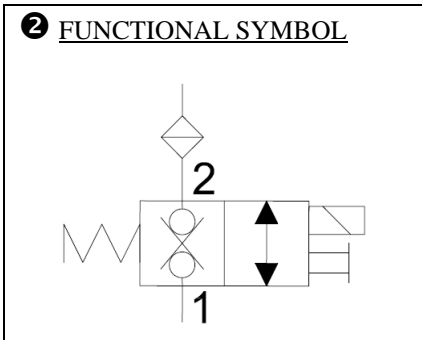
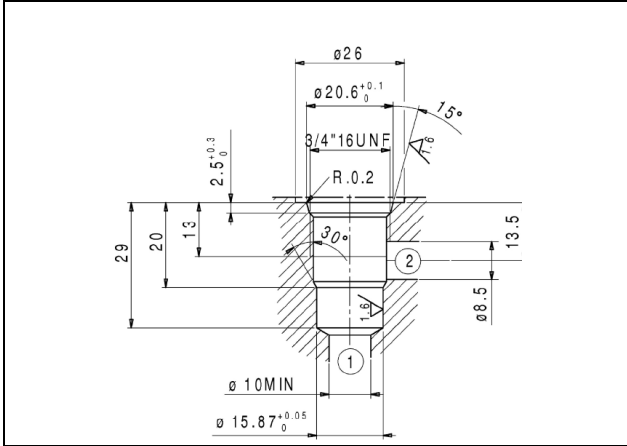
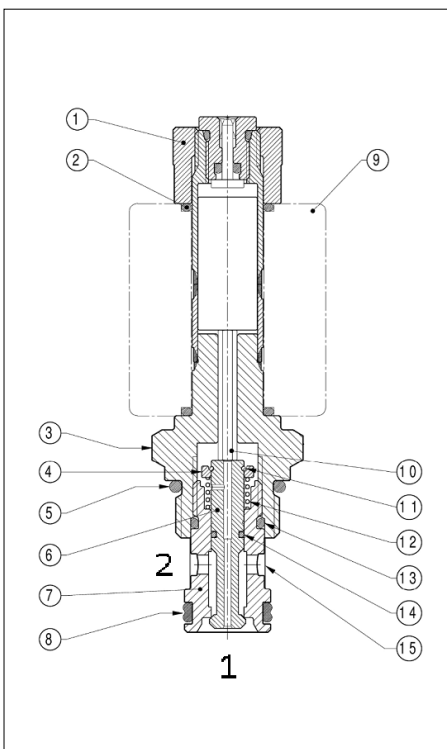


**SCREW IN, 2-WAY SOLENOID OPERATED POPPET VALVES  
CAVITY 3/4" 16 UNF Ø 15,87 mm,  
NORMALLY CLOSED BI-DIRECTIONAL CONTROL  
TYPE EVD2.34/2**



**1 HOW TO READ THE MODEL CODE FOR VALVES EVD2.34/2.02**

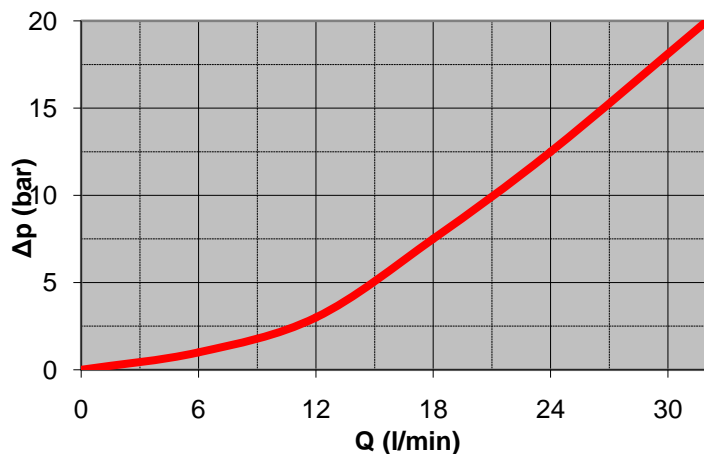
<b>EV</b>	<b>D2.</b>	<b>34</b>	<b>/</b>	<b>2.</b>	<b>02.</b>	<b>(0000).</b>	<b>*</b>	<b>**</b>
①	②	③		④	⑤	⑥	⑦	⑧
①	<b>EV</b>	:		screw in directional solenoid valve with Ø 13 mm solenoid core (see ⑤), 2 way, 2 position,				
②	<b>D2</b>	:		poppet type, normally closed, bi-direction control (see ②)				
③	<b>34</b>	:		cavity 3/4" 16 UNF				
④	<b>2</b>	:		with Ø 15,87 mm nose				
⑤	<b>02</b>	:		filter and manual override				
⑥	<b>(0000)</b>	:		electric voltage and solenoid coil (see ⑦)				
				0000	:	no coil		
				012C	:	coil for V 12 DC		
				024C	:	coil for V 12 DC		
				220R	:	coil for V 220-230 RAC		
⑦	<b>*</b>	:		options for coils connections				
				-	:	standard connection ISO 4400 / DIN 43650/A		
				C	:	flying leads		
				A	:	AMP Junior		
				D	:	Deutsch		
⑧	<b>**</b>	:		options for ISO 4400 / 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		



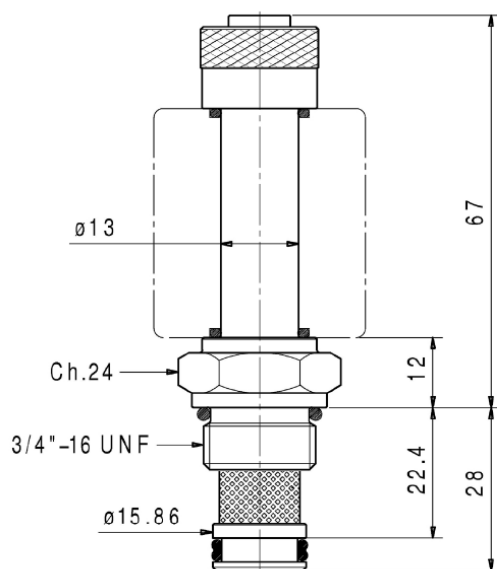
**3 DESCRIPTION**

The poppet 6 is balanced by pressure and it is kept normally closed against its seat 7 by spring 12. When the solenoid is energized, the mobile armature moves against spring 12 the poppet 6, thus permitting flow from 2 to 1 and from 1 to 2. The manual override is of the pin type and, when pushed, it permits the valve's operation in case of electric failure. The filter (0,25 mm) on way 2 prevents from dirt and better diffuses the flow around the poppet.

**4** TYPICAL DIAGRAMS (measured at v = 46 cSt and 40°C)



**5** INSTALLATION DIMENSIONS (all dimensions are mm)



**6** DATA AND OPERATING LIMITS

Max. nominal pressure 21 MPa (210 bar)  
 Nominal flow rate 16 l/min  
 Max. rec. flow rate 25 l/min

**7** ELECTRIC FEATURES

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 C36

**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.

**9** INSTALLATION

EVD2.34/2 valves are to be installed in cavity 3/4" 16 UNF with Ø 15,87 mm.

Check the appropriate state and position of the seals supplied with the valve:

- Dual seal 12,7x1,8x3 (ref ☉)
- O-ring 16,36x2,20 (ref ☉)
- 2 x O-ring 13 x 2 (ref ☉)

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

**10** COILS TYPE C36 (Ø 13 mm)

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

