Sandwich valve
module with solenoid valve and flow restrictor

RE 18332-87
Edition: 04.2023
Replaces: 12.2016

EM-VEI-16-08A-ST-CETOP 3-A1   OP.61 - K - X - 29 - Y - Z

Dimensions

CETOP 3
T/T1
B/B1
A/A1
P/P1

3-4 Nm
(2.2-3 ft-lbs)

Hex. 24 (0.95)
39-51 Nm (28.8-37.6 ft-lbs)

34.5 (1.36)

45 (1.77)

6.2 (0.24)

O-Ring seat
Ø 12 (0.47)
Ø 5.5 (0.22)
24 (0.95)
A1

VEI-16-08A
40 (1.58)

Rexroth
MNR:
CODE:
MAN:

63 (2.48)

Ø 6 (0.24)   A

ST-C-06

up to 106.1 (4.8)   107 (4.21)   see next page
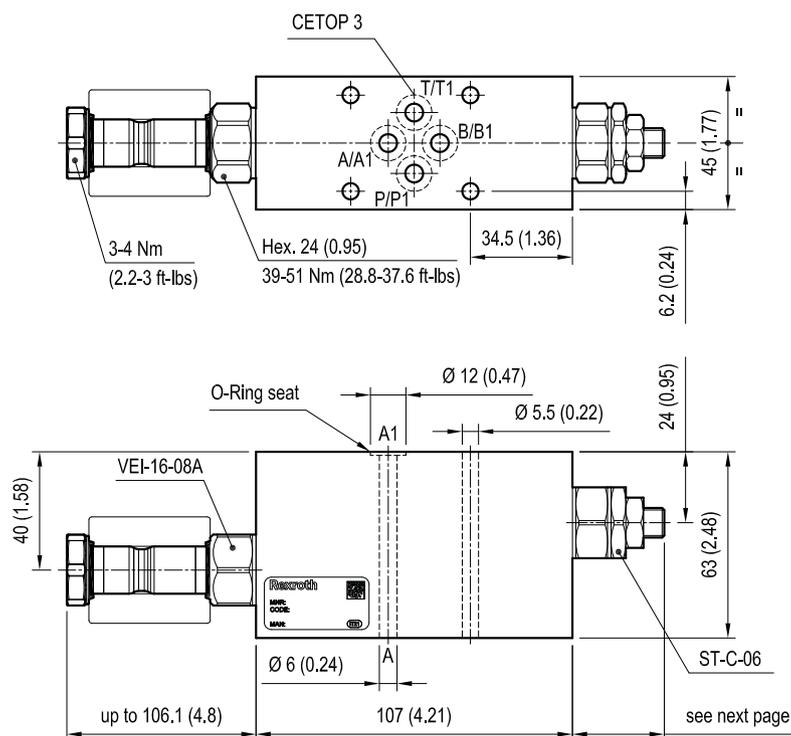
mm (inches)

Configurations available (K)

K=05

A1 P1 T1 B1

A   P   T   B

K=06

A1 P1 T1 B1

A   P   T   B
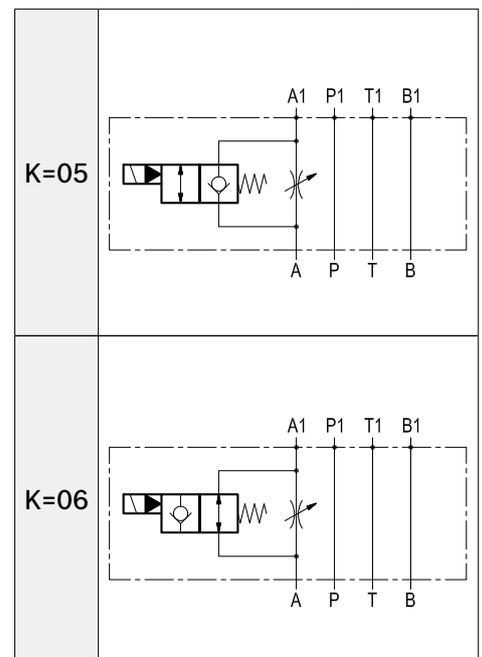
Technical data

Max. flow:	up to 40 l/min (11 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.	
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)	
Other technical data	See data sheet 18350-50

