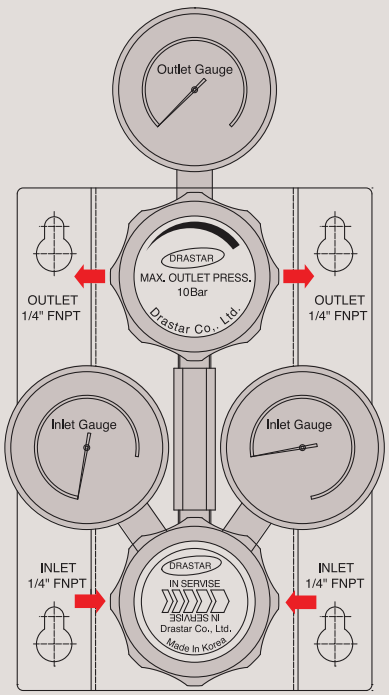
AC700 SERIES

Automatic Changeover Regulator & System

This catalogue is revised and/or updated as of Jan. 2020 and supersedes any old ones.
이 카다록은 2020년 1월에 개정 또는 업데이트 되었으며 이전의 카다록을 대체합니다.

FUNCTIONAL SCHEMATIC

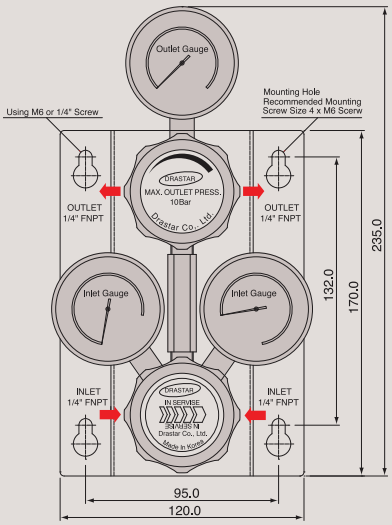


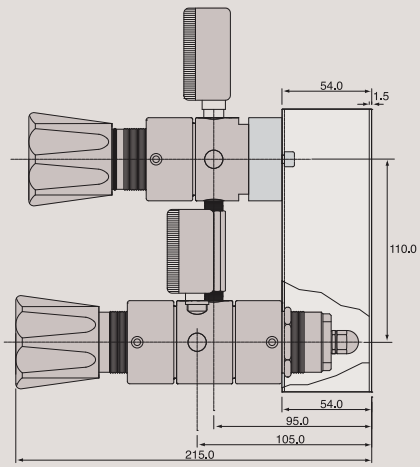
Automatic Changeover Regulators and Systems

AC700시리즈는 좌/우 양측 실린더에 각각 연결하여 한쪽의 가스 잔량이 소진되면 다른 쪽 가스 실린더로 자동 전환되어 공급되는 방식의 "오토 체인지오버 시스템"으로서 병원, 제약, 학교, 실험실, 연구소 등 고압가스 실린더의 유체흐름 공급을 중단 없이 지속적으로, 그리고 보다 더 편리하고 안정적으로 사용할 수 있도록 고안된 제품입니다.
본 시스템은 Changeover와 레귤레이터가 1세트로 구성되며 기본 Wall Mounting(벽 장착형)입니다. 본체 및 내부의 모든 부품은 Stainless Steel 316L (AC700S)과 Brass (AC700B)중 선택 가능하며, 실린더 가스, Bulk Gas Line, 실험실, 분석용 특수 가스, 또는 고순도 가스, 믹싱용 가스, 그리고 각종 부식성 가스등에서 모두 사용할 수 있도록 제작 설계되었습니다. 사용 압력은 입구압력 250bar (3600psig)이며 출구압력은 최대 20bar (290bar)까지 사용하기에 적합한 제품입니다.

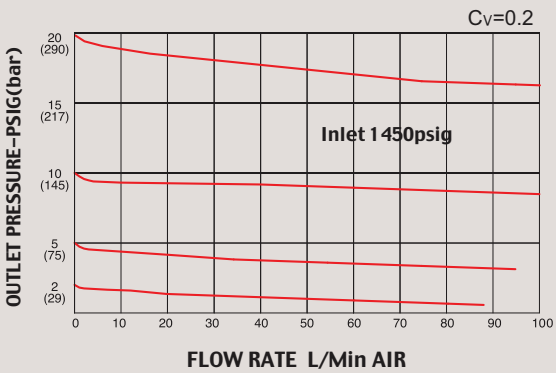
AC700 Series is DRASTAR's Automatic Changeover Regulator and System to provide high flow gases from both cylinder or supply lines continuously and stably in the fields of hospital, pharmaceutical line, research labs, etc.
The system is a wall mounting type (standard) constructed of changeover system and regulator. With inlet pressure of 250bar(3,600psig) and outlet pressure up to 290psig (20bar), AC 700 series is extensively applicable for cylinder gas, bulk gas line, lab, specialty gas for analysis application, high purity gases, mixing gas, and corrosive gases, etc.

