

Relief, direct acting guided poppet type with dual pressure stage Special cavity, M14x1

MHDBZ 04

RE 18318-71Edition: 10.2024
Replaces: 04.2024

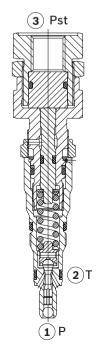


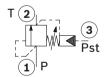
Description

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.

When connecting the external port 3 with pilot press. the pretension of the spring is increasing.

Pressurization at external port 3 has an effect on the main port at a given ratio.

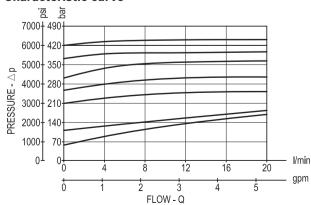




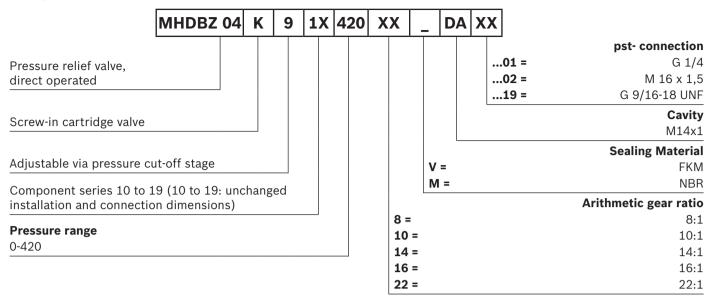
Technical data	
Max. operating pressure port 1 (P)	420 bar (6091 psi)
Max. pressure admitted port 2 (T)	50 bar (725 psi)
Max. flow	20 l/min (5,3 gpm)
Max. internal leakage ¹⁾	2 cc/min.
Pilot Ratio	See Ordering Code Section
Fluid temperature range	-20 to 80 °C (-68 to 176 °F)
Installation torque	23 - 28 Nm (17 - 21 ft-lbs)
Weight ²⁾	0.32 kg (0.71 lbs)
MTTFD	150 years see RE 18350-51
Special cavity	R/DBD.4K
Seal kit FKM ³⁾	Code: RG04R2070620100 R930094879
Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 10 to 800 mm ² /s (cSt)
Recommended degree of fluid contamination	Nominal value max. 10µm (NAS 8) / ISO 4406 20/18/15
Installation position	No restrictions
Other Technical Data	See data sheet 18350-50

- 1) At 80% of pressure setting
- 2) Standard version 03 type
- 3) Only external seals for 10 valves

Characteristic curve



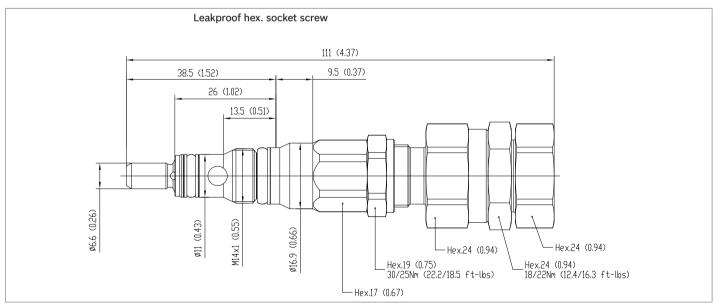
Ordering code



Туре	Material number
MHDBZ 04 K9-1X/420/ 8VDA01	R900855315
MHDBZ 04 K9-1X/420/ 8VDA19	R900881836
MHDBZ 04 K9-1X/420/14VDA01	R901151067
MHDBZ 04 K9-1X/420/16VDA19	R900916290

Туре	Material number
MHDBZ 04 K9-1X/420/22VDA01	R900560952
MHDBZ 04 K9-1X/420/22VDA02	R901089091
MHDBZ-04-K9-1X/420/10VDA01	R900876190

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.