

# Solenoid operated valves on-off relief, adjustable Common cavity, Size 10

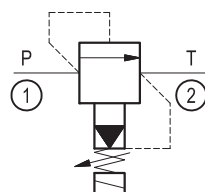
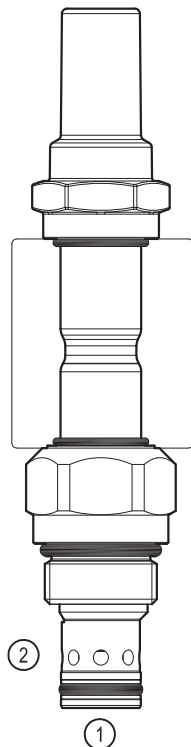
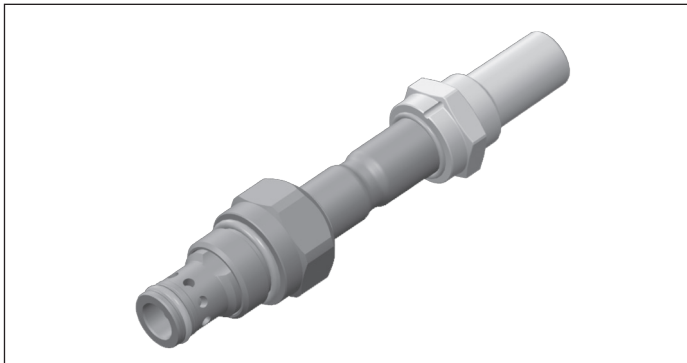
VER-10A

OD.10.04.36 - Y - 00

**RE 18324-15**

Edition: 06.2019

Replaces: 12.2018



## Technical data

New VER-10A family incorporates a new solenoid concept providing excellent performance and enables cartridges to work in severe environment. With coil not energized, relief function is off and flow is permitted from port 1 to port 2; with coil energized relief function is on.

## Technical data

General	
Weight	0.2 kg (0.44 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)
Max. admitted pressure port 2	140 bar (2000 psi)
Max. range	120 l/min. (32 gpm)
Max. internal leakage: <sup>1)</sup>	200 cm <sup>3</sup> /min. (12 cu.in./min.)
Switching time	Relief on ≤ 100 ms Relief off ≤ 80 ms
Fatigue cycle life	1 million cycles at 250 bar
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	41 - 47 Nm (30 - 35 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
Cavity	CA-10A-2N see 18325-70
Seal kit	code material no. RG10A2010530100 R901111366
Seal kit coil	code material no. RG01Z0010000100 R930058940
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	

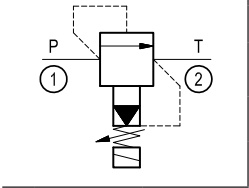
<sup>1)</sup> Measured at 200 bar (2900 psi)

Ordering code

OD.10	04	36	Y	00000	*
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Series 0/A to L  
unchanged performances and dimensions

Solenoid operated valves on-off relief,  
adjustable



Common cavity: CA-10A-2N

SPRINGS			
	Adj. press. range bar (psi)	Pressure increase bar/turn (psi/turn)	Std. setting bar (psi) Q=5 l/min.
1	30-140 (435-2000)	50 (725)	100 (1450)
2	70-250 (1015-3600)	90 (1305)	200 (2900)
3	120-350 (1740-5000)	135 (1958)	350 (5000)

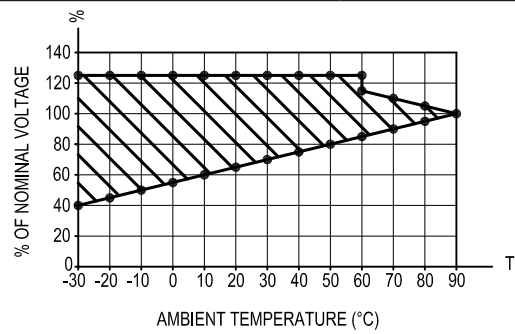
Preferred types

Type	Material number
OD1004361000000	R930066494
OD1004362000000	R930066495
OD1004363000000	R930066496

