

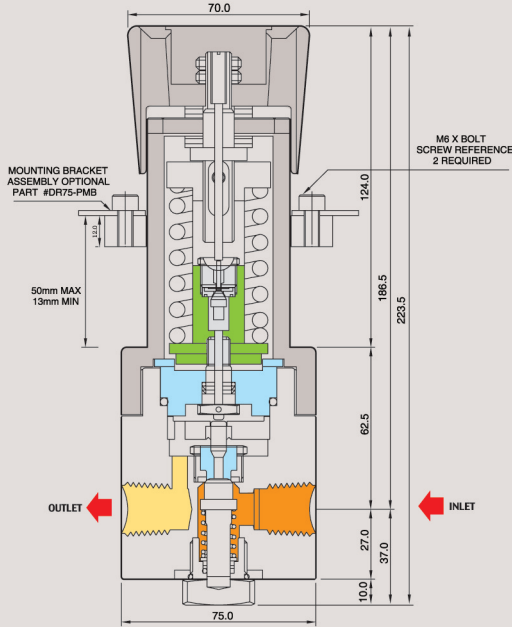


DR75 S E R I E S

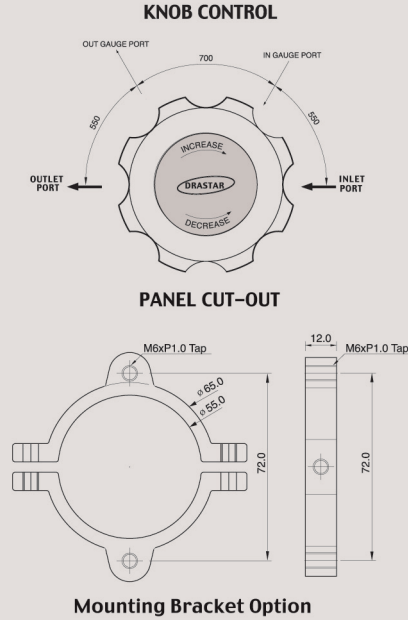
High Pressure High Flow Reducing Regulator



FUNCTIONAL SCHEMATIC



INSTALLATION DIMENSIONS



DR75 High Flow, High Pressure, Single-Stage NPT type 1/2", 3/4"

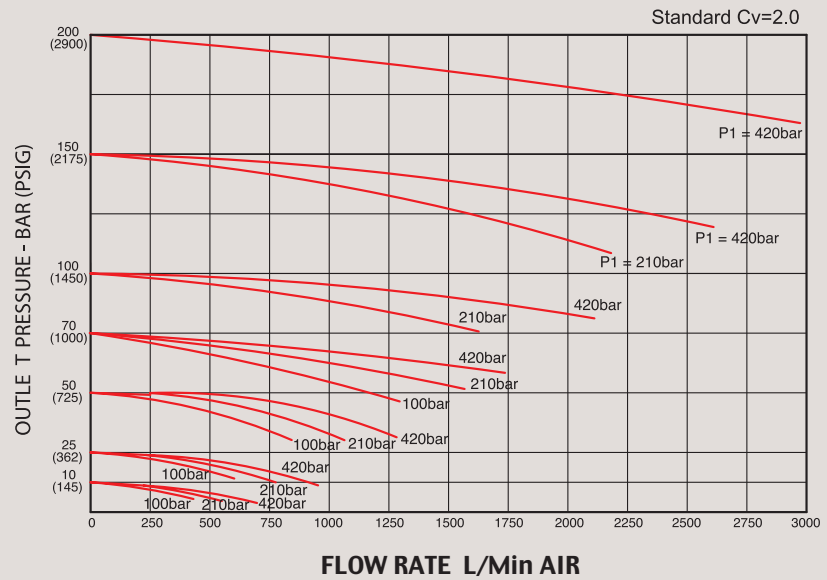
Cv 2.0 제품으로 고유량이 요구되는 물, 케미칼, 액체 또는 가스 배관라인 등에 최적

- 316L Stainless Steel
- 레귤레이터내 압력상승 보정 기능으로 입구압력의 변화에도 출구압력을 안정적으로 정밀하게 유지 가능.
- 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	1/2", 3/4" NPTF / Gauge Port : 1/4" NPTF
Body	316L Stainless Steel
Bonnet	Aluminum (standard)
Diaphragm	316L Stainless Steel
Main Valve	316L Stainless Steel
Valve Spring	316L Stainless Steel
Valve Seat	PCTFE (standard) / Teflon (option), Vespel (option)
Maximum Inlet Pressure	H = 450bar / L = 250bar
Outlet Pressure/bar (psi)	10 (145), 25 (363), 50 (725), 70 (1,015), 100 (1,450), 150 (2,175), 200 (2,900)
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)	2.0
Other Options	Pressure gauge, Wall Mounting Bracket
Net Weight (excl. gauge)	Approximately 4.5kgs

