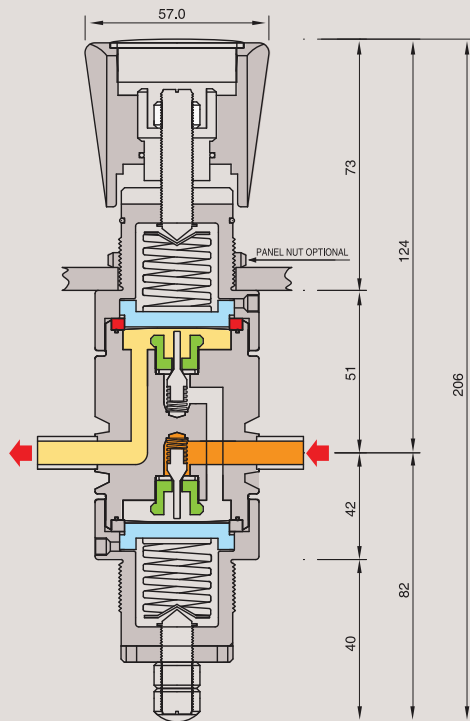


2200 S E R I E S

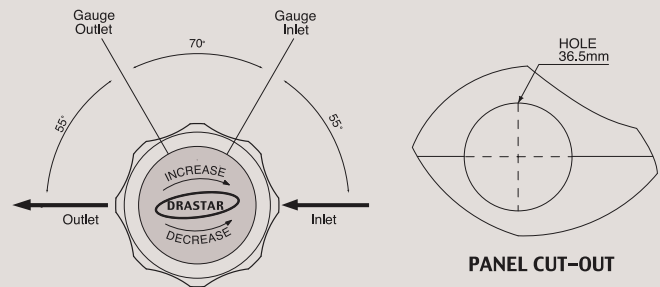
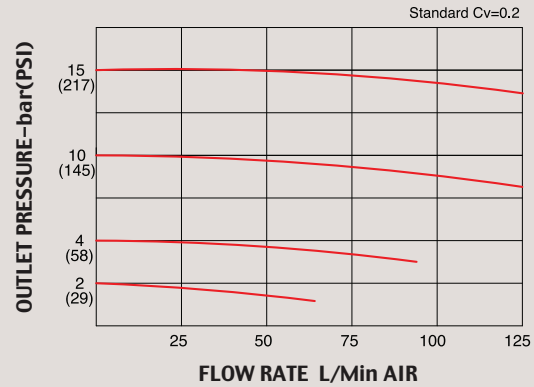
Dual-Stage Ultra High Purity
Pressure Reducing Regulators



FUNCTIONAL SCHEMATIC



FLOW CHART



UHP Dual-Stage Pressure Reducing Regulators (1/4")

2200 시리즈는 Two-Stage UHP (Ultra High Purity) 압력 조절기로서 Body는 STS 316L or 316L VAR (더블멜트)를 사용하였으며 반도체 제조용 가스설비, 고압 가스라인, Bulk 가스라인, 제약, 연구소 및 실험실 등에 사용할 수 있도록 설계되었습니다. E.P. (Electropolishing) 처리를 함으로써 부식성 가스 사용 환경에 더욱 적합한 제품입니다. 최대 압력은 250bar (3600psig), 출구압력은 모델에 따라 0.3bar (5psig)~최대 15bar (217psig)까지 사용 가능합니다.

2200 Series is a Two-Stage Ultra High Purity (U.H.P.) pressure reducing regulator constructed by STS316L or 316L VAR (double melt) for its body. It is designed suitable for semiconductor manufacturing line, high pressure gas line, bulk gas line, pharmaceutical line, various research institute and laboratories, etc. By electropolished (E.P.) surface treatment, 2200 series is also quite suitable for corrosive gas applications. Max inlet pressure is 250bar/3,600psig and outlet pressures from 0.3bar up to 15bar are available according to the model.

- 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.

