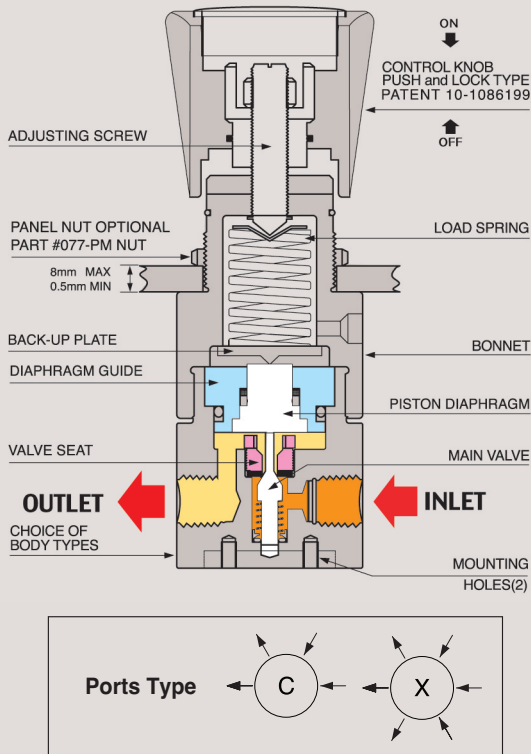


082 SERIES

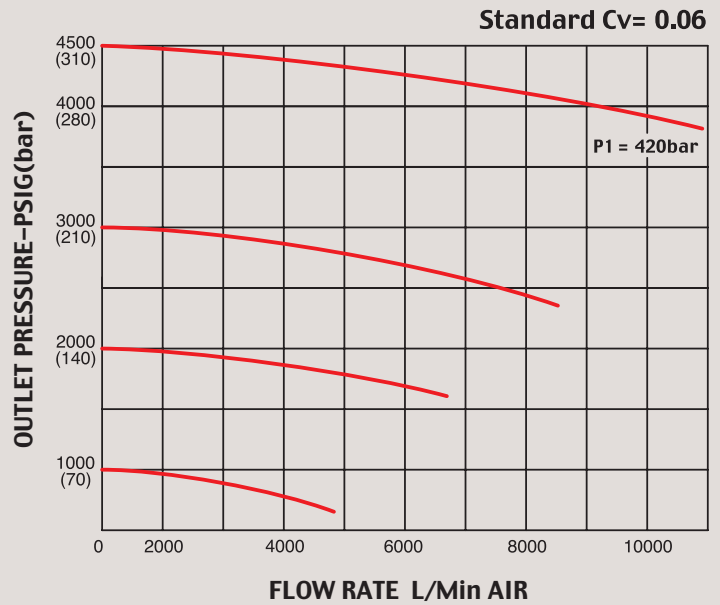
High Pressure Reducing Regulators



FUNCTIONAL SCHEMATIC



FLOW CHART



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

피스톤 다이어램 타입으로 안전성과 편리성을 강화한 고압가스 전용 레귤레이터

- 316L Stainless Steel or Nickel-plated Brass Body
- 피스톤 다이어램 타입으로 각종 고순도 가스, 제약 및 실험실, 연구소와 부식성 가스(082S 모델) 및 물, 액체 등의 고압조건에 적합함.
- 푸시 & 락 핸들(당사 특허) 장착으로 운전 중 셋팅 값 변동 방지 (General Information 참조).
- 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)

