
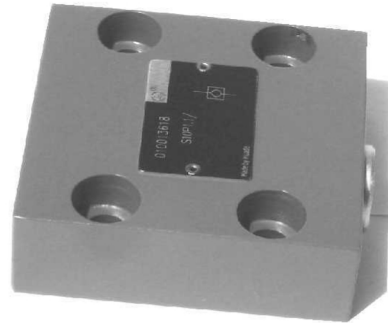


Features:

- Leakage-free closure in one direction
- 5 cracking pressure
- Subplate mouting

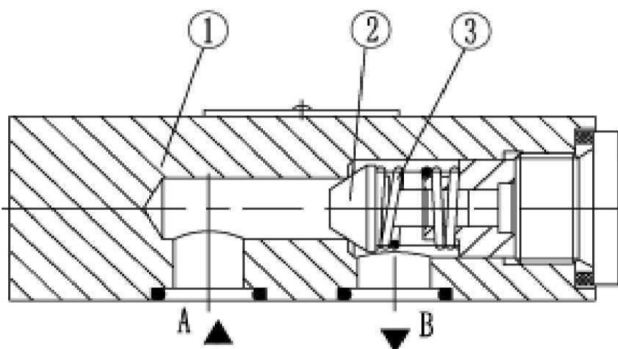
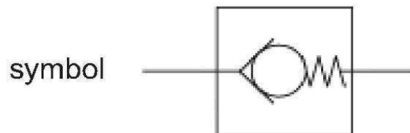

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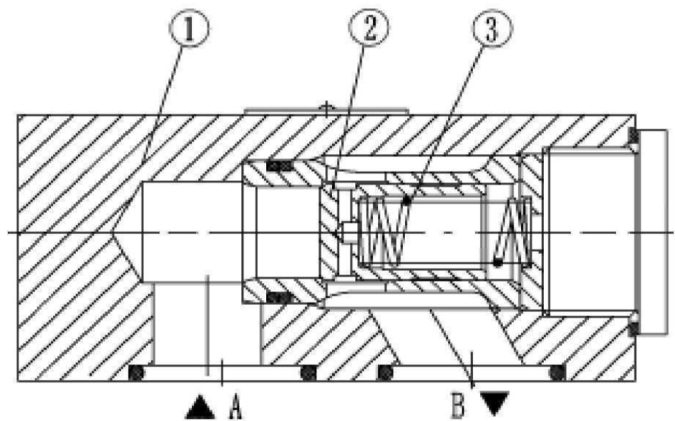
Function,section,symbol

The check valve type S has the task of, preferably closing a flow leakfree in one direction and to permit free flow in the opposite direction. It basically comprises of the housing (1), poppet (2) and the compression spring (3).

The stroke of the poppet (2), which is guided on its outside diameter, is limited by a mechanical stop. The built-in compression spring (3) supports the closing movement. Furthermore the compression spring (3) holds the poppet (2) in the closed position even when there is no flow through the valve.



