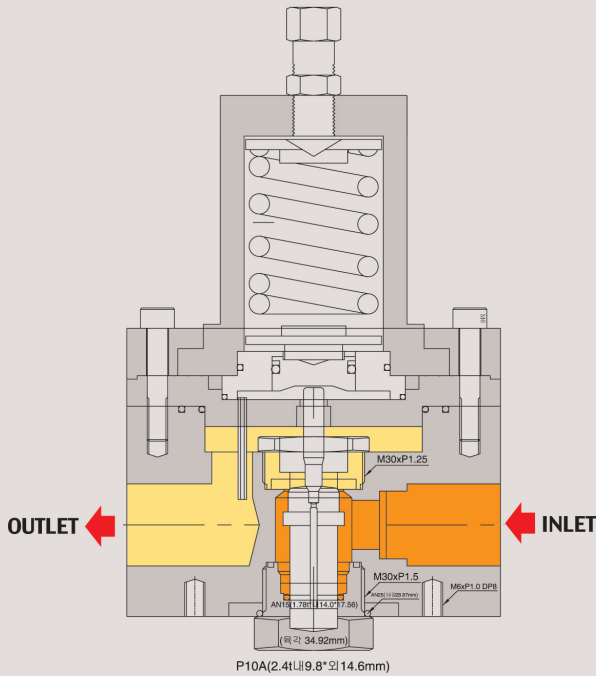


DR110 S E R I E S

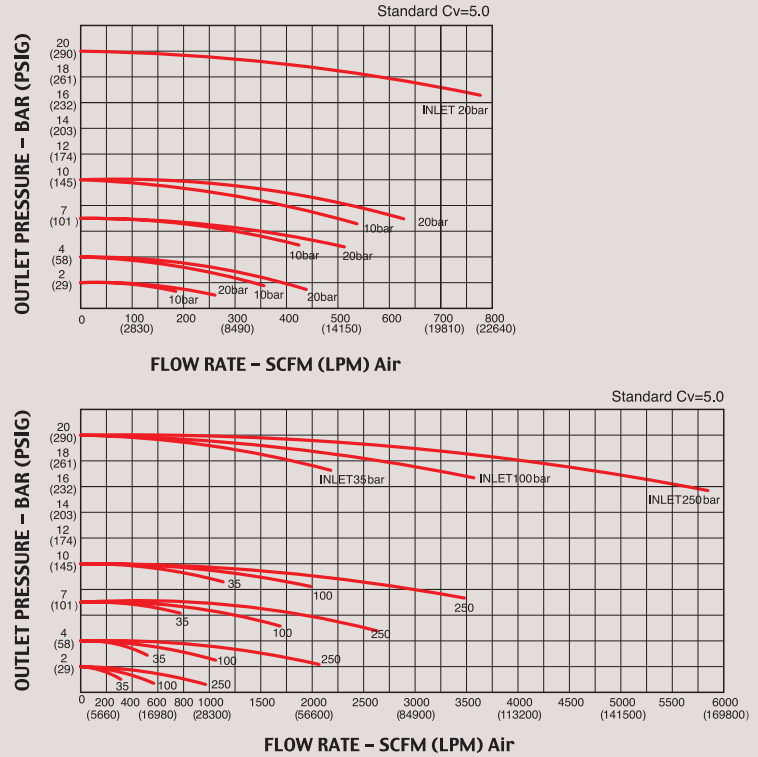
Gas and Water High Flow Low Pressure Regulators



FUNCTIONAL SCHEMATIC



FLOW CHART



DR110 High Flow, Single-Stage NPT type 1/2", 3/4", 1"

Cv 5.0의 고유량 제품으로 일반적인 산업용 가스는 물론 일반 물 또는 초 순수 라인 등에 최적의 제품

- 316L Stainless Steel or Nickel-plated Brass Body
- Cv 5.0의 고유량 제품이며 가스, 물 등의 사용환경에서 내구성과 안전성이 뛰어남.
- 설치 환경에 따라 Tube 및 Flange를 옵션으로 선택 가능함.
- 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)

