Part number:

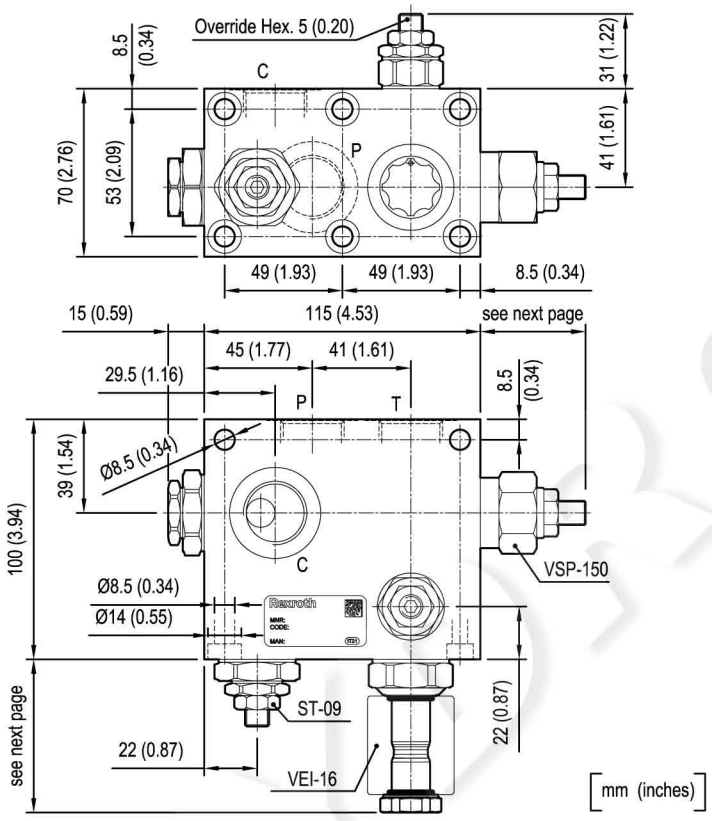
HYDROMA HYDRAULICKÉ SYSTÉMY | HIDROMA SISTEMS UKŁADY HYDRAULICZNE | HYDROMA ГИДРАВЛИЧЕСКИЕ СИСТЕМЫ

Standard integrated circuit for single-acting cylinder

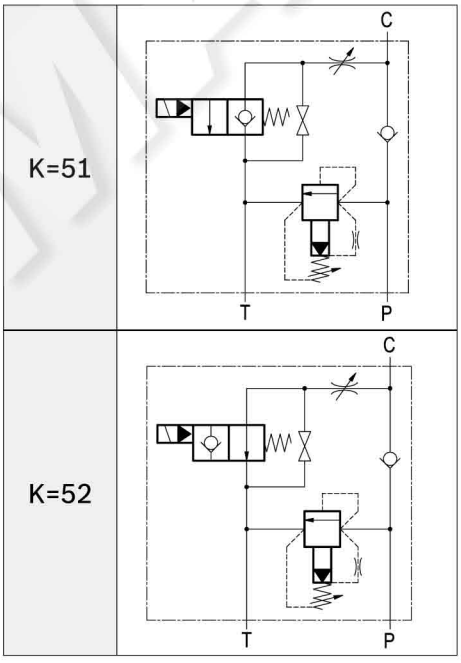
VEI16-VU-VSP15020-ST-09 OL - K - Y - Z - X - W- 00

RE 18332-51
Edition: 04.2023
Replaces: 09.2019

Dimensions



Configurations available (K)

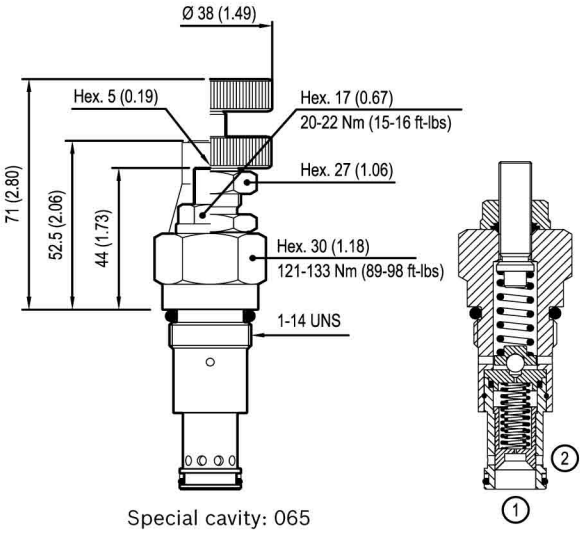


Technical data

Max. flow:	up to 70 l/min (19 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:	2.6 kg (5.7 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 VSP-150 operating from P to T and one solenoid valve type VEI-16-	
Other technical data	See data sheet 18350-50

Dimensions [mm (inches)]

