



VACUUM-PROOF DIAPHRAGM VALVE



DV Series

耐真空隔膜凡而

DV300

Size :80mm(3")~250mm(10")

MATERIALS : UPVC,PP,PPG .CPVC,PVDF

【專利品】台專新型第18490號

PATNET:NO, 18490

Note: Standard Type Diaphragm valv in size

15mm(1/2")-65mm(2 1/2")can be used under vaccum

※角牙、角牙母、心仔、壓板、螺絲、螺母、材質如用SUS-304或SUS-316為特殊規格、價格另計。

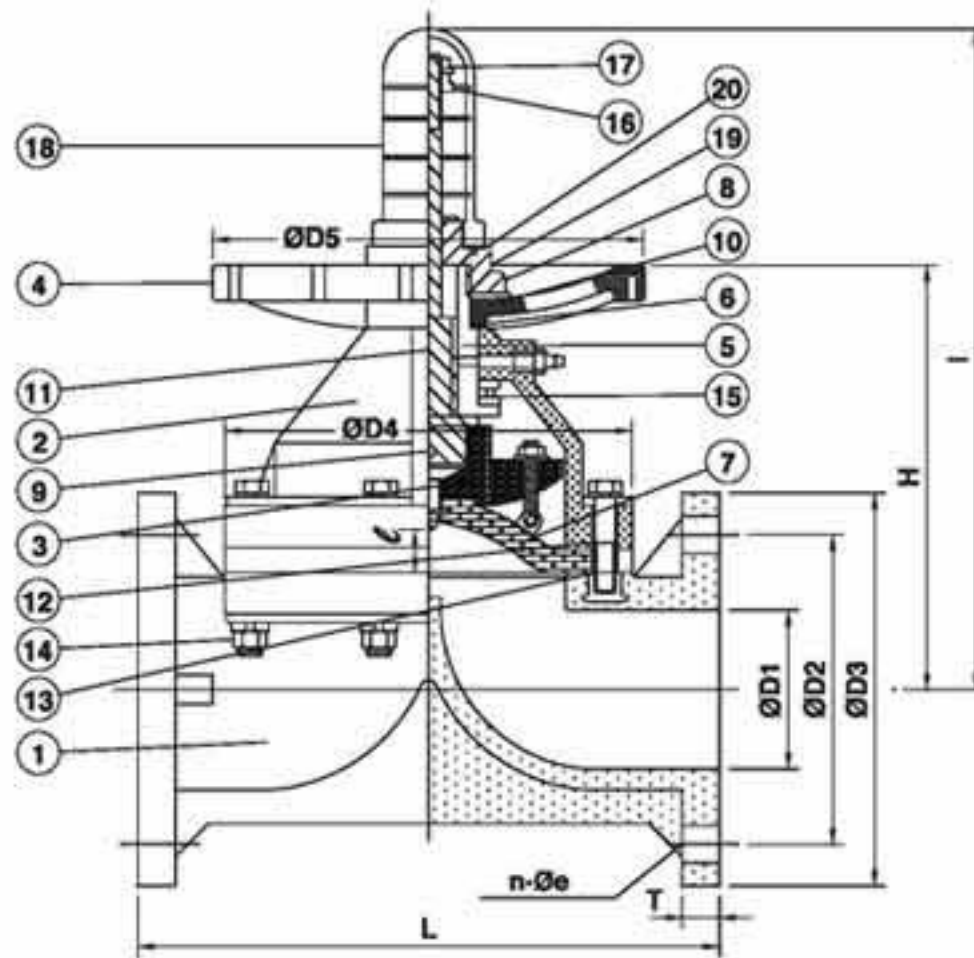
※PVDF隔膜閥上蓋(BONNET)標準材質使用PPG，如須使用PVDF上蓋為特殊規格，價格另計。

FEATURES

- Concerning the standard diaphragm valve, the inserted metal of the diaphragm frequently comes out, when exposed to vacuum, therefore, the valve cannot function at all, S.H.VACUUM PROOF DIAPHRAGM VALVE has solved this problem and has won favorable valuation in various fields.
- S.H. VACUUM-PROOF DIAPHRAGM VALVE has more inserted matels of the diaphragm. Tghe diaphragm is designed forbeing hanged from from the compressor (Patent). This prevents the diaphragm from being drawn towards the valve seat (downwards) by vacuum. This valve can endure the perfect vacuum. (-760m/m Hg)
- This VALVE can also be used under pressure.As both body and bonnet are thick and monobloc moldings with vacuum resistance, this can be used not only under vaccum but under pressure.
(3kg/cm2 (40lb/in2)-7kg/cm2(100lb/in2)

Reference(Unit: m/mHg)

| Nom. Size m/m(Inch) | STANDARD TYPE | VACUUM TYPE | Ball Valv |
|------------------------|---------------|--------------|-----------|
| | Rubber Dia. | Rubbers dia. | |
| 15(1/2") | -760 | - | -760 |
| 20(3/4") | -760 | - | -760 |
| 25(1") | -760 | - | -760 |
| 40(1 1/2") | -760 | - | -760 |
| 50(2") | -760 | - | -760 |
| 65(2 1/2") | -760 | - | -760 |
| 80(3") | -650 ~ -760 | -760 | - |
| 100(4") | -500 ~ -600 | -760 | - |
| 125(5") | -360 ~ -470 | -760 | - |
| 150(6") | -250 ~ -360 | -760 | - |
| 200(8") | -100 ~ -200 | -760 | - |
| 250(10") | below -50 | -760 | - |



