

Relief, direct acting guided  
poppet type  
Common cavity, Size 10

VSBG-10A

04.11.56 - X - 85 - Z

**RE 18318-06**

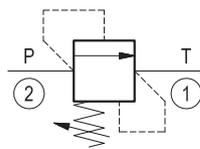
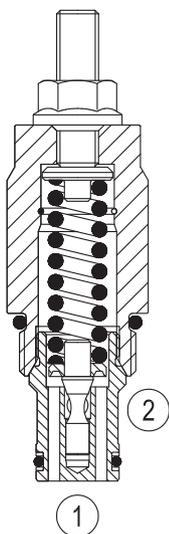
Edition: 03.2016

Replaces: 09.2009



**Description**

Flow is blocked from 2 to 1 until pressure increases to meet the selected valve setting, lifting the poppet from its seat and allowing relief flow through port 1 to tank. Pressure at port 1 is additive to the relief setting of the valve. The unique Bosch rexroth oil control poppet design provides enhanced stability at all flows and pressures.



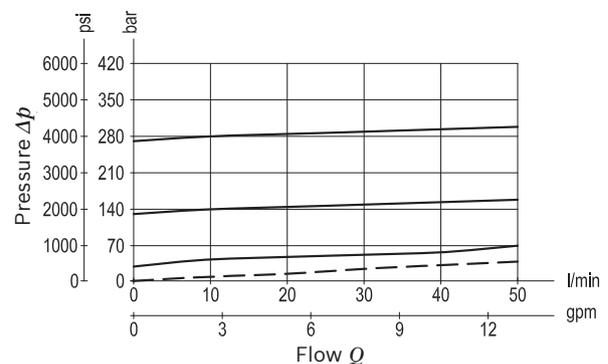
**Technical data**

Max. operating pressure port 1 (P)	350 bar (5000 psi)
Max. pressure admitted port 2 (T)	350 bar (5000 psi)
Max. flow	50 l/min (13 gpm)
Max. internal leakage <sup>1)</sup>	15 drops/min.
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)
Installation torque	41 - 47 Nm (30 - 35 ft-lbs)
Weight	0.2 kg (0.44 lbs)
Cavity	CA-10A-2N (see data sheet 18325-70)
Lines bodies and standard assemblies	Please refer to section "Hydraulic integrated circuit" or consult factory
Seal kit <sup>2)</sup>	Code: RG10A2010530100 material no: R901111366
Fluids	Mineral-based or synthetics with lubricating properties 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 19/17/14
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>04.11.56</b>	<b>X</b>	<b>85</b>	<b>Z</b>	<b>00</b>	<b>*</b>
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Relief, direct acting guided poppet type

Adjustments

**03** Leakproof hex. socket screw

**85** Common cavity, Size 10

Series 0/A to L  
unchanged performances and dimensions

Version and options standard

SPRINGS			
	Adj. press. range bar (psi)	Pressure increase bar/turn (psi/turn)	Std. setting bar (psi) Q=5 l/min
<b>05</b>	* 5-70 (75-1000)	16 (232)	50 (725)
<b>10</b>	35-140 (500-2000)	24 (348)	100 (1450)
<b>20</b>	105-210 (1500-3000)	54 (783)	200 (2900)
<b>35</b>	175-350 (2500-5000)	84 (1218)	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
041156038505000	R901157894
041156038510000	R901113622
041156038520000	R901113624
041156038535000	R901113626

Type	Material number

**Dimensions**

