BCARTRIDGE VALVES SAE8-SAE10







SCREW IN, 2-WAY DIRECT OPERATED POPPET VALVES, BI-DIRECTIONAL CONTROL CAVITY 3/4" 16 UNF Ø 12,7 mm

EVD*-34-*

16 l/min 25 MPa (250 bar)

1 DESCRIPTION

The valve is 2 way poppet type direct operated. It is available in normally open and normally close configuration. it is possible to use the valve with standard coils suitable DC or RAC (rectified alternate current) for AC supply.

A special dual seal ring on the nose permits an efficient and reliable sealing system.



2 ORDERING CODE

(1)									
EV	D	*	-	34	-	-	-	-	

- (1) EV: screw-in directional solenoid valve
- (2) D: valve with Ø 13 mm solenoid core(see 4), 2 way, 2 position, poppet type, bi-directional control
- (3) valve configuration:

no designation: normally closed valve

O: normally open valve

- (4) 34 : cavity 3/4 " 16 UNF with Ø 12,7 mm see A, 6
- (5) valves variants (see 3)

02: filter and manual override

03: standard without manual override

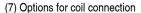
04: manual override

(6) Electric voltage and solenoid coils (see3, see 7)

0000 : no coil

012C : coil for V12DC 024C : coil for V24DC 220B : coil for V220-230 B/

220R : coil for V220-230 RAC



no designation: standard connection ISO4400/DIN 43650/A

FL: flying leads; A: AMP Junior

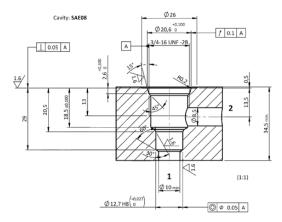
(8) Options for ISO4400/DIN 43650/A connectors (see 6)

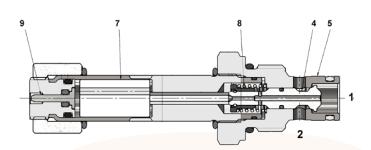
B9 : standard connector, black PG9 D9 : black connector, with diode, PG9 ES : "energy saving" connector with LED

R*: rectifier bridge

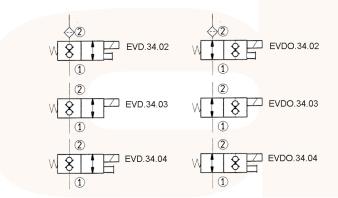
L*: LED

V*: LED+varistor





The poppet 4 is balanced by pressure and it is kept normally closed against its seat 5 by spring 8. When the solenoid is energized, the mobile armature 7 moves against spring 8 the poppet 4, thus permitting flow between 2 and 1. The manual override is of the pin type and, when pushed, it permits the valve's operation in case of electric failure.







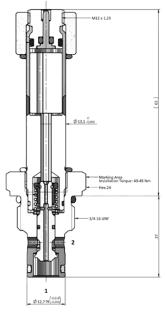
3 TECHNICAL DATA

Max. pressure	25 MPa (250 bar)			
Nominal flow rate	10 l/min			
Max. rec. flow rate	16 l/min			
Dimension and installation	see 4			
Duty cycle	ED 100%			
Mass (without coil)	0,120 kg			

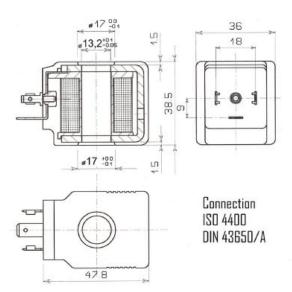
Electric Characteristics:

Those solenoid valves are normally equipped by coils type C30, which are energized from DC or AC supply (see). Coils type C30-***C are DC energized directly from a V***DC supply. Coils type C30-***R are RAC (Rectified Alternate Current) energized from a V***AC supply, by a full wave bridge rectifier incorporated in the connector. Solenoid valves type EVC2.34. can also be AC energized, directly from a V***AC supply, by using appropriate C30-***/50 or C30-***/60 coils (see). (*) Caution : with AC operation, the inrush current can be up to 3-4 times the nominal holding value. Coils type C30 are normally provided for use of ISO 4400/DIN 43650/A connectors. For coils with different connection to the power supply, see table C30/36.

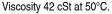
INSTALLATION DIMENSIONS (mm)

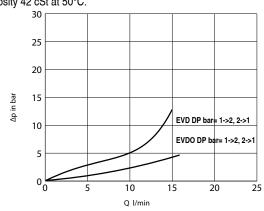


EV*.34 valves are to be installed in cavity 3/4" 16 UNF with Ø 12,7 mm. Check the appropriate state and position of the seals and, screw the valve in the cavity and lock it with a torque of about 45 Nm applied on the 24 mm hexagon.



PRESSURE DROPS





6 CONNECTORS

Standard coils are compatible with KA-132 connectorS; for some functions (R* = bridge rectifier, L* = LED, etc.) the voltage has to be specified :

3 = V2301 = V12, V24 2 = V115

The "energy saving" connectors - option ES - save current consumption to less than 50% of the nominal and strongly reduce warming up of the coils.

COILS TYPE C36 (Ø 13mm- 22W)

Coils DIN	voltage DC	nominal current (A)	resistence 20° C (Ώ)	nominal power (W)	insulation class
C36-012C	V 12 DC	1,90	6,3	22,8	
C36-024C	V 24 DC	0,95	25,6	22,5	
C36-024R	V 24 RAC	1,05	20,2	23,0	
C36-048C	V 48 DC	0,47	102	22,6	Н
C36-110R	V 110-115 RAC	0,23	420	22,9	
C36-220R	V 220-230 RAC	0,11	1720	22,3	

8 VARIANTS

02: filter (0,25 mm) on way prevents from dirt and better diffuses the flow around the poppet. 02 and 04: manual override is of pin type. Push the pin to shift the poppet and open (flow between 1 to 2); release the pin to reinstall the condition of normally closed poppet (no flow between 1 to 2).

