

Pressure reducing and relieving, direct acting spool type

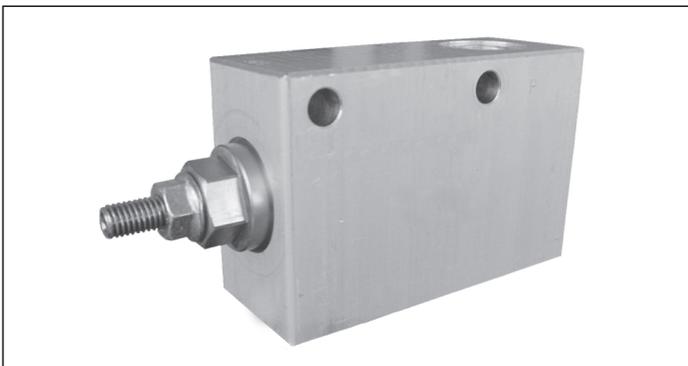
VRP-R

05.90.27 - X - Y - Z

RE 18309-72

Edition: 05.2020

Replaces: 03.2016



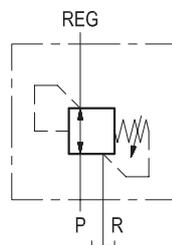
Technical data

| | |
|--|---|
| Max. operating pressure | 210 bar (3000 psi) |
| Max. flow | 20 l/min. (5 gpm) |
| Max. leakage: 10 cc/min. (0.6 in ³ /min.) at 90% of pressure setting | |
| Weight | 0.85 kg (1.87 lbs) |
| Manifold material | Aluminium |
| Note: aluminium bodies are often strong enough for operating pressures exceeding 210 bar (3000 psi), depending from the fatigue life expected in the specific application. If in doubt, consult our Service Network. | |
| Fluid | Mineral oil (HL, HLP) according DIN 51524 |
| Fluid temperature range | -30 °C to 100 (-22 to 212 °F) |
| Viscosity range | 5 to 800 mm ² /s (cSt) |
| MTTFD | 150 years see RE 18350-51 |
| Recommended degree of fluid contamination | Class 19/17/14 according to ISO 4406 |
| Other technical data | see data sheet 18350-50 |

Note: for applications outside these parameters, please consult us.

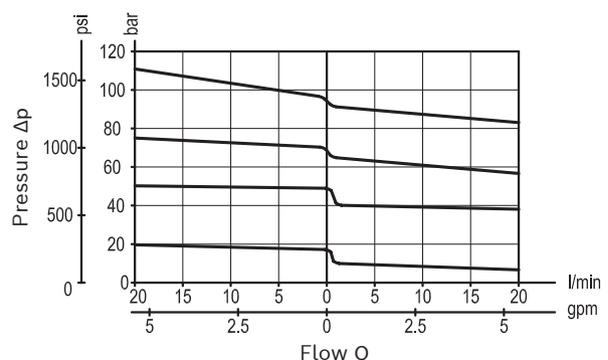
Description

Initially, flow passes freely from P to REG. When the pressure at REG exceeds the pressure setting, the valve acts to restrict input flow at P. This increases the pressure drop through the valve and maintains consistent pressure at REG. The spring chamber is drained to prevent a build-up of back-pressure against the spool. Additionally, if pressure at REG rises above the pressure setting, flow is relieved to R (Tank) until the setting is re-attained.



P = Inlet
REG = A (Reduced pressure)
R = T (Tank)

Characteristic curve



Ordering code

| | | | |
|-----------------|----------|----------|----------|
| 05.90.27 | X | Y | Z |
|-----------------|----------|----------|----------|

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direct acting spool type

Adjustments

03 Leakproof hex. socket screw



| Port sizes | P | R | REG |
|------------|-------|-------|-------|
| 02 | G 3/8 | G 3/8 | G 3/8 |

| | SPRINGS | | |
|-----------|----------------------------------|--|--|
| | Adj. pressure range bar (psi) | Pres. increase bar/turn (psi/turn) | Std. setting Q=5 (l/min) bar (psi) |
| 02 | 2-21 (30-305) | 3 (44) | 10 (145) |
| 04 | 3-42 (44-610) | 5 (73) | 20 (290) |
| 06 | 7-63 (102-914) | 8 (116) | 30 (435) |
| 10 | 11-105 (160-1525) | 13 (189) | 50 (725) |

Tamper resistant cap
ordering code 11.04.23.002
Mat. no. R930000752



Preferred types

| Type | Material number |
|-----------------|-----------------|
| 05902703020200B | R930002585 |
| 05902703020400B | R930002587 |
| 05902703020600B | R930002588 |
| 05902703021000B | R930002589 |

| Type | Material number |
|------|-----------------|
| | |
| | |
| | |
| | |

Dimensions

