Outlet Pressure/psi (bar)	25 (1.7), 50 (3.4), 100 (6.9), 250 (17.2), 500 (34.5)
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, Panel Mounting Nut, Wall Mounting Bracket
Net Weight (excl. gauge)	Approximately 1.2kgs

INSTALLATION DIMENSIONS METRIC EQUIVALENTS ARE IN PARENTHESES

■ GAUGE PORT OPTIONS



072 Low Pressure, Single-Stage NPT type 1/4"

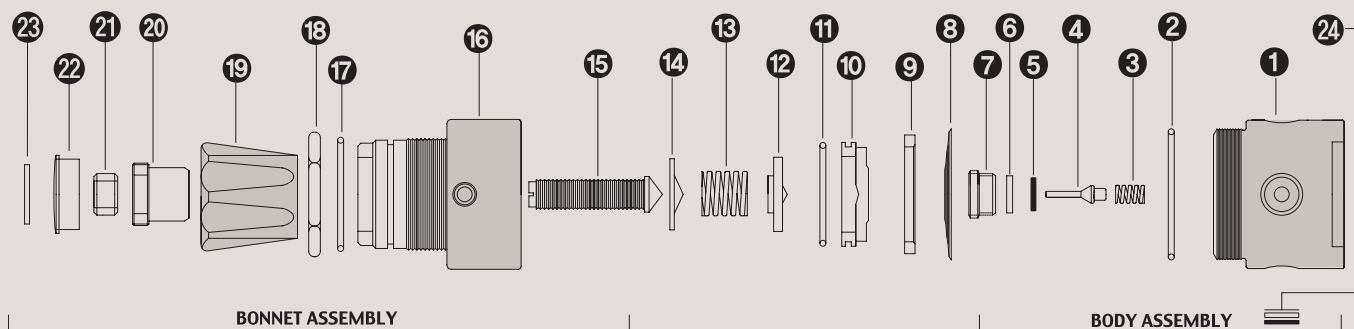
- 316L Stainless Steel or Nickel-plated Brass Body.
- Widely applicable for gas cylinder, general industrial gas line, laboratory, analyzers, mixing gas, water/liquid (072W model), and corrosive gases (072S model).
- Push & Lock Handle (Drastar patented) prevents the possible change of preset pressure (refer to general information).
- Cleaning : CGA 4.1. and ASTM G-93 for O₂ service / Oil-free.
- Convuluted diaphragm for excellent accuracy and long service life.
- Metal-to-metal diaphragm to body seal.
- 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

(W)072	S	- 0025	L	- 1S	H	- 5	V	- H1
Basic Series	Body Material	Outlet Pressure Range(psi/bar)	Port Type	Flow Capacity Cv	Diaphragm Material	Inlet Pressure Psi(bar)	Self-venting	High Temperature
072 1/4"NPTF W072 for water/ liquid	S=316L SS B=Brass	0025 = 25/1.7 0050 = 50/3.4 0100 = 100/6.9 0250 = 250/17.2 0500 = 500/34.5	A = 2 ports L = 3 ports C = 4 ports W = 5 ports R = 3 ports M = 4 ports T = 4 ports Y = 4 ports X = 6 ports	1S : 0.06 Standard 1O : 0.2 Optional	- 316L SS Standard H=Hastelloy C-22 Optional	- 3,000psi (207) 5=600psi (41.3) Optional	- Non-venting Standard V=Self-venting Optional	H1 = 120° C H2 = 250° C H3 = 320° C Optional

※ Note : 1) (W)072 is for liquid and water/ W072 모델은 액체용 모델임.
2) Brass body is NOT compatible with H1, H2, H3 options / 브라스 제품은 H1, H2, H3 불가.
3) Push and lock handle is NOT compatible with aluminum control knob (H1, H2, & H3 options) / 푸시 & 락 핸들은 알루미늄손잡이에 적용 불가.

072 SERIES PART LIST



Series Part List (Standard Model)

Item No	Part Name	Part No. & Descriptions
01	Body	072-01-01: 316L SS / 01-02: Nickel-plated Brass
02	Body Gasket	072-02-01: (only for brass model, SS model n/a)
03	Valve Spring	072-03-01: 316L SS (standard) / 03-02: Hastelloy C-22 (option)
04	Main Valve	072-04-01: 316L SS
05	Valve Seat	072-05-01: PFA (standard) / 05-02: Teflon (option) / 05-03: Vespel (option) / 05-04: PEEK (option)
06	Valve Seat Cartridge	072-06-01: 316L SS
07	Locking Screw	072-07-01: 316L SS
08	Diaphragm	072-08-01: 316L SS (standard) / 08-02: Hastelloy C-22 (option)
09	Diaphragm Plate	072-09-01: common
10	Back-up Plate	072-10-01: common
11	Back-up Plate O-ring	072-11-01: O-ring
12	Spring Plate	072-12-01: common
13	Load Spring	072-13-01: 25psi / 13-02: 50psi / 13-03: 100psi / 13-04: 250psi / 13-05: 500psi
14	Pivot	072-14-01: common
15	Adjusting Screw	072-15-01: common
16	Bonnet	072-16-01: Nickel-plated Brass (standard) / 16-02: 316L SS (option)
17	Push & Lock O-ring	072-17-01: common
18	Panel Mounting Nut	072-18-01: option
19	Control Knob	072-19-01: ABS (standard) / 19-02: Aluminum (option)
20	Push & Lock Handle Nut	072-20-01: common
21	Locking Nut	072-21-01: common
22	Name Cap	072-22-01: ABS
23	Name Cap Plate	072-23-01: 25psi / 23-02: 50psi / 23-03: 100psi / 23-04: 250psi / 23-05: 500psi
24	Mesh Filter	072-24-01: #180, 3-layers

※ Parts for W072 model, self-venting model and H1, H2, H3 options: please contact www.drastar.com
(W모델, self-venting 모델 및 고온용 모델은 별도 문의 www.drastar.com)