



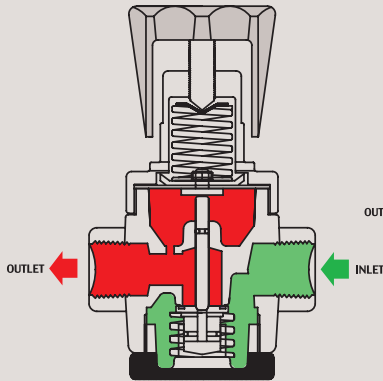
DR90 S E R I E S



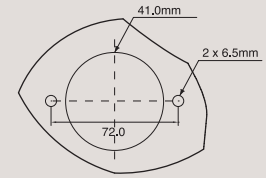
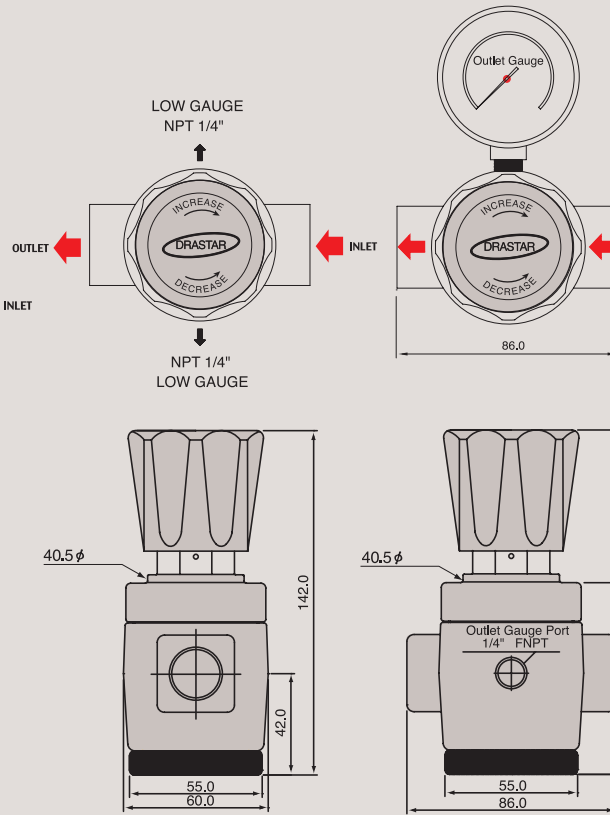
D.I Water and Gas High Flow Low Pressure Regulators



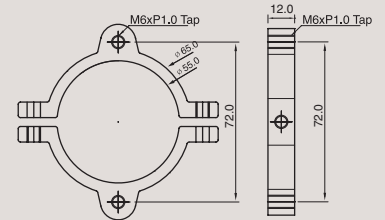
FUNCTIONAL SCHEMATIC



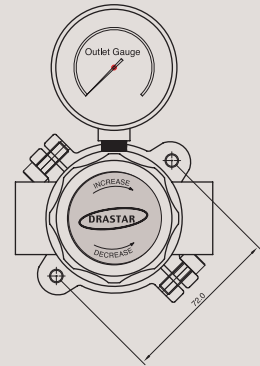
INSTALLATION DIMENSIONS



PANEL CUT-OUT



Mounting Bracket Option



DR90 High Flow, D.I. Water & Gas, Single-Stage NPT type 3/8", 1/2", ~~3/4"~~, ~~1"~~

Cv 4.0 제품으로 고유량의 D.I Water, 산업용 가스, 에어 또는 물 라인 등에 적합

- 316L Stainless Steel Body
- DR905 시리즈는 D/I Water (순수 또는 초 순수) 전용 제품임.
- Valve Seat는 NBR (DR905는 Viton), 다이어아프렘은 NBR 또는 Teflon (DR905)등으로 구성되어 있고 내구성이 뛰어남.
- 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

