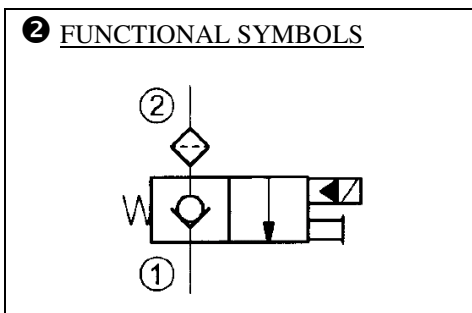
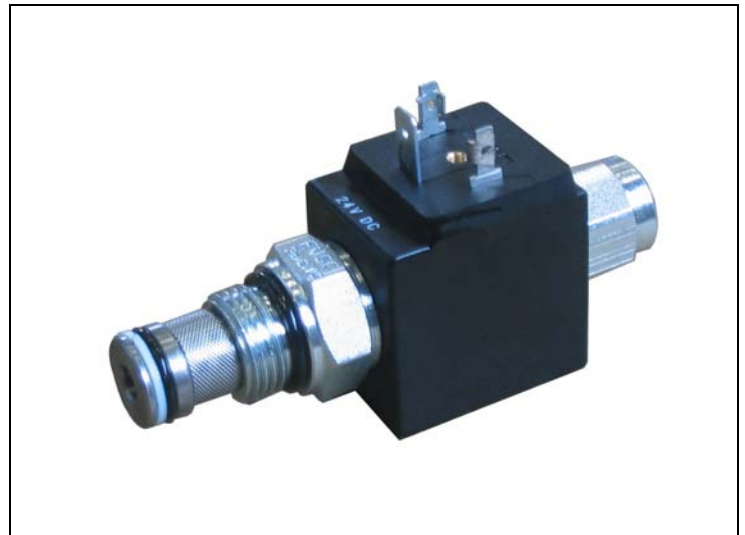
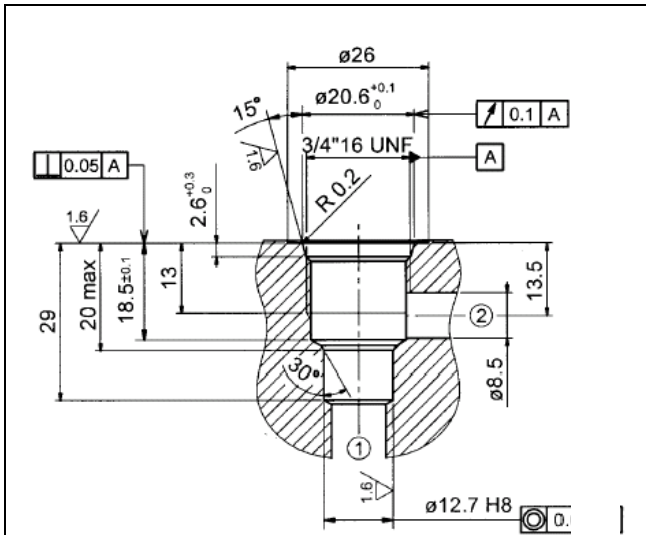
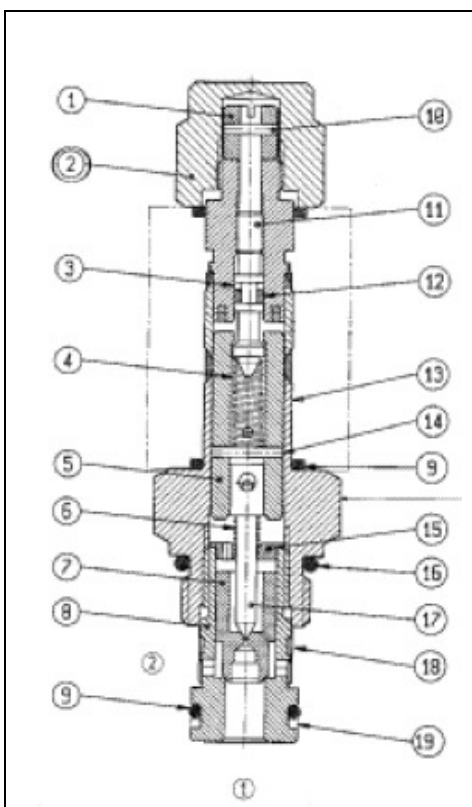


**SCREW IN, 2-WAY SOLENOID OPERATED POPPET VALVES
NORMALLY CLOSED, CAVITY 3/4" 16 UNF Ø 12,7 mm
ONE DIRECTIONAL FLOW
TYPE **EVSC.34.02****



