

# Solenoid operated valves 2-way 2-positions

## Special cavity

## Cartridge style in manifold

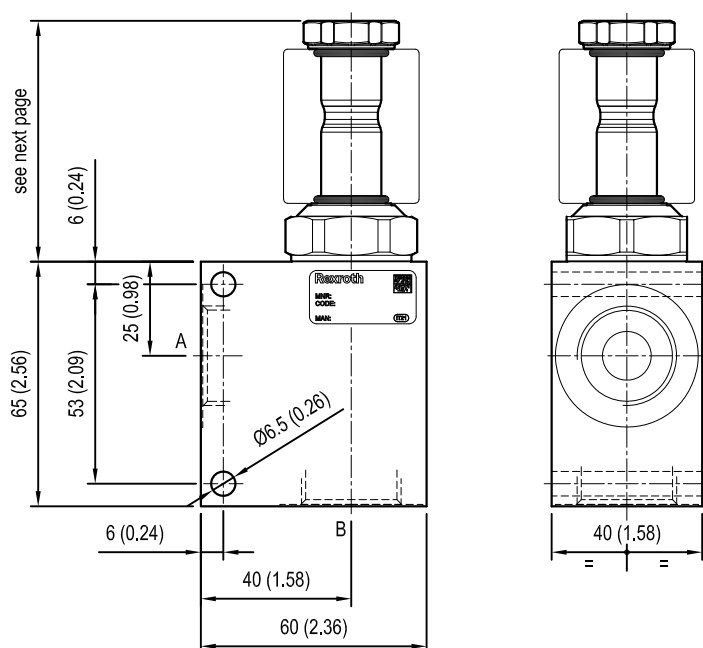
VEI-CS-16-017

OS.15 - K - 17 - X - Y - Z - W

**RE 18331-63**

Edition: 04.2023

Replaces: 12.2017



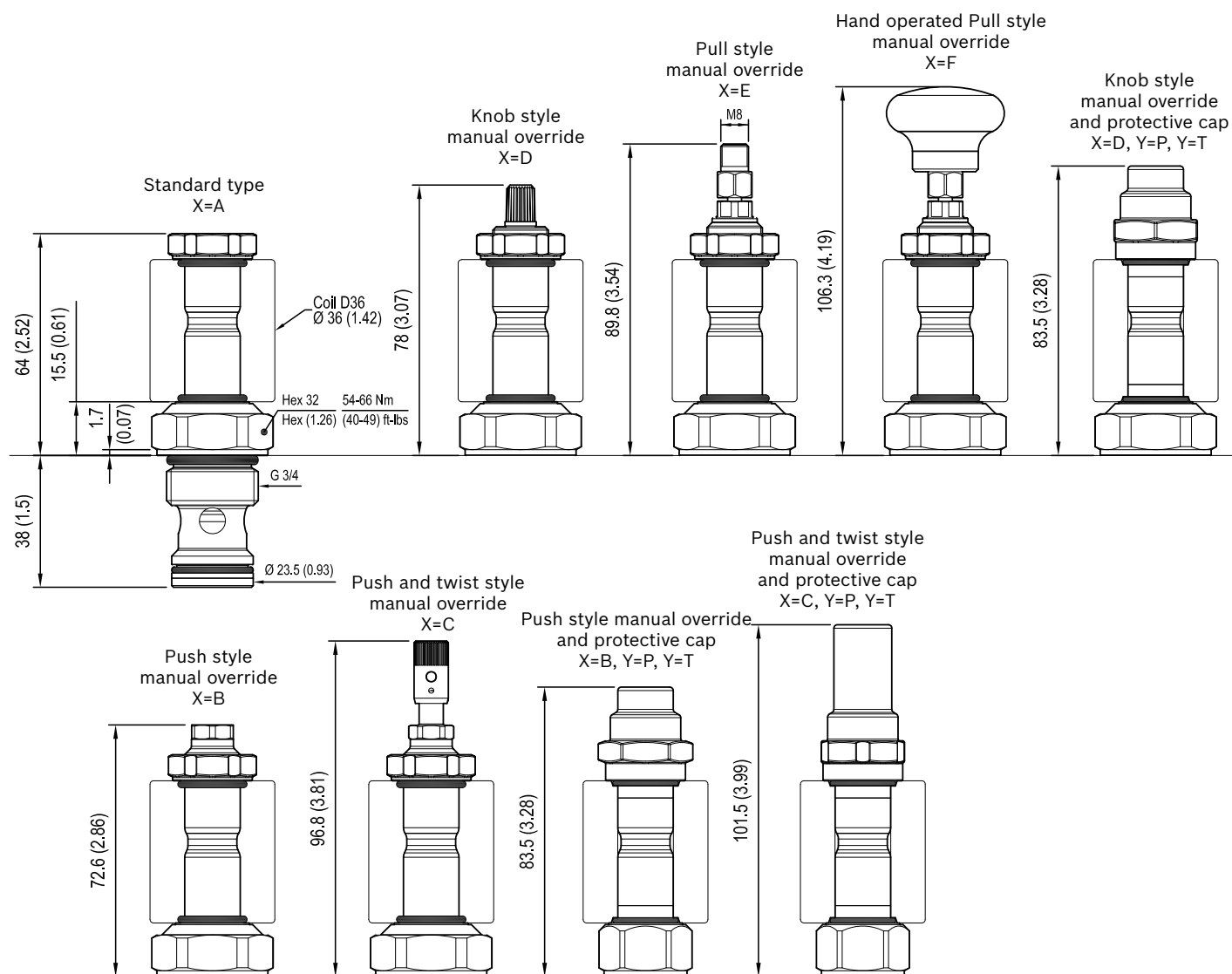
[ mm (inches) ]

