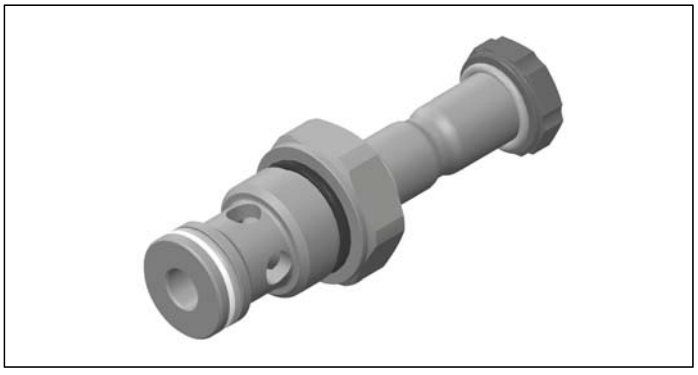
rexroth
A Bosch Company

Solenoid operated valves pilot operated poppet type 2-way normally open Special cavity, 017-E

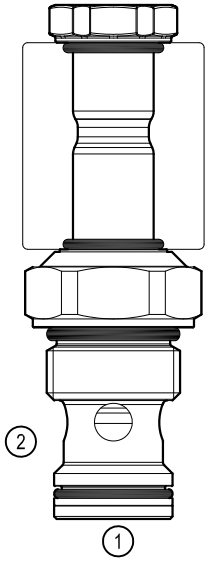
VEI-16-NA

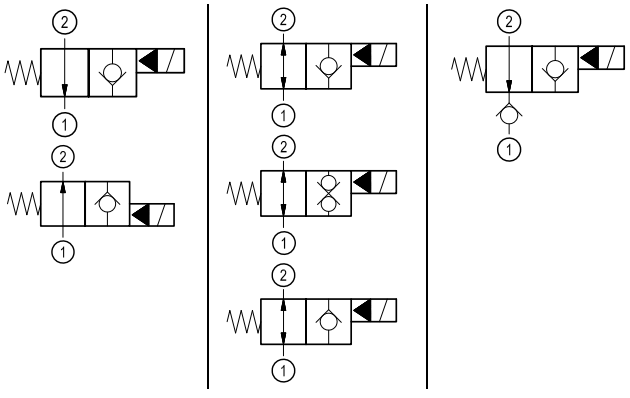
OD.15 - X - 17 - Y - Z - 00

RE 18323-35
Edition: 03.2020
Replaces: 09.2019



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)
Salt spray test to DIN EN ISO 9227:2017-07		500h
Hydraulic		
Max. operating pressure		350 bar (5000 psi)
Flow range		2 - 70 l/min (0.53 - 18 gpm)
Fatigue cycle life		2 million cycles at 350 bar
Max. internal leakage:		20 drops/min.
Installation torque		54 - 66 Nm (40 - 49 ft-lbs)
Switching time		Opening ≤ 50 ms Closing ≤ 100 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)		
Recommended degree of fluid contamination		Nominal value max. 10 µm (NAS 8) ISO 4406 19/17/14
MTTFd		150 years see RE 18350-51
Special cavity		017-E see 18325-75
Seal kit for X= 02,06,12	code material no.	RG17E201052010 R934003562
Seal kit for X= 04,32	code material no.	RG17E201053010 R934003563
Seal kit coil and standard cap	code material no.	RG02Z0010000100 R930067869
Seal kit coil and protective cap only for Y=B	code material no.	RG03Z0010000100 R930067870
Seal kit coil and protective cap only for Y=C	code material no.	RG04Z0010000100 R930069171
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	17	Y	Z	0000	*

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

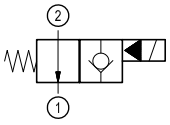
Series 0/A to L
unchanged performances and dimensions

0 = With buna seal
V = With Viton seal
P = With buna seal and protective cap for override version **B** and **C**
T = With Viton seal and protective cap for override version **B** and **C**

A = Standard
B = Push style manual override
C = Push and twist style manual override

