

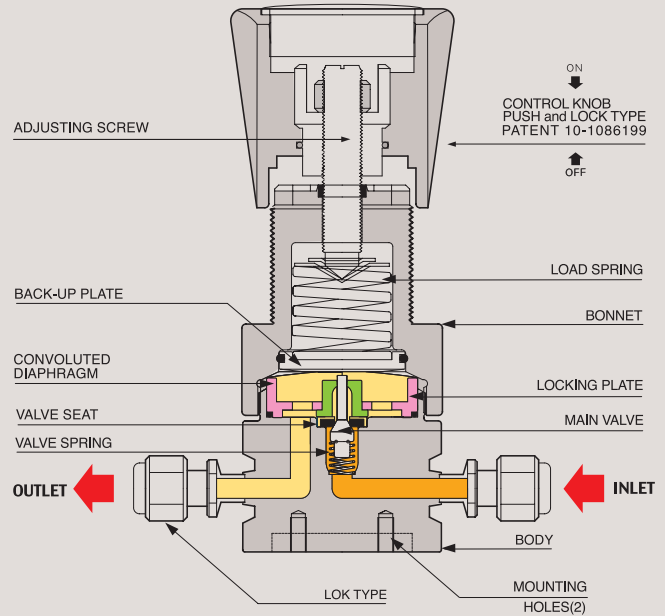
DRA 700 S E R I E S

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")

DRA700 시리즈는 내부 표면을 B.A. 25Ra급으로 처리하여 최적의 세정과 성능을 갖추고 Hook-up Line, Bulk Gas Line 및 고순도 가스등에 적합한 경제적인 Pressure Reducing Regulator입니다.

- 반도체 생산 라인 등에 적합한 제품으로 내부 표면은 B.A. 25Ra 등급으로 처리하였습니다.
- Locking-plate seal system (당사 특허 #10-0753280) 적용으로 파 티클(particle) 방지 기능이 더욱 강화되었습니다.
- 입구 압력은 3600psig (250bar) or 600psig (42bar)이고 출구압력은 모델 에 따라 5psig (0.3bar)에서 최대 250psig (17bar)까지 사용 가능하고, 용 도에 따라 2-ports, 3-ports 또는 4-ports를 선택 가능합니다.
- 조립, 용접, 실험과 세정까지의 모든 공정은 100-class와 10-class 크린룸에서 작업이 이루어 집니다.
- 사용 중 가스라인이나 외부의 미세 진동 등으로 인하여 초기 압력 셋 팅 값이 미세하게 변동하는 현상을 완전히 해결한 당사 Push and Lock 조절 손잡이 (당사 특허 # 10-1086199)를 적용하여 사용하기에 더욱 편리합니다. 조절 손잡이를 누르면 (lock) 압력 셋팅 값이 변하는 것을 완전히 방지할 수 있고, 손잡이를 앞으로 당기면 (unlock) 자유롭게 원 하는 압력으로 다시 셋팅 할 수 있습니다.

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

관장사항

각 제품들은 최고의 안전성과 쉬운 조작성을 고려하여 제작되었습니다. 그러나 가장 안전하고 효율적인 Regulator 사용을 위해서는 실제 사용 압력을 각각 모델의 사용 압력에 25% ~ 75% 이내에서 사용하면 가장 이상적인 압력을 사용할 수 있습니다. 정밀하고 원활한 작동과 제품의 수명 연장을 위해서는 각 모델의 사용 범위 내에서 사용하기를 적극 권장합니다.

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.

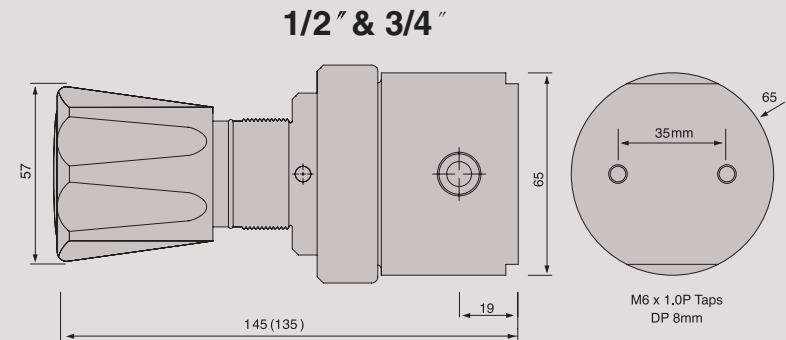
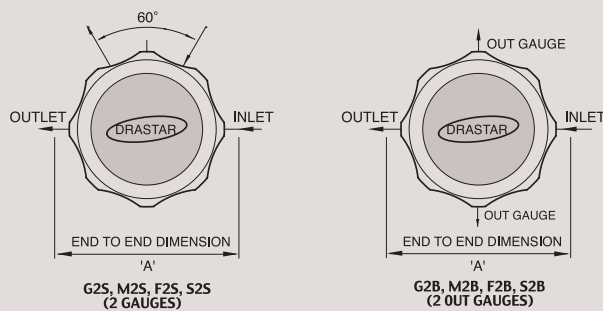
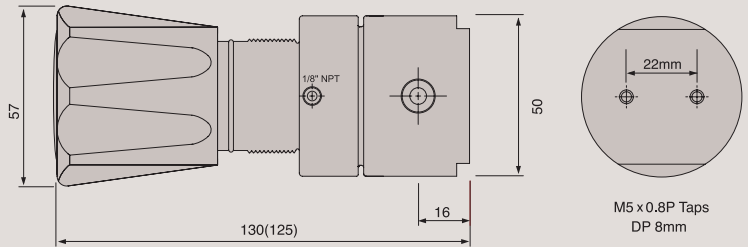
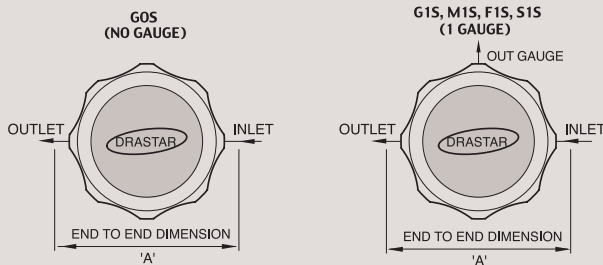
REFERENCE

