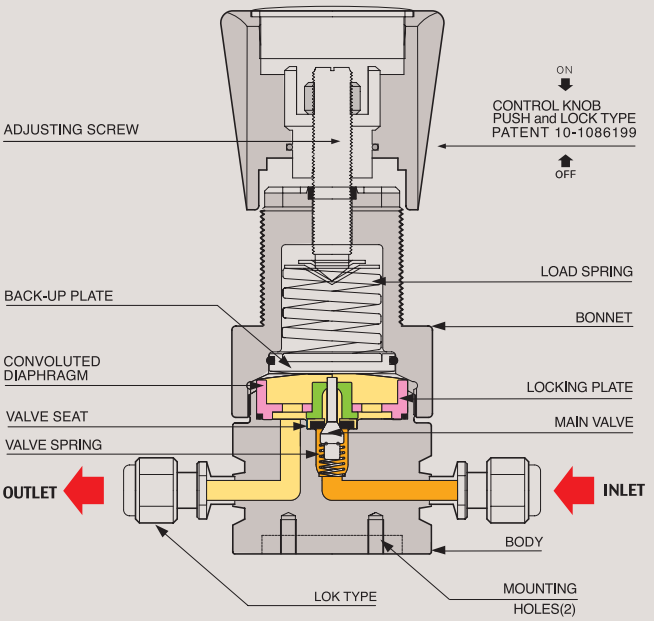
DRA 700 SERIES

LOCK TYPE LOW PRESSURE REGULATOR

DRA700 SERIES

FUNCTIONAL SCHEMATIC



DRA700 (Lok Type Regulator)

Lock type Low Pressure Regulator (1/4″ 3/8″ 1/2″ 3/4″)

DRA 700 Series is a lock-type UHP low pressure reducing regulator with B.A. 25Ra surface finish and applicable for semiconductor hook-up line and bulk gas line, etc. Inlet pressures are 3600psig (250bar) or 600psig (42bar) and outlet pressure are from 5psig (0.3 bar) up to 250psig (17bar).
With DRASTAR' s patented (patent #1086199) "push and lock type handle", you can operate it easily and stably; "locking" by pushing down the handle will prevent any slight change of pre-set pressure value, which could possibly be caused by any vibration from gas pipeline or ambient applications and the other way "unlocking" by pulling it back enables you to adjust the pressure value freely again.

Features and Applications

- Lock type economical regulator
- Surfaces finishes to B.A. 25Ra microinch
- Push and lock type handle (DRASTAR patent #10-1086199)mounted
- Threadless type: enhanced particle prevention by adopting the locking-plate seal system (DRASTAR patent #10-0753280)
- All works of welding, assembly, test and cleaning are performed in class 100 and class 10 clean-rooms
- Design proof pressure: 150% of maximum rated
- Applicable for hook-up line of Semiconductor process

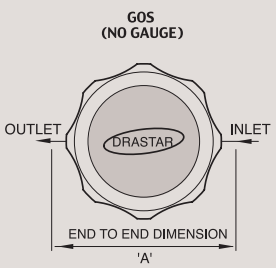
Each product is manufactured taking into consideration of the best safety and easy manipulation. However in order to use the regulator in most safe, effective, precise and smooth way and prolong its life time, you are recommended to use the actual pressure within the range of 25% ~ 75% of its rated pressure.

