

Solenoid operated valves pilot operated poppet type  
2-way normally open  
Special cavity, 021-E

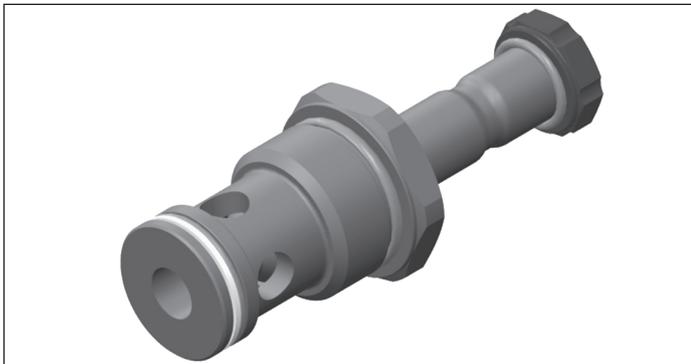
VEI-16-021-NA

OD.15 - X - 21 - Y - Z - 00

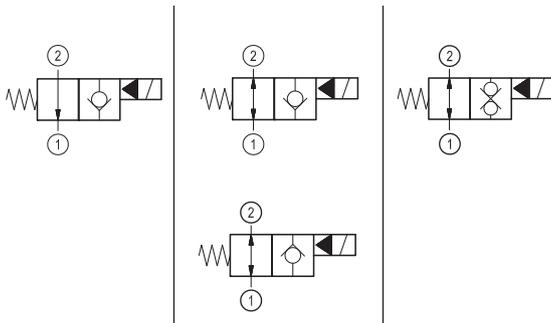
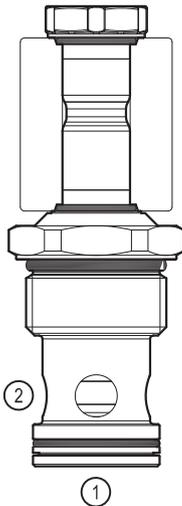
**RE 18323-38**

Edition: 09.2018

Replaces: 06.2018



**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	0.35 kg (0.77 lbs)
Installation orientation	Unrestricted
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)
Fatigue cycle life	1 million cycles at 350 bar
Max. internal leakage:	20 drops/min. for X= 02,06
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 <sup>2</sup> /s (cSt)	
Installation torque	130 - 150 Nm (96 - 111 ft-lbs)
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	021-E see 18325-75
Seal kit for X=02,06	code RG21E201052010 material no. R934003566
Seal kit for X=04,32	code RG21E201053010 material no. R934003567
Seal kit coil and standard cap	code RG02Z0010000100 material no. R930067869
Seal kit coil and protective cap only for Y=B	code RG03Z0010000100 material no. R930067870
Seal kit coil and protective cap only for Y=C	code RG04Z0010000100 material no. 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	

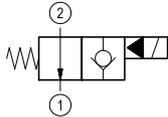
**Ordering code**

<b>OD.15</b>	<b>X</b>	<b>21</b>	<b>Y</b>	<b>Z</b>	<b>0000</b>	<b>*</b>
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Solenoid operated valves  
pilot operated poppet type  
2-way normally open

Series O/A to L  
unchanged performances and dimensions

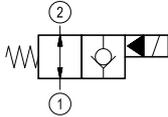
monidirectional type



**02**

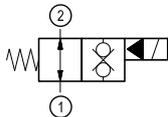
O = With buna seal  
V = With Viton seal  
P = With buna seal and protective cap for override version **B** and **C**  
T = With Viton seal and protective cap for override version **B** and **C**

bidirectional type



**06**

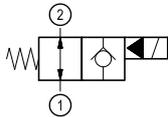
bidirectional type



**32**

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

bidirectional type



**04**

Special cavity: 021-E

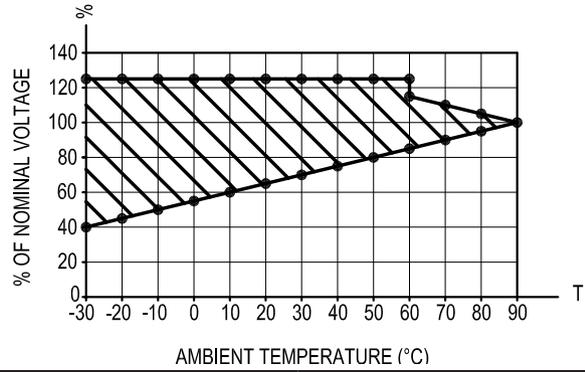
**Preferred types**

Type	Material number
OD150221A000000	R930063874
OD150621A000000	R930066964
OD150621C000000	R930066969
OD153221A000000	R930067155
OD153221C000000	R930069397
OD153221CP00000	R930068527
OD150621B000000	R930068776
OD150421A000000	R930066970
OD150421C000000	R930069396

