

Core Valve

Manifolds Diaphragm & Bellows Valve





코어밸브(UHP, NPT, PT)

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드라스타 코어밸브는 기존의 다이어프램 밸브, 벨로우즈 밸브, 니들 밸브의 장점만을 통합하여 초 고순도 반도체 제조용 특수 가스 라인, Bulk Gas Line, 기타 설비 라인 등에 적합하도록 드라스타가 독자 개발한 새로운 개념의 밸브입니다 (드라스타 특허 10-1510987)

- 반도체 생산 hook-up line 및 부식성 가스라인 등에 사용할 수 있도록 내부 표면은 AP or B.A. 25Ra E.P. 10Ra, 5Ra급까지 처리하였습니다.
- 기존밸브와 달리 미세 정밀조정이 가능하고, 조절핸들 락 장치 (Pull & Lock: 특허 10-1370537)가 내장되어 압력 조절 후에 조절핸들이 돌아가는 것을 사전에 방지해 주는 신제품입니다.
- 작동이 쉽고 20bar(290psig)에서 최대 750bar(11,000psig)의 초 고압과 정밀 배관라인에서 사용하기에 적합한 제품입니다.

DRASTAR Core Valve is an advanced concept of valve that Drastar developed for ultra-high purity specialty gases extensively used in the semiconductor manufacturing line, bulk gas line and other facility lines. Core valves have integrated and improved all the merits of diaphragm valve, bellows valve and needle valve to best work (Drastar Patent #10-1510987).

- Surface finishes to AP or B.A. 25Ra E.P. 10Ra or 5Ra
- Improved for micro and precise adjustment
- Pull and lock device (Drastar's patent #10-1370537) prevents the knob's self-turning
- Easy operation
- Applicable for 20bar(290psig) ~ max 750bar(11,000psig)

