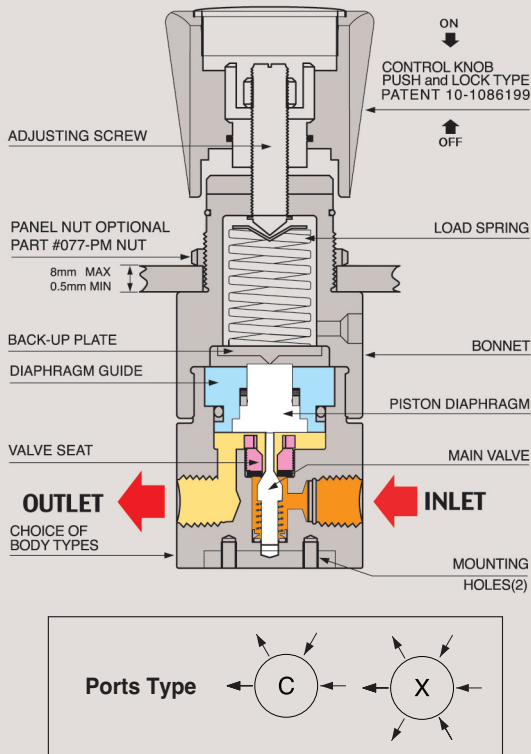


082 SERIES

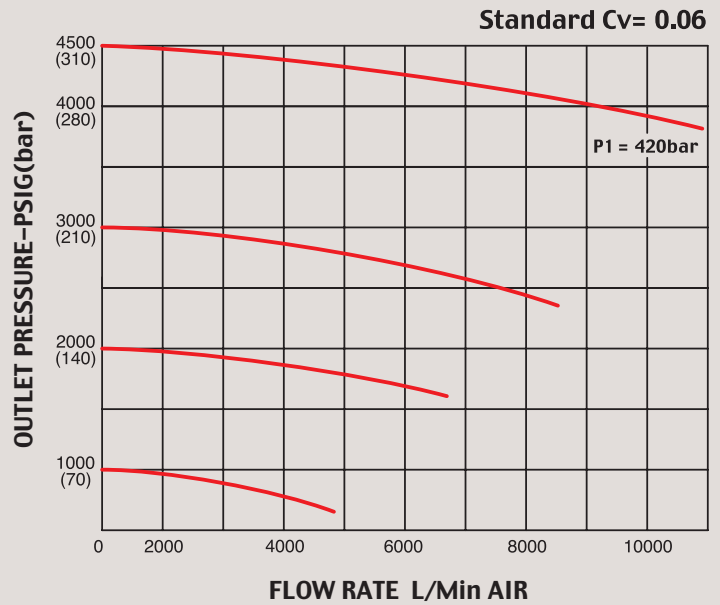
High Pressure Reducing Regulators



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)