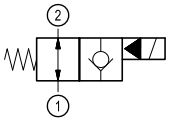
Special cavity: 017-E

monodirectional type



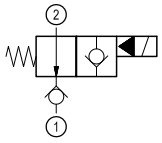
02

bidirectional type



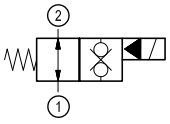
06

monodirectional type with check



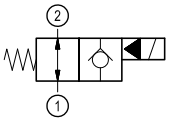
12

bidirectional type



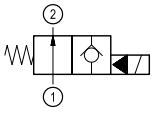
32

bidirectional type



04

monodirectional type



10

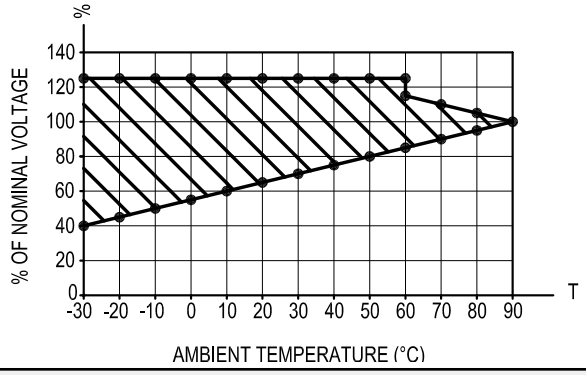
Preferred types

Type	Material number
OD150217A000000	R930063870
OD150217C000000	R930065471
OD150617A000000	R930064265
OD150617B000000	R930064334
OD150617C000000	R930063423
OD151217A000000	R930063907
OD153217A000000	R930064102
OD153217B000000	R930067161

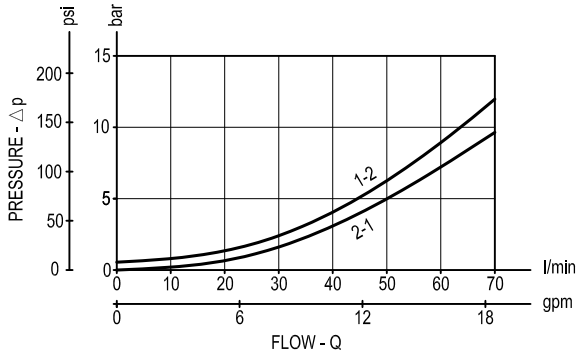
Type	Material number
OD153217BP00000	R930067159
OD153217C000000	R930067160
OD153217CP00000	R930067157
OD150417A000000	R930066966
OD151017A000000	R930076206

Characteristic curves

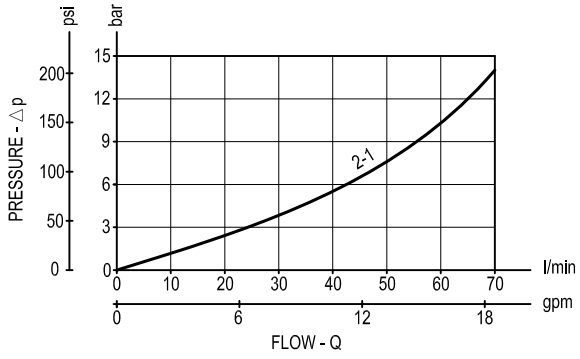
All Versions - Admissible supply voltage Vs. Ambient temperature at 100% duty cycle



