



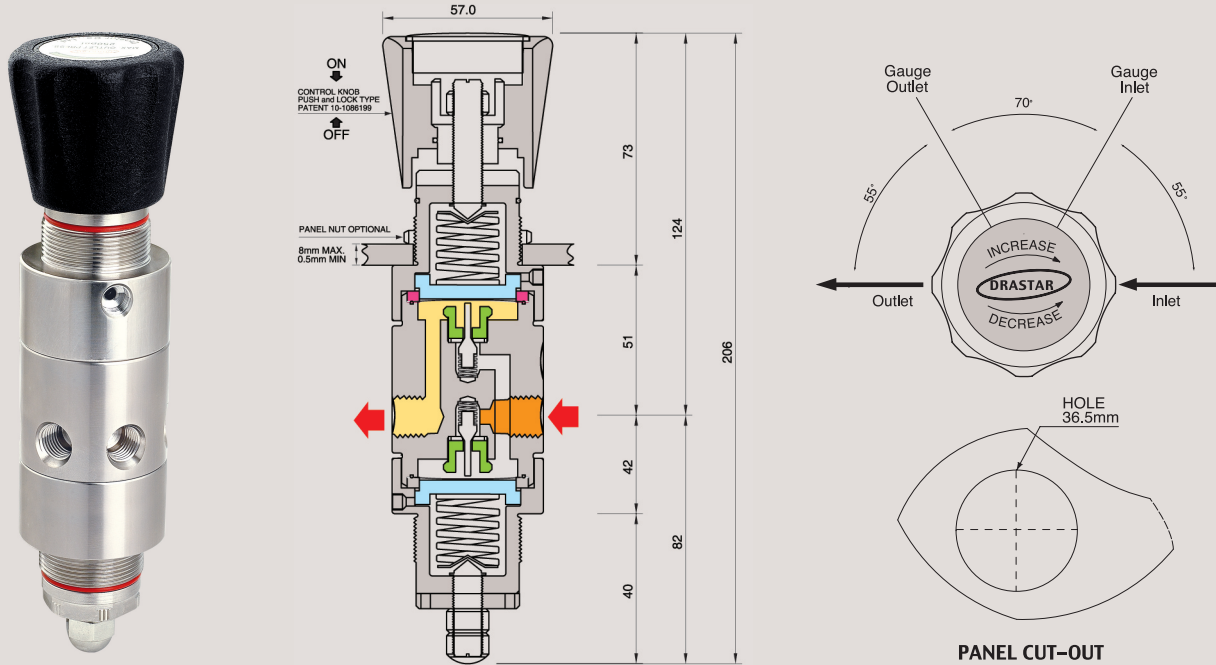
2000 S E R I E S



Dual-Stage Low Pressure Regulators



FUNCTIONAL SCHEMATIC



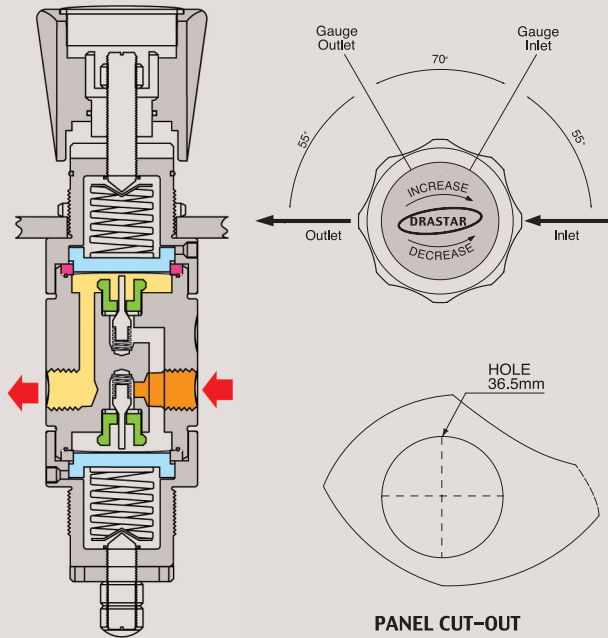
2000 Low Pressure, Dual-Stage NPT type 1/4"

고압가스 실린더를 저압에서 정밀하고 안정적으로 사용할 수 있는 Two Stage (2단 감압 타입) 제품

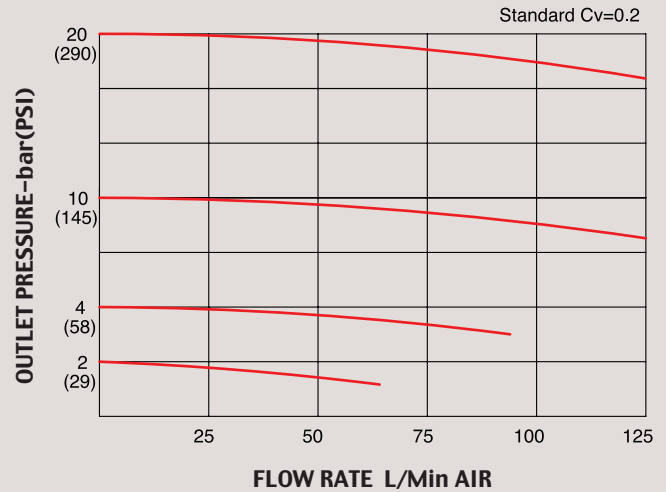
- 316L Stainless Steel or Nickel-plated Brass Body.
- 최대 250바의 입구 압력을 2bar~20bar까지 조절 시 정밀성과 안정성이 뛰어남.
- 푸시&락 핸들(당사 특허) 장착으로 운전 중 셋팅 값 변동 방지. (-) page ## 참조)
- 전 부품은 CGA4.1 and ASTM G93 절차에 따라 세척하여 O2 사용 가능한 Oil free 제품임.
- 클린라인 외의 경우 고장방지 및 수명 연장을 위해 별도의 필터사용 필수 권장. (gas 7 μ m~15 μ m, water 15 μ m~80 μ m)