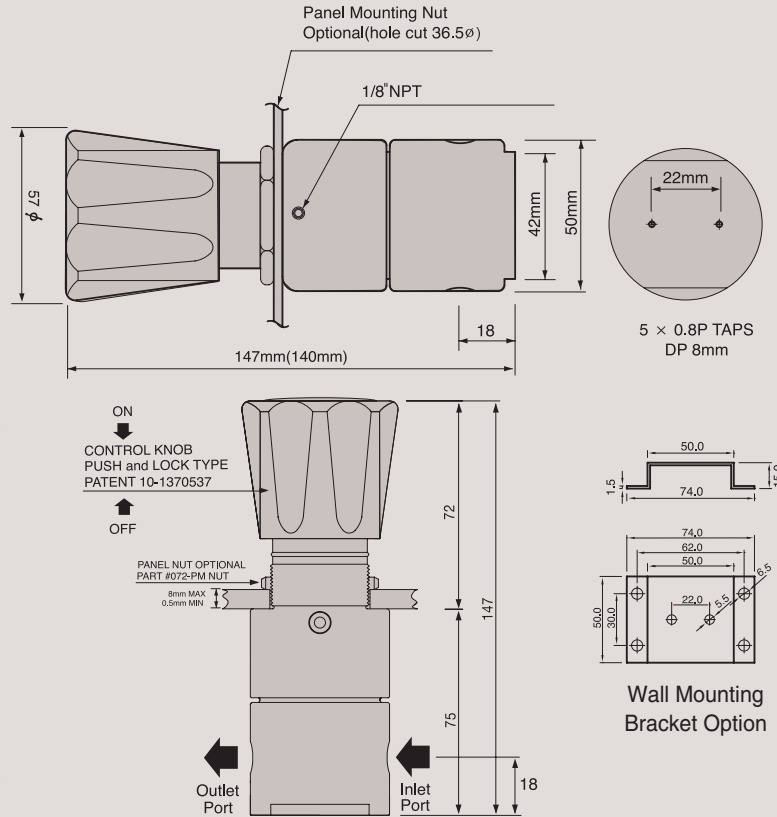
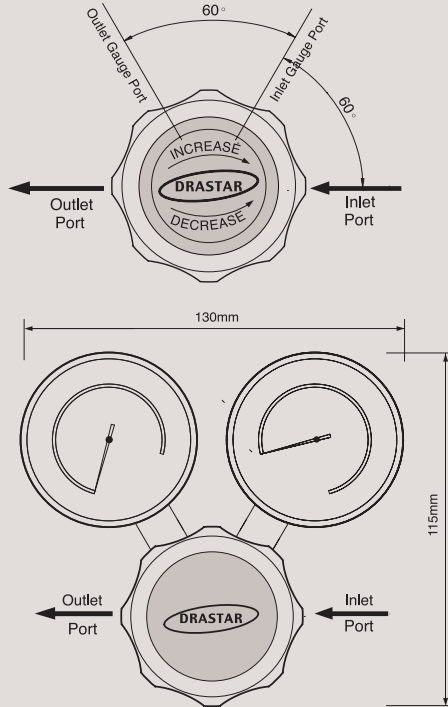
Specifications

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

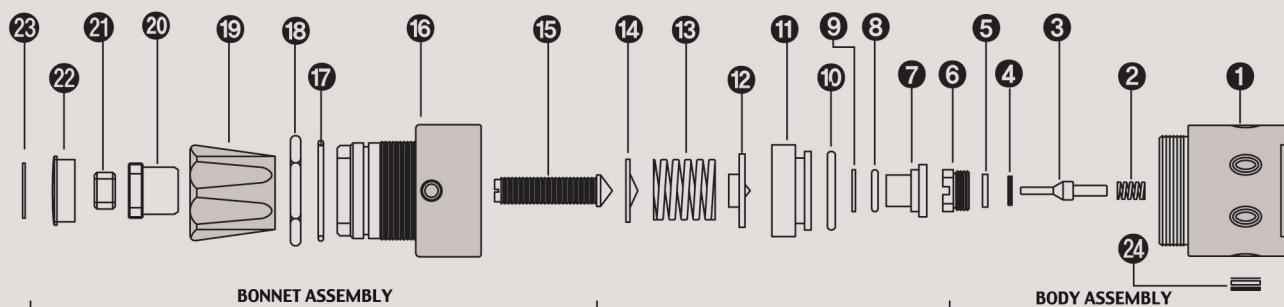
082	S	-	0650	-	1S	-	V	-	H1
Basic Series	Body Material	Outlet Pressure Range(psi/bar)	Port Type	Flow Capacity Cv	Diaphragm Material	Inlet Pressure Psi(bar)	Self-venting	High Temperature	
082 1/4"NPTF	S=316L SS B=Brass	0650 = 650/45 1000 = 1,000/69 2000 = 2,000/138 3000 = 3,000/207 4500 = 4,500/310	- 4 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)