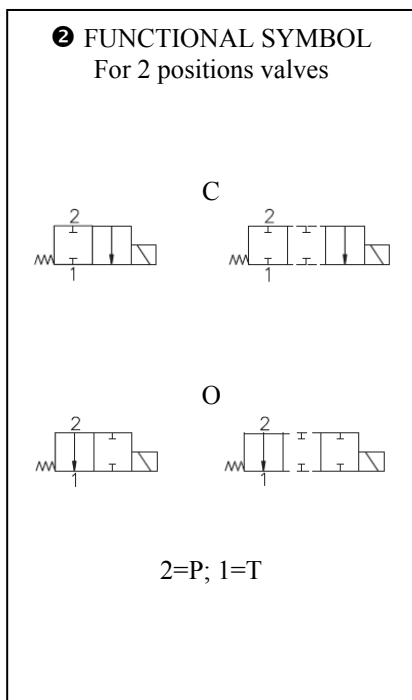
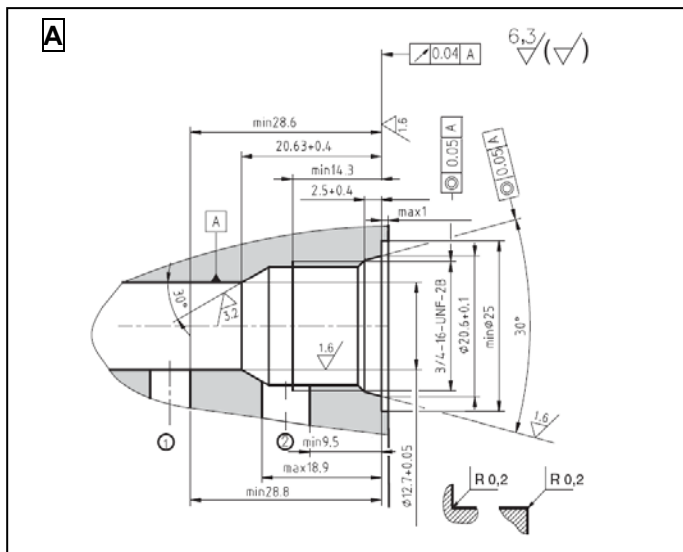


Screw in, 2-way solenoid operated directional control valve spool type EV2**.34.*