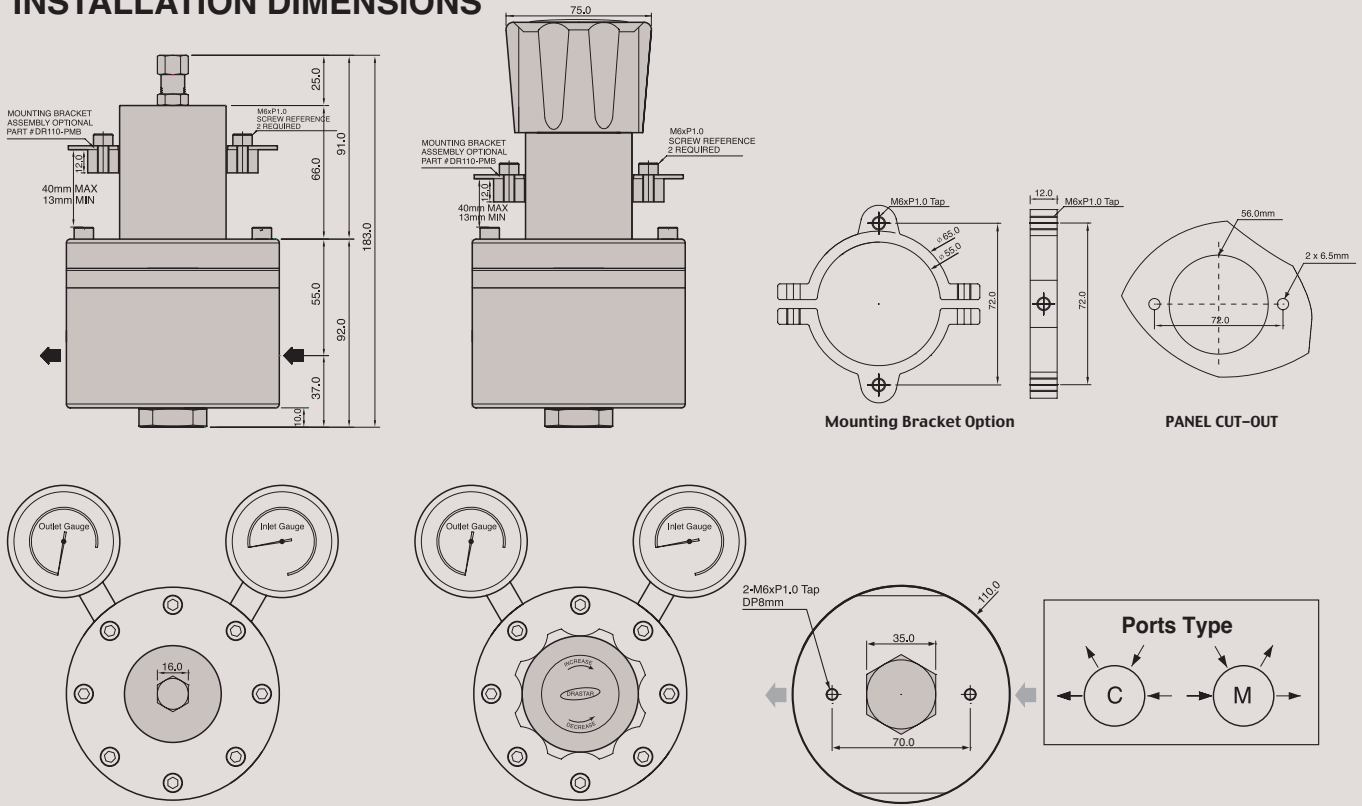
Specifications

Inlet & Outlet Ports	3/4", 1" NPTF / Gauge port: 1/4" NPTF F1=1/2" 10k Flange / T1 = 1/2" Tube F2 = 3/4" 20k Flange / T2 = 3/4" Tube F3 = 1" 30k Flange / T3 = 1" Tube
Body	316L Stainless Steel / Nickel-plated Brass
Bonnet	Aluminum #2024
Diaphragm	Teflon / Piston type (316L SS)
Main Valve	316L SS
Valve Spring	316L SS
Valve Seat	Teflon / Vespel
Maximum Inlet Pressure (bar/psi)	L = 41.4bar (600psi / 316L SS & Brass), BS = 100bar (1,450psi / Brass), S = 150bar (2,175psi / 316L SS), H = 250bar (3,625psi / 316L SS), U = 350bar (5,075psi / 316L SS)
Outlet Pressure/bar (psi)	2(29), 4(58), 7(102), 10(145), 20(290), 40(580), 70(1,015), 100(1,450), 150(2,175 / *SS only), 200(2,900psi / *SS only)
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-Piston diaphragm type only) * 피스톤 다이아프램 전용 H3: up to +320°C (option-Piston diaphragm type only) * 피스톤 다이아프램 전용
Flow Capacity (Cv)	5.0
Other Options	Pressure gauge, Flange, Tube, Panel Mounting Bracket, Wall Mounting Bracket
Net Weight (excl. gauge)	Approximately 6.5kgs

REFERENCE

Contents in the catalogue including specifications, performance data, etc. can be changed without prior notice in the course of continuous upgrading and improvement of the products.
사양서와 성능데이터 등 카탈로그에 있는 내용은 당사 제품의 지속적인 업그레이드 및 개선의 과정에서 사전 예고 없이 변경될 수 있습니다.