### Technical data

Max. flow	up to 70 l/min (18 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 <sup>2</sup> /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 schemes (K)

monodirectional type	bidirectional type
<b>01</b> 	<b>03</b> 
<b>02</b> 	<b>05</b> 
<b>11</b> 	<b>06</b> 
<b>12</b> 	<b>31</b> 
	<b>32</b> 



### Cartridge technical data

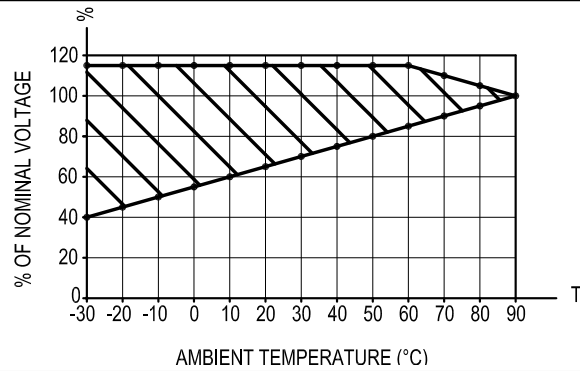
General	
Installation orientation	Unrestricted
Ambient temperature range	-30 to 90 °C (-22 to 194 °F)
Hydraulic	
Max. operating pressure	350 bar (5000 psi)
Flow range	2 - 70 l/min (0.53 - 18 gpm)
Max. internal leakage	20 drops/min.
Switching time	Opening ≤ 50 ms Closing ≤ 100 ms
Fluid temperature range	-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	54 - 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
Special cavity	017-E see data sheet 18325-75
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)		A	B	C	D	E	F
	O	K=all versions	K=02; K=06 K=12; K=32	K=02; K=06 K=12; K=32	K=01; K=05 K=11; K=31 K=03	K=01; K=05 K=11; K=31 K=03	K=01; K=05 K=11; K=31 K=03
	V	K=all versions	K=02; K=06 K=12; K=32	K=02; K=06 K=12; K=32	K=01; K=05 K=11; K=31 K=03	K=01; K=05 K=11; K=31 K=03	K=01; K=05 K=11; K=31 K=03
	P	/	K=02; K=06 K=12; K=32	K=02; K=06 K=12; K=32	K=01; K=05 K=11; K=31 K=03	/	/
	T	/	K=02; K=06 K=12; K=32	K=02; K=06 K=12; K=32	K=01; K=05 K=11; K=31 K=03	/	/