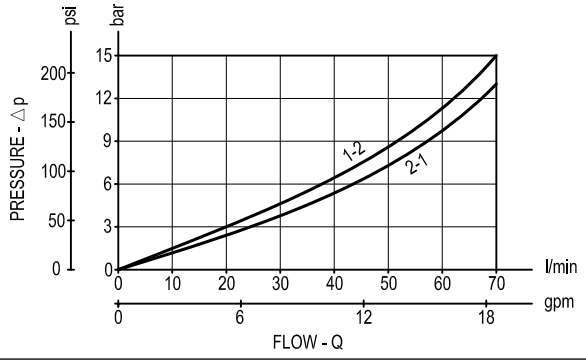
Versions 02, 06



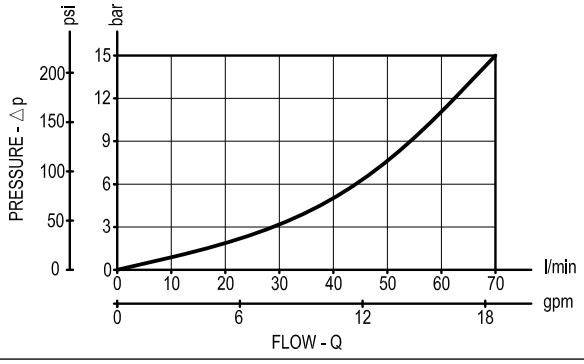
Version 12



Version 32

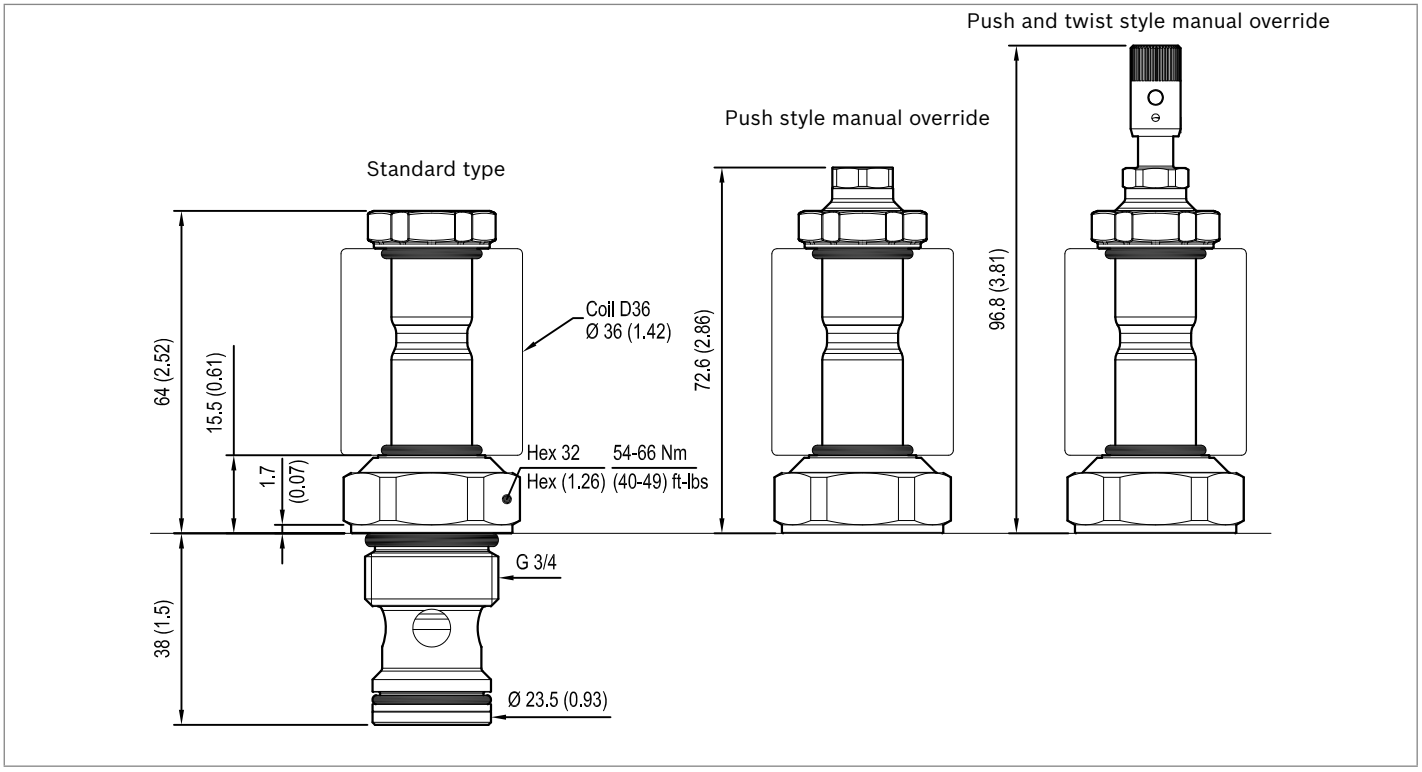


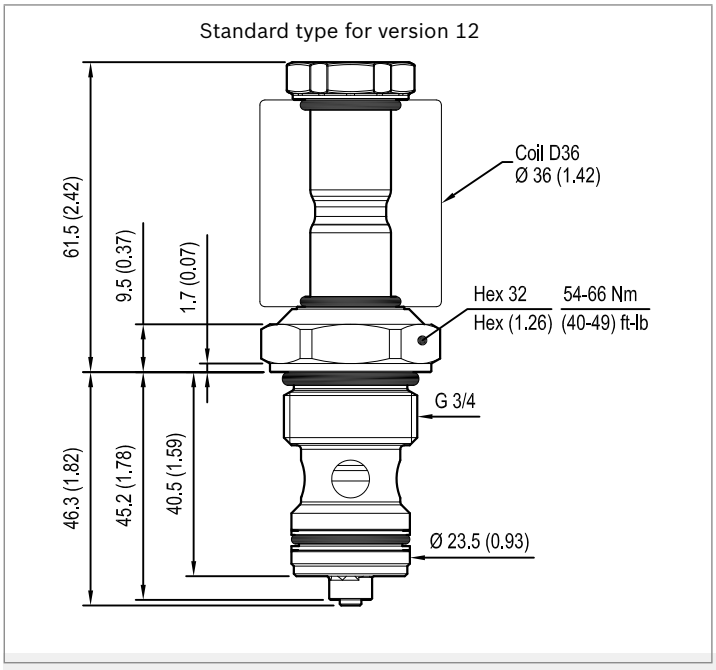
Versions 04,10



Dimensions

Solenoid operated valves, poppet 2-way normally open





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