

Relief, direct acting guided poppet type

Common cavity, Size 08

VSBN-08A

04.11.49 - X - 56 - Z

RE 18318-04

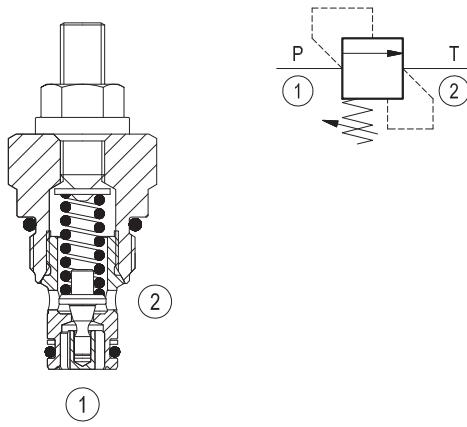
Edition: 07.2017

Replaces: 03.2016



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

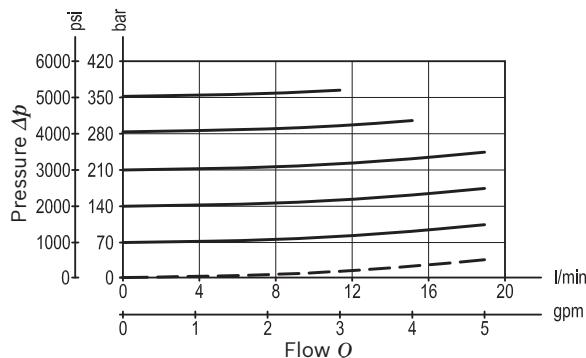
Max. operating pressure port 1 (P)	350 bar (5000 psi)
Max. pressure admitted port 2 (T)	140 bar (2000 psi)
Max. flow	20 l/min (5.3 gpm)
Max. internal leakage ¹⁾	15 drops/min.
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)
Installation torque	34 - 41 Nm (25 - 30 ft-lbs)
Weight ²⁾	0.09 kg (0.2 lbs)
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 ³⁾	Code: RG08A2010520100 material no: R901101437
Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm ² /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

04.11.49	X	56	Z	00	*
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Series 0/A to L
unchanged performances and dimensions

Relief, direct acting guided
poppet type

Version and options standard

Adjustments

03 Leakproof hex. socket screw

04 Handknob and locknut

73 O-Ring seal on adjust screw

56 Common cavity, Size 08

SPRINGS			
	Adj. press. range bar (psi)	Pressure increase bar/turn (psi/turn)	Std. setting bar (psi) Q=1 l/min
for X= 03	05 * 10-70 (145-1000)	26 (375)	50 (725)
	10 35-140 (500-2000)	50 (725)	100 (1450)
	20 105-210 (1500-3000)	79 (1145)	200 (2900)
	35 175-350 (2500-5000)	170 (2465)	350 (5000)
for X= 04	35 35-350 (500-5000)	72 (1044)	200 (2900)
for X= 73	35 35-350 (500-5000)	72 (1044)	200 (2900)

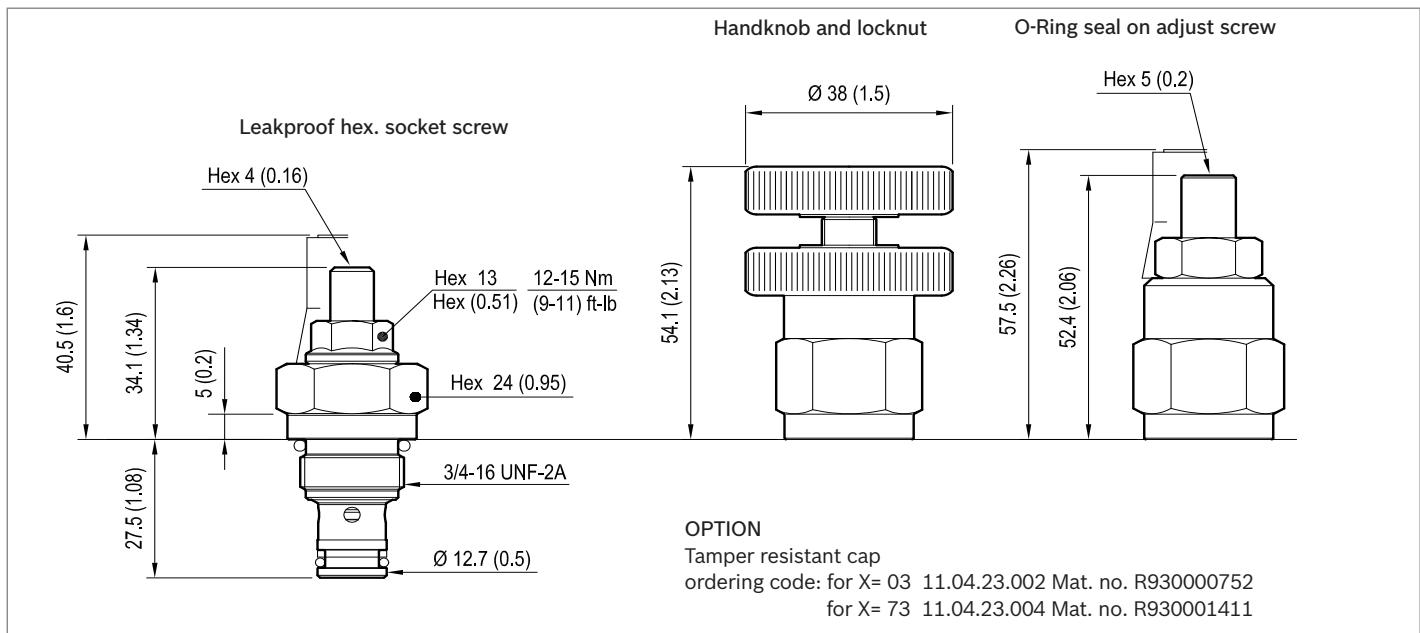
Note: Special settings available. Contact factory authorized
representative for ordering code.

* 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.**

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