

Proportional valves 2-way normally closed Special cavity, 019-E

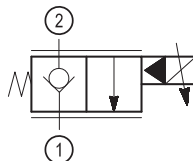
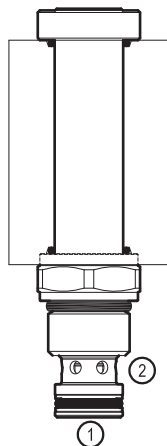
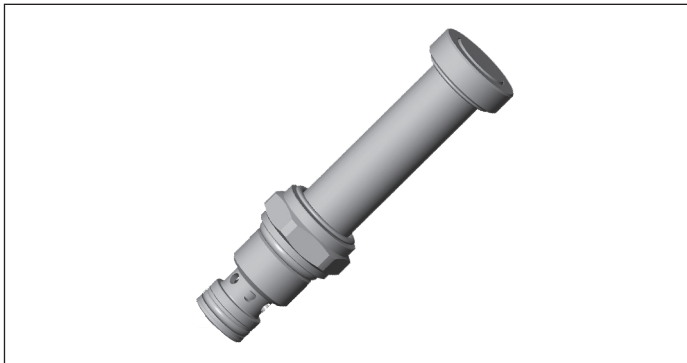
VPR-P40-S Coil R7-VPR

V389681 - Z

RE 18323-77

Edition: 10.2022

replaces: 04.2022



Technical data

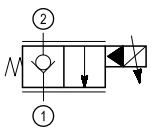
General	
Weight	0.20 kg (0.45 lbs)
Installation orientation	Optional
Ambient temperature range	-30 to 80 °C (-22 to 176 °F)
Hydraulic	
Max. operating pressure	250 bar (3600 psi)
Flow range	1 - 40 l/min. (0.3 - 11 gpm)
Max. internal leakage	1 cm ³ /min. (0.1 cu.in/min.)
Fluid temperature range	-20 to 80 °C (-4 to 176 °F)
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm ² /s (cSt)	
Installation torque	34 -41 Nm (25 - 30 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	019-E see 18325-75
Lines bodies and standard assemblies	Please refer to section "Hydraulic integrated circuit" or consult factory
Other technical data	See data sheet 18350-50
Electrical	
Type of voltage	DC voltage
Coil type	R7-VPR
Supply voltage	12
Nominal voltage	± 10%
Power consumption	20 W
Duty cycle coil	100
Note: Coils must be ordered separately	

Ordering code

V389681

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Proportional valves 2-way normally closed



A10 = Standard type
E10 = Knob style manual override

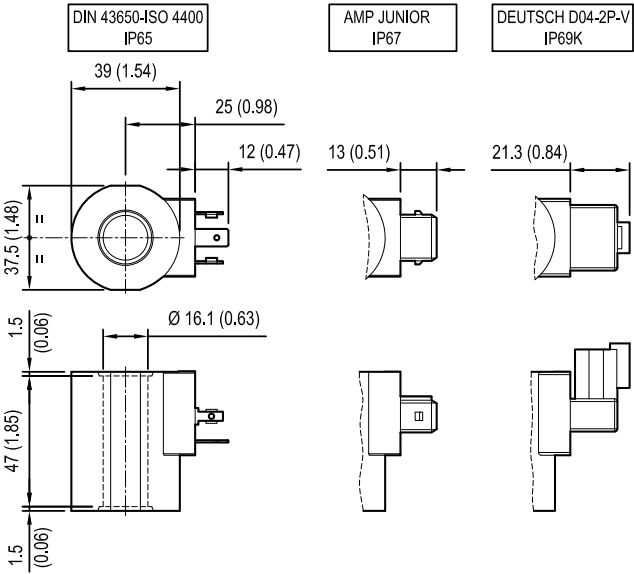
Special cavity: 019-E

Preferred types

Type	Material number
V389681A10	R932010759
V389681E10	R932008260

Type	Material number

Coil R7-VPR

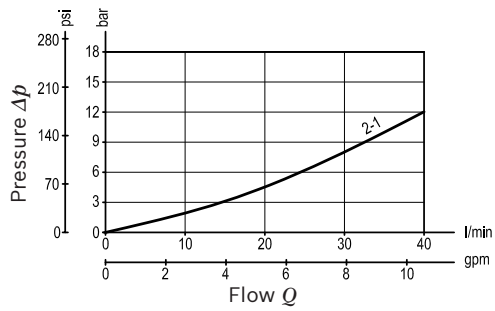


TECHNICAL DATA
Weight: 0.20 kg (0.45 lbs)
Heat insulation Class H: 180°C (356°F)
Ambient temperature range: -30/+80°C (-22/+284°F)
Inlet voltage fluctuations must not exceed ±15% of nominal voltage to obtain correct operation and long life coils.

