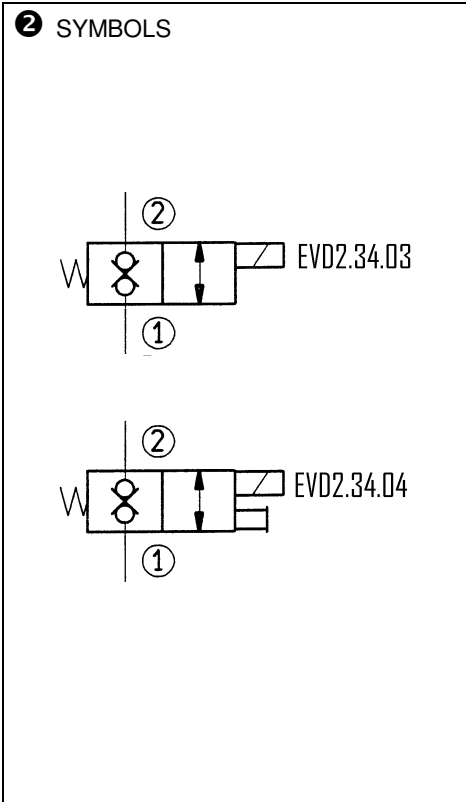
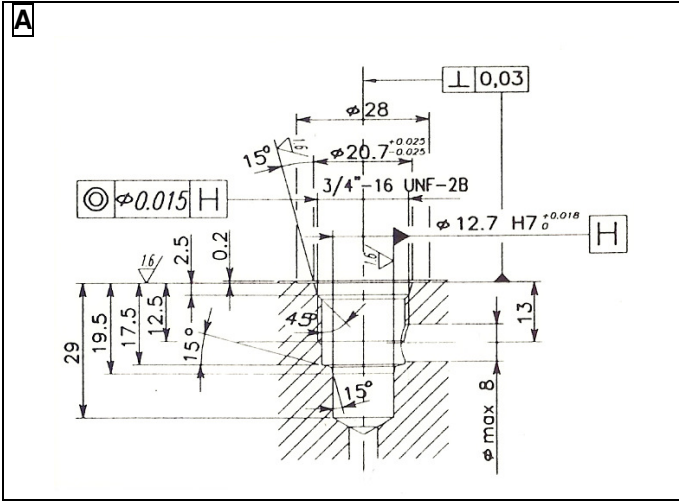


**SCREW-IN, 2 WAY SOLENOID OPERATED POPPET VALVES
CAVITY 3/4" 16 UNF Ø 12,7 mm,
NORMALLY CLOSED, BI-DIRECTIONAL CONTROL
TYPE EVD2.34.**



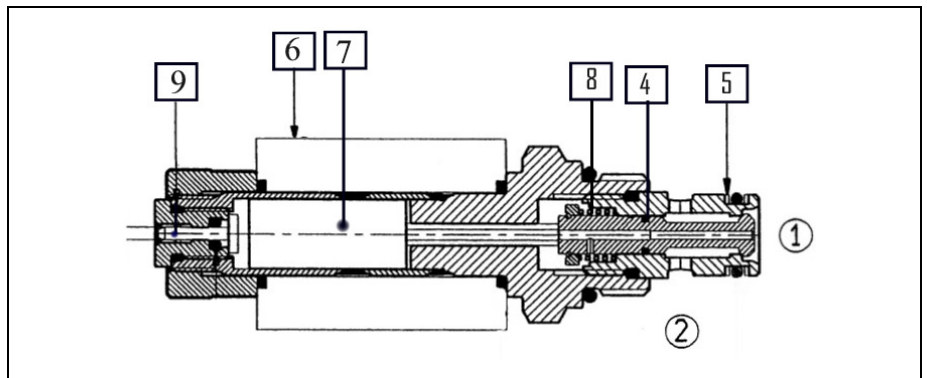
- 1 HOW TO READ THE MODEL CODE FOR VALVES EVD2.34.**
- EV D2. 34. (04). (012C). * . ****
- ① ② ③ ④ ⑤ ⑥ ⑦
- ① EV : screw-in directional solenoid valve
 - ② D2 : valve with Ø 13 mm solenoid core (see ⑥), 2 way, 2 position, poppet type, normally closed, bi-directional control (see ②)
 - ③ 34 : cavity 3/4 " 16 UNF with Ø 12,7 mm - see A ⑧
 - ④ (04) : valves variants (see ②⑤)
 - 01 : filter
 - 02 : filter and manual override
 - 03 : --
 - 04 : manual override
 - ⑤ (012C) : electric voltage and solenoid coils (see ⑦⑩)
 - 0000 : no coil
 - 012C : coil for V12DC
 - 024C : coil for V24DC
 - 220R : coil for V220-230 RAC
 - ⑥ * : options for coil connection (see ⑦)
 - : standard connection ISO4400/DIN 43650/A
 - /C : flying leads; /K: Kostal; /A: AMP Junior
 - ⑦ ** : options for ISO4400/DIN 43650/A connectors (see ⑧)
 - 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

3 DESCRIPTION

The poppet 4 is balanced by pressure and it is kept normally closed against its seat 5 by spring 8.

