

Solenoid operated valves pilot operated poppet type

2-way normally closed

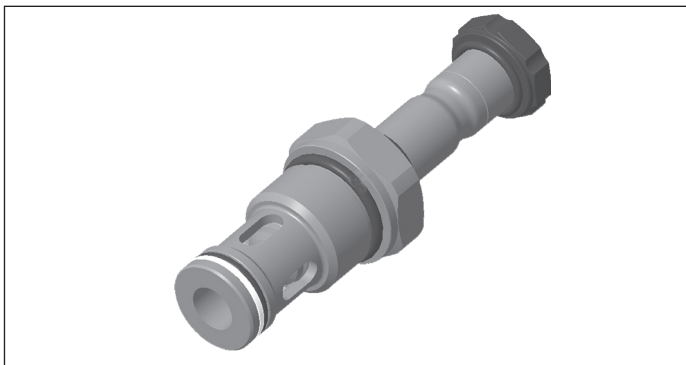
Special cavity, Hydac 12120

RE 18323-47

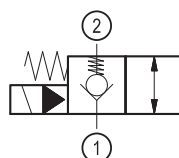
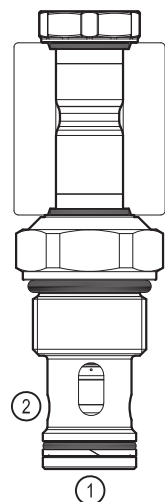
Edition: 01.2020

VEI-16-12F-NC

OD.15 - X - 33 - Y - Z



PATENT PENDING



Technical data

New VEI-16 family incorporates a new solenoid concept providing excellent performance and enables cartridges to work in severe environment. Cartridges also incorporates advanced design of hydraulic parts providing excellent hydraulic performance.

Technical data

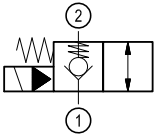
General	
Weight	0.25 kg (0.55 lbs)
Installation orientation	Unrestricted
Storage ambient temperature range	-40 to 100 °C (-40 to 212 °F)
Operating ambient temperature range	-30 to 90 °C (-22 to 194 °F)
Hydraulic	
Max. operating pressure	350 bar (5000 psi)
Flow range	5 - 150 l/min (1 - 40 gpm)
Max. internal leakage:	20 drops/min.
Switching time	Closing ≤ 100 ms Opening ≤ 50 ms
Fluid temperature range	-20 to 80 °C (-4 to 176 °F)
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)	
Installation torque	54 - 66 Nm (40 - 49 ft-lbs)
Recommended degree of fluid contamination	Nominal value max. 10 µm (NAS 8) ISO 4406 19/17/14
MTTFD	150 years see 18350-51
Special cavity	Hydac 12120 / R901415961
Seal kit for X=05	code RG12F2010520100 material no. R930077510
Seal kit coil and standard cap	code RG02Z0010000100 material no. R930067869
Seal kit coil and protective cap only for Y=D	code RG03Z0010000100 material no. R930067870
Other technical data	See data sheet 18350-50
Electrical	
Type of voltage	DC voltage
Coil type	D36
Supply voltage	See data sheet 18325-90
Voltage tolerance against ambient temperature	See characteristic curve
Power consumption	20 W
Type of protection	See data sheet 18325-90
Note: Coils must be ordered separately	

Ordering code

OD.15	X	33	Y	Z	0000	*
--------------	----------	-----------	----------	----------	-------------	----------

Solenoid operated valves
pilot operated poppet type
2-way normally closed

bidirectional type



05

Series 0/A to L
unchanged performances and dimensions

0 = With buna seal
8 = With buna seal and extra spring only for **05**

A = Standard

Special cavity: Hydac 12120 / R901415961

Preferred types

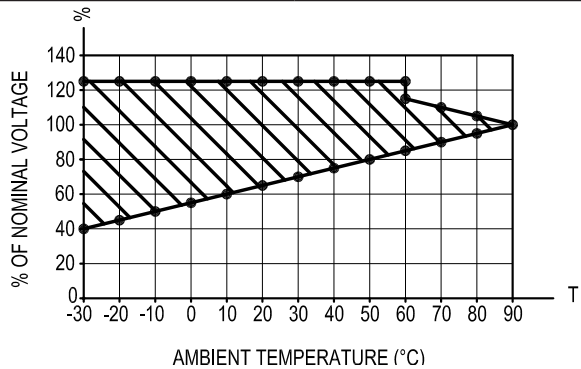
Type	Material number
OD150533A800000	R930071389

Type	Material number

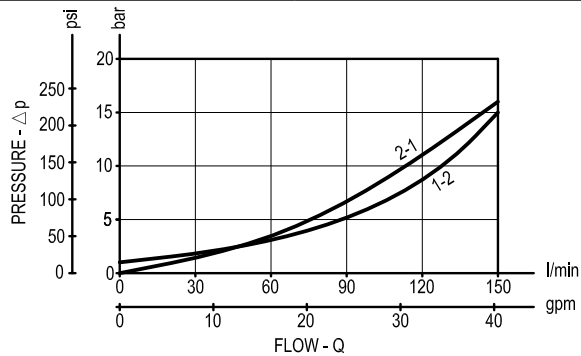
Bosch Rexroth Oil Control S.p.A., RE 18323-47/01.2020

Characteristic curves

All Versions - Admissible supply voltage Vs. Ambient temperature at 100% duty cycle

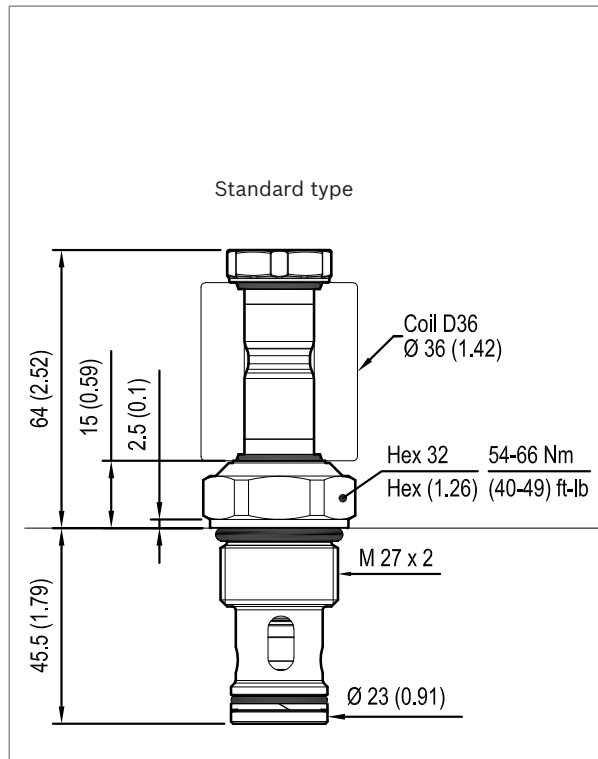


Version 05



Dimensions

**Solenoid operated valves, poppet 2-way
normally closed**

**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.