

# Standard integrated circuit relief valve with solenoid by-pass

RE 18332-46

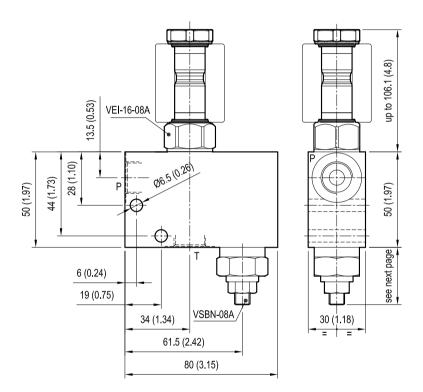
Edition: 12.2019

Replaces: 12.2016

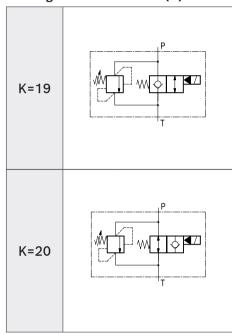
OL - K - Y - Z - X - W- 00

## **Dimensions**

VFI-16-08A-VSBN-08A



#### Configurations available (K)



mm (inches)

#### Technical data

Max. flow:	up to 20 l/min (5 gpm)
Max. operating pressure:	210 bar (3000 psi)

Standard manifold in high strength aluminium.

For working pressure up to 350 bar (5000 psi) and for fatigue applications with any working pressure, steel manifolds are available upon request.

Weight: 0.5 kg (1.1 lbs)

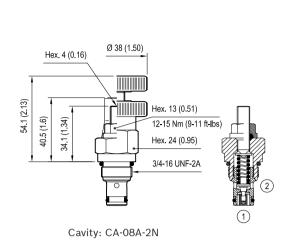
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm<sup>2</sup>/s (cSt)

This integrated circuit contains one relief valve type VSBN-08A operating from P to T and one solenoid valve type VEI-16-08A

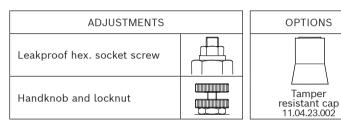
Other technical data See data sheet 18350-50

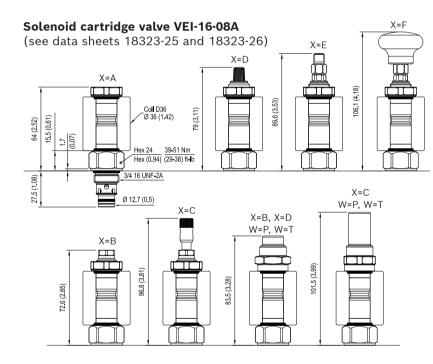
## 2

# Cartridge valve VSBN-08A (see data sheet 18318-04)



		VSBN-08A Setting				
Z		Adj. pressure range bar (psi)	Press. increase bar/turn (psi/turn)	Std. setting bar (psi) (Q=5 l/min)		
	04	35-140 (500-2000)	50 (725)	100 (1450)		
	07	105-210 (1500-3000)	79 (1145)	200 (2900)		
	10	175-350 (2500-5000)	170 (2465)	350 (5000)		
	08	35-350 (500-5000)	72 (1044)	200 (2900)		





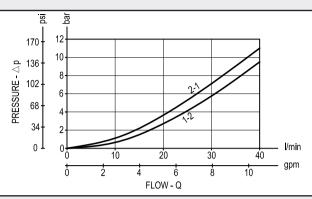
TAE	3. 1	Manual override options (X)					
		Α	В	С	D	E	F
cap. (W)	0	K=19 K=20	K=20	K=20	K=19	K=19	K=19
prot. ca	V	K=19 K=20	K=20	K=20	K=19	K=19	K=19
and	Р	/	K=20	K=20	K=19	/	/
Seal	т	/	K=20	K=20	K=19	/	/

#### Technical data

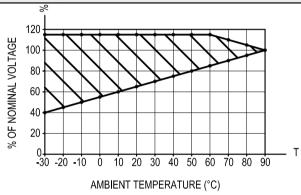
General				
Installation orientation	Unrestricted			
Ambient temperature range	-30 to 90 °C (-22 to 194 °F)			
Hydraulic				
Max. operating pressure	350 bar (5000 psi)			
Flow range	0.5 - 40 l/min (0.1 - 11 gpm)			
Max. internal leakage	5 drops/min.			
Switching time	Opening ≤ 50 ms			
	Closing ≤ 100 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	39 - 51 Nm (29 - 38 ft-lbs)			
Recommended degree of fluid contamination	Nominal value max. 10 µm (NAS 8) ISO 4406 19/17/14			
MTTFd	150 years (see 18350-51)			
Cavity	CA-08A-2N (see 18325-70)			
Other technical data	See data sheet 18350-50			
Electrical				
Type of voltage	DC voltage			
Coil type	D36			
Supplyvoltage	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				

#### Characteristic curves

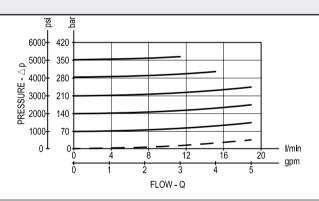
# VEI-16-08A all versions



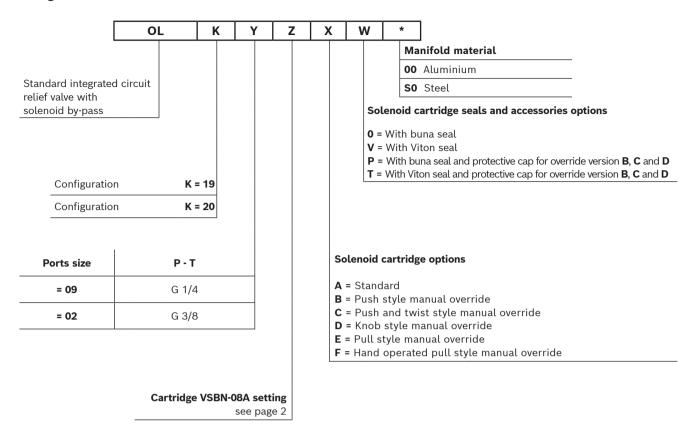
# VEI-16-08A all Versions - Admissible supply voltage Vs. Ambient temperature at 100% duty cycle



#### VSBN-08A



#### **Ordering code**



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

#### Bosch Rexroth Oil Control S.p.A.

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