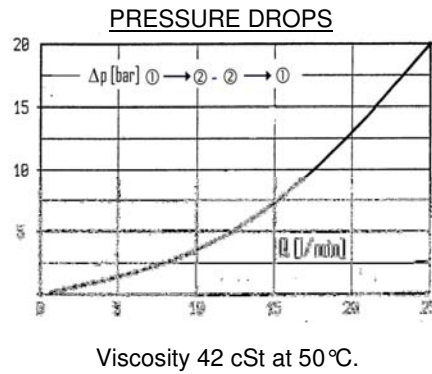
When the solenoid 6 is energized, the mobile armature 7 moves against spring 8 the poppet 4, thus permitting flow between 2 and 1.

The manual override 9 is of the pin type and, when pushed, it permits the valve's operation in case of electric failure.



4 TECHNICAL DATA

Nominal flow rate	16 l/min
Maximum rec.flow rate	25 l/min
Max pressure	21 Mpa (210 bar)
Dimensions	see 6
Installation	see 9
Electric features	see 7
Duty cycle	ED 100%
Mass (without coil)	0,120 kg.



5 VARIANTS

01 and 02 : filter (0,25 mm) on way ② 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 ② to ①); release the pin to reinstall the condition of normally closed poppet (no flow between ② and ①).

7 ELECTRIC FEATURES.

Those solenoid valves are normally equipped by coils type C36, which are energized from DC or AC supply (see 10).
 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/DIN43650/A connectors. For coils with different connection to the power supply, see table C30/36.

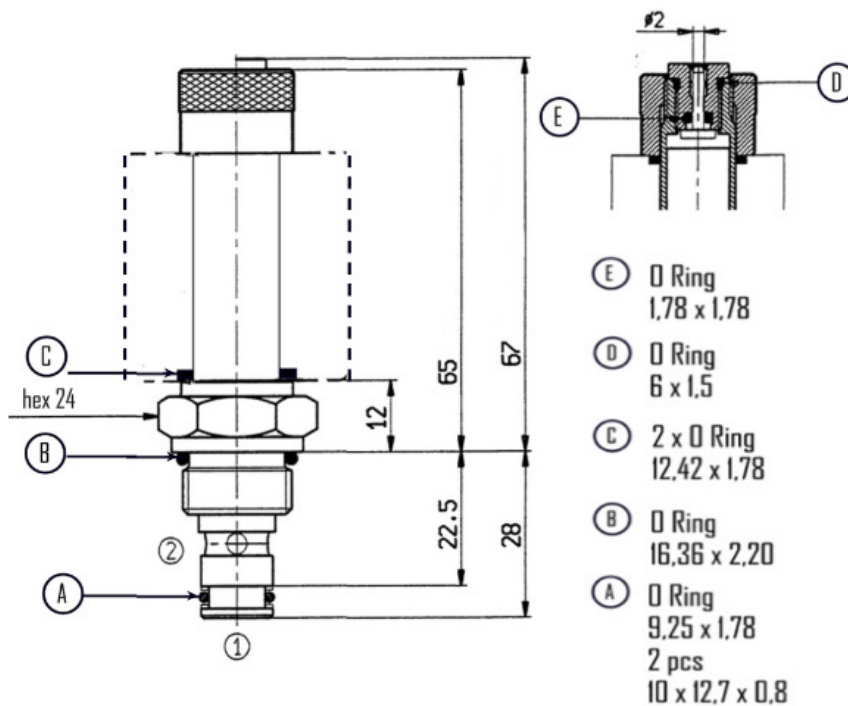
8 CONNECTORS.

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.

9 INSTALLATION

EV*.34 valves are to be installed in cavity 3/4" 16 UNF with Ø 12,7 mm (see A and 6).
 Check the appropriate state and position of the seals A and B, screw the valve in the cavity and lock it with a torque of about 45 Nm applied on the 24 mm hexagon.

6 INSTALLATION DIMENSIONS.



All dimensions are mm.

10 COILS TYPE C36 (Ø 13 mm)

Coils DIN	Voltage DC	Nominal current [A]	Resistance 20°C [Ω]	Nominal power [W]	Isulation 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	
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	

