rexroth
A Bosch Company

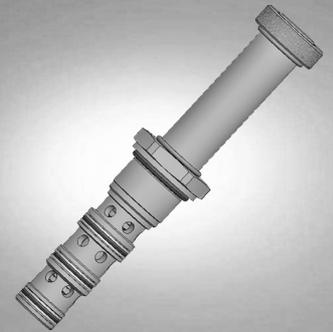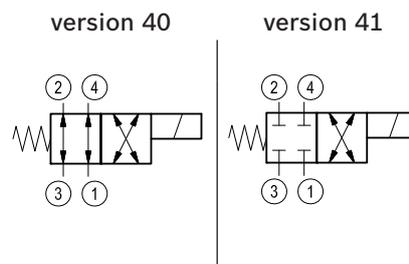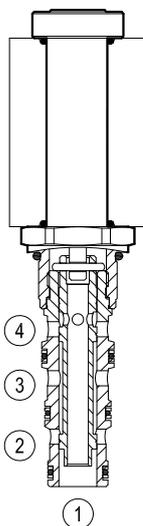# Solenoid operated valves direct acting spool 4-way 2-position

Common cavity, Size 10

VED-10A-42	OD.14 - 4W - 78 - Y - 00

version 40   version 41

General

Weight	kg (lbs)	0.22 (0.48)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140) - coil 30W

Hydraulic

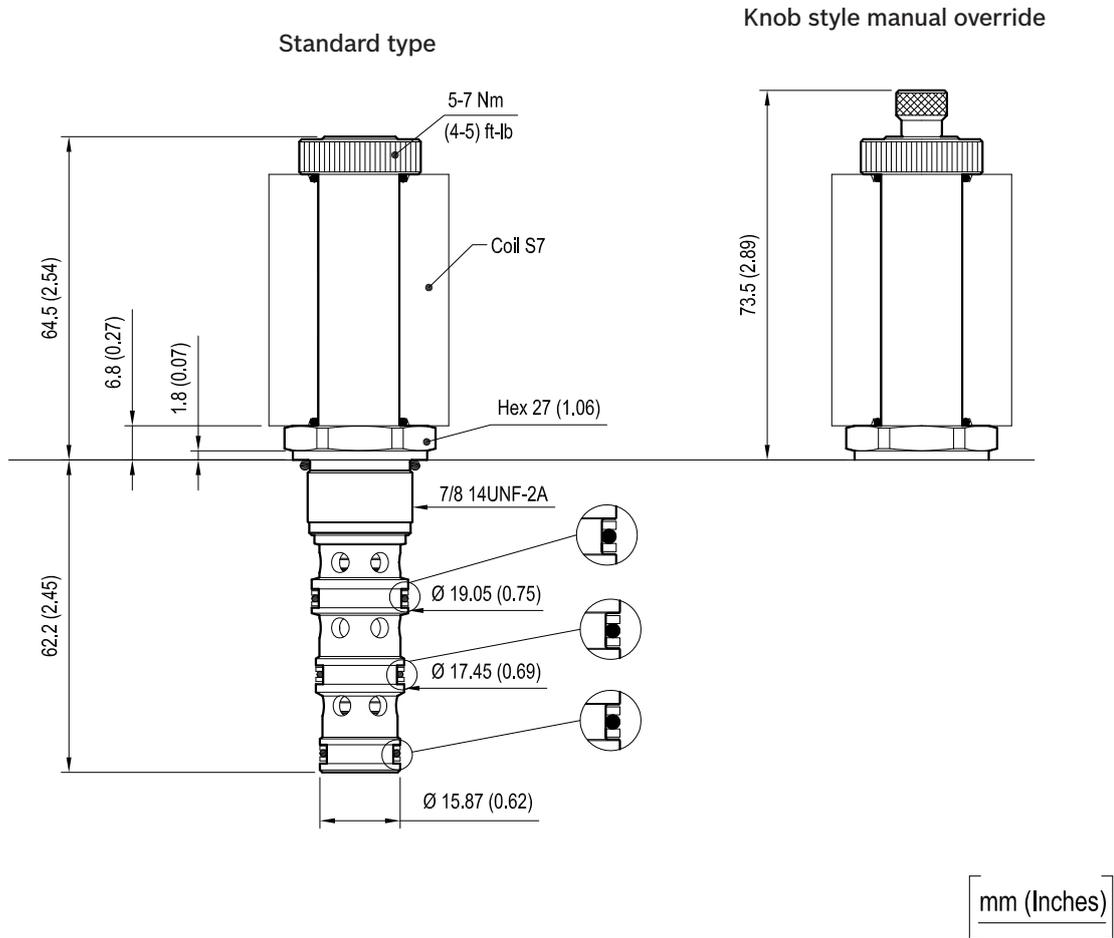| Max. operating pressure port 2-3-4	bar (psi)	280 (4000)
Max. operating pressure port 1		210 (3000)
Max. flow	l/min. (gpm)	20 (6)
Max. internal leakage (*)	cm^3/min. (cu.in./min.)	80 (5)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm^2/s (cSt)
Installation torque	Nm (ft-lbs)	44-56 (33-41)
Recommended degree of fluid contamination		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
MTTFd		150 years see 18350-51
Cavity		CA-10A-4N see RE 18325-70
Lines bodies and standard assemblies		Please refer to section "Hydaulic integrated circuit" or consult factory
Seal kit	code material no.	RG10A4010530100 R901111373
Seal kit coil	code material no.	RG16A1PMVQ0010 R934003962
Other technical data		See data sheet RE 18350-50