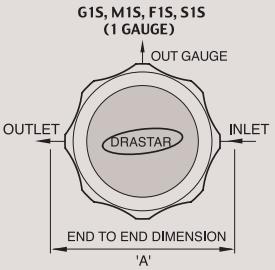
INSTALLATION DIMENSIONS

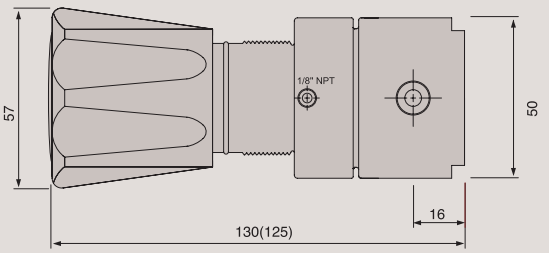
METRIC EQUIVALENTS ARE IN PARENTHESES

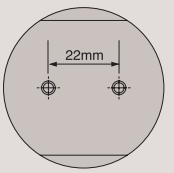
■ **GAUGE PORT OPTIONS**

1/4″ & 3/8″

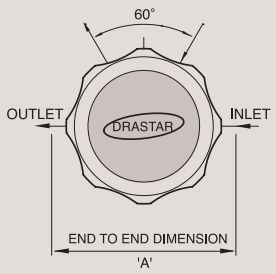


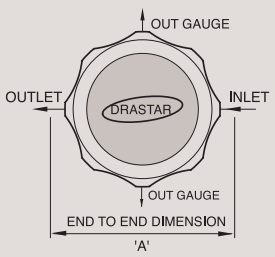




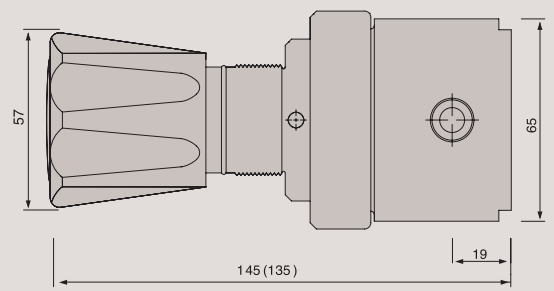


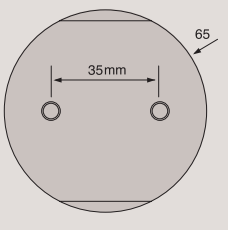
M5 x 0.8P Taps
DP 8mm





1/2″ & 3/4″





M6 x 1.0P Taps
DP 8mm

ORDERING INFORMATION

DRA700 - A 025 - H P S - 4L - G0S

BASIS SERIES

BODY MATERIAL
A = 316L, B.A 15Ra
B = 316L, E.P. 10Ra

B.A.= Brigth Annealed., E.P.= Electropolished.

OUTLET PRESSURE RANGE
025 = 1-25psi (.1-1.7bar)
050 = 1-50psi (.1-3.5bar)
100 = 1-100psi (.1-7bar)
250 = 1-250psi (.2-17bar)

MAX. INLET PRESSURE
H = 3600psi(250bar)
L = 600psi(42bar)

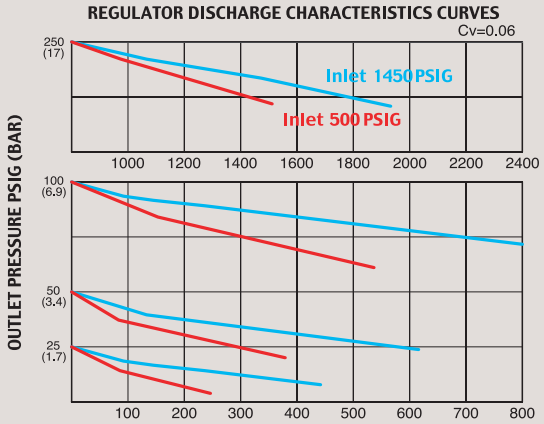
SEAT MATERIAL
P = PCTFE
T = Teflon

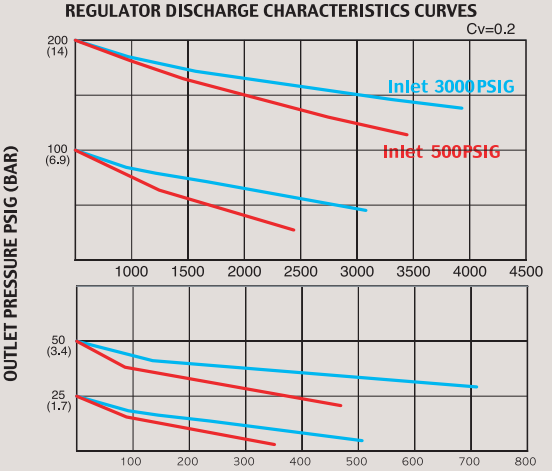
GAUGE PORTS OPTIONS — **Gauge Ports**
G0S = None 0
G1S = 1/4″ H.P.I.C 1
G2S = 1/4″ H.P.I.C 2
G2B = 1/4″ H.P.I.C 2
M1S = 1/4″ Male Sw. 1
M2S = 1/4″ Male Sw. 2
M2B = 1/4″ Male Sw. 2
F1S = 1/4″ Femle Sw. 1
F2S = 1/4″ Femle Sw. 2
F2B = 1/4″ Femle Sw. 2