Flow restrictor ST-C-06 (see data sheet 18321-26)

Ø 38 (1.50)

51 (2.01)

32 (1.26)

Hex 24 (0.95)
39-51 Nm (28.8-37.6 ft-lbs)

3/4-16 UNF-2A

Ø 12.7 (0.5)
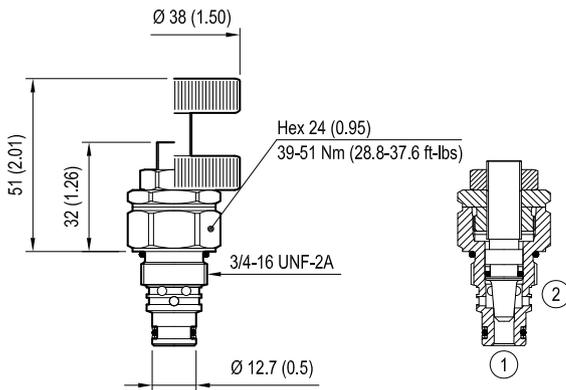
Cavity: CA-08A-2N

X	ST-C-06 ADJUSTMENTS	
03	Leakproof hex. socket screw	
04	Handknob and locknut	

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

Y=A

Y=D

Y=E

Y=F

Coil D36
Ø 36 (1.42)

64 (2.52)

15.5 (0.61)

1.7 (0.07)

Hex 24   39-51 Nm
Hex (0.94) (29-38) ft-lb

3/4 16 UNF-2A

Ø 12.7 (0.5)

27.5 (1.08)

79 (3.11)

89.6 (3.53)

106.1 (4.18)

Y=B

Y=C

Y=B, Y=D
Z=P, Z=T

Y=C
Z=P, Z=T

72.6 (2.85)

96.8 (3.81)

83.5 (3.28)

101.5 (3.99)

Manual override options (Y)							
		A	B	C	D	E	F
Seal and prot. cap. (Z)	0	K=05 K=06	K=06	K=06	K=05	K=05	K=05
	V	K=05 K=06	K=06	K=06	K=05	K=05	K=05
	P	/	K=06	K=06	K=05	/	/
	T	/	K=06	K=06	K=05	/	/
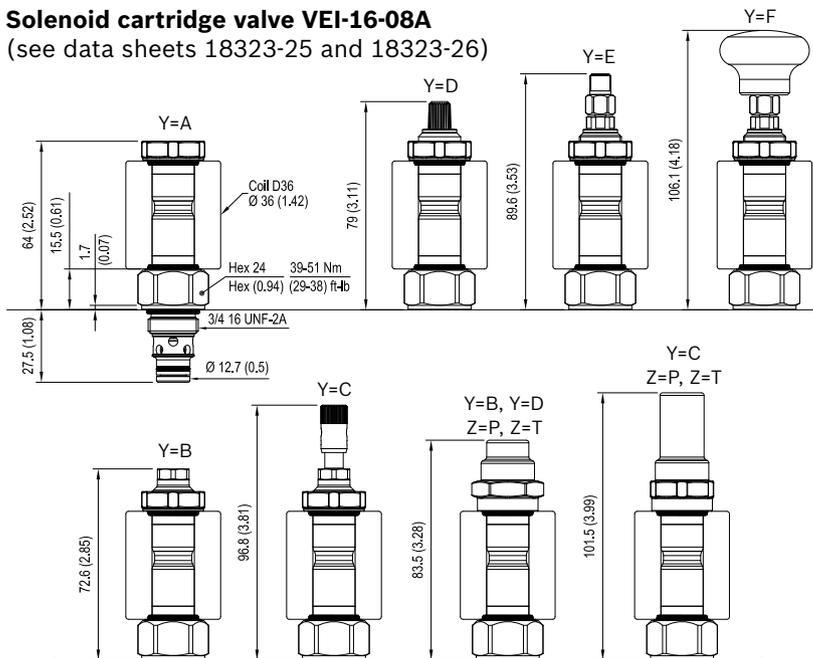
Technical data

| 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 mm²/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

