

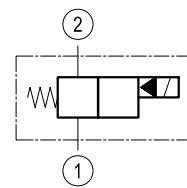
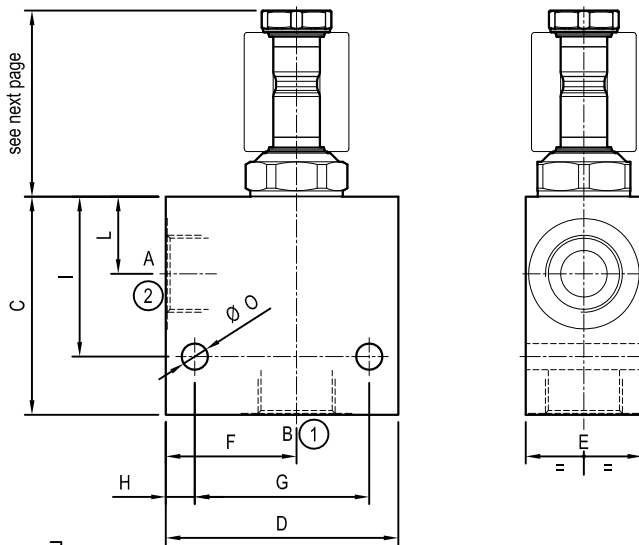
Solenoid operated valves 2-way 2-positions
Common cavity size 12
Cartridge style in manifold

VEI-CS-16-12A

OS.15 - K -89 - X - Y - Z - W

RE 18331-60

Edition: 12.2017



Cartridge schemes (K)

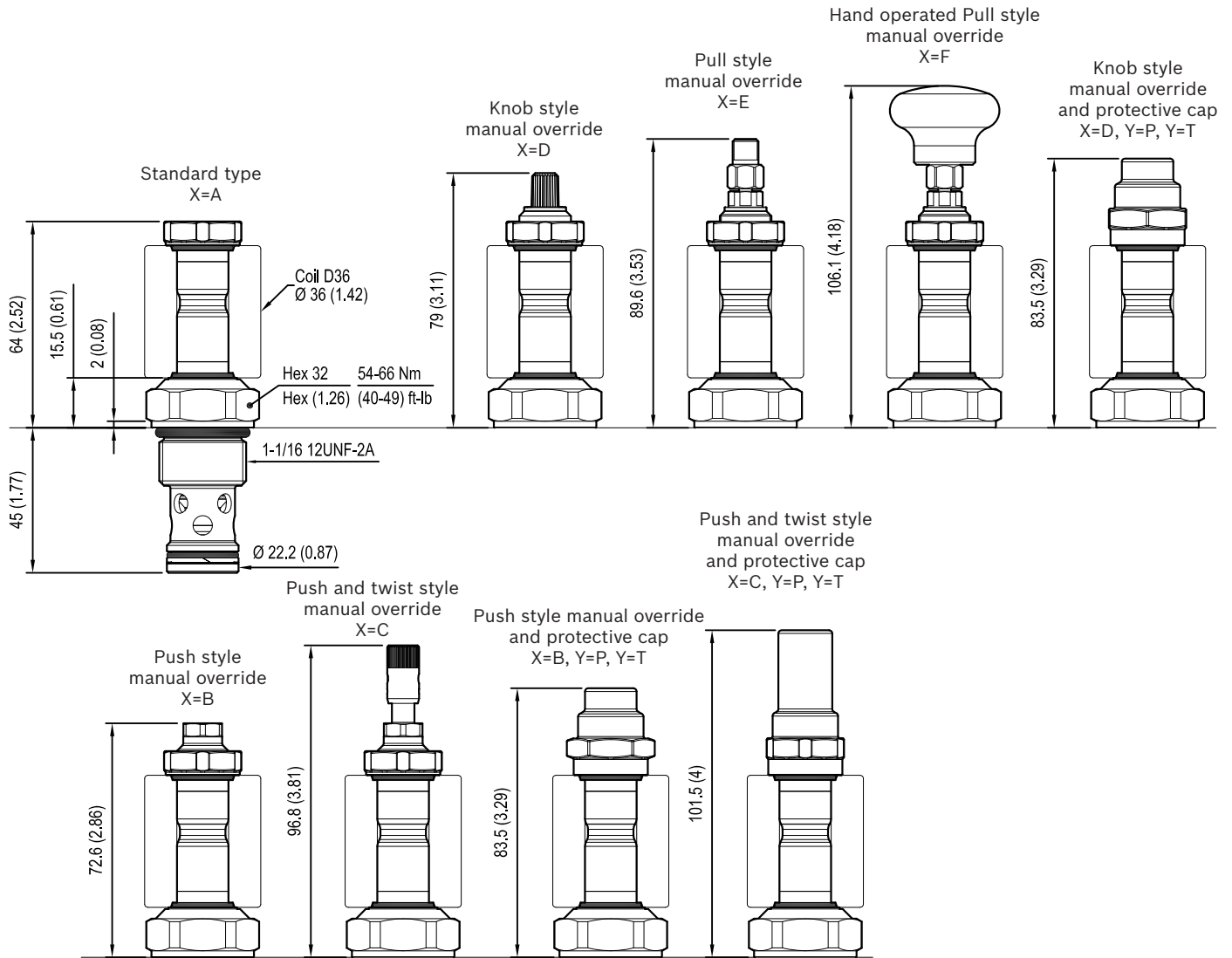
monodirectional type	bidirectional type
	05
	06