DIMENSIONS TABLE

| JIS | | | | | | | | | | | | | PRESS Test for Assembly (at 20°C) | | | | |
|------------------------|-----|-----|-----|----|----------------------|-----|-----|-----------|-----|----|-----|-----|--|----|-----|------|------|
| Unit: mm | | | | | | | | | | | | | Test Pressure Unit: kg/cm ² | | | | |
| Nom. Size m/m(inch) | D1 | D2 | D3 | e | n No. of holes | D4 | D5 | Lift ℓ | L | T | H | I | Rubber Diaphragm | | | | |
| | | | | | | | | | | | | | UPVC | PP | PPG | CPVC | PVDF |
| 80(3") | 78 | 150 | 185 | 19 | 8 | 215 | 202 | 34 | 280 | 22 | 218 | 293 | 10 | 10 | 10 | 10 | 10 |
| 100(4") | 100 | 175 | 210 | 19 | 8 | 255 | 241 | 54 | 340 | 22 | 261 | 370 | 10 | 10 | 10 | 10 | 10 |
| 125(5") | 125 | 210 | 250 | 23 | 8 | 320 | 274 | 72 | 410 | 24 | 308 | 412 | 7 | 7 | 7 | 7 | 7 |
| 150(6") | 148 | 240 | 280 | 23 | 8 | 385 | 395 | 72 | 480 | 30 | 334 | 471 | 7 | 7 | 7 | 7 | 7 |
| 200(8") | 198 | 290 | 330 | 23 | 12 | 430 | 395 | 96 | 570 | 30 | 419 | 625 | 4 | 4 | 4 | 4 | 4 |
| 250(10") | 248 | 355 | 400 | 25 | 12 | 540 | 555 | 132 | 680 | 32 | 510 | 750 | 4 | 3 | 4 | 4 | 4 |

| ANSI | | | | | | | | | | | | | PRESS Test for Assembly (at 20°C) | | | | |
|------------------------|------|-------|-------|------|----------------------|-------|-------|-----------|-------|------|-------|-------|-----------------------------------|-----|-----|------|------|
| Unit: Inch | | | | | | | | | | | | | Test Pressure Unit: psi | | | | |
| Nom. Size m/m(inch) | D1 | D2 | D3 | e | n No. of holes | D4 | D5 | Lift ℓ | L | T | H | I | Rubber Diaphragm | | | | |
| | | | | | | | | | | | | | UPVC | PP | PPG | CPVC | PVDF |
| 80(3") | 3.07 | 6.00 | 7.52 | 0.75 | 4 | 8.46 | 7.95 | 1.34 | 10.40 | 0.75 | 8.50 | 11.54 | 150 | 150 | 150 | 150 | 150 |
| 100(4") | 3.94 | 7.50 | 9.02 | 0.75 | 8 | 10.04 | 9.49 | 2.13 | 12.95 | 0.91 | 10.28 | 14.57 | 150 | 150 | 150 | 150 | 150 |
| 125(5") | 4.92 | 8.50 | 10.00 | 0.87 | 8 | 12.60 | 10.79 | 2.83 | 16.14 | 0.94 | 12.13 | 16.22 | 105 | 105 | 105 | 105 | 105 |
| 150(6") | 5.83 | 9.51 | 10.98 | 0.87 | 8 | 15.16 | 15.55 | 2.83 | 18.90 | 1.18 | 13.15 | 18.54 | 105 | 105 | 105 | 105 | 105 |
| 200(8") | 7.80 | 11.75 | 13.50 | 0.87 | 8 | 16.93 | 15.55 | 3.78 | 22.44 | 1.26 | 16.40 | 24.61 | 60 | 60 | 60 | 60 | 60 |
| 250(10") | 9.76 | 14.25 | 15.98 | 0.98 | 12 | 21.26 | 21.85 | 5.20 | 26.77 | 1.26 | 20.08 | 29.53 | 60 | 45 | 60 | 60 | 60 |

| DIN | | | | | | | | | | | | | PRESS Test for Assembly (at 20°C) | | | | |
|------------------------|-----|-----|-----|----|----------------------|-----|-----|-----------|-----|----|-----|-----|--|----|-----|------|------|
| Unit: mm | | | | | | | | | | | | | Test Pressure Unit: kg/cm ² | | | | |
| Nom. Size m/m(inch) | D1 | D2 | D3 | e | n No. of holes | D4 | D5 | Lift ℓ | L | T | H | I | Rubber Diaphragm | | | | |
| | | | | | | | | | | | | | UPVC | PP | PPG | CPVC | PVDF |
| 80(3") | 78 | 160 | 200 | 18 | 8 | 215 | 202 | 34 | 310 | 22 | 218 | 293 | 10 | 10 | 10 | 10 | 10 |
| 100(4") | 100 | 180 | 220 | 18 | 8 | 255 | 241 | 54 | 350 | 25 | 261 | 370 | 10 | 10 | 10 | 10 | 10 |
| 125(5") | 125 | 210 | 250 | 18 | 8 | 320 | 274 | 72 | 400 | 24 | 308 | 412 | 7 | 7 | 7 | 7 | 7 |
| 150(6") | 148 | 240 | 285 | 23 | 8 | 385 | 395 | 72 | 480 | 30 | 334 | 471 | 7 | 7 | 7 | 7 | 7 |
| 200(8") | 198 | 290 | 340 | 23 | 8 | 430 | 395 | 96 | 600 | 32 | 419 | 625 | 4 | 4 | 4 | 4 | 4 |
| 250(10") | 248 | 350 | 395 | 23 | 12 | 540 | 555 | 132 | 680 | 32 | 510 | 750 | 4 | 3 | 4 | 4 | 4 |

※ Standard dimensions based on PVC material