

Relief, direct acting guided  
poppet type  
Common cavity, Size 08

VSBN-08A

04.11.49 - X - 56 - Z

**RE 18318-04**

Edition: 02.2019

Replaces: 01.2019



**Description**

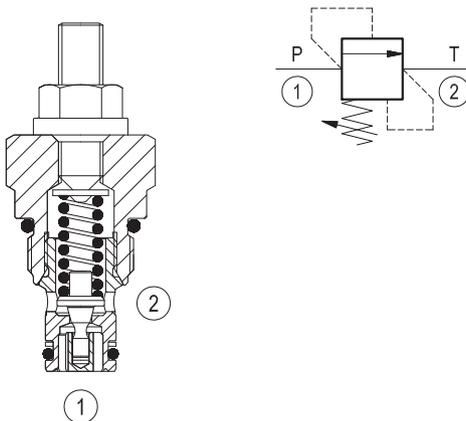
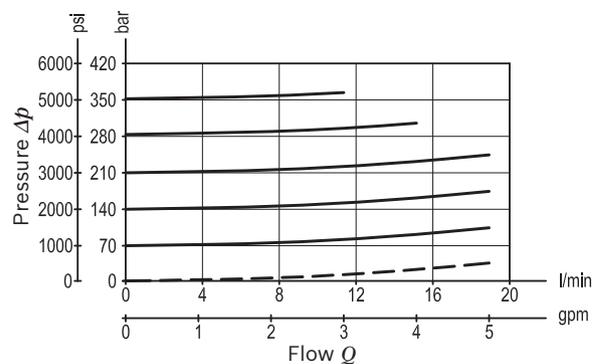
Flow is blocked from 1 to 2 until pressure increases to meet the selected valve setting, lifting the poppet from its seat and allowing relief flow through port 2 to tank. Pressure at port 2 is additive to the relief setting of the valve. The unique Bosch Rexroth Oil Control poppet design provides enhanced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

**Technical data**

Max. operating pressure port 1 (P)	350 bar (5000 psi)
Max. pressure admitted port 2 (T)	140 bar (2000 psi)
Max. flow	20 l/min (5.3 gpm)
Max. internal leakage <sup>1)</sup>	15 drops/min.
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)
Installation torque	34 - 41 Nm (25 - 30 ft-lbs)
Weight <sup>2)</sup>	0.09 kg (0.2 lbs)
Cavity	CA-08A-2N (see data sheet 18325-70)
Lines bodies and standard assemblies	Please refer to section "Hydraulic integrated circuit" or consult factory
MTTFD	150 years see data sheet 18350-51
Seal kit <sup>3)</sup>	Code: RG08A2010520100 material no: R901101437
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) Max. to 80% of nominal setting
- 2) Standard version X=03 type
- 3) Only external seals for 10 valves

**Characteristic curve**



**Ordering code**

<b>04.11.49</b>	<b>X</b>	<b>56</b>	<b>Z</b>	<b>00</b>	<b>*</b>
-----------------	----------	-----------	----------	-----------	----------

Relief, direct acting guided poppet type

Adjustments

- 03** Leakproof hex. socket screw
- 04** Handknob and locknut
- 73** O-Ring seal on adjust screw

**56** Common cavity, Size 08

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
for X= 03	<b>05</b>	* 10-70 (145-1000)	26 (375)	50 (725)
	<b>10</b>	35-140 (500-2000)	50 (725)	100 (1450)
	<b>20</b>	105-210 (1500-3000)	79 (1145)	200 (2900)
	<b>35</b>	175-350 (2500-5000)	170 (2465)	350 (5000)
for X= 04	<b>35</b>	35-350 (500-5000)	72 (1044)	200 (2900)
for X= 73	<b>35</b>	35-350 (500-5000)	72 (1044)	200 (2900)