[mm (inches)]

A - B	C	D	E	F	G	H	I	L	O
G 3/4	75 (2.95)	80 (3.15)	40 (1.58)	45 (1.77)	60 (2.36)	10 (0.39)	55 (2.17)	26.5 (1.04)	9 (0.35)
G 1	75 (2.95)	80 (3.15)	50 (1.97)	45 (1.77)	60 (2.36)	10 (0.39)	55 (2.17)	26.5 (1.04)	9 (0.35)

Technical data

Max. flow	up to 150 l/min (40 gpm)
Max. operating pressure for steel body	350 bar (5000 psi)
Max operating pressure for aluminium body	210 bar (3000 psi)
Ambient temperature range	-30 to 90 °C (-22 to 194 °F)
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)	
MTTFd	150 years see RE 18350-51
To order manifold only, see data sheet RE 18325-85	
Other technical data	See data sheet 18350-50



Cartridge technical data

General	
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)
Max. internal leakage	20 drops/min.
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 ² /s (cSt)	
Installation torque	56 - 66 Nm (40 - 49 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-12A-2N see data sheet 18325-70
Other technical data	See data sheet 18350-50

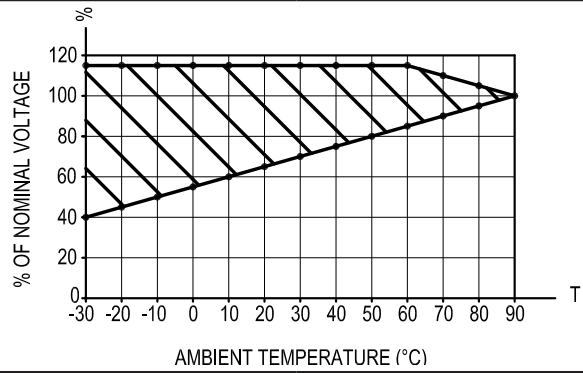
Electrical	
Type of voltage	DC voltage
Coil type	D36
Supply voltage	See data sheet 18325-90
Voltage tolerance against ambient temperature	See characteristic curve
Power consumption	20 W
Type of protection	See data sheet 18325-90
Note: Coils must be ordered separately	

TAB. 1 Manual override options (X)

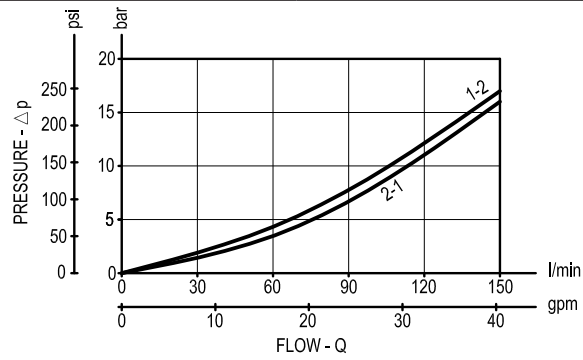
Seal and prot. cap. (Y)	Manual override options (X)					
	A	B	C	D	E	F
O	K=all versions	K=06	K=06	K=05	K=05	K=05
V	K=all versions	K=06	K=06	K=05	K=05	K=05
P	/	K=06	K=06	K=05	/	/
T	/	K=06	K=06	K=05	/	/

Characteristic curves

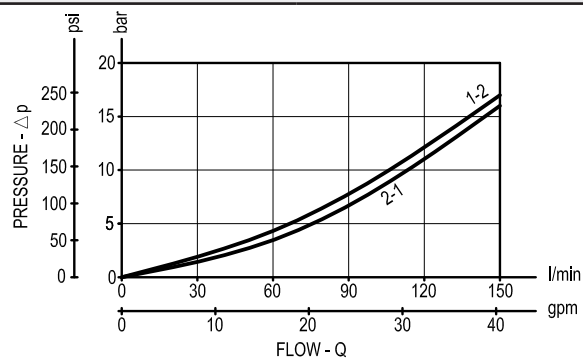
All Versions - Admissible supply voltage Vs. Ambient temperature at 100% duty cycle



Version 05



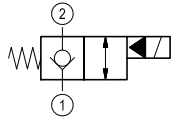
Version 06



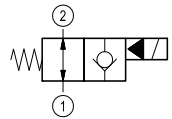
Ordering code

OS.15	K	89	X	Y	Z	W
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Solenoid operated valves
2-way 2-positions
Common cavity size 12
Cartridge style in manifold



05



06

Manifold material

00 Aluminium

S0 Steel

Manifold port sizes

04 G 3/4

05 G 1

Cartridge seals and accessories options

0 = With buna seal

V = With Viton seal

P = With buna seal and protective cap for override version **B, C** and **D**

T = With Viton seal and protective cap for override version **B, C** and **D**

Cartridge options

A = Standard

B = Push style manual override

C = Push and twist style manual override

D = Knob style manual override

E = Pull style manual override

F = Hand operated pull style manual override

Common cavity size 12

Note: for solutions availability (K-X-Y combinations), please refer to TAB.1 on page 2.

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