This catalogue is printed as of January 2018, and the dimensions and/or specifications in this catalogue can be changed without prior notice in the course of constant upgrading and improvement of our products.

INSTALLATION DIMENSIONS
METRIC EQUIVALENTS ARE IN PARENTHESES

■ GAUGE PORT OPTIONS

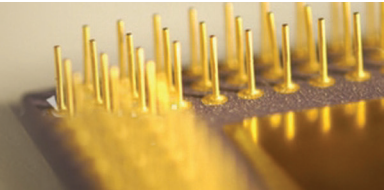
1/4" & 3/8"



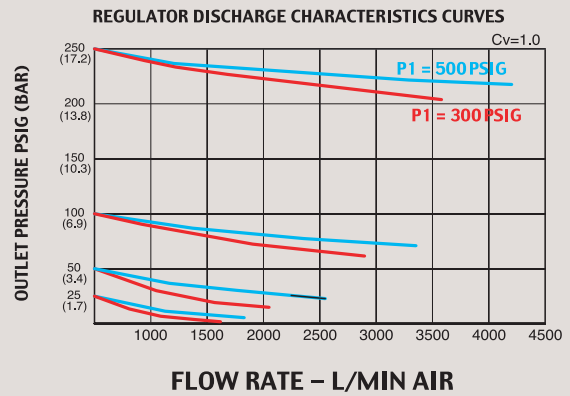
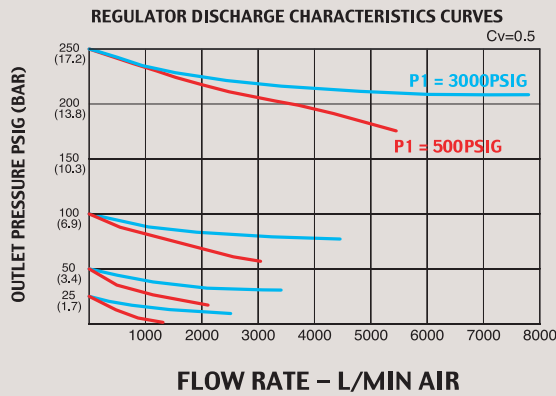
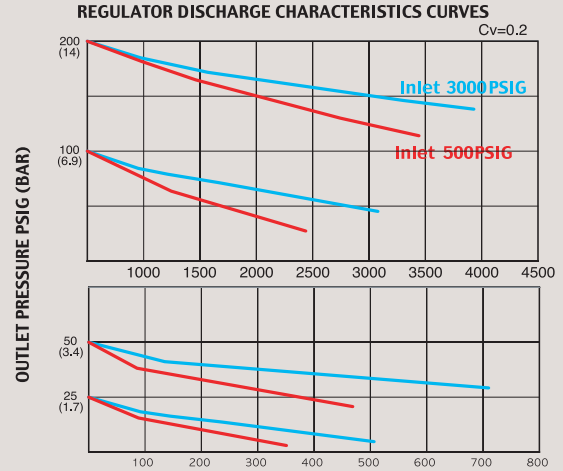
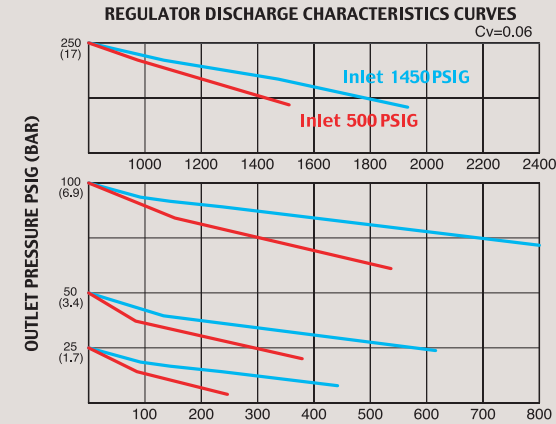
ORDERING INFORMATION

