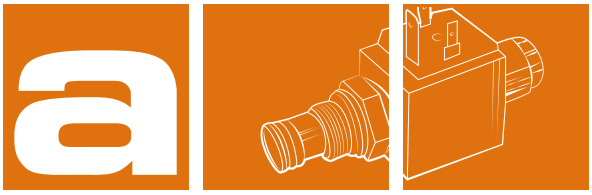


SCREW IN, 2-WAY SOLENOID OPERATED POPPET VALVES NORMALLY OPEN, BI DIRECTIONAL FLOW CAVITY 3/4" 16 UNF Ø 12,7 mm

EVO2-34-*

40 l/min 25 MPa (250 bar)

1 DESCRIPTION

The valve is a pilot operated 2 way NO poppet type. It is available in different configurations. 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	O2	-	34	-		-		-		-	

(1)EV : screw-in directional solenoid valve

(2) O2 : valve with Ø 13 mm solenoid core (see 4), 2 way, 2 position, poppet type, normally open, two direction flow

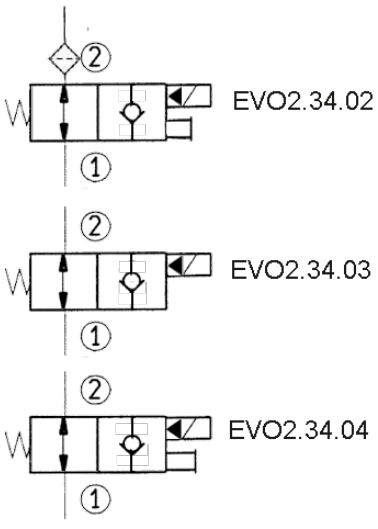
(3) 34 : cavity 3/4 " 16 UNF with Ø 12,7 mm - see A

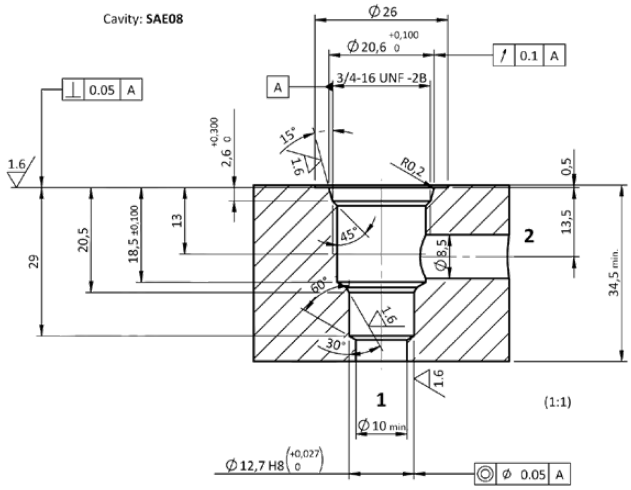
(4) Valves variants (see 8)
- 02 : filter and manual override
- 03 : without manual override
- 04 : manual override

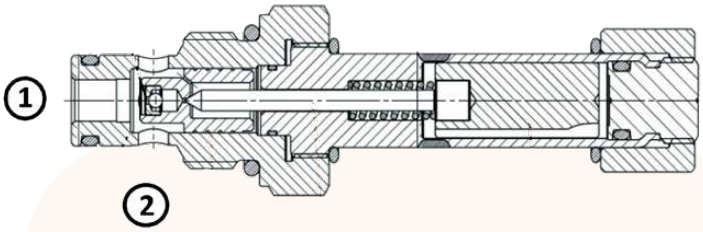
(5) Electric voltage and solenoid coils(see 3, see 6)
- 0000 : no coil
- 012C : coil for V12DC
- 024C : coil for V24DC
- 220R : coil for V220-230 RAC

(6) Options for coil connection (see 3)
- no designation : standard connection ISO4400/DIN 43650/A
- C : flying leads
- A: AMP Junior