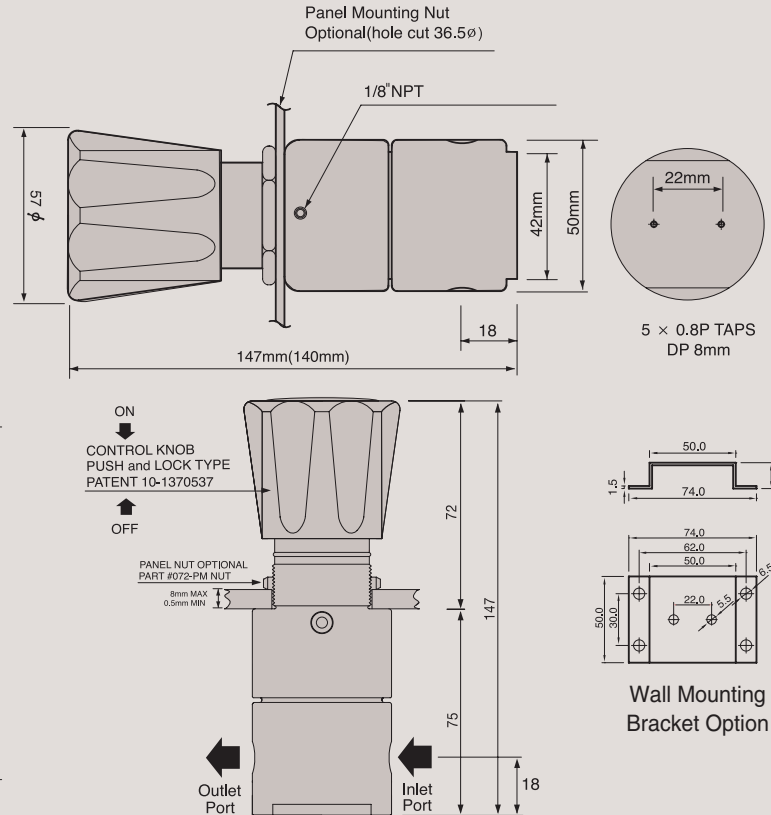
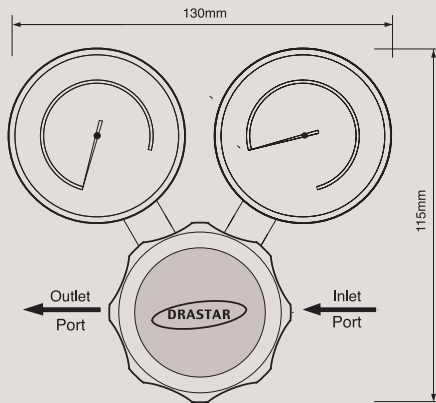
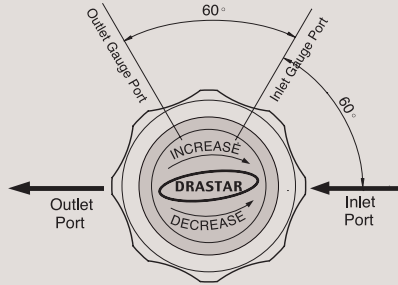
Specifications

Inlet & Outlet Ports	1/4" NPTF / Gauge Port : 1/4" NPTF
Body	082S-0000-1S: 316L Stainless Steel (316L SS) 082B-0000-1S: Nickel-plated brass (Brass)
Bonnet	Brass (standard) / Stainless Steel (option)
Diaphragm	316L SS
Main Valve	316L SS
Valve Spring	316L SS (standard) / Hastelloy C-22 (option)
Valve Seat	PCTFE (standard) / Vespel, PEEK (option)
Maximum Inlet Pressure	082x-0000-1S : 6,000psi (414bar)
Outlet Pressure/psi (bar)	650 (45), 1,000 (69), 2,000 (138), 3,000 (207), 4,500 (310)
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



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

- 316L Stainless Steel or Nickel-plated Brass Body.
- By adopting piston-type diaphragm, optimal for high pressure applications of high purity gases, medicine, laboratory, corrosive gases (082S model), and liquid with enhanced safety and convenience.
- 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.
- 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