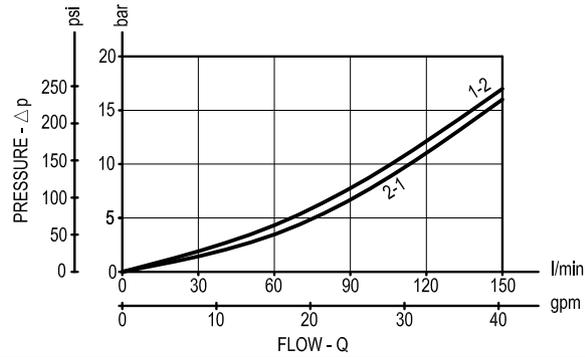
Type	Material number

Characteristic curves

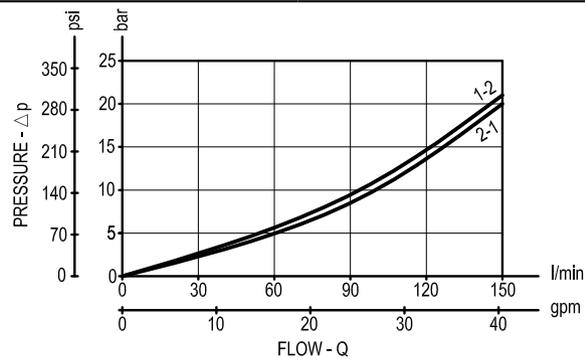
All Versions - Admissible supply voltage Vs. Ambient temperature at 100% duty cycle