FLOW CHART



DR75 High Flow, High Pressure, Single-Stage NPT & BSP type 1/2", 3/4"

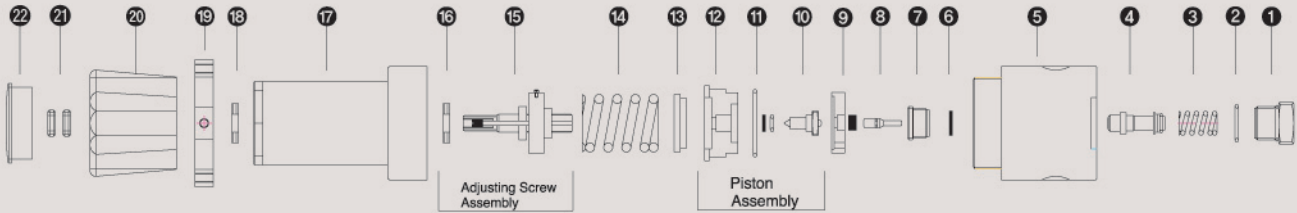
- 316L Stainless Steel.
- Having Cv 2.0, optimal for high flow applications of water, liquids, chemicals, and gas piping lines.
- Designed to maintain stable and precise outlet pressure against fluctuations of inlet pressure by self-calibrating pressure increases.
- Cleaning : CGA 4.1. and ASTM G-93 for O² service / Oil-free.
- Except for high purity gas lines, separate filtering is MUST (gas 7_{μm}~15_{μm} water 15_{μm}~80_{μm}) for long life and failure prevention.

Ordering Information

DR75 - S L P - 010 A - NP1 - V - H1								
Basic Series	Body Material	inlet Pressure	Valve Seat	Outlet Pressure Range(bar/psi)	Port Type	Inlet & Outlet Ports Type & Size	Self-venting	High Temperature
DR75 1/2", 3/4" NPTF BSP	S = 316L SS	L = 250bar H = 450bar	-PCTFE Standard T=Teflon Optional V=Vespel Optional	010=10/145 025=25/263 050=50/725 070=70/1,015 100=100/1,450 150=150/2,175 200=200/2,900	A = 2Ports C = 4Ports M = 4Ports	NP1= NPTF1/2" NP2= NPTF3/4" BS1= BSP1/2" BS2= BSP3/4"	-Non-Venting V = Self Venting Optional	H1 = +120° C H2 = +250° C H3 = +320° C Optional

※Note:1) Push and lock handle is NOT compatible with DR75 series/ DR75 시리즈는 푸시 & 락 핸들 적용 불가.

DR75 SERIES PART LIST



Series Part List (Standard Model)

Item No	Description	Part No.	Model Application
01	Cap Screw	DR75-01-01: 316L SS	
02	Cap Screw O-ring	DR75-02-01: common	
03	Valve Spring	DR75-03-01: 316L SS	
04	Main Valve Assembly	DR75-04-01: 316L SS	
05	Body	DR75-05-01: 316L SS	
06	Valve Seat	DR75-06-01: PFA (standard) / 06-02: PFA (option) / 06-03: Polyimide(option)	
07	Locking Screw	DR75-07-01: 316L SS	
08	Main Valve Guide Pin	DR75-08-01: 316L SS	
09	Valve Pin Guide	DR75-09-01: 316L SS	
10	Piston	DR75-10-01: 10bar~70bar / 10-02: 100bar~200bar	
11	Piston O-ring Assembly	DR75-11-01: 10bar~70bar / 11-02: 100bar~200bar	
12	Piston Diaphragm	DR75-12-01: common	
13	Spring Plate	DR75-13-01: common	
14	Load Spring	DR75-14-01: 10bar / 14-02: 25bar / 14-03: 50bar / 14-04: 70bar / 14-05: 100bar / 14-06: 150bar, 200bar	
15	Adjusting Screw Assembly	DR75-15-01: Non-venting / 15-02: Self-venting	
16	Thrust Needle Bearing	DR75-16-01: common #1226	
17	Bonnet	DR75-17-01: common	
18	Thrust Needle Bearing	DR75-18-01: common #1226	
19	Panel Mounting Bracket	DR75-19-01: option	
20	Control Knob	DR75-20-01: common	
21	Locking Nut	DR75-21-01: common	
22	Name Cap	DR75-22-01: 10bar / 22-02: 25bar / 22-03: 50bar / 22-04: 70bar / 22-05: 100bar 22-06: 150bar, 200bar	

※ 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)