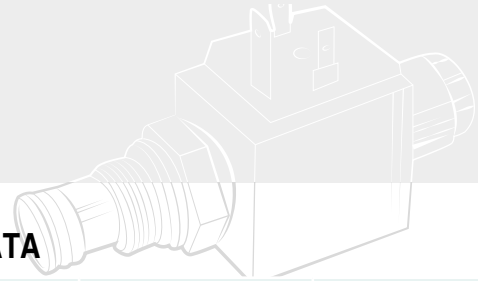
(7) Options for ISO4400/DIN 43650/A connectors (see 7)
- B9 : standard connector, black PG9
- D9 : black connector, with diode, PG9
- ES : "energy saving" connector with LED
- R* : rectifier bridge; L*:LED; V*:LED+varistor







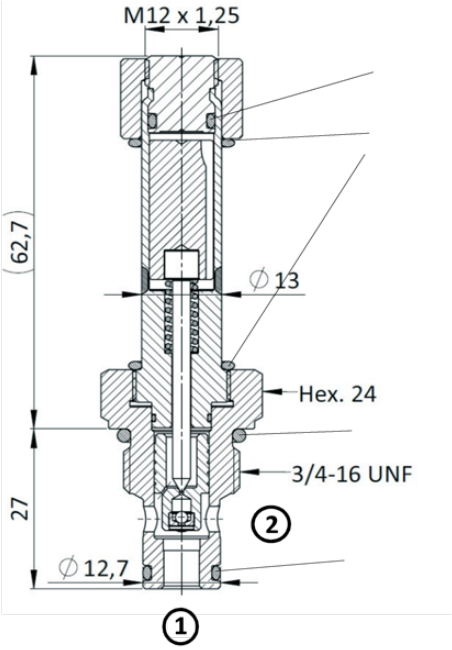
The poppet 4 is pilot operated and it is kept, balanced by pressure, normally open permitting flow from 2 to 1. When the solenoid 6 is energized, the mobile armature 7 and the pilot pin 8 move against the spring and the poppet, closes against its seat 5. The manual override 9, by pushing, permits the valve operation.



3 TECHNICAL DATA

Max. nominal pressure	32 MPa (320 bar)	Electric Characteristics:
Nominal flow rate	32 l/min	Those solenoid valves are normally equipped by coils type C30, which are energized from DC or AC supply (see 6). 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. 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.
Max. rec. flow rate	40 l/min	
Dimension and installation	see 4	
Duty cycle	ED100%	
Massb (without coil)	0,120kg	

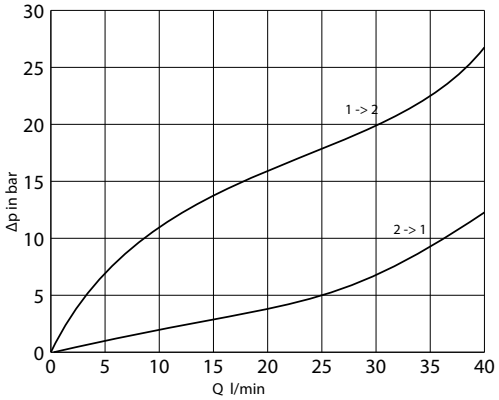
4 INSTALLATION DIMENSIONS (mm)



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 COILS TYPE C30 (Ø 13mm-18w)

Coils ISO/DIN	voltage DC/RAC	nominal current (A)	resistence 20° C (Ω)	nominal power (W)	insulation class
C30-012C	V 12 DC	1,55	7,7	18,6	F
C30-024C	V 24 DC	0,8	31	19	
C30-024R	V 24 RAC	0,85	27	18,3	
C30-048C	V 48 DC	0,4	116	19	
C30-48R	V48 RAC	0,4	106	17,3	
C30-110R	V 110-115 RAC	0,16	600	16	
C30-220R	V 220-230 RAC	0,08	2500	16	

7 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 – see table KA-ES.

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 pushing type. Push to pilot the poppet closed (no flow from to); pull to reinstall the condition of normally open poppet (flow from to).