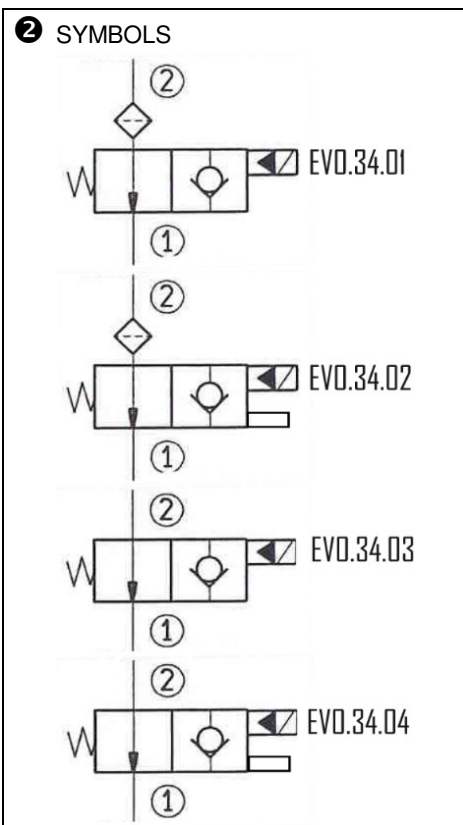
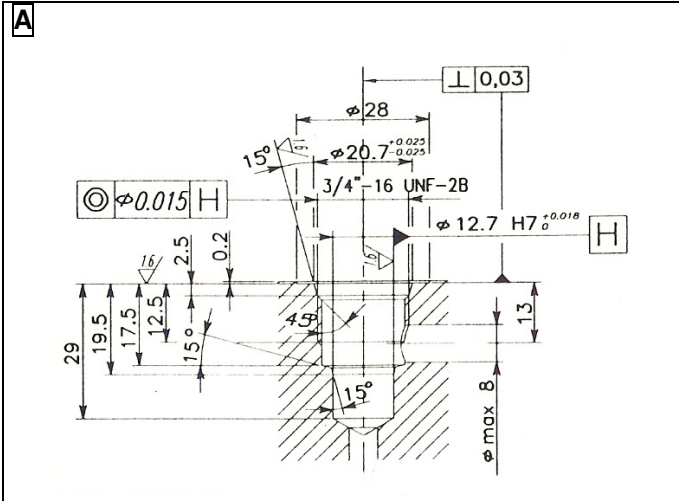


**SCREW-IN, 2 WAY SOLENOID OPERATED POPPET VALVES
NORMALLY OPEN, CAVITY 3/4" 16 UNF Ø 12,7 mm
ONE DIRECTION FLOW
TYPE EVO.34.**



1 HOW TO READ THE MODEL CODE FOR VALVES EVO.34.

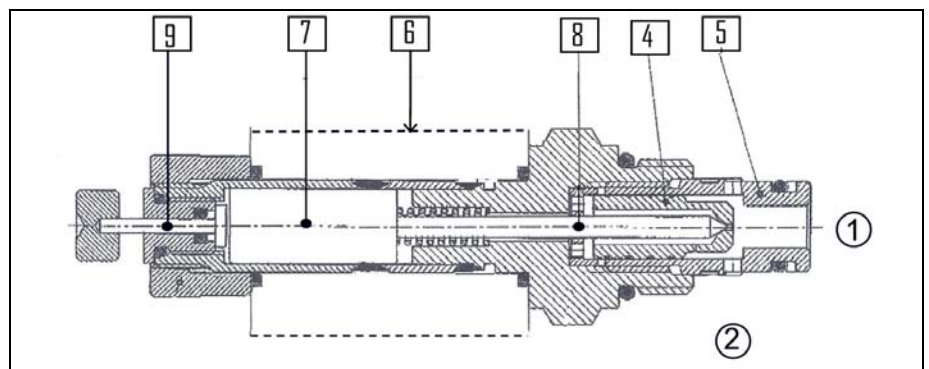
EV O. 34. (04). (012C). * . **

① ② ③ ④ ⑤ ⑥ ⑦

- ① EV : screw-in directional solenoid valve
- ② O : valve with Ø 13 mm solenoid core (see ⑥), 2 way, 2 position, poppet type, normally open, one direction flow (see ②)
- ③ 34 : cavity 3/4 " 16 UNF with Ø 12,7 mm - see A ⑨
- 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