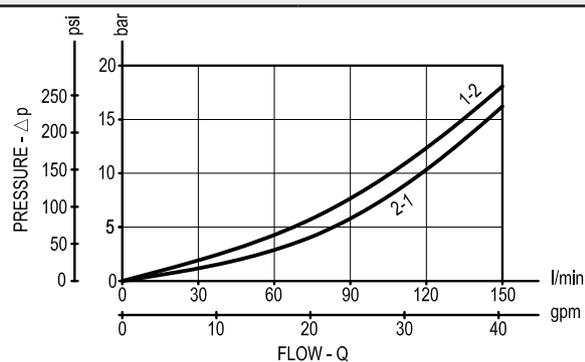
Versions 02, 06

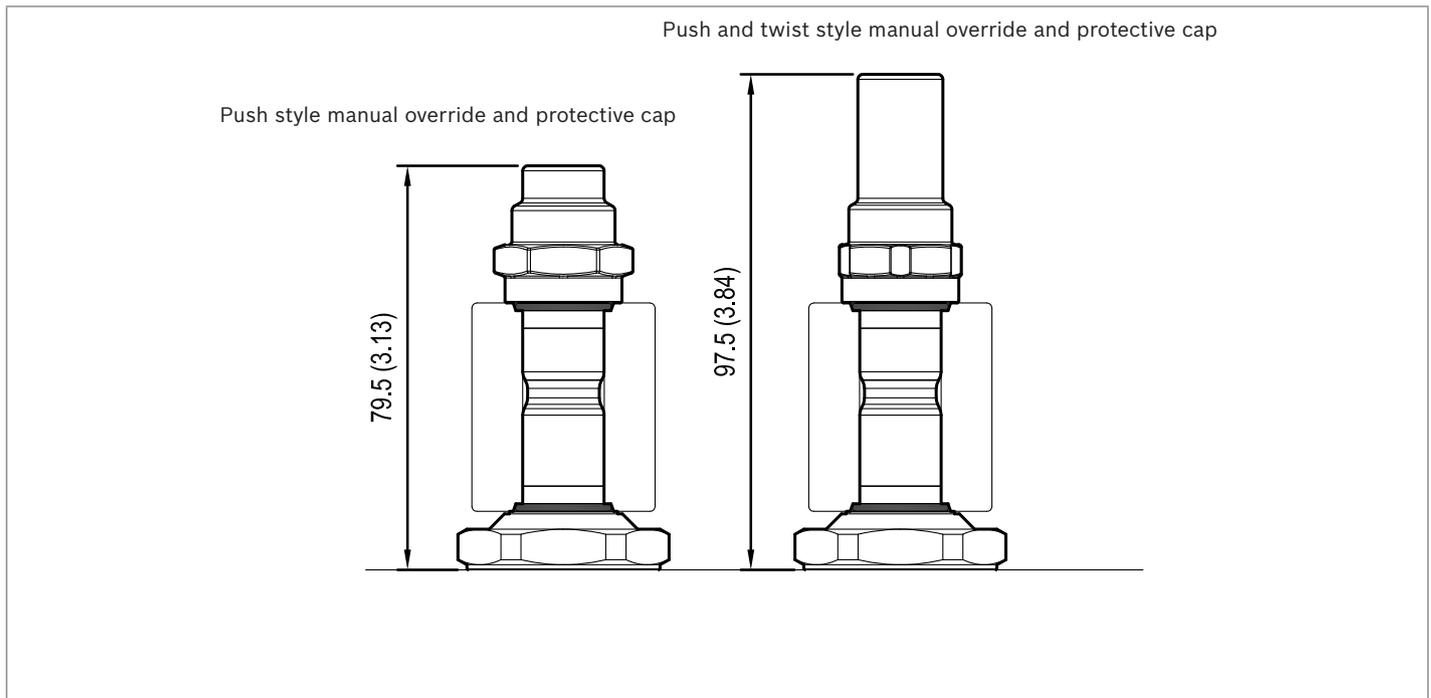
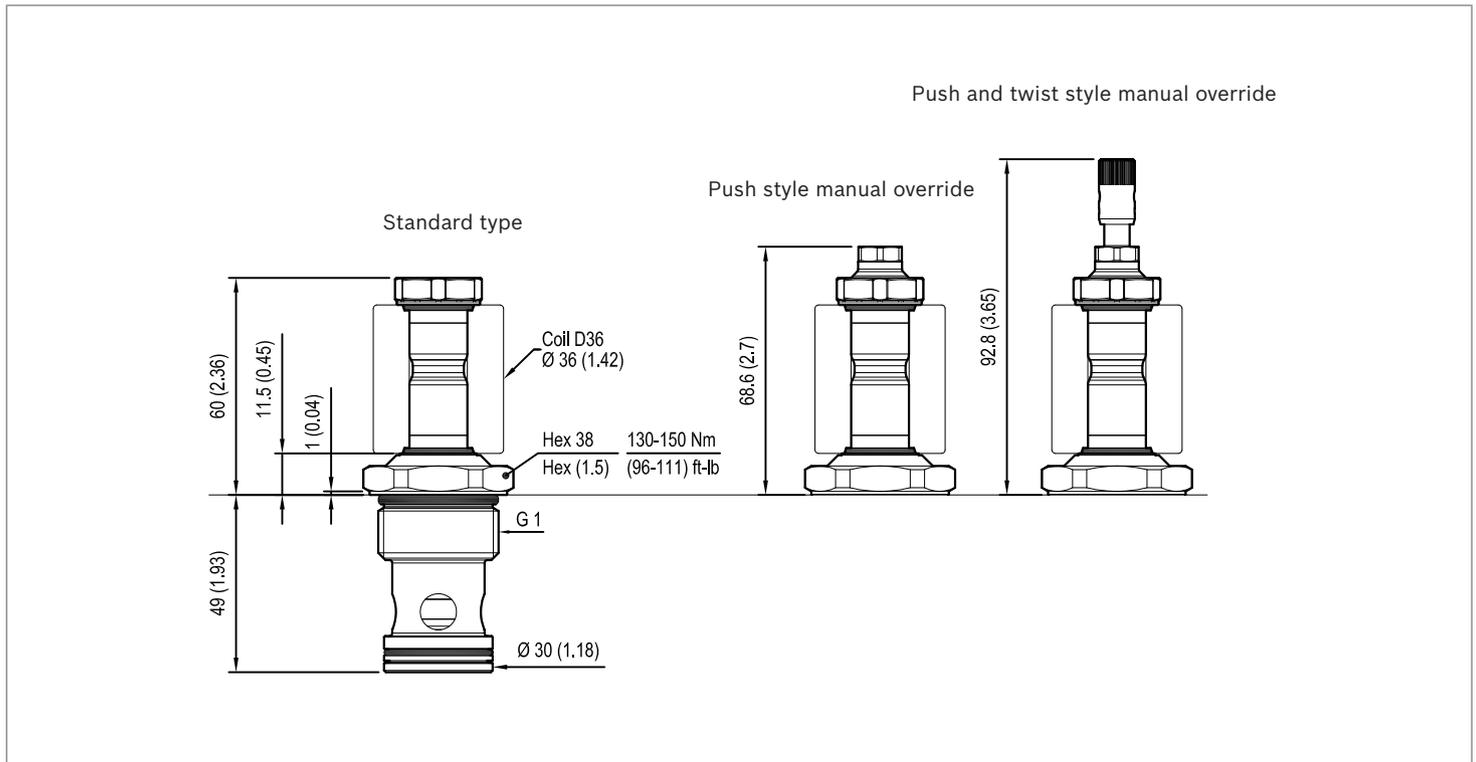


Version 32



Version 04



**Dimensions****Solenoid operated valves, poppet 2-way normally open****Bosch Rexroth Oil Control S.p.A.**

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