Type S10P



Type S20, 30 P

Ordering details

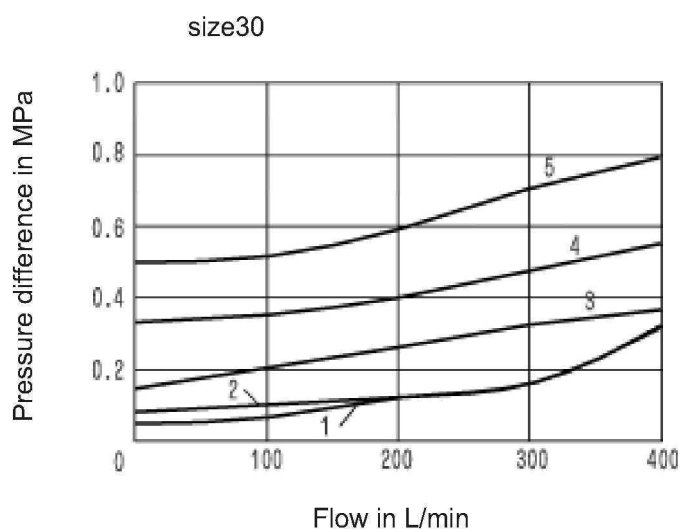
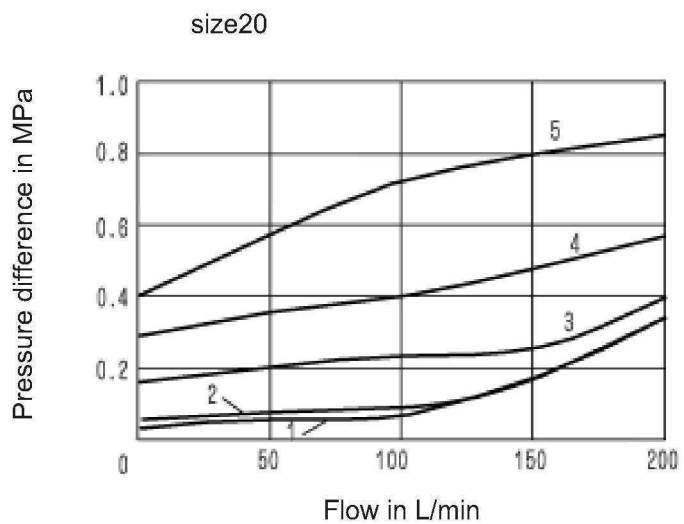
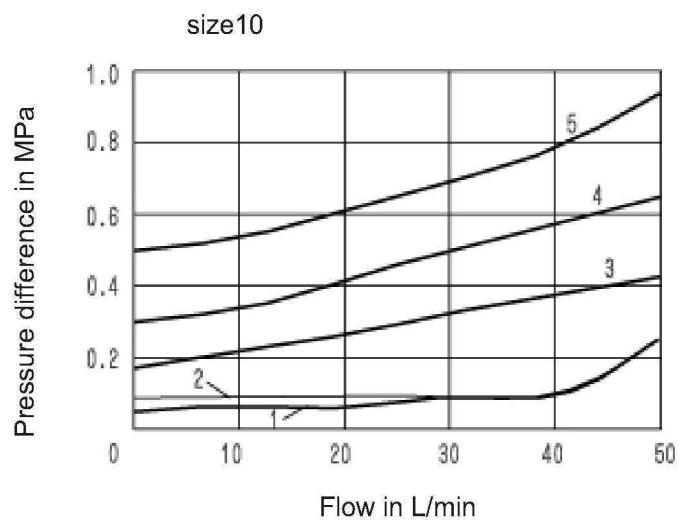
| | | | | | | |
|---|--|---|--|---|-----|---|
| S | | P | | 1 | B / | * |
|---|--|---|--|---|-----|---|

| | | | | | | |
|--------------------------------|--|--|--|----|--|--|
| Check valve =S | | | | | | Further details in clear text |
| Size | | | | | | No code = Mineral oils V = Phosphate ester |
| 10 =10 | | | | | | |
| 20 =20 | | | | | | |
| 30 =30 | | | | | | |
| Subplate mouting = P | | | | | | |
| Cracking pressure 0.02 MPa = 1 | | | | | | |
| Cracking pressure 0.05 MPa = 2 | | | | | | |
| Cracking pressure 0.15 MPa = 3 | | | | | | |
| Cracking pressure 0.3 MPa = 4 | | | | | | |
| Cracking pressure 0.5 MPa = 5 | | | | | | |
| | | | | 1= | | Series 1 (1 to 9: unchanged installation and connection dimensions) |

Technical data

| | | |
|---|--|---|
| Operating fluid | | mineral oils or phosphate ester |
| Operating pressure (MPa) | | 31.5 |
| Viscosity range (mm ² /s) | | 2.8~500 |
| Maximum flow (L/min) | | See curves |
| Cracking pressure (MPa) | | |
| Pressure fluid - temperature range (°C) | | -30~+80 |
| Degree of contamination | | maximum permissible degree of contamination of the pressure fluid is to NAS 1638 class 9. We, therefore, recommend a filter with a minimum retention rate of $\beta_{10} \geq 75$. |

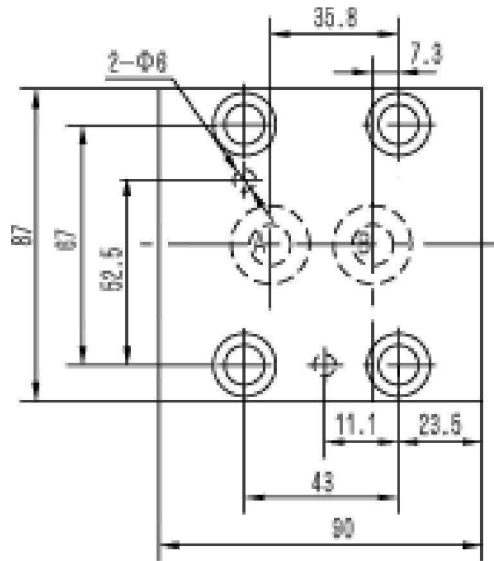
Characteristic curves (measured at $v = 41 \text{ mm}^2 / \text{s}$ and $t = 50 \text{ }^\circ\text{C}$)