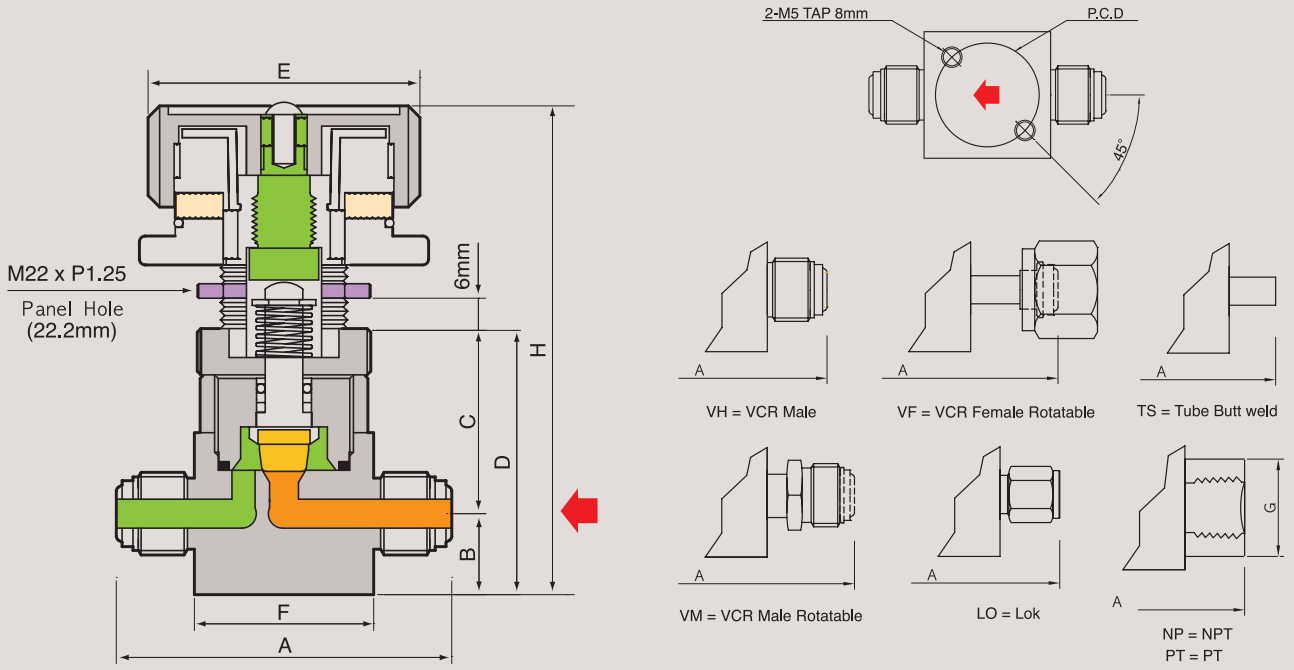
SPECIFICATIONS

| | | | |
|-----------------------------|--|------|------|
| Ports Size | 1/4" | 1/2" | 3/4" |
| Cv Value | 0.4 | 1.2 | 2.8 |
| Grade | A.P(Ry ≤ 25μm), B.A(Ry ≤ 3.0μm), E.P(Ry ≤ 0.7μm) | | |
| Seat Material (DISK) | PCTFE / Vespel | | |
| Body Material | Stainless Steel 316L or Stainless Steel 316L Double melt | | |
| Handle Material | Aluminum | | |
| Max. Working Pressure Range | 20, 50, 250, 500, 750(Bar) | | |
| Operating Temperature | -40 °C + 70 °C Standard, +250° C, +500° C Optional | | |

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
METEIC EQUIVALENTS ARE IN PARENTHESSES



ORDERING INFORMATION

DV - S - 020 - VH - AP - 4

| BASIS SERIES NUMBER | BODY MATERIAL | WORKING PRESSURE | CONNECTION | | | BODY POLISHING | BODY SIZE |
|------------------------------|-------------------------|--|---|-------|-------|--|----------------------|
| 20, 50bar PCTFE | S-ST316L Single melt | 020 - 20bar 050 - 50bar | VH = VCR Male VM = VCR Male Rotatable VF = VCR Female Rotatable | | | AP = A,P (Ry ≤ 25μm) Machining Finish | 4 = 1/4" 8 = 3/8" |
| 250, 500 750bar Vespel | D-ST316L Double melt | 250 - 250bar 500 - 500bar 700 - 700bar | TS = Tube Butt weld LO = Lok NP = NPT PT = PT | | | BA = B,A (Ry ≤ 3,0μm) Machining Finish EP = E,P (Ry ≤ 0,7μm) Electro Polishing Finish | 2 = 1/2" 3 = 3/4" |
| | Orifice | 1/4" | 3/8" | 1/2" | 3/4" | | |
| | | 0.3 | 0.3 | 0.7 | 0.7 | | |
| | | 4.5mm | | 7.0mm | 7.0mm | | |

STANDARD MODEL SERIES

| MODEL | SIZE | A | B | C | D | E | F | G | H | P.C.D |
|-------------------------|------|------|----|------|------|----|----|-------|----|-------|
| VH=VCR Male | 1/4" | 58 | 14 | 33.5 | 47.5 | 45 | 31 | - | 87 | 25.4 |
| | 1/2" | A | 16 | C | D | 45 | 38 | - | H | 28 |
| | 3/4" | A | 22 | C | D | 45 | - | - | H | 28 |
| VM=VCR Male Rotatable | 1/4" | 70.5 | 14 | 33.5 | 47.5 | 45 | 31 | - | 87 | 25.4 |
| | 1/2" | A | 16 | C | D | 45 | 38 | - | H | 28 |
| | 3/4" | A | 22 | C | D | 45 | - | - | H | 28 |
| VF=VCR Female Rotatable | 1/4" | 77.8 | 14 | 33.5 | 47.5 | 45 | 31 | - | 87 | 25.4 |
| | 1/2" | A | 16 | C | D | 45 | 38 | - | H | 28 |
| | 3/4" | A | 22 | C | D | 45 | - | - | H | 28 |
| TS=Tube Butt wide | 1/4" | 40 | 14 | 33.5 | 47.5 | 45 | 31 | 6.25 | 87 | 25.4 |
| | 1/2" | A | 16 | C | D | 45 | 38 | 12.7 | H | 28 |
| | 3/4" | A | 22 | C | D | 45 | - | 19.05 | H | 28 |
| LO=Lok | 1/4" | 66 | 14 | 33.5 | 47.5 | 45 | 31 | - | 87 | 25.4 |
| | 1/2" | A | 16 | C | D | 45 | 38 | - | H | 28 |
| | 3/4" | A | 22 | C | D | 45 | - | - | H | 28 |
| NP=NPT PT=PT | 1/4" | 58 | 14 | 33.5 | 47.5 | 45 | 31 | 22 | 87 | 25.4 |
| | 1/2" | A | 16 | C | D | 45 | 38 | - | H | 28 |
| | 3/4" | A | 22 | C | D | 45 | - | - | H | 28 |