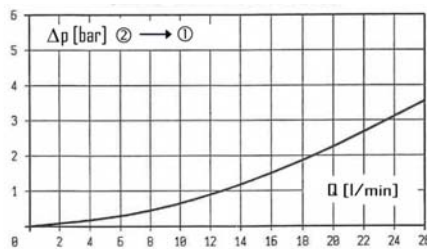
The poppet 4 is pilot operated and it is kept, balanced by pressure, normally open permitting flow from 2 to 1. When the solenoid 6 is energized, the mobile armature 7 and the pilot pin 8 move against the spring and the poppet, closes against its seat 5. The manual override 9, by pushing, permits the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



4 TECHNICAL DATA

Nominal flow rate	20 l/min
Maximum rec.flow rate	32 l/min
Max pressure	25 Mpa (250 bar)
Dimensions	see 6
Installation	see 9
Electric features	see 7
Duty cycle	ED 100%
Mass (without coil)	0,120 kg.

PRESSURE DROPS



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 pushing type. Push to pilot the poppet closed (no flow from ② to ①); pull to reinstall the condition of normally open poppet (flow from ② to ①).

7 ELECTRIC FEATURES.

Those solenoid valves are normally equipped by coils type C30, which are energized from DC or AC supply (see 10).
 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.

8 CONNECTORS.

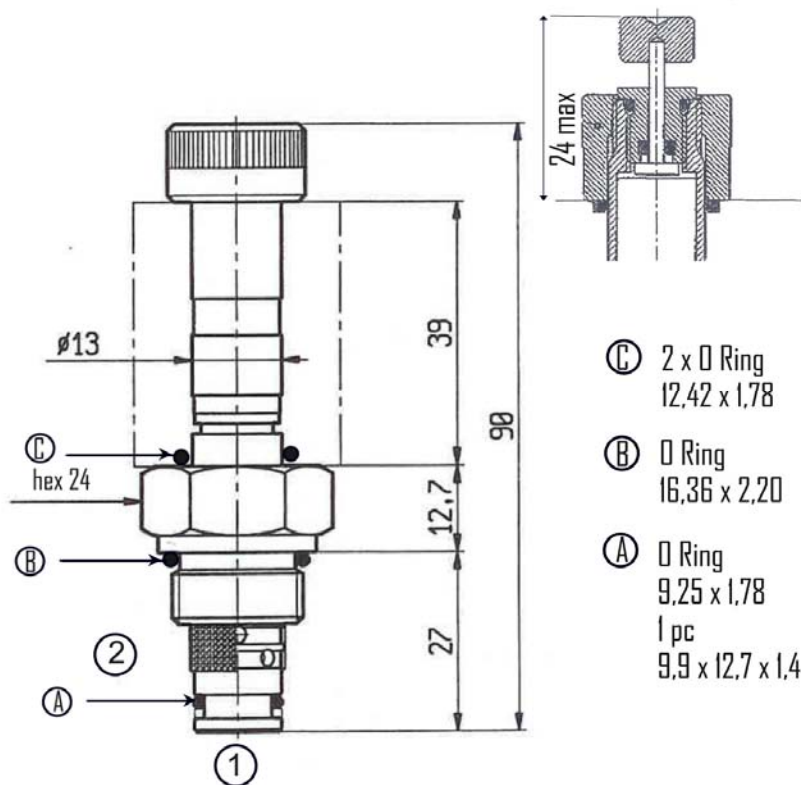
Standard coils are compatible with KA-132 connectors (see table); for some functions (R* = bridge rectifier, L* = LED, etc.) the voltage has to be specified :

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 C30 (Ø 13 mm – 18 w)

Coils ISO/DIN	voltage DC/RAC	nominal current [A]	resistance 20°C [Ω]	nominal power [W]	isulation 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	
C30-048R	V 48 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	