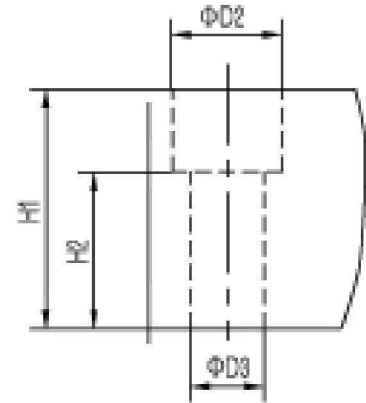
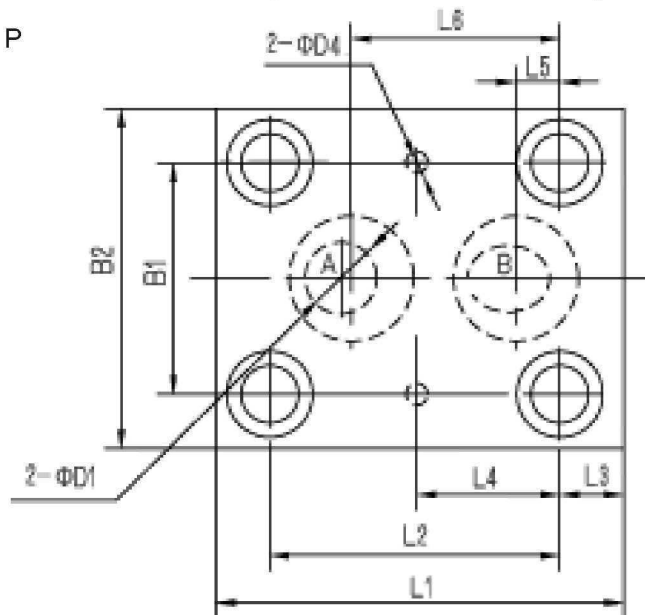
Unit dimensions

(Dimensions in mm)

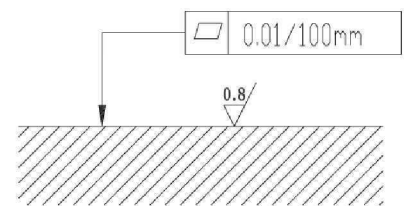
S 10 P



S 20.30 P



Required surface finish of mating piece



| Size | Valve fixing screws (GB/T70.1-2000) | O-ring for ports A, B |
|------|-------------------------------------|-----------------------|
| 10 | 4-M10X35-10.9 | 17.12X2.62 |
| 20 | 4-M14X55-10.9 | 28.17X3.53 |
| 30 | 4-M18X60-10.9 | 34.52X3.53 |

| Size | B1 | B2 | L1 | L2 | L3 | L4 | L5 | L6 | H1 | H2 | Φ D1 | Φ D2 | Φ D3 | Φ D4 |
|------|----|-----|-----|----|------|------|------|------|----|----|------|------|------|------|
| 20 | 65 | 95 | 114 | 81 | 18 | 40.5 | 13 | 59 | 52 | 35 | 20 | 24 | 16 | 6 |
| 30 | 92 | 130 | 154 | 92 | 43.5 | 46 | 20.5 | 71.5 | 70 | 36 | 28 | 29 | 20 | 6 |

Features:

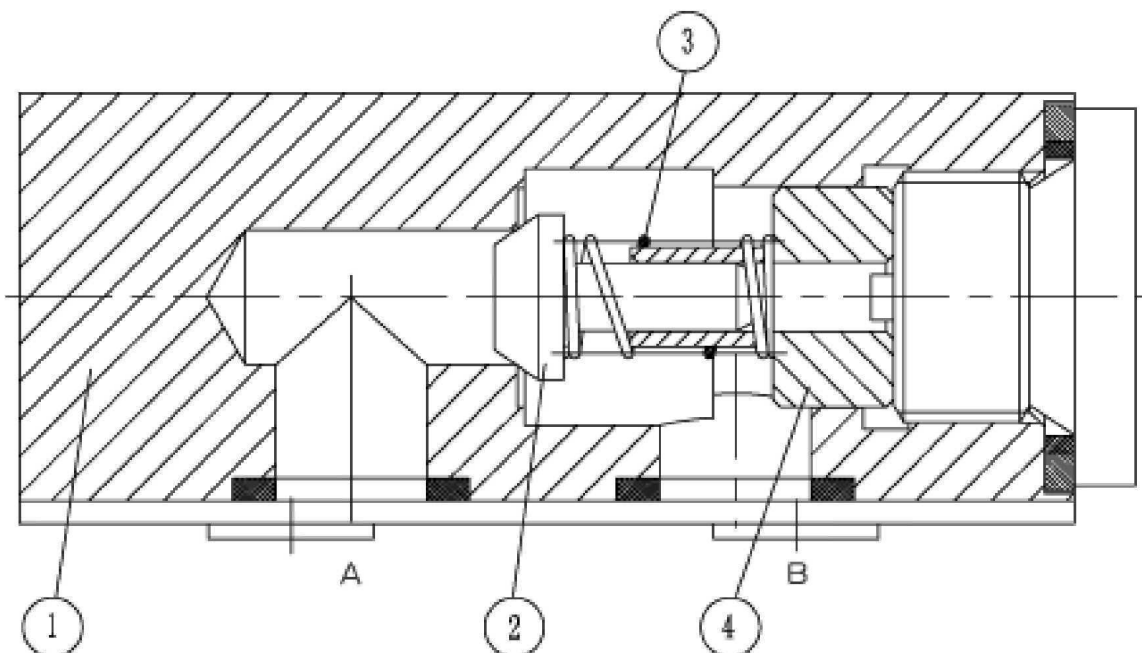
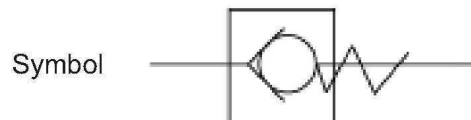
- Subplate connection
- Leakage-free closure in one direction



Description,section,symbol

The check valve type RVP has the task of, preferably closing a flow leakfree in one direction and to permit free flow in the opposite direction. It basically comprises of the housing (1), poppet (2) compression spring (3), and spring seat(4).

The stroke of the poppet (2), which is guided on its outside diameter, is limited by a mechanical stop. The built-in compression spring (3) supports the closing movement. Furthermore the compression spring (3) holds the poppet (2) in the closed position even when there is no flow through the valve.