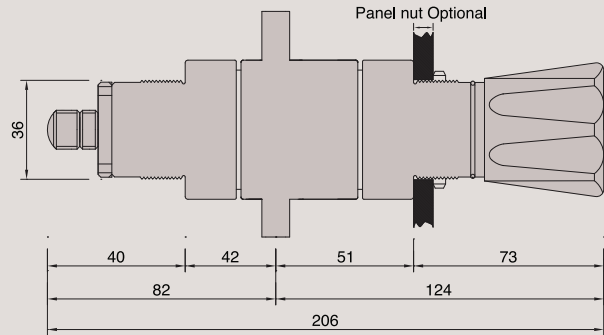
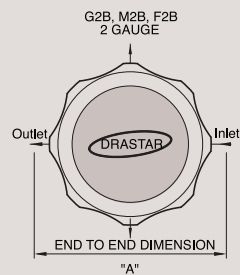
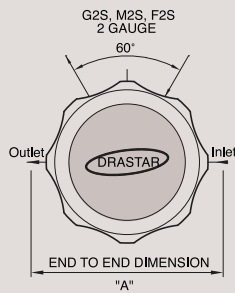
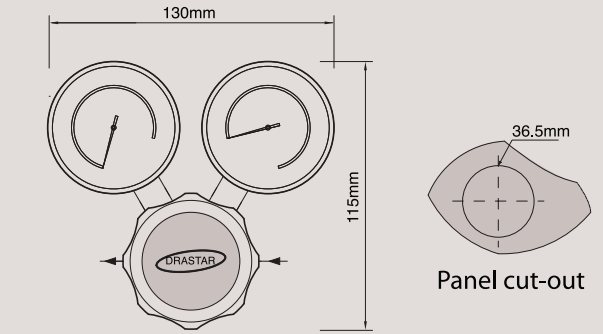
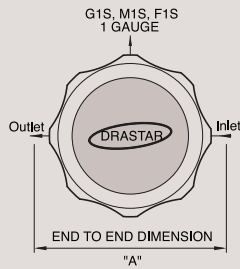
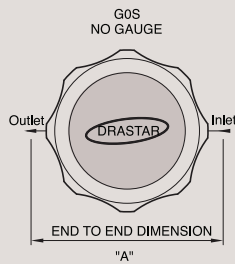
SPECIFICATIONS

Port Sizes	1/4 " Male or Female VCR
Body	Stainless Steel 316L or 316L VAR E.P.
Bonnet	Brass
Diaphragm	Stainless Steel 316L or Hastelloy (Optional)
Main Valve	Stainless Steel 316L
Valve Spring	Stainless Steel 316L
Valve Seat	PCTFT or Teflon PFA
Maximum Inlet Pressure	250bar(3600psig)
Outlet Pressure Range	2bar, 4bar, 7bar, 10bar, 15bar
Design Proof Pressure	150% of maximum rated
Leakage _ Inboard	Diaphragm: to 1 x 10 ⁻⁹ atm cc/sec He Seat: to 4 x 10 ⁻⁹ atm cc/sec He
Decaying Inlet Characteristic	0.04 per 7bar
Operating Temperature	PFA: - 40° C to +70° C (-40° F to +160° F) (Standard) PCTFE: - 40° C to +60° C (Optional)
Flow Capacity	Cv=0.2 / Standard
Other Options	CGA, Inlet and Outlet Gauges, etc.
Weight	Approx. 1.8kgs

INSTALLATION DIMENSIONS

METRIC EQUIVALENTS ARE IN PARENTHESES

■ GAUGE PORT OPTIONS



※ [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.

※ **Caution:** Filtering (gas $7\mu\text{m}\sim 15\mu\text{m}$, water $15\mu\text{m}\sim 80\mu\text{m}$) is a MUST to use in the general gas application other than high purity gases. Otherwise, it may cause a failure to the regulators. It is strongly recommended to install filter for extension of life span and saving the maintenance expense.

ORDERING INFORMATION

2200 - A 002 S - HPS - 4FS - G0S

BASIS SERIES

BODY MATERIAL & SURFACE FINISH

A = 316L B.A.....	25Ra
B = 316L E.P.....	10Ra
C = 316L E.P(P.E.P).....	5Ra
D = 316L VAR E.P.....	10Ra
E = 316L VAR E.P(P.E.P)....	5Ra

OUTLET PRESSURE RANGE

002 = .1-2bar(1-29psi)
004 = .1-4bar(1-58psi)
007 = .2-7bar(5-100psi)
010 = .2-10bar(10-145psi)
015 = .2-15bar(10-220psi)

DIAPHRAGM MATERIAL

S = STS 316L
H = Hastelloy-C

MAX. INLET PRESSURE

H = 250bar(3600psi)

GAUGE PORTS OPTIONS

Gauge Ports

G2S = 1/4" H.P.I.C	2
F2S = 1/4" Female Swivel	2
M2S = 1/4" Male Swivel	2

INLET / OUTLET PORTS SIZE

Type "A" $\pm 1.0\text{mm}$

4HP = 1/4" H.P.I.C	
4MS = 1/4" Male Swivel	94mm
4FS = 1/4" Female Swivel	94mm
4MSS = 1/4" Male Swivel	99mm
4FHD = 1/4" Female Swivel	00mm
4FL = 1/4" Female Swivel	114mm
4ML = 1/4" Male Swivel	114mm
4IMF = In Male/Out Female	94mm
4IFM = In Female/Out Male	94mm
4TS = 1/4" Tube Stubs	94mm

FLOW CAPACITY

S = Cv 0.2 Standard

SEAT MATERIAL

P = PCTFE
T = Teflon
V = Vespel

2200

SERIES

