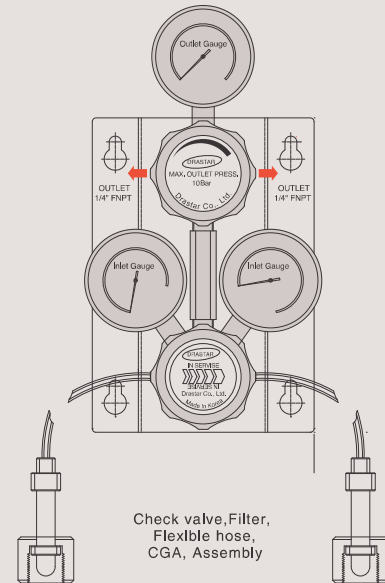


FUNCTIONAL SCHEMATIC



Automatic Changeover Regulators and Systems

AC720시리즈는 좌/우의 양측 실린더에 각각 연결하여 한쪽의 가스 잔량이 소진되면 다른 쪽 가스 실린더로 자동 전환하여 중단 없이 지속적으로 가스(유체)를 공급하기 위한 오토 체인지오버 & 레귤레이터 시스템입니다.

- Stainless Steel 316L(AC702S)와 Brass Body (AC720B)중 선택 가능
- 최대 입구압력: 250bar (3600psig), 출구압력: 0.3bar ~ 최대 20bar (290bar)
- 병원, 제약, 학교, 연구소, 실험실 등에서 분석용 특수 가스, 또는 고순도 가스, 믹싱용 가스, 각종 부식성 가스 등을 일정시간 동안 중단 없이 지속적으로 사용하는데 적합함
- 필터, 체크밸브, 고압밸브(코어밸브 옵션) 및 고순도용 플렉시블 고압호스(STS PFA 1/4" 튜브엔드) 등을 모두 셋트로 구성하여 기존 오토체인지 오버에 비하여 사용의 편리성을 대폭 업그레이드 한 제품임.
- Wall Mounting브라켓 (벽 장착형)을 기본 사양으로 하여 더욱 편리하고 안정적으로 사용할 수 있도록 고안한 제품임.

AC720 series is an Automatic Changeover Regulator and System to enable the gas supply continuously (without a break) and stably for some duration by connecting it to both cylinders and changing the gas supply cylinder automatically if the supply pressure of the 1st cylinder goes down to a marginal level.

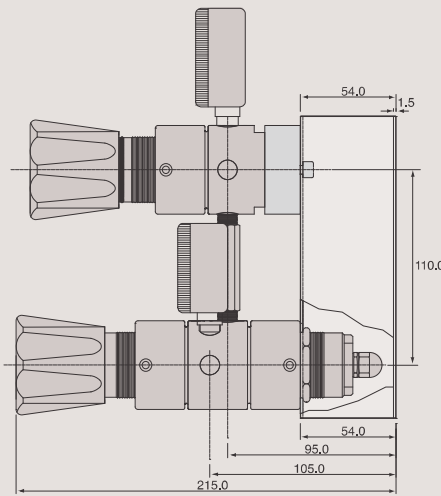
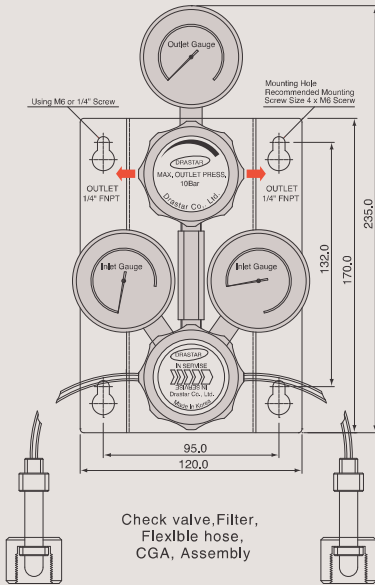
- Stainless Steel 316L(AC702S) and Brass Body (AC720B) available
- Maximum inlet pressure: 250bar (3600psig), outlet pressure ranges: 0.3bar ~ max. 20bar (290bar)
- Applicable for hospital, pharmaceutical, school, research institute and lab., using special gases, high purity gas, gas for mixing, various corrosive gases, etc. to supply gas without a break for some duration.
- AC720 series, a highly upgraded version of AC700 series and composed of filter, check valve, high pressure valve (Core Valve/Optional) and flexible high pressure hoses for high purity gases (STS PFA 1/4" tube end) as a set offers much easier operation than AC700 series.
- Wall mounting type as standard will enable users much easier and safer installation and operation.

※ Automatic changeover will change the flow direction under following conditions; +/- 2.5bar

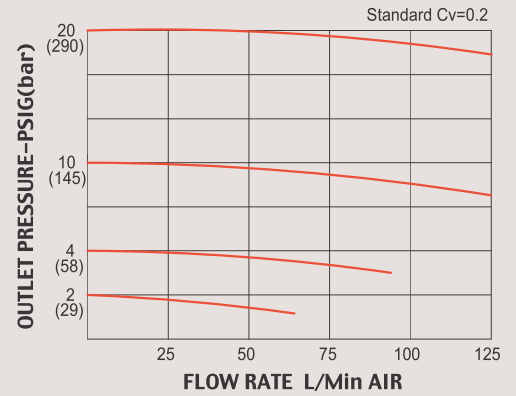
- For outlet 2bar and 5bar products : if pressure is dropped below 10bar
- For outlet 10bar product : if pressure is dropped below 15bar

FUNCTIONAL SCHEMATIC

INSTALLATION DIMENSIONS



FLOW CHART



• For outlet 20bar products : if pressure is dropped below 25~30 bar

All manufacturing processes such as cleaning, welding, assembly, testing, and packing of Drastar pressure regulators are performed in the class-100 and class-10 clean room.