1. Housing 2.Poppet 3. Spring 4. Spring seat

Ordering details

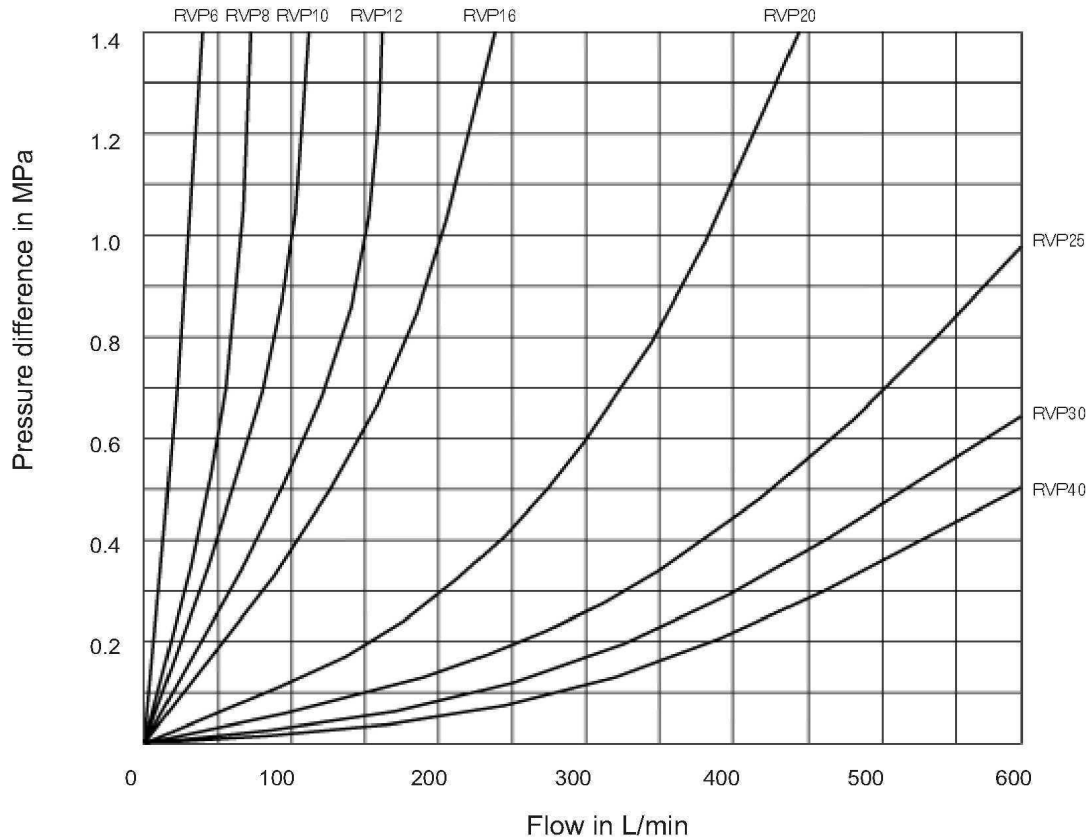
| | | | | | | | |
|-------------------|-----|---|--|-----|---|---|---|
| | RV | P | | 10 | B | / | * |
| Check valve | | | | | | | Further details in clear text |
| Subplate mounting | =P | | | | | | |
| Size | | | | | | | |
| 6 | =6 | | | | | | |
| 8 | =8 | | | | | | |
| 10 | =10 | | | | | | |
| 12 | =12 | | | | | | |
| 16 | =16 | | | | | | |
| 20 | =20 | | | | | | |
| 25 | =25 | | | | | | |
| 30 | =30 | | | | | | |
| 40 | =40 | | | | | | |
| | | | | 10= | | | series 10 to 19 (10 to 19: unchanged installation and connection dimensions) |
| | | | | | | | No code = Mineral oils V = Phosphate ester |

Technical data

| Size | | 6 | 8 | 10 | 12 | 16 | 20 | 25 | 30 | 40 | |
|----------------------------------|----------------------|---------------------------------|---|----|----|----|----|----|----|----|--|
| Operating pressure, max. | (MPa) | 31.5 | | | | | | | | | |
| Opening pressure | (MPa) | 0.05 | | | | | | | | | |
| Pressure fluid | | mineral oils or phosphate ester | | | | | | | | | |
| Pressure fluid temperature range | (°C) | - 30 to + 80 | | | | | | | | | |
| Viscosity range | (mm ² /s) | 2.8 to 500 | | | | | | | | | |
| Fixing position | | optional | | | | | | | | | |

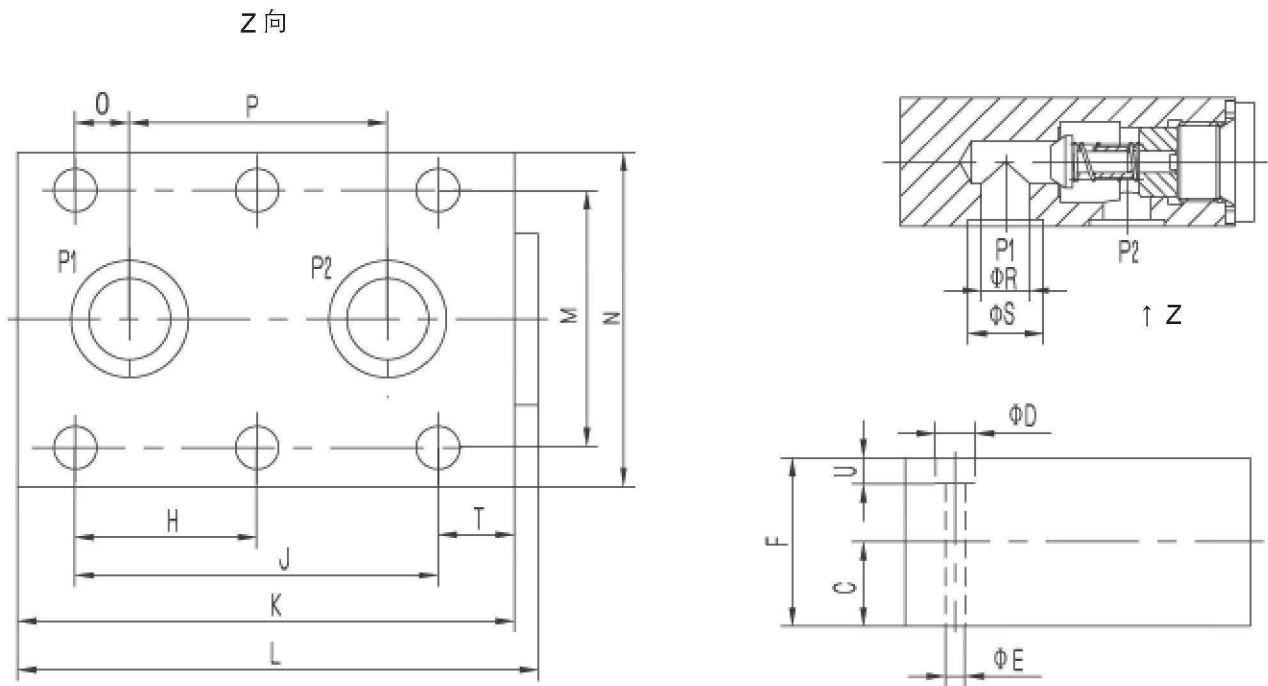
Characteristic curves (measured at $v = 41 \text{ mm}^2/\text{s}$ and temperature $t = 50^\circ\text{C}$)

