Part number:

HYDROMA HYDRAULICKÉ SYSTÉMY

HIDROMA SISTEMS UKŁADY HYDRAULICZNE

HYDROMA ГИДРАВЛИЧЕСКИЕ СИСТЕМЫ

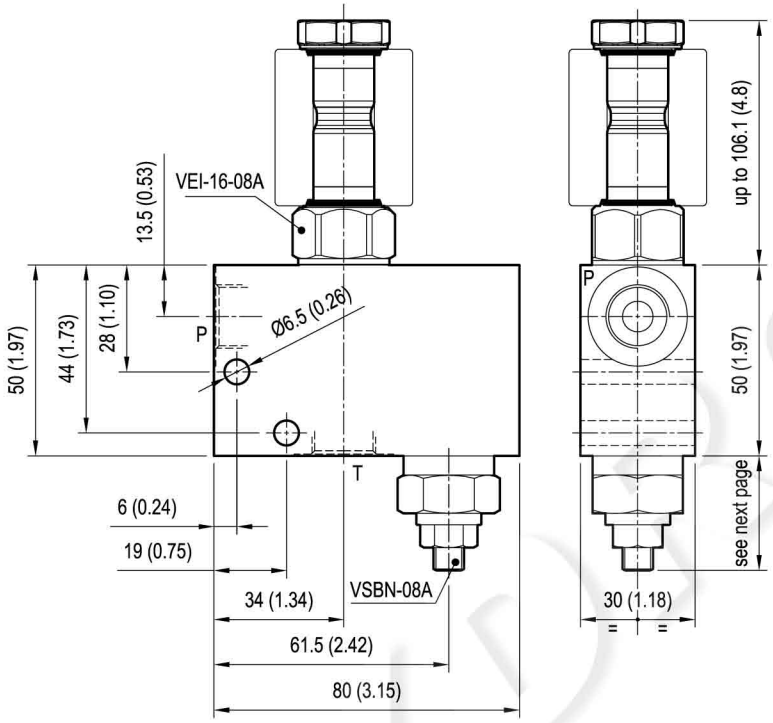
Standard integrated circuit relief valve with solenoid by-pass

VEI-16-08A-VSBN-08A

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

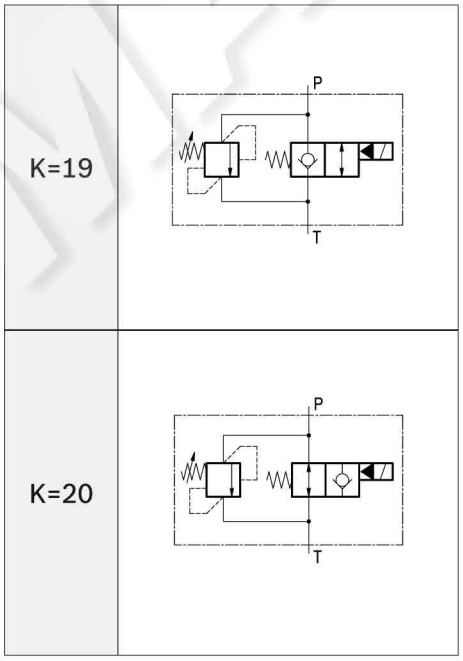
RE 18332-46
Edition: 12.2016

Dimensions



mm (inches)

Configurations available (K)

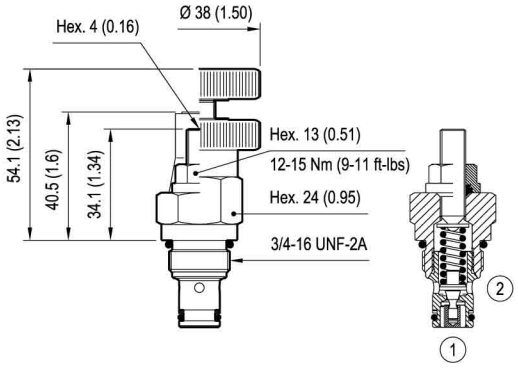


Technical data

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^2/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

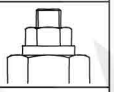
Dimensions [mm (inches)]

