

Relief, direct acting poppet type  
pressure compensated  
Special cavity, 008

VS-30-CC

04.11.27 - X - 99 - Z

**RE 18318-26**

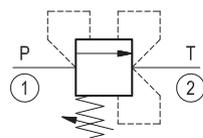
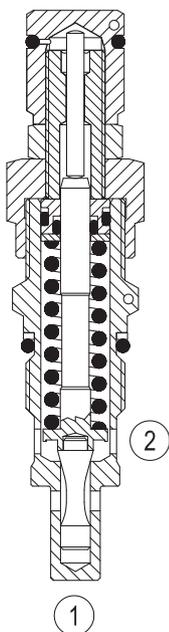
Edition: 04.2020

Replaces: 01.2019



**Description**

Flow is blocked from 1 to 2 until pressure increases to meet the selected valve setting, lifting the poppet from its seat and allowing relief flow through 2 to tank. The valve applies a balanced piston design allowing consistent relief operation at the valve setting independent of back-pressure at 2. The unique Bosch Rexroth Oil Control poppet design provides enhanced stability at all flows and pressures.



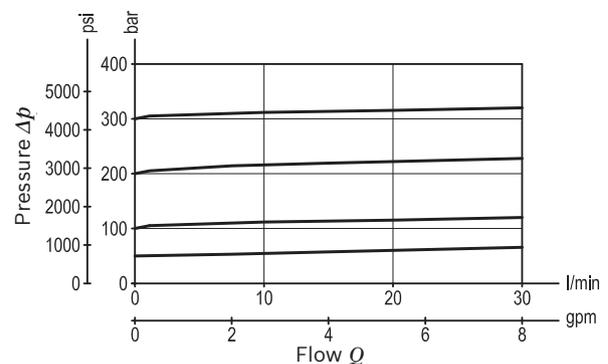
**Technical data**

|   |   |
|---|---|
| Max. operating pressure                   | 350 bar (5000 psi)  |
| Max. flow                                 | 30 l/min (8 gpm)  |
| Max. internal leakage <sup>1)</sup>       | 15 drops/min.   |
| Fluid temperature range                   | -30 to 100 °C (-22 to 212 °F)   |
| Installation torque                       | 46 - 51 Nm (34 - 38 ft-lbs)   |
| Weight                                    | 0.17 kg (0.38 lbs)  |
| Special cavity                            | 008 (see data sheet 18325-75)   |
| Lines bodies and standard assemblies      | Please refer to section "Hydraulic integrated circuit" or consult factory                                       |
| Seal kit <sup>2)</sup>                    | Code: RG0008010520100<br>material no: R930001693  |
| Fluids                                    | Mineral-based or synthetics with lubricating properties<br>at viscosities of 10 to 500 mm <sup>2</sup> /s (cSt) |
| Recommended degree of fluid contamination | Nominal value max. 10µm (NAS 8) / ISO 4406 20/18/15   |
| MTTFD                                     | 150 years see RE 18350-51   |
| Installation position                     | No restrictions   |
| Other Technical Data                      | See data sheet 18350-50   |

1) At 80% of pressure setting

2) Only external seals for 10 valves

**Characteristic curve**



**Ordering code**

|                 |          |           |          |           |          |
|-----------------|----------|-----------|----------|-----------|----------|
| <b>04.11.27</b> | <b>X</b> | <b>99</b> | <b>Z</b> | <b>00</b> | <b>*</b> |
|-----------------|----------|-----------|----------|-----------|----------|

Relief, direct acting poppet type  
pressure compensated

Adjustments

**03** Leakproof hex. socket screw

**99** Special cavity, 008

Series O/A to L  
unchanged performances and dimensions

Version and options standard

| SPRINGS   |                                |  |  |
|-----------|--------------------------------|--|--|
|           | Adj. press. range<br>bar (psi) | Pressure increase<br>bar/turn (psi/turn) | Std. setting<br>bar (psi)<br>Q=5 l/min |
| <b>05</b> | * 5-50 (75-725)                | 11 (160)                                 | 50 (725)                               |
| <b>10</b> | 30-100 (435-1450)              | 23 (334)                                 | 100 (1450)                             |
| <b>20</b> | 50-210 (725-3000)              | 47 (682)                                 | 200 (2900)                             |
| <b>35</b> | 100-350 (1450-5000)            | 82 (1189)                                | 350 (5000)                             |

Note: Special settings available. Contact factory authorized representative for ordering code.

\* minimum pressure setting intended with Q=5 l/min

**Preferred types**

| Type            | Material number |
|-----------------|-----------------|
| 04112703990500D | R930006231      |
| 04112703991000D | R930006233      |
| 04112703992000D | R930006234      |
| 04112703993500D | R930006239      |

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

**Dimensions**