※ [DRASTAR Regulators are Oil-free]

DRASTAR's all pressure regulators are assembled, cleaned, inspected, and packed in clean-rooms equipped with clean bench, helium detector, particle counter, ultrasonic cleaner, ultrapure water system, vacuum packaging machine, etc. through oxygen cleaning procedure in compliance with process and regulations indicated in CGA 4.1. and or ASTM G-93 and are free of any grease or oils.

드라스타의 모든 레귤레이터는 클린 벤치, 헬륨디텍터, 파티클카운티, 초음파 세척기, 초 순수 시스템, 진공 포장기 등을 갖춘 클린룸(Clean Room)에서 CGA 4.1 및 ASTM G-93에 명시된 절차와 규정에 따라 조립, 세척, 검사 및 포장이 이루어지며 그리스 또는 오일 등 유분이 완전히 세정된 제품입니다.

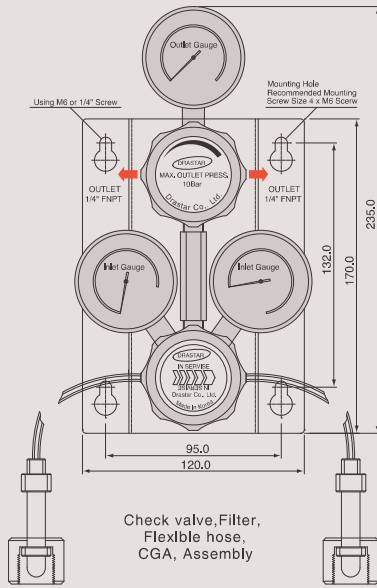
AC720 S - 002 - 1 S H 1 - 22R

BASIS SERIES	BODY MATERIAL	OUTLET PRESSURE RANGE	INLET HOSE SIZE	FLOW CAPACITY	DIAPHRAGM MATERIAL	HOSE SIZE (STS PFA)	A and B CGA CONNECTION
Inlet Pressure 250bar (3600psi)	S = STS 316L B = Brass	002 = .1-2bar(1-29psi) 004 = .1-5bar(1-72psi) 010 = .1-10bar(1-145psi) 020 = .2-20bar(10-290psi)	1 = 1/4" Tube end 8 = 3/8" Tube end 2 = 1/2" Tube end	S = Cv 0.2 Standard	H = Hastelloy-C	1 = 1M Flexible Hose 2 = 2M Flexible Hose 3 = 3M Flexible Hose	21R = 21mm RH 21L = 21mm LH 22R = 22mm RH 22L = 22mm LH 23R = 23mm RH 23L = 23mm LH 320 = CGA320 350 = CGA350 510 = CGA510 580 = CGA580

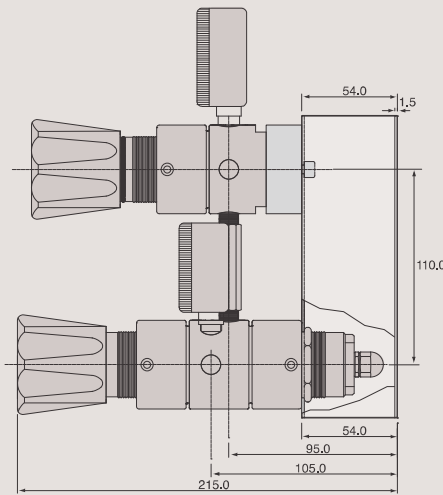
AC720

SERIES

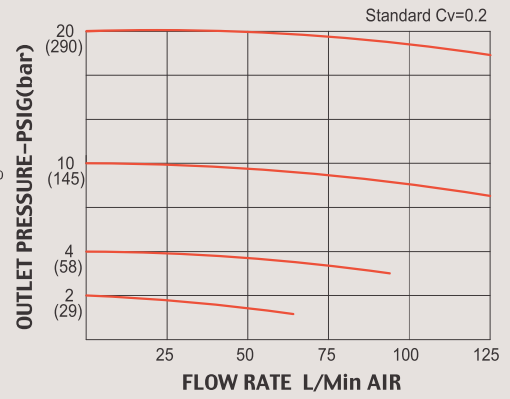
FUNCTIONAL SCHEMATIC



INSTALLATION DIMENSIONS



FLOW CHART



SPECIFICATIONS

Port Sizes	1/4" FNPT
Body	Stainless Steel 316L or Brass
Bonnet	Nickel Plated Brass
Diaphragm	Stainless Steel 316L
Main Valve	Stainless Steel 316L
Valve Spring	Stainless Steel 316L
Valve Seat	Teflon / Standard
Maximum Inlet Pressure	250bar(3,600psig)
Outlet Pressure Range	2bar, 4bar, 10bar, 20bar
Design Proof Pressure	150% of maximum rated
Leakage	to 2x10 ⁻⁸ atm cc/sec Helium available.
Operating Temperature	PFA: -40° C to 70° C Standard
Flow Capacity	Cv=0.2 / Standard
Other Options	CGA, Gauge Valve etc. Standard