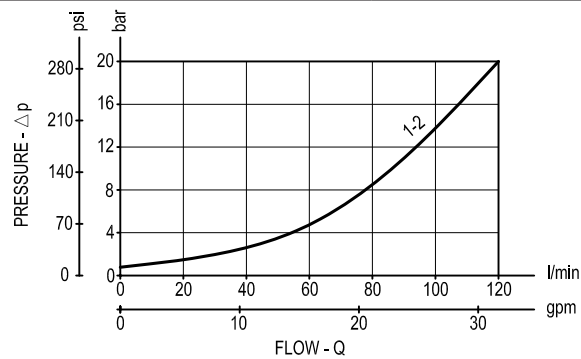
Type	Material number

Characteristic curves

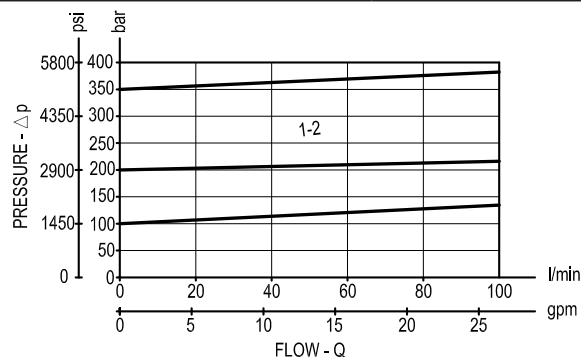
Admissible supply voltage Vs. Ambient temperature at 100% duty cycle

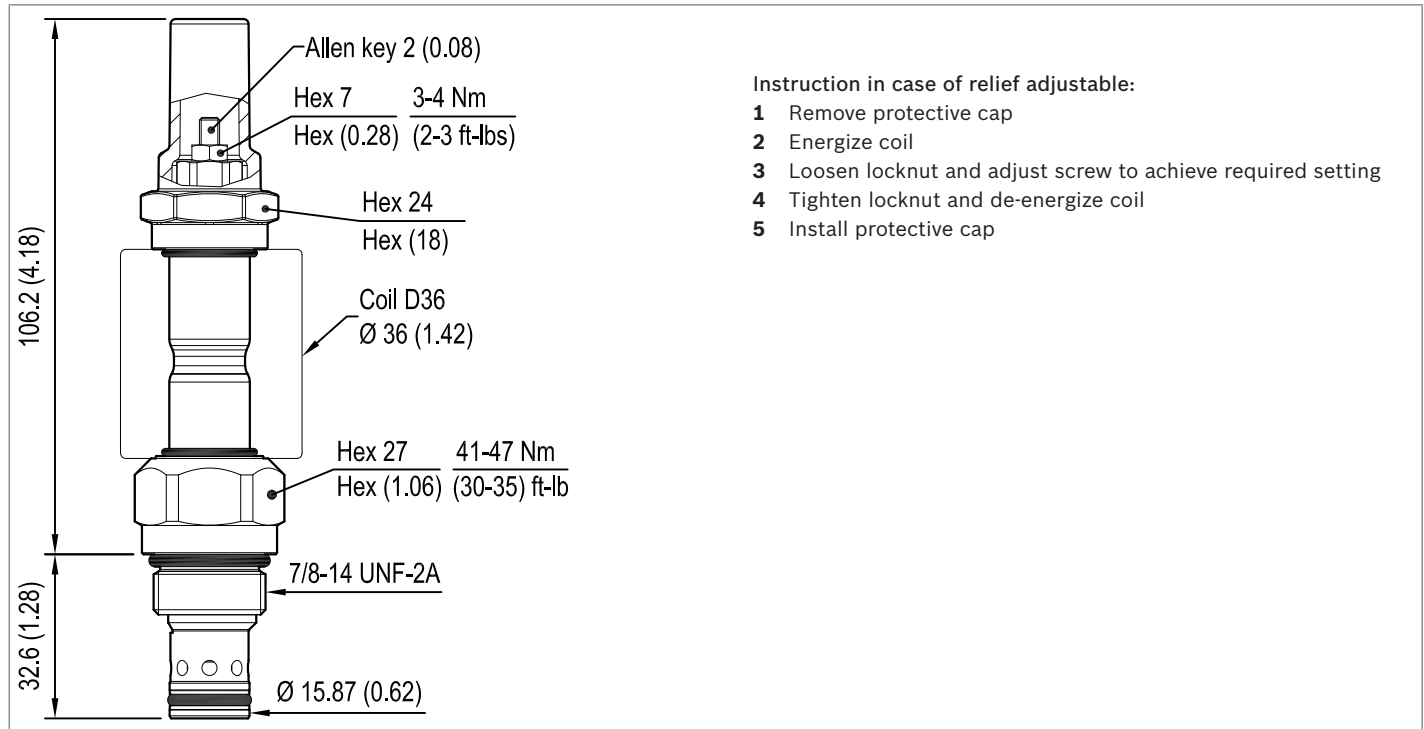


Relief off



Relief on



**Dimensions****Solenoid operated valves on-off relief,  
adjustable****Bosch Rexroth Oil Control S.p.A.**

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