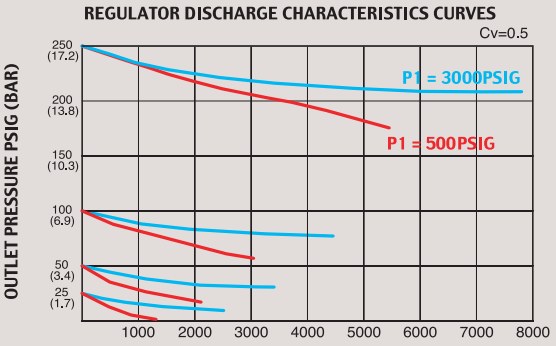
INLET / OUTLET PORTS SIZE — **Type "A" ±3.0mm**
4L = 1/4″ Lock 105mm
6M= 6mmLock 105mm
8L = 3/8″ Lock 115mm
2L = 1/2″ Lock 150mm
3L = 3/4″ Lock 150mm

FLOW CAPACITY
S = Cv 0.06 Standard (Inlet 3000psi) (1/4″)
O = Cv 0.2 Optional (Inlet 500psi) (1/4″)
S = Cv 0.2 Standard (3/8″)
S = Cv 0.5 Standard (1/2″)
O = Cv 1.0 Optional (1/2″)
S = Cv 1.2 Standard (3/4″)

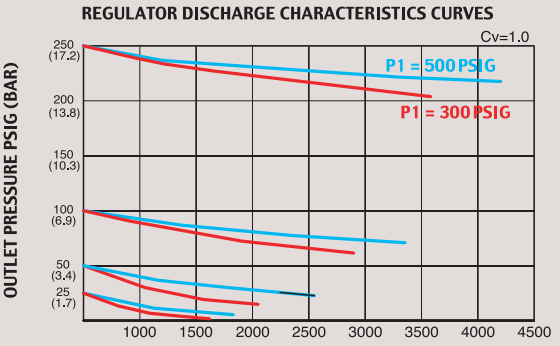
FLOW CHART





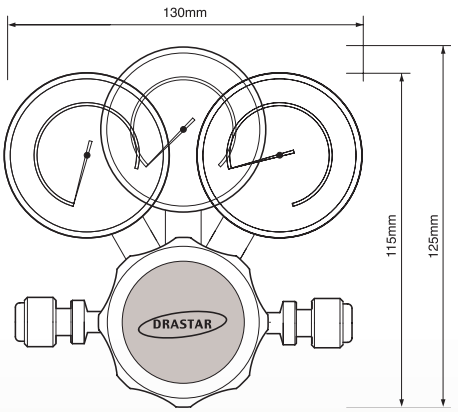


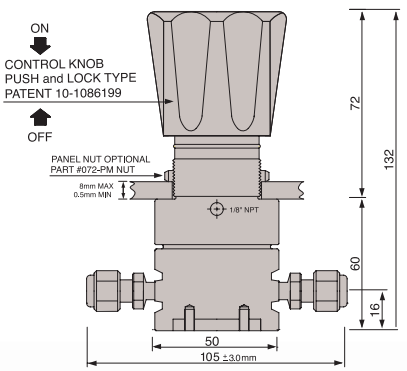
FLOW RATE – L/MIN AIR

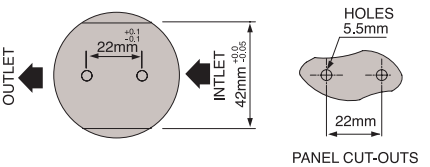


FLOW RATE – L/MIN AIR

DRA700 Series 1/4″ & 3/8″







DRA700 Series 1/2″ & 3/4″