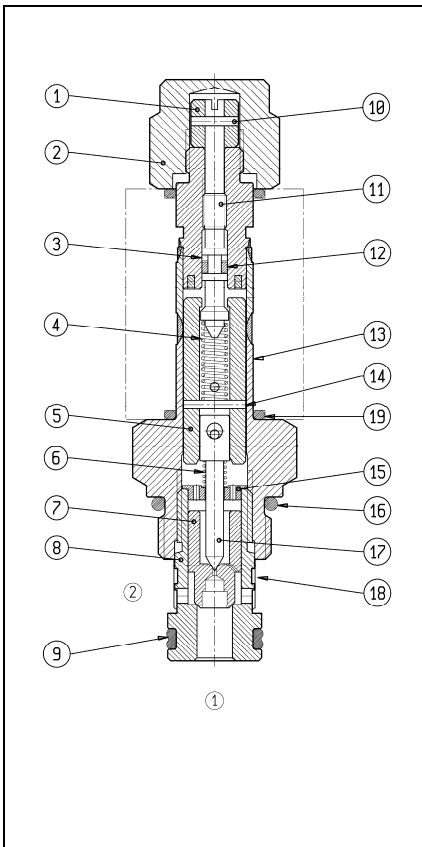
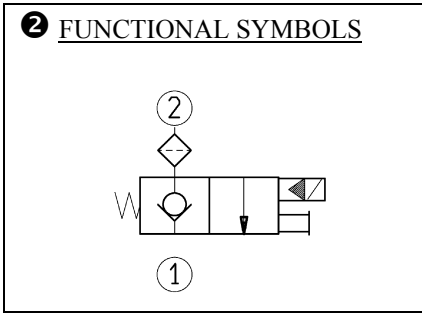
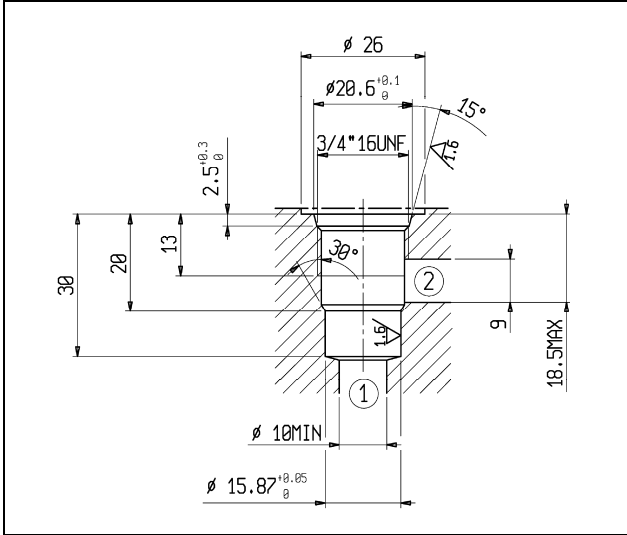


**SCREW IN, 2-WAY SOLENOID OPERATED POPPET VALVES
NORMALLY CLOSED, CAVITY 3/4" 16 UNF Ø 15,87 mm
ONE DIRECTIONAL FLOW
TYPE EVSC.34/2.02**



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

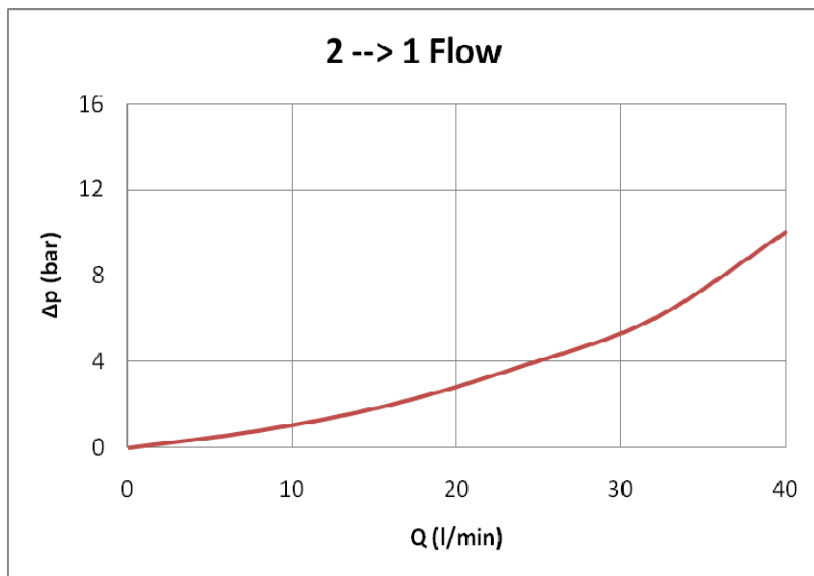
EVSC	34	/	2.	02.	(0000).	*	**.	P
①	②		③	④	⑤	⑥	⑦	⑧