Specifications

Inlet & Outlet Ports	1/4" NPTF / Gauge port: 1/4" NPTF
Body	316L Stainless Steel / Nickel-plated Brass
Bonnet	Brass (standard)
Diaphragm	316L SS (standard) / Hastelloy C-22 (option)
Main Valve	316L SS (standard)
Valve Spring	316L SS (standard) / Hastelloy C-22 (option)
Valve Seat	Teflon (standard) / PCTFE, Vespel, PEEK (option)
Maximum Inlet Pressure	250bar (3,625psi)
Outlet Pressure/bar (psi)	2(29), 5(72.5), 10 (145), 20(290)
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)	0.2 (standard)
Other Options	Pressure gauge, CGA, Panel Mounting Nut
Net Weight (excl. gauge)	Approximately 1.6kgs



FLOW CHART



2000 Low Pressure, Dual-Stage NPT type 1/4"

- 316L Stainless Steel or Nickel-plated Brass Body
- Offers outstanding accuracy and stability when adjusting maximum inlet pressure of 250 bar down to 2~20 bar
- 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
- 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

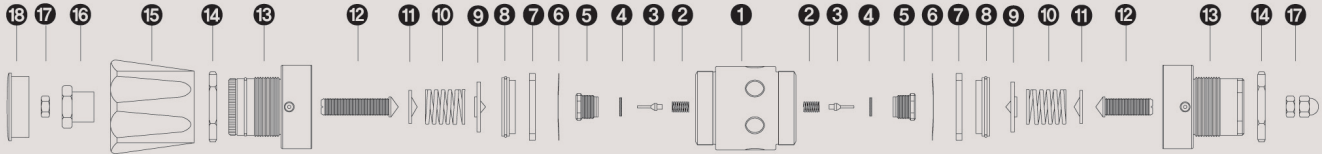
Ordering Information

2000		S	-	002	-	1S	H	-	V	-	H1
Basic Series	Body Material	Outlet Pressure Range(bar/psi)		Inlet & Outlet Ports Size & Cv		Diaphragm Material	Inlet Pressure Psi (bar)	Self-venting		High Temperature	
2000 Dual-stage	S = 316L SS B=Brass	002 = 2(29) 005 = 5(72.5) 010 = 10(145) 020 = 20(290)		1S=0.2 Standard		S = 316L SS Standard H = Hastelloy C-22 Optional	-250bar/3,625psi	-Non-venting Standard V = Self-venting Optional		H1 = 120° C H2 = 250° C H3 = 320° C Optional	
1/4"NPTF											

※ Note:1) Brass body is NOT compatible with H1, H2, H3 options. / 브라스 제품은 H1, H2, H3 불가.

2) Push and lock handle is NOT compatible with aluminum control knob (H1, H2, & H3 options)/ 푸시 & 락 핸들은 알루미늄손잡이에 적용 불가.

2000 SERIES PART LIST



Series Part List (Standard Model)

Item No	Part Name	Part No. & Description
01	Body	2000-01-01: 316L SS / 01-02: Nickel-plated Brass
02	Valve Spring	2000-02-01: 316L SS (standard) / 02-02: Hastelloy C-22 (option)
03	Main Valve	2000-03-01: 316L SS (standard) / 03-02: Hastelloy C-22 (option)
04	Valve Seat	2000-04-01: PFA (standard) / 04-02: Teflon (option) / 04-03: Polyimide (option)
05	Locking Screw	2000-05-01: 316L SS
06	Diaphragm	2000-06-01: 316L SS (standard) / 06-02: Hastelloy C-22 (option)
07	Diaphragm Plate	2000-07-01: common
08	Back-up Plate	2000-08-01: common
09	Spring Plate	2000-09-01: common
10	Load Spring	2000-10-01: 2bar / 10-02: 5bar / 10-03: 10bar / 10-04: 20bar *upper (left) 10-05: 2bar ~ 10bar / 10-06: 20bar *lower (right)
11	Pivot	2000-11-01: common
12	Adjusting Screw	2000-12-01: upper (left) 12-02: lower (right)
13	Bonnet	2000-13-01: Upper(left)-Brass / 13-02: Lower(right)-Brass
14	Panel Mount Nut	2000-14-01: option
15	Control Knob	2000-15-01: ABS
16	Push & Lock Handle Nut	2000-16-01: common
17	Locking Nut	2000-17-01: Nut / 17-02: Cap Nut
18	Name Cap	2000-18-01: 2bar / 18-02: 5bar / 18-03: 10bar / 18-04: 20bar

※ 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)