

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

EVD2-34-*

25 l/min 21 MPa (210 bar)

1 DESCRIPTION

The valve is 2 way poppet type direct operated. It is available also with manual override. It is possible to use the valve with standard coils suitable DC or RAC (rectified alternat current) for AC supply.

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



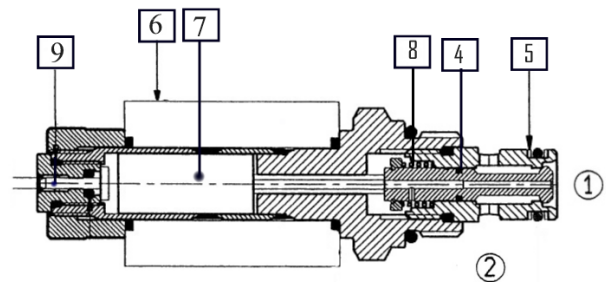
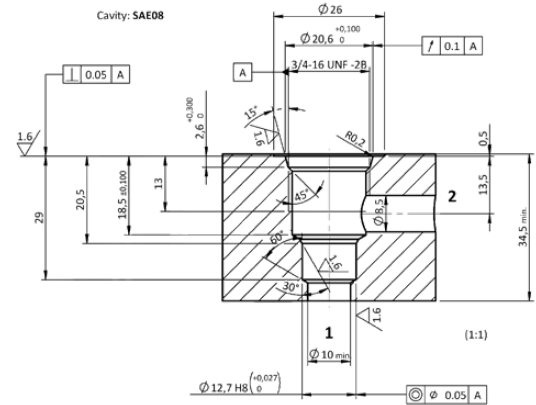
2 ORDERING CODE

(1)	(2)	(3)	(4)	(5)	(6)	(7)
EV	D2	- 34	-	-	-	-

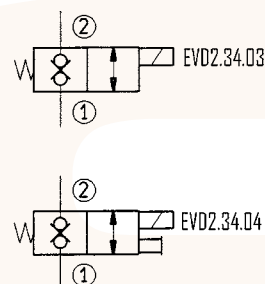
- (1) EV : screw-in directional solenoid valve
- (2) D2 : valve with Ø 13 mm solenoid core (see 4) , 2 way, 2 position, poppet type, normally closed, BI-directional-control
- (3) 34 : cavity 3/4 " 16 UNF with Ø 12,7 mm - see A
- (4) Valves variants (see 8)
 - 01: filter
 - 02: filter and manual override
 - 03: without manual override
 - 04: manual override
- (5) Electric voltage and solenoid coils (see 3, see 7)
 - 0000: no coil
 - 012C: coil for V12DC
 - 024C: coil for V24DC
 - 220R: coil for V220-230 RAC

- (6) Options for coil connection
 - no designation: standard connection ISO4400/DIN 43650/A
 - C: flying leads
 - A: AMP Junior

- (7) Options for ISO4400/DIN 43650/A connectors
 - 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



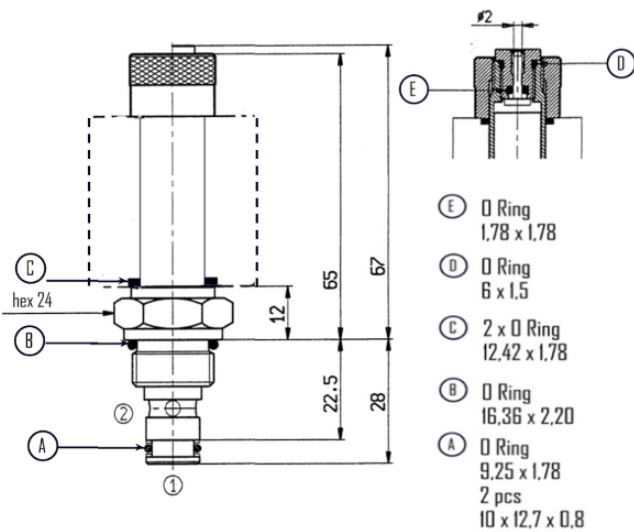
The poppet 4 is balanced by pressure and it is kept normally closed against its seat 5 by spring 8. When the solenoid 6 is energized, the mobile armature 7 moves against spring 8 the poppet 4, thus permitting flow between 2 and 1. The manual override 9 is of the pin type and, when pushed, it permits the valve's operation in case of electric failure.



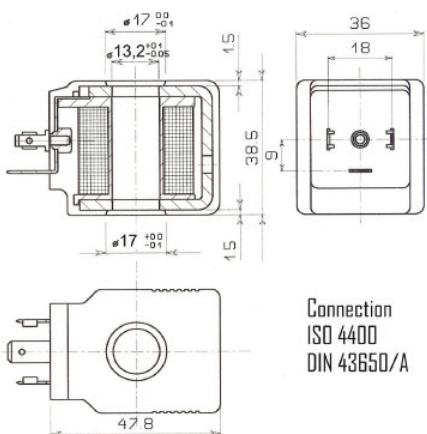
3 TECHNICAL DATA

Max. nominal pressure	21 MPa (210 bar)	Electric Characteristics: Those solenoid valves are normally equipped by coils type C36, which are energized from DC or AC supply. Coils type C36-***C are DC energized directly from a V***DC supply. Coils type C36-***R are RAC (Rectified Alternate Current) energized from a V***AC supply, by a full wave bridge rectifier incorporated in the connector. Coils type C36 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.
Nominal flow rate	16 l/min	
Max. rec. flow rate	25 l/min	
Dimension and installation	see 4	
Duty cycle	ED 100%	
Mass (without coil)	0,120 kg	

4 INSTALLATION DIMENSIONS (mm)

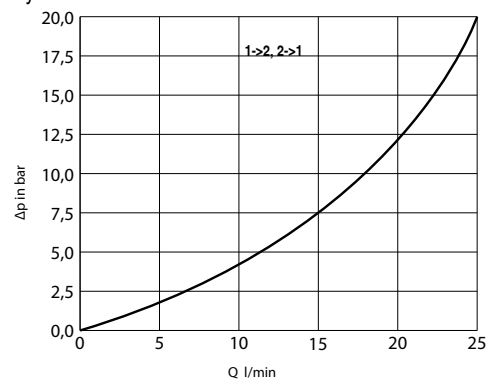


EV*.34 valves are to be installed in cavity 3/4" 16 UNF with Ø 12,7 mm. Check the appropriate state and position of the seals and , screw the valve in the cavity and lock it with a torque of about 45 Nm applied on the 24 mm hexagon.



5 PRESSURE DROPS

Viscosity 42 cSt at 50°C.



6 CONNECTORS

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

1 = V12, V24 2 = V115 3 = V230

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

7 COILS TYPE C36 (Ø 13mm)

Coils ISO/DIN	voltage DC/RAC	nominal current (A)	resistance 20° C (Ω)	nominal power (W)	insulation class
C36-012C	V 12 DC	1,9	6,3	22,8	H
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	
C36-110R	V 110-115 RAC	0,23	420	22,9	
C36-220R	V 220-230 RAC	0,11	1720	22,3	

8 VARIANTS

01 and 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 and 2).