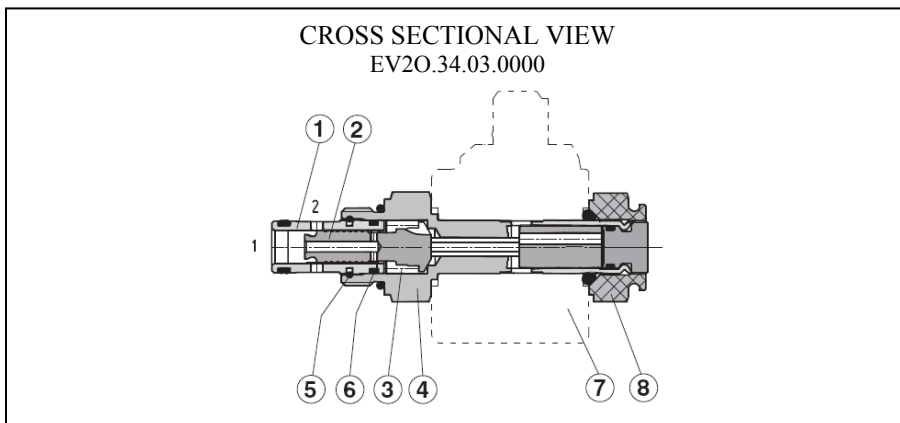


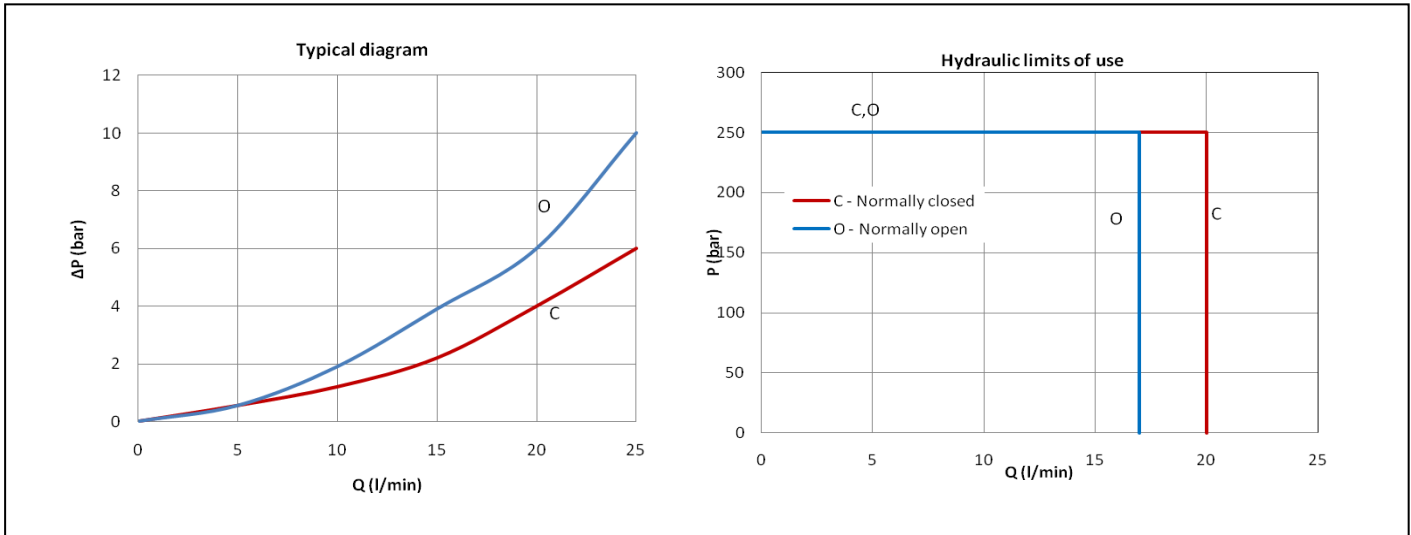
3 DESCRIPTION
Screw-in 2/2 solenoid valves type EV2*.34 are composed by a valve sleeve ①, a control spool ②, a return spring ③, and an actuating assembly ④ that comprises the magnetic parts and the screwing section. An energizing electric solenoid coil ⑦ is fastened to the assembly by means of a retaining nut ⑧. When solenoid coils ⑦ is energized, a magnetic mobile armature shifts and by means of a rod installed inside assembly ④, moves the control spool which makes hydraulic connections between 1,2 ports.

1 HOW TO READ THE MODEL CODE FOR VALVES EV2(O).34.(04).(012C).*.**

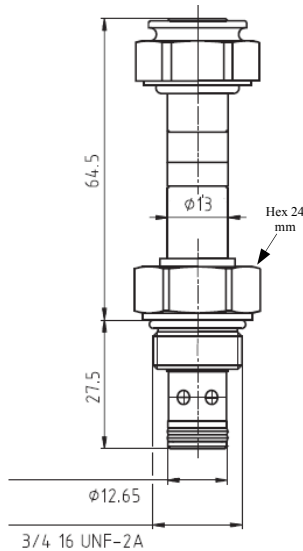
EV2 (O) . 34 . (04) . (012C) . * . **
① ② ③ ④ ⑤ ⑥ ⑦

- ① EV2 : 2-way solenoid operated spool type
- ② (O) : spool type (see 2)
C: normally closed
O: normally open
- ③ 34 : cavity 3/4" 16 UNF – see A
- ④ (04) : valves variants (see 9)
03 : without manual override
04 : manual override push type (standard)
05 : manual override screw type
- ⑤ (012C) : electric voltage and solenoid coils (see 6, 10)
0000 : no coil
012C : coil for V12DC
024C : coil for V24DC
220R : coil for V220-230 RAC
- ⑥ * : options for coil connection (see 10)
- : standard connection ISO4400/DIN43650/A
/ : /C flying leads; /D:Deutsch; /A: AMP Junior
- ⑦ ** : options for ISO4400/DIN 43650/A connectors (see 7)
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





5 INSTALLATION DIMENSIONS



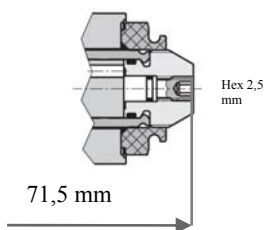
Seals:

- Body Dualseal –PU:
1pcs- 10,3x12,7x3,1
- O-ring – NBR
1 pcs- 17,0x1,8
- Solenoid and retaining nut
O-ring- NBR
1-pcs- 12,3x2,4

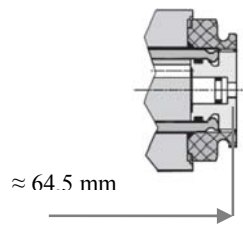
All dimensions are mm

9 VARIANTS OF MANUAL OVERRIDE

05: manual override screw type



04: manual override push type (standard)



4 TECHNICAL DATA

- Nominal flow rate 16 l/min
- Maximum rec.flow rate 20 l/min
- Max pressure 25 MPa (250 bar)
- Dimensions see 5
- Installation see 8
- Electric features see 6
- Duty cycle ED 100%

Mass (without coil) 0,20 kg.

6 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.

7 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.

8 INSTALLATION

EV2*.34 valves are to be installed in cavity 3/4" 16 UNF (see A).

Check the appropriate state and position of the seals, 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]	Insulation 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	

