

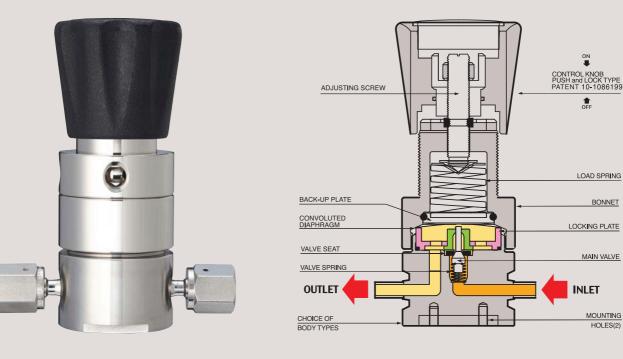
Ultra High Purity Low Pressure Reducing Regulators



DRA100 SERIES

DRA100 SERIES





DRA100(Non-tied-type)

UHP Low Pressure VCR type (1/4" 3/8" 1/2" 3/4")

DRA100 시리즈는 초 고순도 반도체 제조라인, 특수 가스 라인, Bulk Gas Line, 기타 설비 라인 등에 적합하도록 개발된 저압용 UHP VCR Type Pressure Reducing regulator입니다.

- •내부 표면을 B.A. 25Ra, E.P. 10Ra, 또는 5Ra microinch까지 처리하여 반도 체 생산 hook-up 라인 등에 적합합니다.
- •입구 압력은 3,000psig(210bar) or 600psig(42bar)이고 출구압력은 5psig(0.3bar)에서 최대 250psig(17bar)까지 사용 가능하며, 용도에 따라 2-ports, 3-ports, 4-ports 사용 가능합니다.
- •용접, 조립, 실험, 세정 등 모든 공정은 100-class와 10-class 크린룸에서 작업합니다.
- Locking-plate seal system (당사 특허 No. 10-0753280) 적용으로 파티클 (particle) 방지 기능이 더욱 강화되었습니다.
- 사용 중 가스라인이나 외부의 미세 진동 등으로 인하여 초기 압력 셋팅 값이 미세하게 변동하는 현상을 완전히 해결한 Push and Lock 조절 손 잡이 (당사 특허 # 10-1086199)를 적용하여 사용하기에 더욱 편리합니 다. 조절 손잡이를 누르면 (lock) 압력 셋팅 값이 변하는 것을 완전히 방 지할 수 있고, 손잡이를 앞으로 당기면 (unlock) 자유롭게 원하는 압력으 로 다시 셋팅 할 수 있습니다.

DRA 100 Series is an UHP low pressure reducing regulator with B.A. 25Ra, E.P. 10Ra, or E.P. 5Ra surface finish and applicable for high purity semiconductor manufacturing, specialty gas, and bulk gas lines as well as other facilities. Inlet pressures are 3,000psig(210bar) or 600psig(42bar) and outlet pressure are 5psig(0.3bar) up to 250psig (17bar).

With DRASTAR's patented (patent #10-1086199) "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

- 1/4", 3/8", 1/2", and 3/4" VCR type
- Non-tied diaphragm type
- Surfaces finishes to B.A. 25Ra, E.P. 10 Ra or E.P. 5 Ra 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 Semiconductor manufacturing, specialty gases, bulk gas line and other facilities

권장사항

각 제품들은 최고의 안전성과 쉬운 조작성을 고려하여 제작되었습니다. 그 러나 가장 안전하고 효율적인 Regulator 사용을 위해서는 실제 사용 압력을 각각 모델의 사용 압력에 25%~75% 이내에서 사용하면 가장 이상적인 압 력을 사용할 수 있습니다. 정밀하고 원활한 작동과 제품의 수명 연장을 위 해서는 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 $25\% \sim 75\%$ of its rated pressure.

REFERENCE

Contents in the catalogue including specifications, performance data, etc. can be changed without prior notice in the course of continuous upgrading and improvement of the products. 상서와 성능데이터 등 카다록에 있는 내용은 당사 제품의 지속적인 업그레이드 및 개선의 과정에서 시전 예고 없이 변경될 수 있습니다.

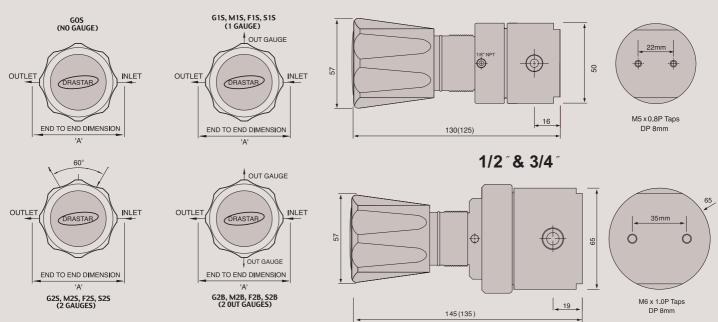
(DRASTAB) DRASTER CO., LTD.