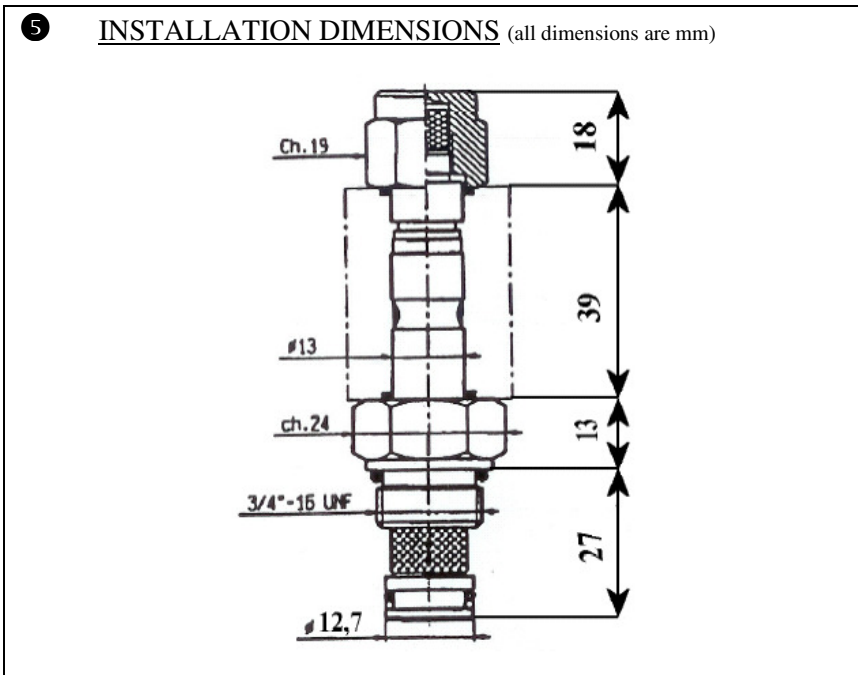
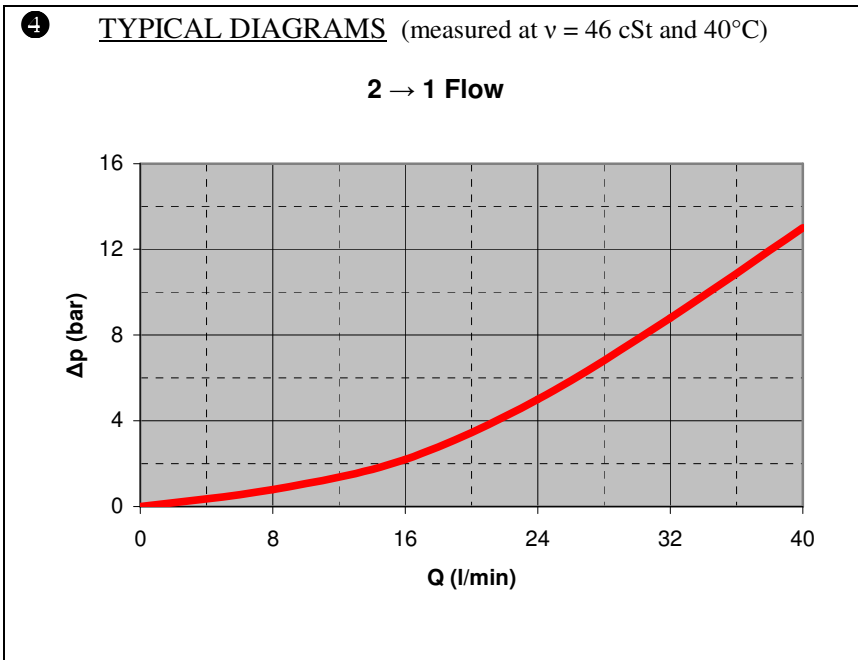
1 | / TO READ THE MODEL CODE FOR VALVES EVSC.34.02.0000

| | EVSC. | 34. | 02. | (0000). | * | ** | P |
|---|--------|-----|---|---------|------------------------|----|---|
| | ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ |
| ① | EVSC | : | screw in directional solenoid valve with Ø 13 mm solenoid core (see ②), 2 way, 2 position, poppet type, normally closed, one direction flow (see ③) | | | | |
| ② | 34 | : | cavity 3/4" 16 UNF (Ø 12,7 mm) | | | | |
| ③ | 02 | : | filter and manual override of screw type | | | | |
| ④ | (0000) | : | electric voltage and solenoid coil (see ⑦) | | | | |
| | | | 0000 | : | no coil | | |
| | | | 012C | : | coil for V 12 DC | | |
| | | | 024C | : | coil for V 24 DC | | |
| | | | 220R | : | coil for V 220-230 RAC | | |
| | | | 230/50 | : | coil for V 230/50 AC | | |
| ⑤ | * | : | options for coils connections | | | | |
| | - | : | standard connection ISO 4400 / DIN 43650/A | | | | |
| | C | : | flying leads | | | | |
| | K | : | Kostal | | | | |
| | A | : | AMP Junior | | | | |
| ⑥ | ** | : | 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 | | | | |
| ⑦ | P | : | Protective 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.
The cap 2 protects from shocks the manual override and, if locked, may prevent undue tampering of the valve.



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

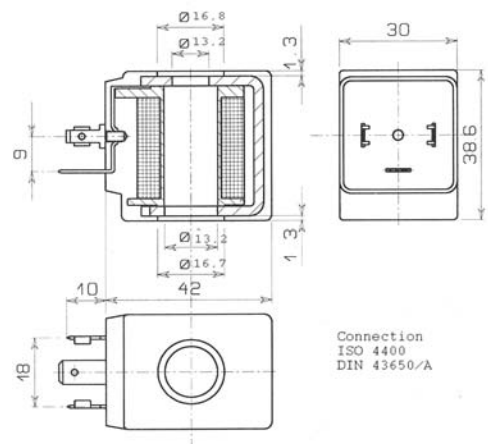
Standard coils are compatible with KA-132 connectors (see table) ; for some functions (R* = bridge rectifier ; L* = LED , etc.) the voltage has to be specified :
 1 = V12, V24 2 = V115 3=V230
 The "energy saving" connectors (option ES) save current consumption to less than 50% of the nominal and strongly reduce warming up of the coils.

9 INSTALLATION

EVSC.34 valves are to be installed in cavity 3/4" 16 UNF with $\varnothing 12,7$ mm.
 Check the appropriate state and position of the seals supplied with the valve :
 • O-Ring 9,25 x 1,78 with parbak 9,91 x 1,35
 • O-Ring 16,36 x 2,20
 • 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.

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

| coils | voltage DC/RAC | nominal current (A) | resistance 20°C (Ω) | nominal power (W) | insulation 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 | |
| | 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