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

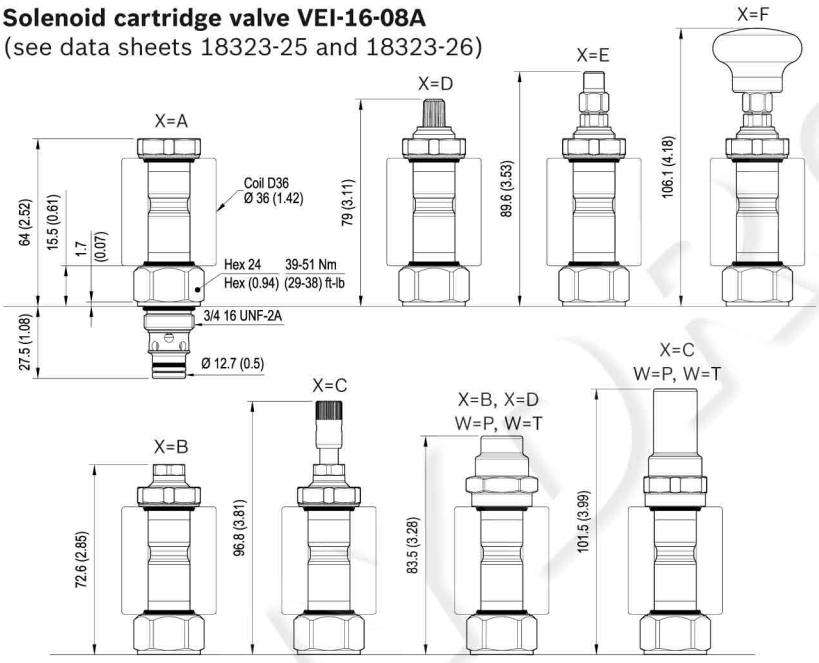


Cavity: CA-08A-2N

Z		VSBN-08A Setting		
		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)

ADJUSTMENTS		OPTIONS
Leakproof hex. socket screw		
Handknob and locknut		Tamper resistant cap 11.04.23.002

Solenoid cartridge valve VEI-16-08A
(see data sheets 18323-25 and 18323-26)



TAB. 1

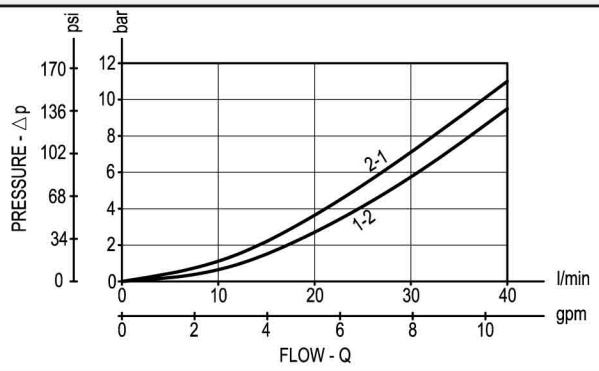
Seal and prot. cap. (W)	Manual override options (X)					
	A	**B**	**C**	**D**	**E**	**F**
0	K=19 K=20	K=20	K=20	K=19	K=19	K=19
V	K=19 K=20	K=20	K=20	K=19	K=19	K=19
P	/	K=20	K=20	K=19	/	/
T	/	K=20	K=20	K=19	/	/

Technical data

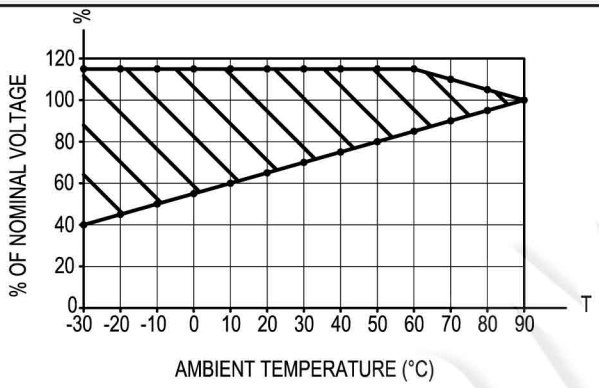
General	
Installation orientation	Unrestricted
Ambient temperature range	-30 to 90 °C (-22 to 194 °F)
Hydraulic	
Max. operating pressure	350 bar (5000 psi)
Flow range	0.5 - 40 l/min (0.1 - 11 gpm)
Max. internal leakage	5 drops/min.
Switching time	Opening ≤ 50 ms
	Closing ≤ 100 ms
Fluid temperature range	-20 to 80 °C (-4 to 176 °F)
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm^2/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
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	

Characteristic curves

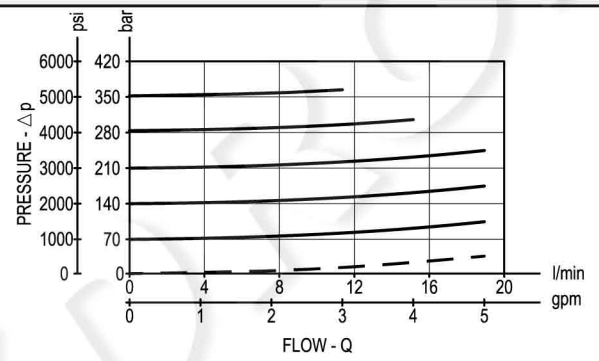
VEI-16-08A all versions



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



VSBN-08A



Ordering code

OL	K	Y	Z	X	W	00

Standard integrated circuit relief valve with solenoid by-pass

Configuration	**K = 19**
Configuration	**K = 20**

Ports size	**P - T**
= 09	G 1/4
= 02	G 3/8

Cartridge VSBN-08A setting
see page 2

Solenoid 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

Solenoid 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**

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