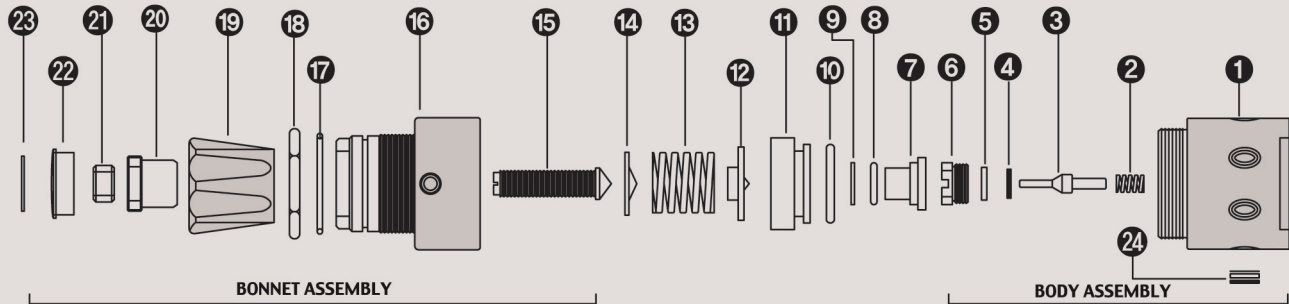
082 S - 0650 - 1S - V - H1								
Basic Series	Body Material	Outlet Pressure Range(psi/bar)	Port Type	Flow Capacity Cv	Diaphragm Material	Inlet Pressure Psi(bar)	Self-venting	High Temperature
082 1/4"NPTF	S=316L SS B=Brass	0650 = 650/45 1000 = 1,000/69 2000 = 2,000/138 3000 = 3,000/207 4500 = 4,500/310	- 4 ports X = 6 ports	1S : 0.06 Standard 1O : 0.2 Optional	- Piston type Standard	- 6,000psi (414)	- Non-venting Standard V=Self-venting Optional	H1 = 120° C H2 = 250° C H3 = 320° C Optional

※ Note: 1) Self-venting (V) is not compatible with 4,500psi/outlet. / 출구압력 4,500psi에는 셀프벤팅 적용 불가.

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.

082 SERIES PART LIST



Series Part List (Standard Model)

Item No	Part Name	Part No. & Descriptions
01	Body	082-01-01: 316L SS (standard) / 01-02: Nickel-plated brass (option)
02	Valve Spring	082-02-01: 316L SS (standard) / 02-02: Hastelloy C-22 (option) / 02-03: Inconel (option)
03	Main Valve	082-03-01: 316L SS (standard)
04	Valve Seat	082-04-01: PCTFE (standard) / 04-02: Vespel (option) / 04-03: Peek (option)
05	Valve Seat Cartridge	082-05-01: 316L SS
06	Locking Screw	082-06-01: 316L SS
07	Piston	082-07-01: 316L SS
08	Piston O-ring	082-08-01: Viton (standard) / 08-02: Super Viton (option) / 08-03: Perfluor (option)
09	Piston Back-up Ring	082-09-01: Teflon (standard) / 09-02: Peek (option)
10	Piston Diaphragm O-ring	082-10-01: Viton (standard) / 10-02: Super Viton (option) / 10-03: Perfluor (option)
11	Piston Diaphragm	082-11-01: 316L SS
12	Spring Plate	082-12-01: common
13	Load Spring	082-13-01: 650psi / 13-02: 1,000psi / 13-03: 2,000psi / 13-04: 3,000psi / 13-05: 4,500psi
14	Pivot	082-14-01: common
15	Adjusting Screw	082-15-01: common
16	Bonnet	082-16-01: Brass (standard) / 16-02: 316L SS (option)
17	Push & Lock O-ring	082-17-01: common
18	Panel Mount Nut	082-18-01: common (option)
19	Control Knob	082-19-01: ABS (standard) / 19-02: Aluminum (option)
20	Push & Lock Handle Nut	082-20-01: common
21	Locking Nut	082-21-01: common
22	Name Cap	082-22-01: ABS
23	Name Cap Plate	082-23-01: 650psi / 23-02: 1,000psi / 23-03: 2,000psi / 23-04: 3,000psi / 23-05: 4,500psi
24	Mesh Filter	082-24-01: #180, 3-layers

※ 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)