Direction of flow: P1 to P2 The relationship between pressure differential Δp and flow Q



Unit dimensions

(Dimensions in mm)



| | | | | | | | | | |
|--------|------|----------|----------|------|----------|----------|------|-----|------------|
| Size | C | ϕD | ϕE | F | H | J | K | L | |
| RVP-6 | 11.5 | 11 | 6.6 | 23 | - | 19 | 41.5 | 46 | |
| RVP-8 | 13 | 11 | 6.6 | 24 | - | 35 | 63.5 | 67 | |
| RVP-10 | 13.5 | 11 | 6.6 | 27 | - | 33.5 | 70 | 74 | |
| RVP-12 | 16 | 11 | 6.6 | 32 | - | 38 | 80 | 84 | |
| RVP-16 | 22.5 | 14 | 9 | 45 | 38 | 76 | 104 | 109 | |
| RVP-20 | 26 | 14 | 9 | 50 | 47.5 | 95 | 127 | 132 | |
| RVP-25 | 29 | 18 | 11 | 58 | 60 | 120 | 165 | 170 | |
| RVP-30 | 37.5 | 20 | 14 | 75 | 71.5 | 143 | 186 | 192 | |
| RVP-40 | 50 | 20 | 14 | 100 | 67 | 133.5 | 192 | 198 | |
| Size | M | N | O | P | ϕR | ϕS | T | U | Weight(Kg) |
| RVP-6 | 28.5 | 41.5 | 1.6 | 16 | 6 | 12.2 | 16.1 | 8 | 0.26 |
| RVP-8 | 33.5 | 46 | 4.5 | 25.5 | 8 | 13.7 | 14.3 | 10 | 0.50 |
| RVP-10 | 38 | 51 | 4 | 25.5 | 10 | 15.7 | 18.5 | 7 | 0.80 |
| RVP-12 | 44.5 | 57.5 | 4 | 30 | 13 | 21.8 | 21 | 7 | 1.10 |
| RVP-16 | 54 | 70 | 11.4 | 54 | 17 | 24.5 | 16 | 12 | 2.25 |
| RVP-20 | 60 | 76.5 | 19 | 57 | 22 | 31.5 | 16 | 12 | 3.90 |
| RVP-25 | 76 | 100 | 20.6 | 79.5 | 28.5 | 39.2 | 30 | 13 | 6.70 |
| RVP-30 | 92 | 115 | 23.8 | 95 | 31 | 41 | 28 | 13 | 11.0 |
| RVP-40 | 111 | 140 | 25.5 | 89 | 45 | 54 | 42.5 | 18 | 17.0 |

Notice

1. The fluid must be filtered. Minimum filter fineness is 20 μm .
2. The tank must be sealing up and an air filter must be installed on air entrance.
3. Products without subplate when leaving factory, if need them, please ordering specially.
4. Valve fixing screws must be high intensity level (class 10.9). Please select and use them according to the parameter listed in the sample book.
5. Roughness of surface linked with the valve is required to $\sqrt{0.8}$.
6. Surface finish of mating piece is required to 0.01/100mm.