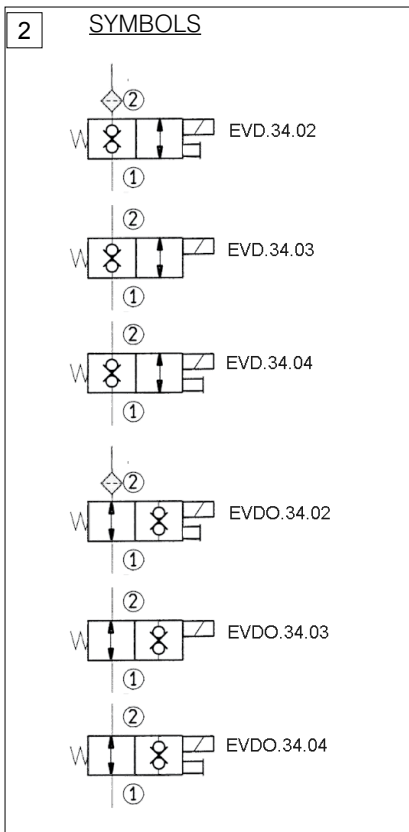
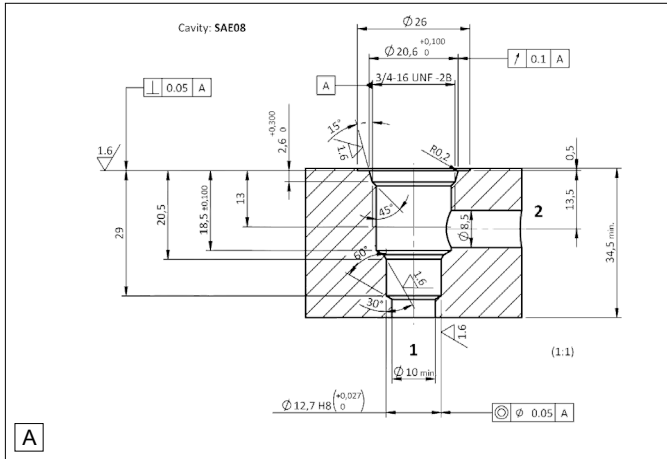


SCREW-IN, 2 WAY SOLENOID OPERATED POPPET VALVES
CAVITY 3/4" 16 UNF Ø 12,7 mm,
NORMALLY CLOSED / OPEN, BI-DIRECTIONAL CONTROL
TYPE EVD.34.

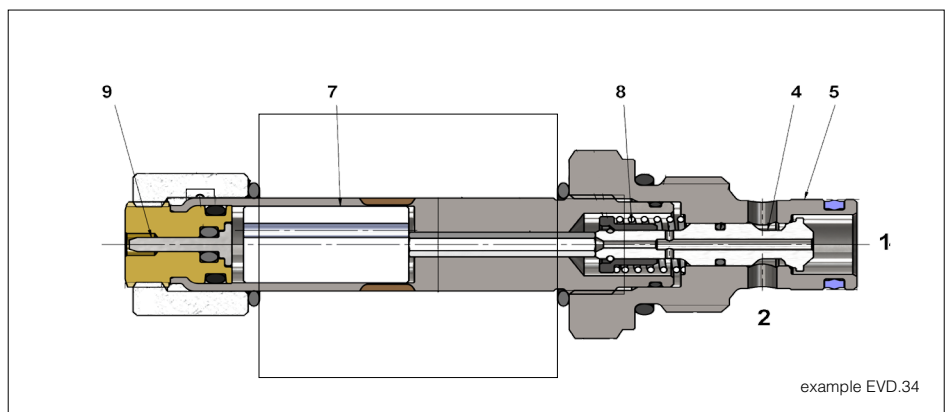


1 HOW TO READ THE MODEL CODE FOR VALVES EVD.34.

EV	D	()	34.	(04).	(012C).	*	**
①	②	③	④	⑤	⑥	⑦	⑧
① EV	② D	③ ()	④ 34	⑤ (04)	⑥ (012C)	⑦ *	⑧ **
: screw-in directional solenoid valve	: valve with Ø 13 mm solenoid core (see [6]), 2 way, 2 position, poppet type, normally closed, bi-directional control (see [2])	: - : normally closed valve O : normally open valve	: cavity 3/4 " 16 UNF with Ø 12,7 mm - see A, [6]	: valves variants (see [2] [5]) 02 : filter and manual override 03 : standard without manual override 04 : manual override	: electric voltage and solenoid coils (see [7] [10]) 0000 : no coil 012C : coil for V12DC 024C : coil for V24DC 220R : coil for V220-230 RAC	: options for coil connection (see [8]) - : standard connection ISO4400/DIN 43650/A /FL : flying leads; /A : AMP Junior	: 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

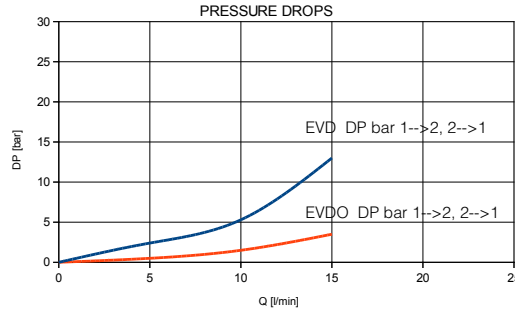
3 DESCRIPTION

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



4 TECHNICAL DATA

Nominal flow	10 l/min
Maximum rec. flow rate	16 l/min
Maximum pressure	25 MPa (250 bar)
Electric features	see 7
Duty cycle	ED 100%
Dimensions	see 6
Installation	see 9
Mass (without coil)	0,120 kg



viscosity 42 cSt at 50 °C

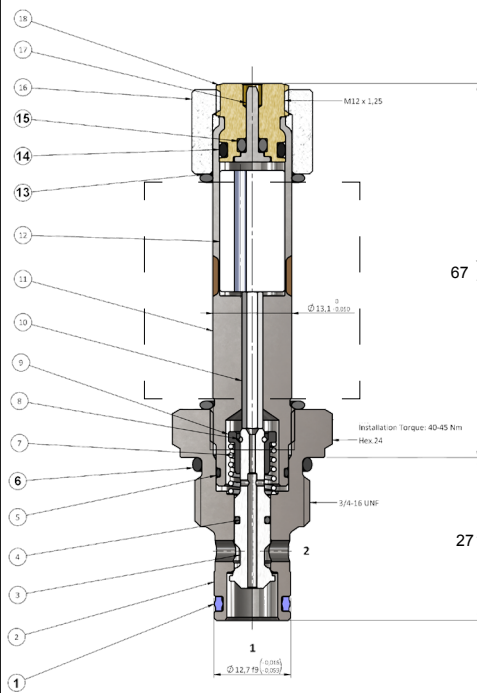
5 VARIANTS

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 to 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/DIN 43650/A connectors. For coils with different connection to the power supply, see table C30/36.

6 INSTALLATION DIMENSIONS



- 1) Dualseal 93 Sh 9,4x1,8x2,1
- 6) O-ring 70 Sh 16,36x2,21
- 13) O-ring 70 Sh 13,00x2,00
- 14) O-ring 70 Sh 7,65x1,78
- 15) O-ring 70 Sh 1,78x1,78

example EVD.34

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 and , screw the valve in the cavity and lock it with a torque of about 45 Nm applied on the 24 mm hexagon.

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	1,90	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 100-115 RAC	0,23	420	22,9	
C36-220R	V 220-230 RAC	0,11	1720	22,3	