Cartridge valve VSP-150



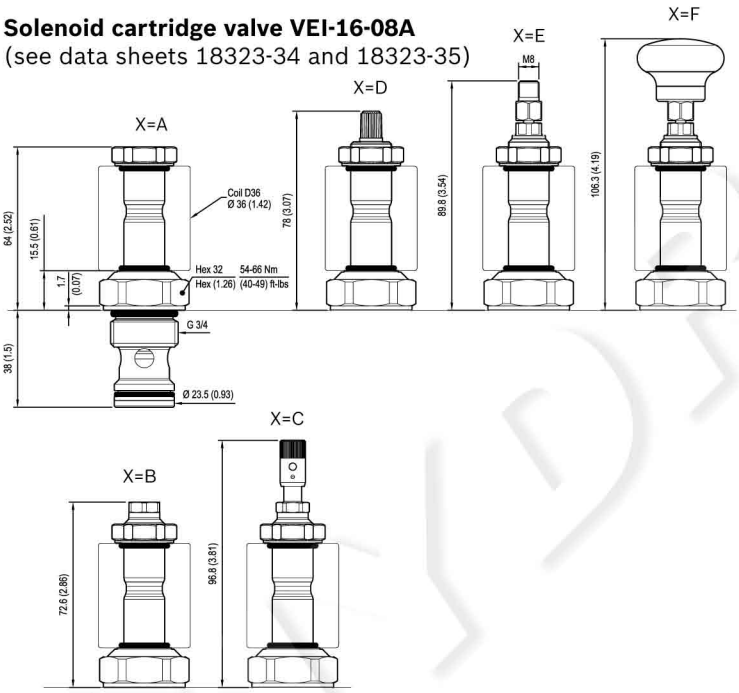
Special cavity: 065

Z		VSP-150 Setting		
		Adj. pressure range bar (psi)	Press. increase bar/turn (psi/turn)	Std. setting bar (psi) (Q=5 l/min)
	**01**	3-70 (44-1000)	20 (290)	50 (725)
	04	7-105 (100-1500)	26 (377)	100 (450)
	07	10-210 (145-3000)	35 (508)	200 (2900)
	10	35-420 (500-6000)	115 (1668)	350 (5000)
	**02**	3-70 (44-1000)	20 (290)	50 (725)
	05	7-105 (100-1500)	26 (377)	100 (1450)
	08	10-210 (145-3000)	35 (508)	200 (2900)
	11	35-420 (500-6000)	115 (1668)	350 (5000)

ADJUSTMENTS		OPTIONS
Leakproof hex. socket screw		
Handknob and locknut		Tamper resistant cap 11.04.23.003

Solenoid cartridge valve VEI-16-08A

(see data sheets 18323-34 and 18323-35)



TAB. 1

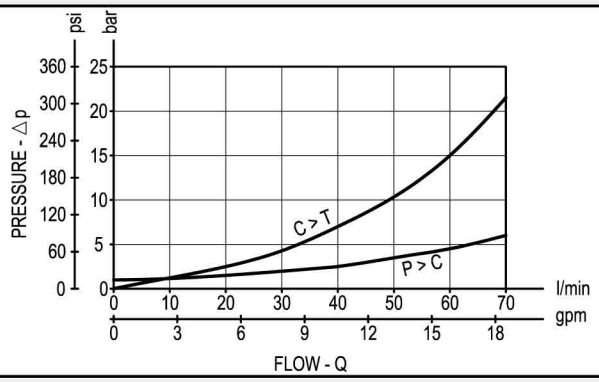
Seal and prot. cap. (W)	Manual override options (X)					
	A	**B**	**C**	**D**	**E**	**F**
0	K=51 K=52	K=52	K=52	K=51	K=51	K=51
V	K=51 K=52	K=52	K=52	K=51	K=51	K=51
P	/	K=52	K=52	K=51	/	/
T	/	K=52	K=52	K=51	/	/

Technical data

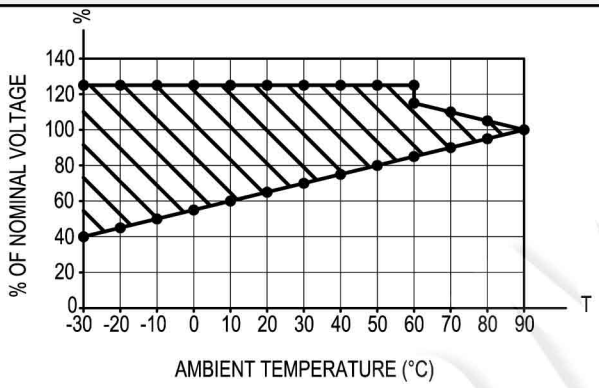
General	
Installation orientation	Unrestricted
Ambient temperature range	-30 to 90 °C (-22 to 194 °F)
Hydraulic	
Max. operating pressure	350 bar (5000 psi)
Flow range	2 - 70 l/min (0.53 - 18 gpm)
Max. internal leakage	20 drops/min.
Switching time	Opening ≤ 50 ms
	Closing ≤ 100 ms
Fluid temperature range	-20 to 80 °C (-4 to 176 °F)
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm^2/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 18350-51)
Special cavity	017-E (see 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	

Characteristic curves

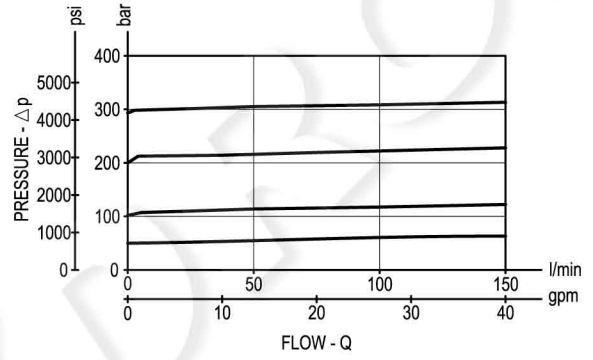
VEI-16-08A-VU-VS-ST-09 - all versions



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



VSP-150



Ordering code

OL	K	Y	Z	X	W	00

Standard integrated circuit for single-acting cylinder

Configuration	**K = 51**
Configuration	**K = 52**

Ports size	**P - T - C**
= 04	G 3/4

Cartridge VSP-150 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.