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

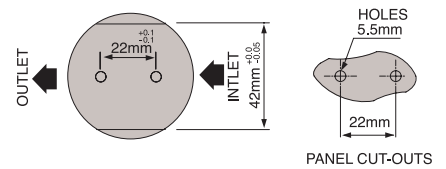
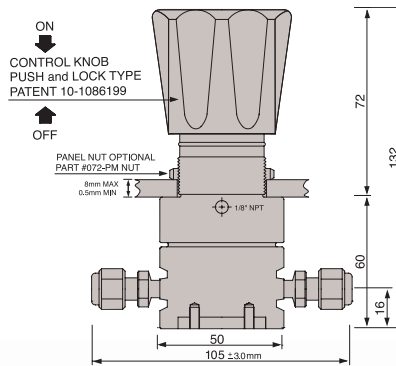
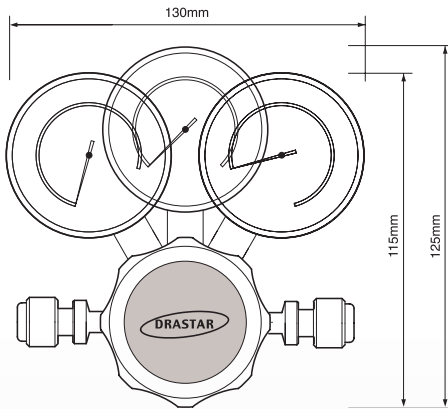
<p>BASIS SERIES</p>	<p>BODY MATERIAL A = 316L, B.A 15Ra B = 316L, E.P. 10Ra B.A.= Brigh Annealed., E.P.= Electropolished.</p>	<p>OUTLET PRESSURE RANGE 025 = 1-25psi (.1-1.7bar) 050 = 1-50psi (.1-3.5bar) 100 = 1-100psi (.1-7bar) 250 = 1-250psi (.2-17bar)</p>	<p>MAX. INLET PRESSURE H = 3600psi(250bar) L = 600psi(42bar)</p>	<p>SEAT MATERIAL P = PCTFE T = Teflon</p>	<p>GAUGE PORTS OPTIONS</p> <table border="0"> <thead> <tr> <th></th> <th style="text-align: right;">Gauge Ports</th> </tr> </thead> <tbody> <tr><td>G0S = None</td><td style="text-align: right;">0</td></tr> <tr><td>G1S = 1/4" H.P.I.C</td><td style="text-align: right;">1</td></tr> <tr><td>G2S = 1/4" H.P.I.C</td><td style="text-align: right;">2</td></tr> <tr><td>G2B = 1/4" H.P.I.C</td><td style="text-align: right;">2</td></tr> <tr><td>M1S = 1/4" Male Sw.</td><td style="text-align: right;">1</td></tr> <tr><td>M2S = 1/4" Male Sw.</td><td style="text-align: right;">2</td></tr> <tr><td>M2B = 1/4" Male Sw.</td><td style="text-align: right;">2</td></tr> <tr><td>F1S = 1/4" Femle Sw.</td><td style="text-align: right;">1</td></tr> <tr><td>F2S = 1/4" Femle Sw.</td><td style="text-align: right;">2</td></tr> <tr><td>F2B = 1/4" Femle Sw.</td><td style="text-align: right;">2</td></tr> </tbody> </table>		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	<p>INLET / OUTLET PORTS SIZE Type "A" ±3.0mm</p> <table border="0"> <tbody> <tr><td>4L = 1/4" Lock</td><td style="text-align: right;">105mm</td></tr> <tr><td>6M= 6mmLock</td><td style="text-align: right;">105mm</td></tr> <tr><td>8L = 3/8" Lock</td><td style="text-align: right;">115mm</td></tr> <tr><td>2L = 1/2" Lock</td><td style="text-align: right;">150mm</td></tr> <tr><td>3L = 3/4" Lock</td><td style="text-align: right;">150mm</td></tr> </tbody> </table>	4L = 1/4" Lock	105mm	6M= 6mmLock	105mm	8L = 3/8" Lock	115mm	2L = 1/2" Lock	150mm	3L = 3/4" Lock	150mm	<p>FLOW CAPACITY</p> <table border="0"> <tbody> <tr><td>S = Cv 0.06 Standard (Inlet 3000psi) (1/4")</td></tr> <tr><td>O = Cv 0.2 Optional (Inlet 500psi) (1/4")</td></tr> <tr><td>S = Cv 0.2 Standard (3/8")</td></tr> <tr><td>S = Cv 0.5 Standard (1/2")</td></tr> <tr><td>O = Cv 1.0 Optional (1/2")</td></tr> <tr><td>S = Cv 1.2 Standard (3/4")</td></tr> </tbody> </table>	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")
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FLOW CHART



DRA700 Series 1/4" & 3/8"



DRA700 Series 1/2" & 3/4"