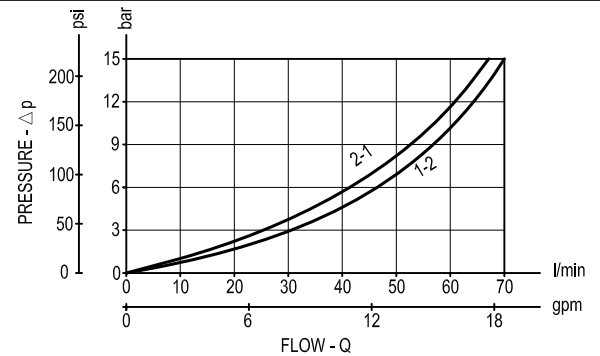
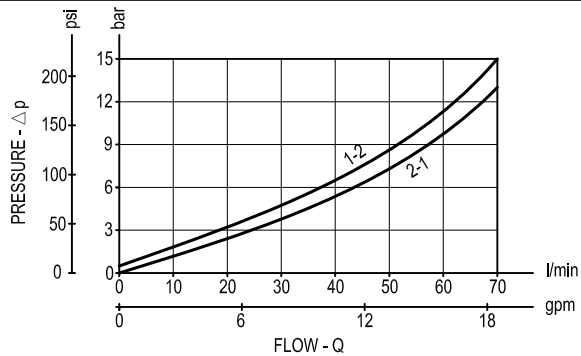
## Characteristic curves

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



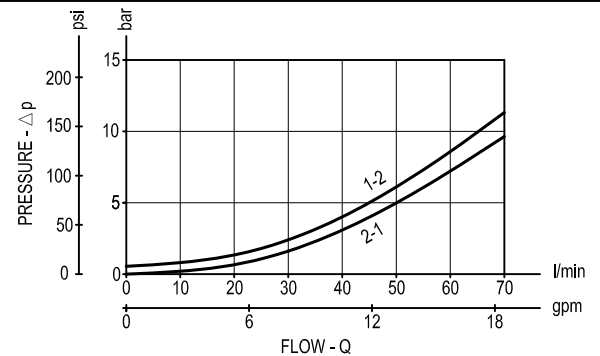
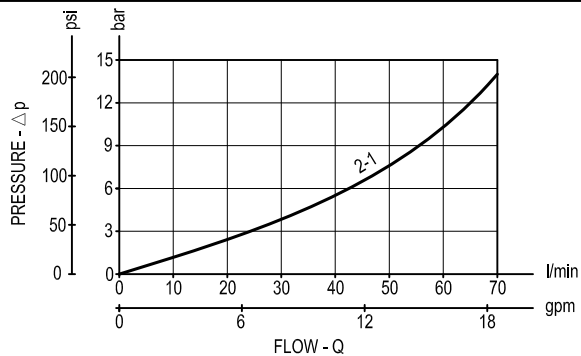
**Version 01,02,05,06**

**Version 03**

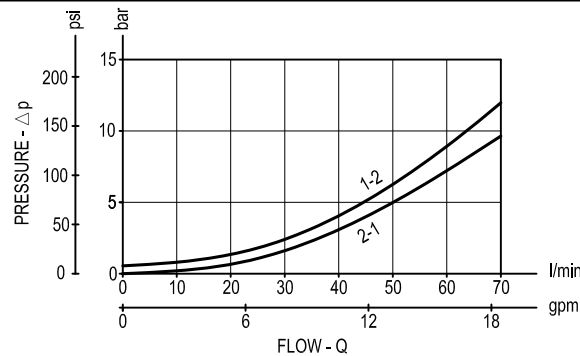


**Version 11,12**

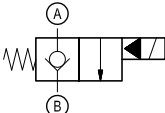
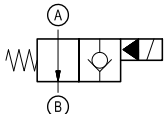
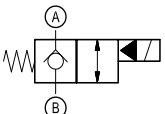
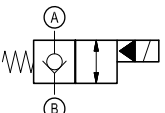
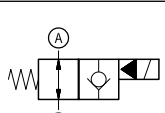
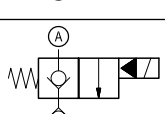
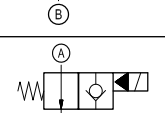
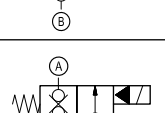
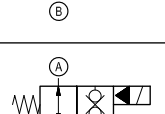
**Version 31**



**Version 32**



**Ordering code**

OS.15							K	17	X	Y	Z	W
Solenoid operated valves 2-way 2-positions Special cavity Cartridge style in manifold												
							01					
							02					
							03					
							05					
							06					
							11					
							12					
							31					
							32					
							<b>Manifold material</b> 00 Aluminium S0 Steel					
							<b>Manifold port sizes</b> 03 G 1/2 04 G 3/4					
							<b>Cartridge seals and accessories options</b> 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					
							<b>Cartridge options</b> 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					
							Special cavity 017-E					
							<b>Note:</b> for solutions availability (K-X-Y combinations), please refer to TAB.1 on page 2.					

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