- ① **EVSC** : screw in directional solenoid valve valve with Ø 13 mm solenoid core (see ⑤), 2 way, 2 position, poppet type, normally closed, one direction flow (see ②)
- ② **34** : cavity 3/4" 16 UNF
- ③ **2** : with Ø 15,87 mm (see ⑤)
- ④ **02** : filter and manual override
- ⑤ **(0000)** : 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
 - 230/50 : coil for V 230/50 AC
- ⑥ ***** : options for coils connections
 - : standard connection ISO 4400 / DIN 43650/A
 - C : flying leads
 - K : Kostal
 - A : AMP Junior
- ⑦ ****** : 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
- ⑧ **P** : Water-proof cap on manual override

3 DESCRIPTION

The poppet 7 is pilot operated and it is kept normally closed against its seat 8. When the solenoid is energized, the mobile armature 5 and the pilot pin 17 are shifted and the poppet, unbalanced by pressure, opens permitting flow from ② to ①.
The manual override 1 is of screw type and permits the valve operation in case of electric failure.
The filter 18 (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)



6 DATA AND OPERATING LIMITS

Max. nominal pressure 25 MPa (250 bar)
 Nominal flow rate 32 l/min
 Max. rec. flow rate 40 l/min

7 ELECTRIC FEATURES

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

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.

Solenoids valves type EVSC.34 can also be AC energized, directly from a V***AC supply, by using appropriate C30-***/50 or C30-***/60 coils (see).

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

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

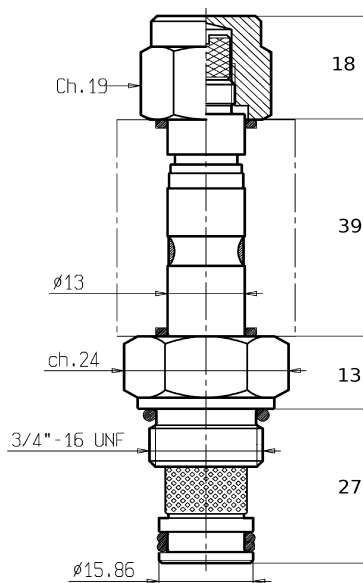
EVSC.34/2 valves are to installed in cavity 3/4” 16 UNF with $\varnothing 15,87$ mm.

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

- Dual seal 12,7x1,8x3
- O-ring 16,36x2,20
- 2 x O-ring 12,42 x 1,78

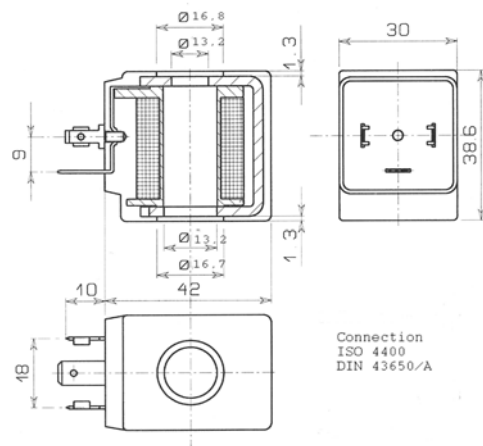
Screw the valve in the cavity and lock it with a torque of about 45 Nm applied on the 24mm hexagon.

5 INSTALLATION DIMENSIONS (all dimensions are mm)



10 COILS TYPE C30 ($\varnothing 13$ mm)

coils	voltage	nominal current (A)	resistance 20°C (Ω)	nominal power (W)	insulation class
	DC/RAC				
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	
	AC	(*)		(VA) (*)	
C30-024/50	24V 50 Hz	0,9	5,3	35	F
C30-110/50	110-115V 50 Hz	0,2	108		
C30-230/50	220-230V 50 Hz	0,1	438		
C30-110/60	110-115V 60 Hz	0,3	92		
C30-220/60	220-230V 60 Hz	0,15	375		



(*) Caution : with AC operation, the inrush current can be up to 3-4 times the nominal holding value