ST-C-06

FULLY OPEN RESTRICTOR - FLOW IN BOTH DIRECTIONS

PRESSURE - $\triangle p$

psi / bar axis: 250 / 20, 200 / 15, 150 / 10, 100, 50 / 5, 0 / 0

FLOW - Q (l/min: 0, 10, 20, 30, 40; gpm: 0, 2, 4, 6, 8, 10)
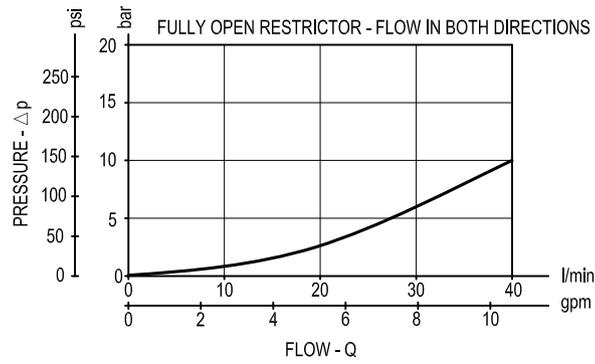
VEI-16-08A all Versions - Admissible supply voltage Vs. Ambient temperature at 100% duty cycle

% OF NOMINAL VOLTAGE (%): 120, 100, 80, 60, 40, 20, 0

AMBIENT TEMPERATURE (°C): -30, -20, -10, 0, 10, 20, 30, 40, 50, 60, 70, 80, 90

VEI-16-08A all Versions

PRESSURE - $\triangle p$

psi / bar axis: 170 / 12, 136 / 10, / 8, 102 / 6, 68 / 4, 34 / 2, 0 / 0

Curves: 2-1, 1-2

FLOW - Q (l/min: 0, 10, 20, 30, 40; gpm: 0, 2, 4, 6, 8, 10)
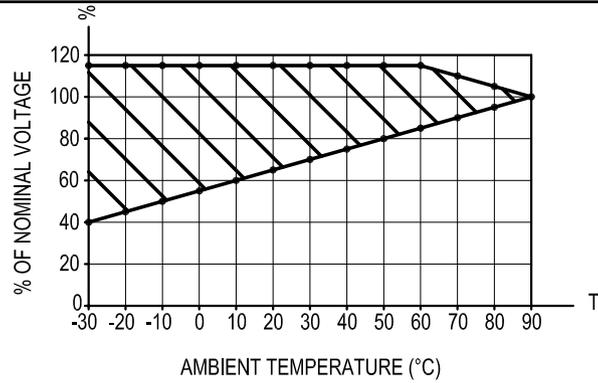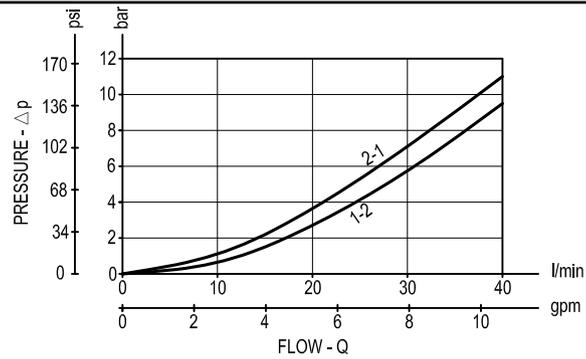
Ordering code

| OP.61 | K | X | 29 | Y | Z |

Sandwich valve module with solenoid valve and flow restrictor

Configuration **05**

Configuration **06**

See page 1

Flow restrictor adjustments
see page 2

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**

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

Flange CETOP 3 (DOT 3)

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