INSTALLATION DIMENSIONS



DR110 High Flow, Single-Stage NPT type 1/2", 3/4", 1"

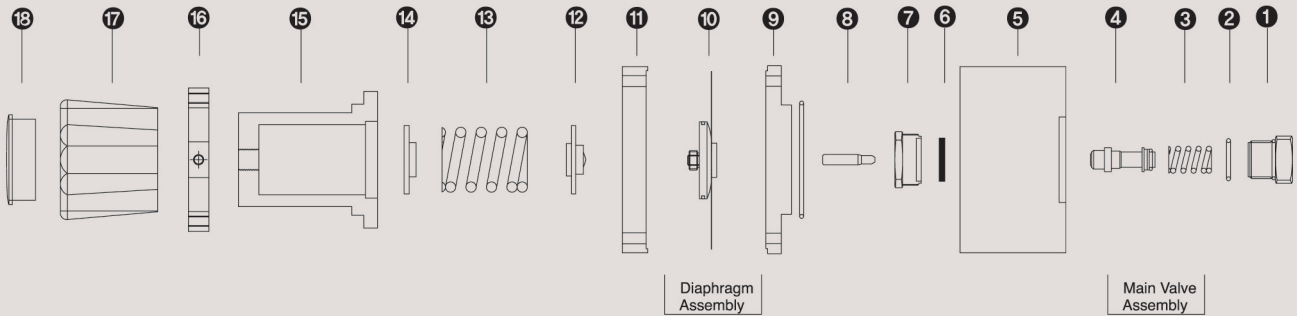
- 316L Stainless Steel or Brass Body
- High-flow product of Cv 5.0 with excellent durability and safety in various applications of gases and water
- Tube and Flange options are available based on your installation requirement
- Cleaning : CGA 4.1. and ASTM G-93 for O₂ service / Oil-free
- Except for 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

DR110	-	SL	-	002	C	-	N2	F2	-	H1	
Basic Series		Body Material & inlet Pressure Limit (bar/psi)		Outlet Pressure Range(bar/psi)	Port Type		Inlet & Outlet Ports Type & Size	Inlet & Outlet Flange & Tube Options		Self-venting	High Temperature
DR110		SL=41.4/600		002 = 2/29	C=4 Ports		N2= NPT 3/4"	F2=20k Flange		-Non-	H1 = 120° C
DR110=		SS=150/2,175		004 = 4/58	M=4 Ports		N3= NPT 1"	F3=30k Flange		venting	H2 = 250° C
Bolt Type		SH=250/3,625		007 = 7/102				T1=1/2" Tube			H3 = 320° C
		SU=350/5,075		010 = 10/145				T2=3/4" Tube			Optional
		*S=316L SS		020 = 20/290				T3=1" Tube			
DR115=				040 = 40/580							
Knob Type		BL=41.4/600		070 = 70/1,015							
		*B=Brass		100 = 100/1,450				316L or 304 SS			
1/2",3/4"1"				200 = 200/2,900							
NPTF											

※ Note:1) Push and lock handle is NOT compatible with DR110 series. / DR110 시리즈는 푸시 & 락 핸들 적용 불가.
2) 1/2" Tube(O.D 21.7mm), 3/4" Tube(O.D 27.2mm), 1" Tube(O.D 34mm)

DR110 SERIES PART LIST



Series Part List (Standard Model)

Item No	Part Name	Part No. & Description
01	Cap Screw	DR110-01-01: 316L SS
02	Cap Screw O-ring	DR110-02-01: common
03	Valve Spring	DR110-03-01: 316L SS (standard) / 03-02: Hastelloy C-22 (option)
04	Main Valve Assembly	DR110-04-01: 316L SS (standard) / 04-02: Hastelloy C-22 (option)
05	Body	DR110-05-01: 316L SS / 05-02: Brass
06	Valve Seat	DR110-06-01: PFA (standard) / 06-02: Teflon, Polyimide (option)
07	Locking Screw	DR110-07-01: 316L SS
08	Main Valve Guide Pin	DR110-08-01: 316L SS
09	Flange #9	DR110-09-01: common
10	Piston Diaphragm Assembly	DR110-10-01: 2bar ~ 20bar (Teflon Diaphragm) / 10-02: 40bar ~ 70bar (Piston) 10-03: 100bar ~ 200bar (Piston)
11	Flange #15	DR110-11-01: common
12	Spring Plate	DR110-12-01: option (applicable only for 40bar~200bar/40bar~200bar <i>까지만 적용</i>)
13	Load Spring	DR110-13-01: 2bar / 13-02: 4bar / 13-03: 7bar / 13-04: 10bar / 13-05: 20bar / 13-06: 40bar / 13-07: 70bar / 13-08: 100bar / 13-09: 150bar / 13-10: 200bar
14	Pivot	DR110-14-01: common
15	Bonnet	DR110-15-01: common
16	Mounting Bracket	DR110-16-01: option
17	Control Knob	DR110-17-01: Knob type (DR115) / 17-02: Bolt type
18	Name Cap Plate	DR110-18-01: 2bar / 18-02: 4bar / 18-03: 7bar / 18-04: 10bar / 18-05: 20bar / 18-06: 40bar / 18-07: 70bar / 18-08: 100bar / 18-09: 150bar / 18-10: 200bar

※ Parts for H1, H2, H3 options: please contact www.drastar.com
(고온용 모델은 별도 문의: www.drastar.com)