

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

VSBN-08A

04.11.49 - X - 56 - Z

RE 18318-04

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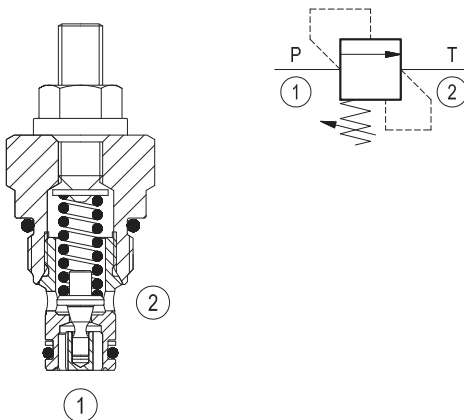
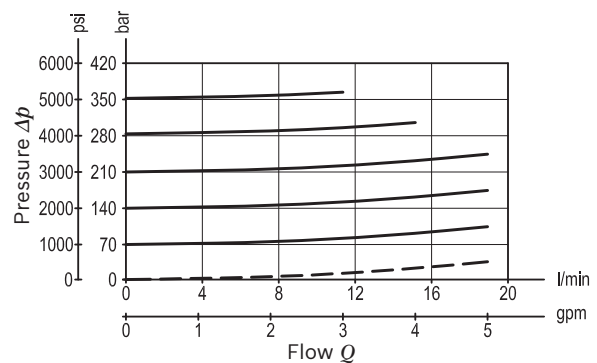
Description

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 | * |
|-----------------|----------|-----------|----------|-----------|----------|

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 | 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.

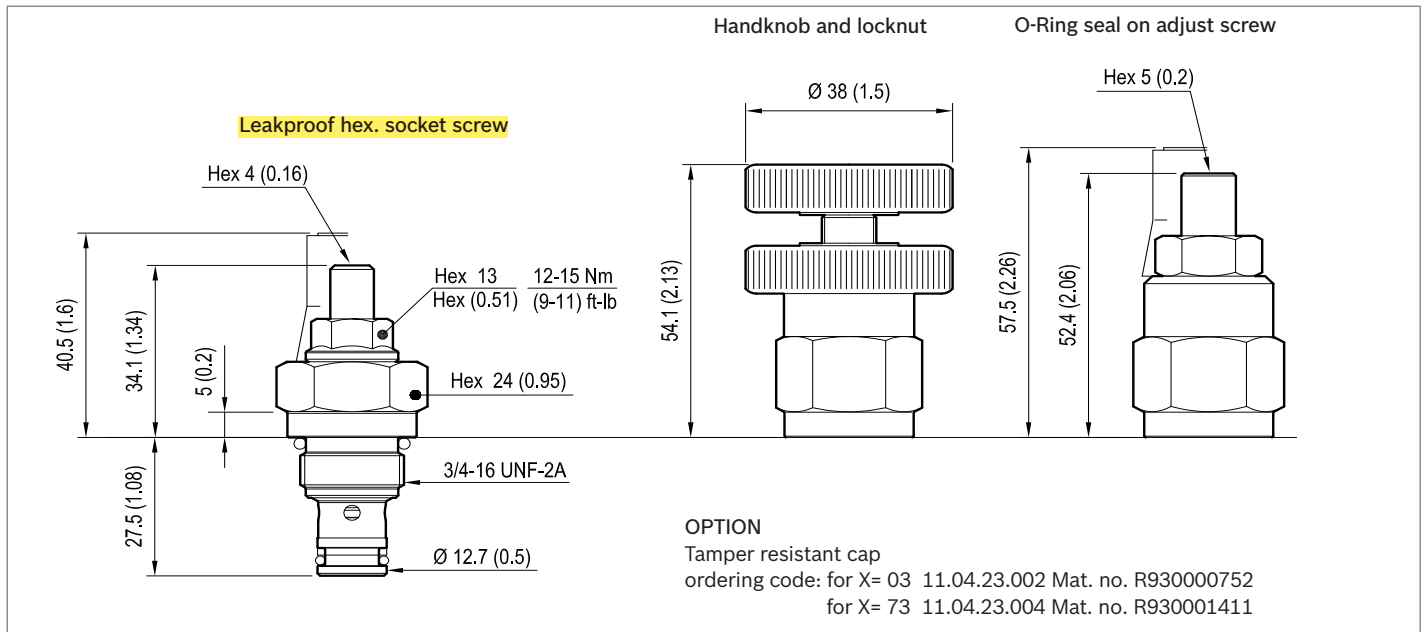
* minimum pressure setting intended with Q=5 l/min.

Preferred types

| Type | Material number |
|-----------------|-----------------|
| 041149035605000 | R901113598 |
| 041149035610000 | R901113599 |
| 041149035620000 | R901097728 |

| Type | Material number |
|------------------------|-------------------|
| 041149035635000 | R901091914 |
| 041149045635000 | R901113600 |
| 041149735635000 | R901113601 |

Dimensions



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