(*) Measured at 210 bar (3000 psi) (oil at 46 cSt)

Electrical

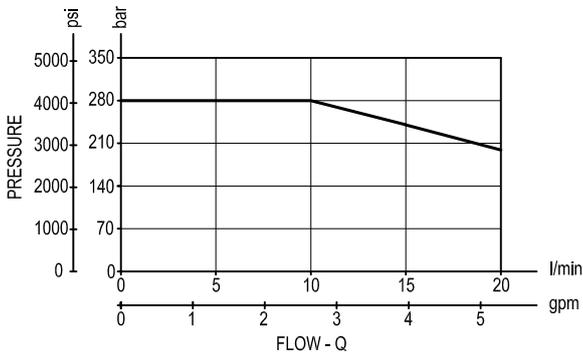| Type of voltage	DC voltage
Coil type	S7
Supply voltage	See data sheet RE 18325-90
Power consumption	W	30
Duty cycle coil	%	100 see RE 18325-90
Type of protection	See data sheet RE 18325-90
Nominal voltage	coil 30W	-10% + 10%

Note: Coils must be ordered separately.

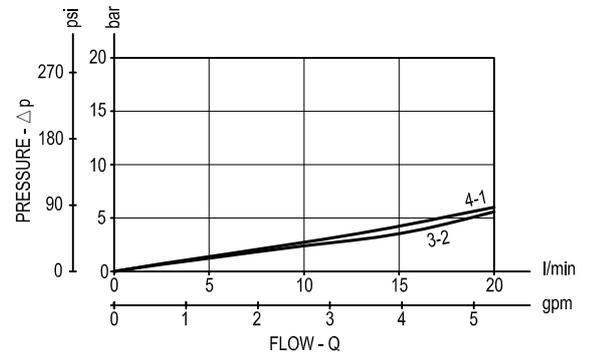## Dimensions

Solenoid operated valve, spool 4-way 2-position

Standard type

Knob style manual override

5-7 Nm
(4-5) ft-lb

Coil S7

64.5 (2.54)

6.8 (0.27)

1.8 (0.07)

Hex 27 (1.06)

73.5 (2.89)

7/8 14UNF-2A

62.2 (2.45)

Ø 19.05 (0.75)

Ø 17.45 (0.69)

Ø 15.87 (0.62)

mm (Inches)

Performance graphs
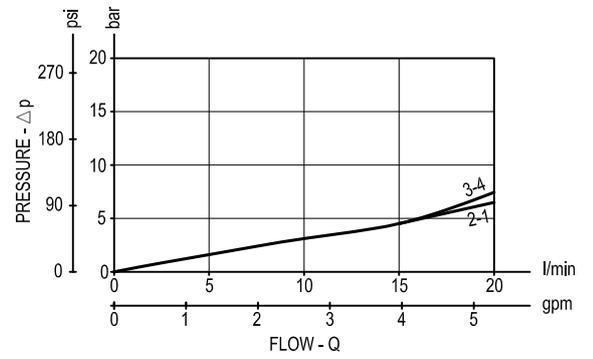
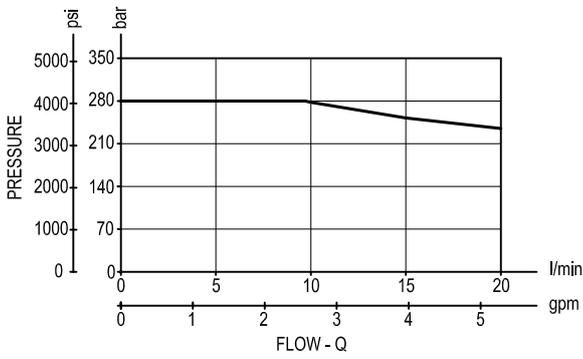### Performance limits
(Hot coil at nominal voltage)

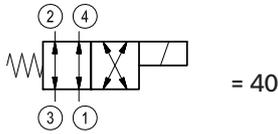### Version 40

Characteristic curves

Version 41

Ordering code
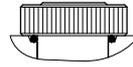
| OD.14 | * | 78 | * | 00 |

Solenoid operated valves
spool 4-way 2 position

= 40

= 41
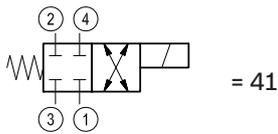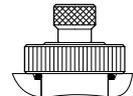
standard type

70 =

Knob style manual override

71 =

Common cavity: CA-10A-4N

Type	Material number	Type	Material number
OD144078700000	R901113695		
OD144078710000	R901113699		
OD144178700000	R901126906		