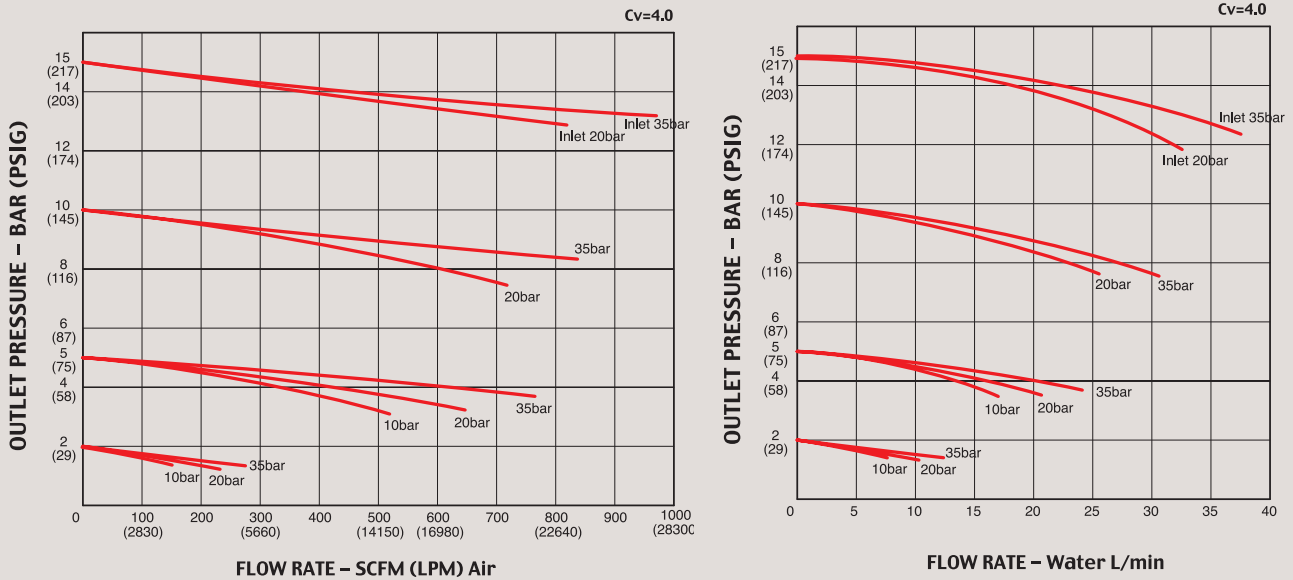
Inlet & Outlet Ports	3/8", 1/2", ~~3/4"~~ , ~~1"~~ NPTF / Gauge port: 1/4" NPTF	*Strikethrough ports : to be prepared
Body	316L Stainless Steel	
Bonnet	Zinc (Zn) Casting Nickel Plated	
Diaphragm	NBR (Nitrile Butadiene Rubber) (standard) / Teflon (option_DR905)	
Main Valve	316L SS	
Valve Spring	316L SS	
Valve Seat	Viton (standard)	
Maximum Inlet Pressure	41.4bar (600psi)	
Outlet Pressure/bar (psi)	5 (72.5), 10 (145), 15 (217.5)	
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)	
Flow Capacity (Cv)	4.0	
Other Options	Pressure gauge, Panel Mounting Bracket	
Net Weight (excl. gauge)	Approximately 1.6kgs	



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.
시양서와 성능데이터 등 카다록에 있는 내용은 당사 제품의 지속적인 업그레이드 및 개선의 과정에서 사전 예고 없이 변경될 수 있습니다.