INSTALLATION DIMENSIONS METRIC EQUIVALENTS ARE IN PARENTHESES

GAUGE PORT OPTIONS

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1/4 " & 3/8 "

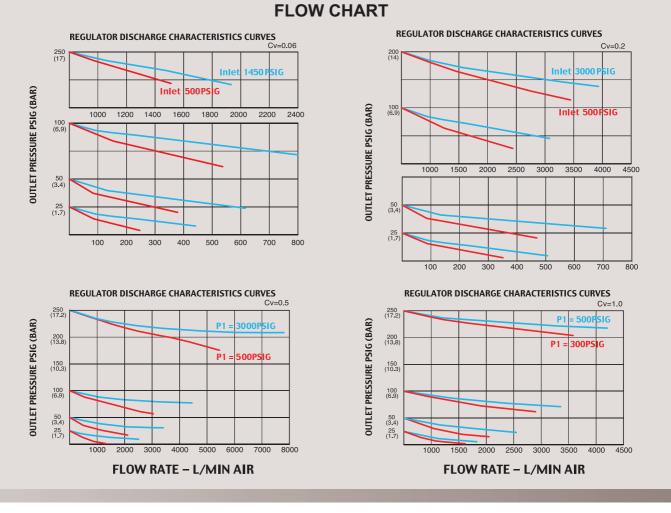


ORDERING INFORMATION

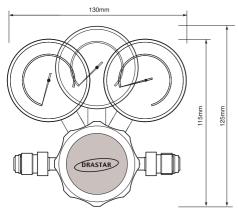
DRA100 - A 025 S - H P S - 4MS - G0S

BASIS SERIES	GAUGE PORTS OPTIONS Gauge Ports GOS = None0 F1S = 1/4" Female Swivel1
BODY MATERIAL & SURFACE FINISH A = 316L, B.A. 25Ra B = 316L, E.P. 10Ra C = 316L, E.P. (P.E.P) 5Ra D = 316L, E.P. VAR 10Ra	G1S = 1/4" H.P.I.C1 F2S = 1/4" Female Swivel2 G2S = 1/4" H.P.I.C2 F2B = 1/4" Female Swivel2 G2B = 1/4" H.P.I.C2 M2S = 1/4" Male Swivel2 M1S = 1/4" Male Swivel. M2B = 1/4" Male Swivel2
$E = 316L, E.P. VAR(P.E.P) \dots 5Ra$	INLET / OUTLET PORTS SIZE & Type "A" ±1.0mm
B.A.= Brigth Annealed., E.P.= Electropolished.	4HP = 1/4" H.P.I.C 4MS & 4FS = 1/4" Male, Female Swivel
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)	4ML & 4FL = 1/4" Male, Female Swivel 114mm 8MS & 8FS = 3/8" Male, Swivel 120mm 8ML & 8FL = 3/8" Male, Female Swivel 140mm 2MS & 2FS = 1/2" Male, Female Swivel 140mm 2ML & 2FL = 1/2" Male, Female Swivel 140mm 2ML & 2FL = 1/2" Male, Female Swivel 140mm 2FSS 1/2 = Male, Female Swivel 120mm
DIAPHRAGM MATERIAL S = STS 316L H = Hastelloy-C	3MS & 3FS = 3/4" Male, Female Swivel 160mm 3ML & 3FL = 3/4" Male, Female Swivel 000mm IMF = In Port Male / Out Port Female 000mm IFM = In Port Female / Out Port Male 000mm 4TS = 1/4" Tube Stubs 94mm
MAX. INLET PRESSURE H = 3000psi(210bar)	2TS = 1/2" Tube Stubs 120mm 3TS = 3/4" Tube Stubs 160mm
L = 600psi(42bar)	FLOW CAPACITY S = Cv 0.06 Standard (Inlet 3000psi) (1/4")
SEAT MATERIAL P = PCTFE T = Teflon V = Vespel	$O = Cv \ 0.2 \ Optional \ (1/4'')$ 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'')

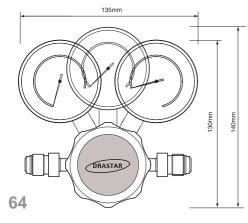


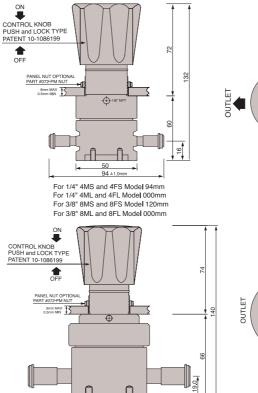


DRA100 Series 1/4" & 3/8"



DRA100 Series 1/2" & 3/4"





For 1/2" Model 2MS and 2FS 142mm For 1/2" Model 2ML and 2FL 180mm For 3/4" Model 3MS and 3FS 160mm For 3/4" Model 3ML and 3FL 000mm

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