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

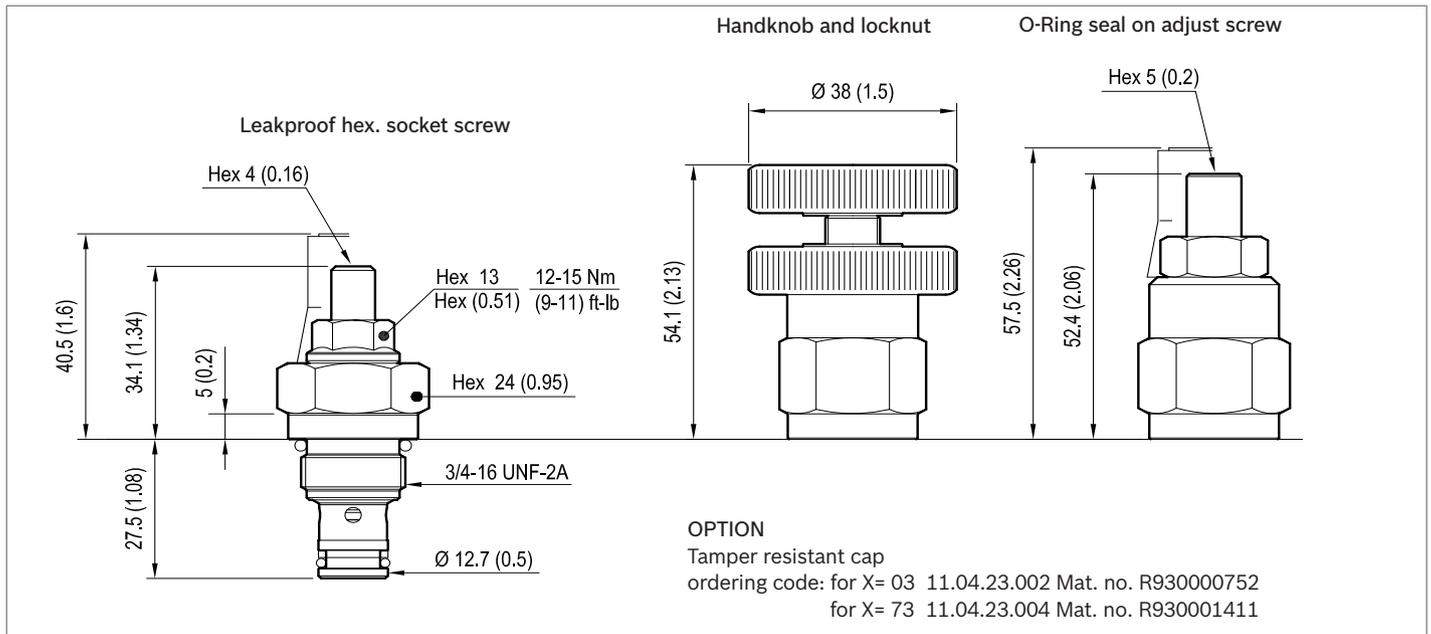
\* minimum pressure setting intended with Q=5 l/min.

**Preferred types**

Type	Material number
041149035605000	R901113598
041149035610000	R901113599
041149035620000	R901097728

Type	Material number
041149035635000	R901091914
041149045635000	R901113600
041149735635000	R901113601

**Dimensions**



**Bosch Rexroth Oil Control S.p.A.**

Via Leonardo da Vinci 5  
 P.O. Box no. 5  
 41015 Nonantola – Modena, Italy  
 Tel. +39 059 887 611  
 Fax +39 059 547 848  
 compact-hydraulics-cv@boschrexroth.com  
 www.boschrexroth.com/compacthydraulics

© This document, as well as the data, specifications and other information set forth in it, are the exclusive property of Bosch Rexroth Oil Control S.p.a.. It may not be reproduced or given to third parties without its consent. The data specified above only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. It must be remembered that our products are subject to a natural process of wear and aging. Subject to change.