INSTALLATION DIMENSIONS





FLOW CHART



How-to-use and matters to note

1. Connect the gas cylinders both to the left and right connection holes of the system.
   ※ To prevent back flow, check valve in between the gas cylinder and AC system MUST be installed.
2. Choose the cylinder (left or right) to use the gas first and set the knob to that cylinder direction.
3. If gas from the first cylinder (A) is consumed or the pressure drops below the working level, the system automatically changes the gas supply cylinder from (A) to the secondary cylinder (B).

※ The knob does NOT turn automatically but can be turned manually to the cylinder which currently supplies the gas.

※ If the first consumed gas cylinder (A) is replaced with new one while the media is still flowing from cylinder B and the arrow is indicating (A) cylinder as it was not set manually to the secondary cylinder, then cylinder A will supply the gas again in compliance with the knob' s direction.

※ Recommended NOT to leave both cylinders empty simultaneously to prevent from gas leakage.

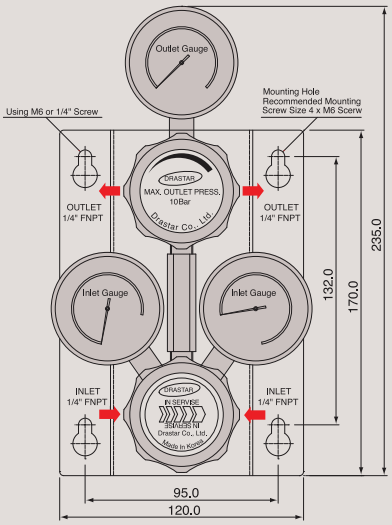
4. Automatic changeover will change the flow direction under following conditions; ±2.0 bar
   - For outlet 2 bar and 5 bar products: if pressure is dropped below 10 bar
   - For outlet 10 bar product: if pressure is dropped below 15 bar
   - For outlet 20 bar and 25 bar products: if pressure is dropped below 25~30 bar

ORDERING INFORMATION

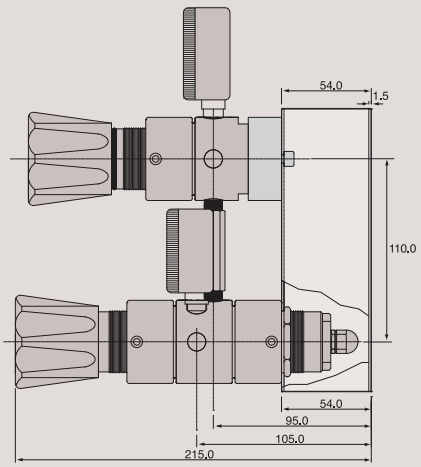
AC700 S - 002 - 1 S H

BASIS SERIES NUMBER	BODY MATERIAL	OUTLET PRESSURE RANGE	INLET AND OUTLET PORTS SIZE	FLOW CAPACITY	DIAPHRAGM MATERIAL
Standard Inlet Pressure 250bar (3600PSIG)	S = Stainless Steel 316L B = Brass	002 = .1-2bar (1-29PSIG) 005 = .1-5bar (1-75PSIG) 010 = .1-10bar (1-145PSIG) 020 = .1-20bar (1-290PSIG)	1 = 1/4″ NPT	S = Cv 0.2 Standard	H = Hastelloy-C Optional

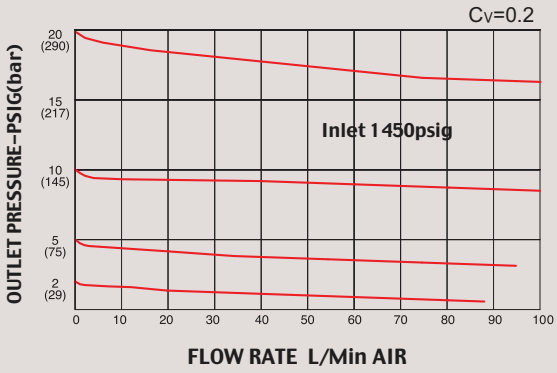
FUNCTIONAL SCHEMATIC



INSTALLATION DIMENSIONS



FLOW CHART



Specifications

In/Outlet Port Size	1/4″ FNPT / Gauge port: 1/4″ NPT
Body	Stainless Steel 316L / Nickel Plated Brass
Bonnet	Nickel Plated Brass (Standard) / Stainless Steel (Option)
Diaphragm	Stainless Steel 316L / Hastelloy C (optional)
Main Valve	Stainless Steel 316L
Valve Spring	Stainless Steel 316L
Valve Seat	Teflon (Kel-F, Polyimide, etc.: optional)
Maximum Inlet Pressure	250bar (3600psig)
Outlet Pressure Range	2bar (29psig), 5bar (75psig), 10bar (145psig), 20bar(290psig)
Design Proof Pressure	150% of maximum rated
Leakage	to $2x10^{-8}$atmcc/secHeliumavailable
Operating Temperature	-40°C to +70°C(-40°F to +160°F) (Standard)
Flow Capacity	Cv = 0.2
Weight	Approx. 3.3kgs