R-number	Conn.	Voltage V	Resistance Ohm	Current A I max
R930075748	DIN	12	6.7	1.7
R932000790	DIN	24	21.7	1.1
R932008695	AMP J	12	6.7	1.7
R930040824	AMP J	24	21.7	1.1
R930075749	DTV	12	6.7	1.7
R930075750	DTV	24	21.7	1.1

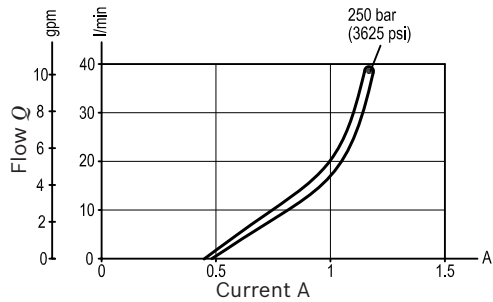
Characteristic curves

Wide open pressure drop



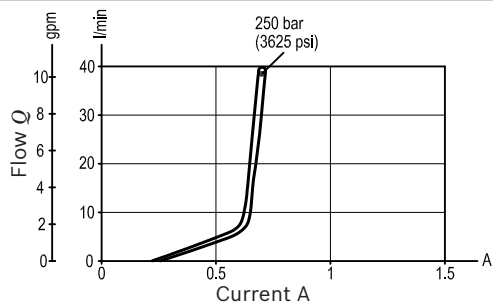
Flow vs. Current at various differential pressures

12V
I max. 1.7A



P bar (psi)	I (A) min.
50 (725)	0.45 ± 0.1
150 (2175)	0.50 ± 0.1
250 (3625)	0.55 ± 0.1

24V
I max. 1.1A

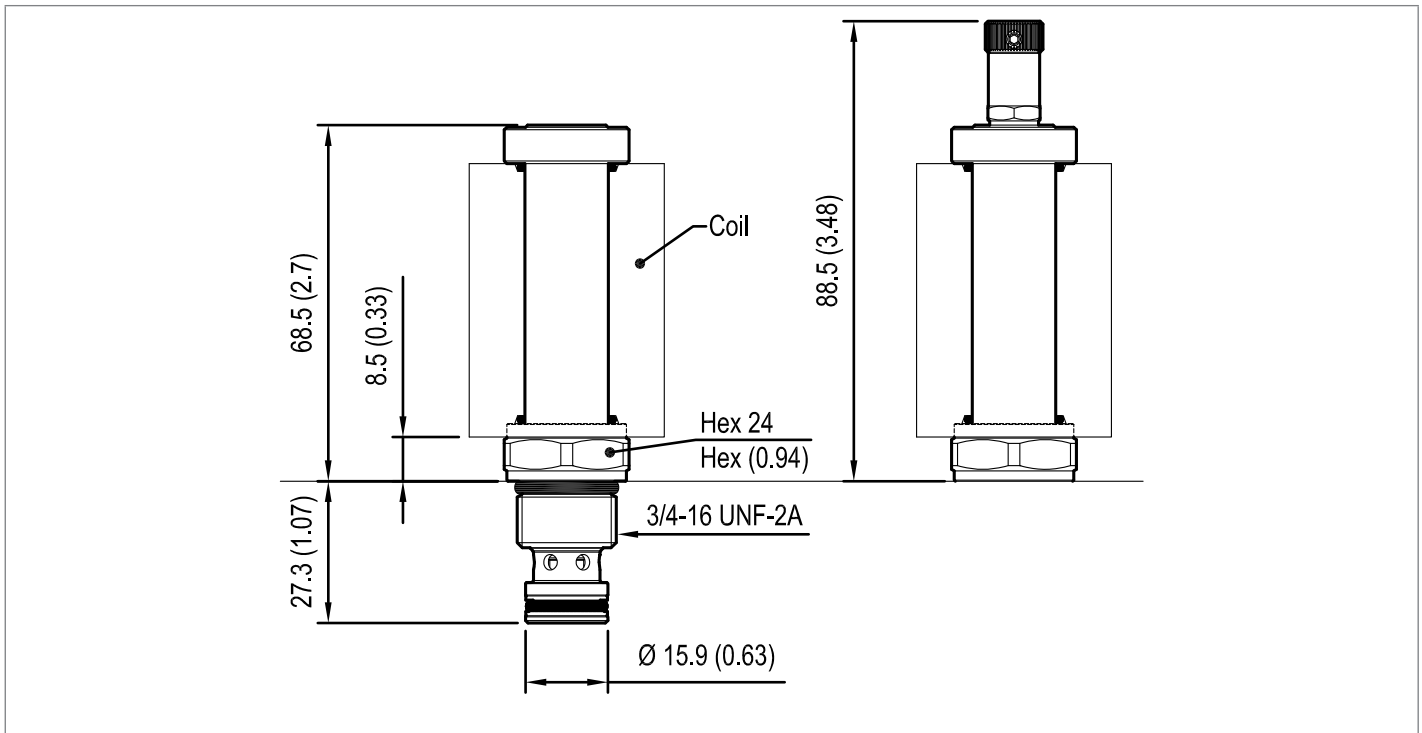


P bar (psi)	I (A) min.
50 (725)	0.25 ± 0.05
150 (2175)	0.30 ± 0.05
250 (3625)	0.35 ± 0.05

PWM Frequency: 120-150 Hz

Hysteresis: < 10%

Note: Performance using coil without diode.

Dimensions▼ **Proportional valves 2-way normally closed****Bosch Rexroth Oil Control S.p.A.**

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