FLOW CHART



DR90 High Flow, D.I. Water & Gas, Single-Stage NPT type 3/8", 1/2", ~~3/4"~~, ~~1"~~

- Having Cv 4.0, suitable for high-flow applications in D.I. Water, industrial gases, air, or water lines.
- 316L Stainless Steel body.
- DR905 series is dedicated for use with D/I Water (ultrapure or high-purity).
- Excellent durability by NBR (Viton for DR905) seat and NBR or Teflon (DR905) diaphragm.
- 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

DR90	-	S	005	-	NP2	
Basic Series		Body Material Inlet Pressure	Outlet Pressure Range(bar/psi)	Port Type	Inlet & Outlet Port Type & Size Cv	Self-venting High Temperature
DR90 3/8"NPTF 1/2"NPTF ~~3/4"NPTF~~ ~~1"NPTF~~ DR901=Bolt type DR902=Knob type DR905=Knob type for D.I. water only		S = 316L SS 600psi / 41.4bar	005 = 5/72.5 010 = 10/145 015 = 15/217.5	- 3ports Standard	NP8 = NPT 3/8" NP2 = NPT 1/2" ~~NP3 = 3/4" NPTF~~ ~~NP1 = 1" NPTF~~ Cv = 4.0	-Non-venting n/a

※ Strikethrough material & ports : to be prepared / 취소선 소재 & Ports는 준비 예정

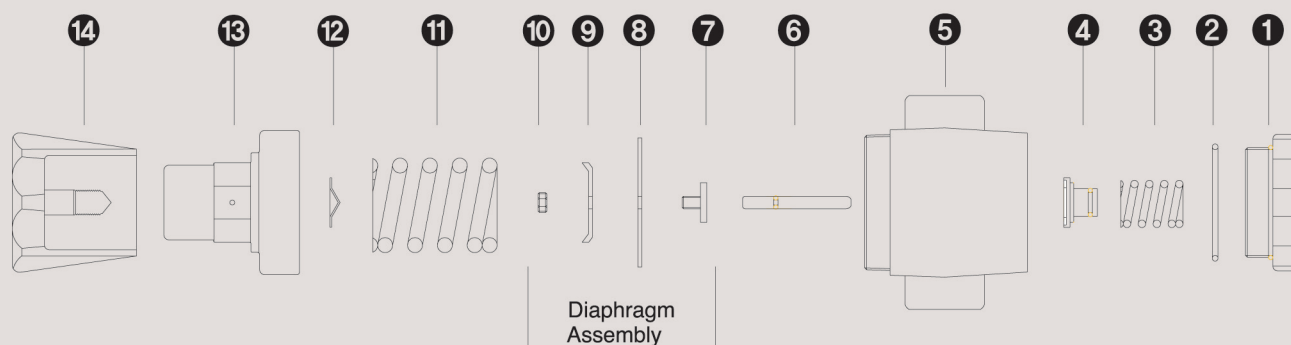
※ Note:1) Push and lock handle is NOT compatible with DR90 series. / DR90 시리즈는 푸시 & 락 핸들 적용 불가.

DR90

SERIES

This catalogue is revised and/or updated as of Jan. 2024 and supersedes any old ones.
이 카다록은 2024년 1월에 개정 또는 업데이트 되었으며 이전의 카다록을 대체합니다.

DR90 SERIES PART LIST



Series Part List (Standard Model)

Item No	Part Name	Part No. & Description
01	Cap Screw	DR90-01-01: 316L SS
02	Cap Screw O-ring	DR90-02-01: common
03	Valve Spring	DR90-03-01: 316L SS
04	Main Valve	DR90-04-01: NBR (standard) / 04-02: Viton (option)
05	Body	DR90-05-01: 316L SS
06	Main Valve Guide Pin	DR90-06-01: 316L SS
07	Diaphragm Bolt	DR90-07-01: SS40C / 07-02: 316L SS
08	Diaphragm	DR90-08-01: NBR (standard) / 08-02: Teflon (option)
09	Diaphragm Plate	DR90-09-01: common
10	Diaphragm Nut	DR90-10-01: common
11	Load Spring	DR90-11-01: 5bar / 11-02: 10bar / 11-03: 15bar
12	Pivot	DR90-12-01: common
13	Bonnet	DR90-13-01: common
14	Control Knob	DR90-14-01: Knob type (standard) / 14-02: Bolt type (option)