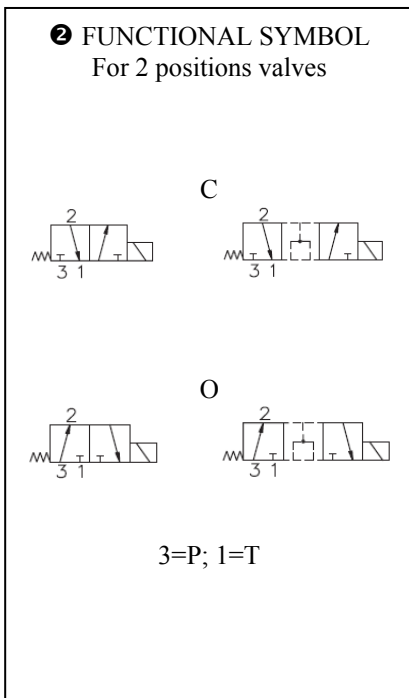
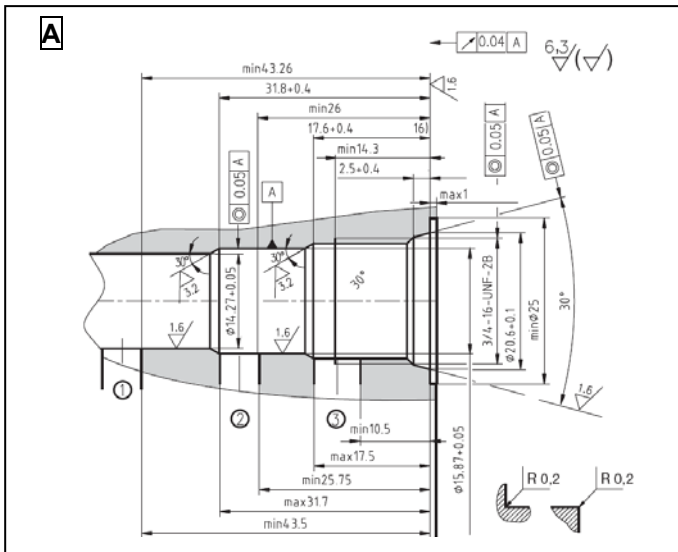


Screw in, 3-way solenoid operated directional control valve spool type EV3**.34.*

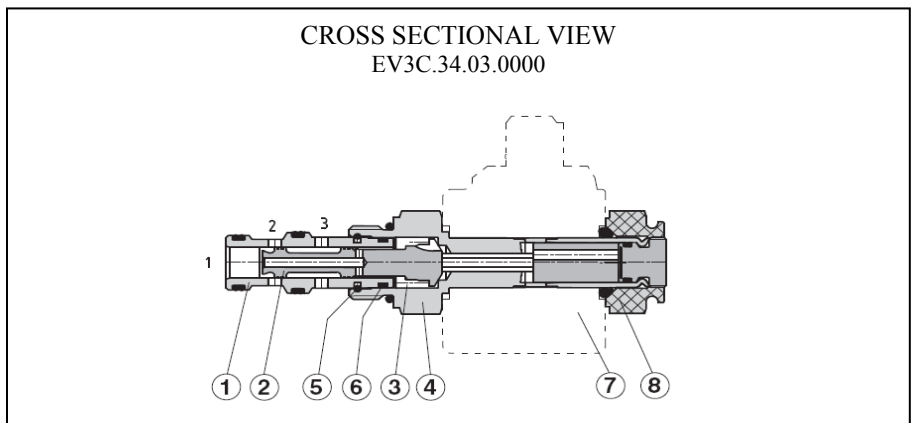


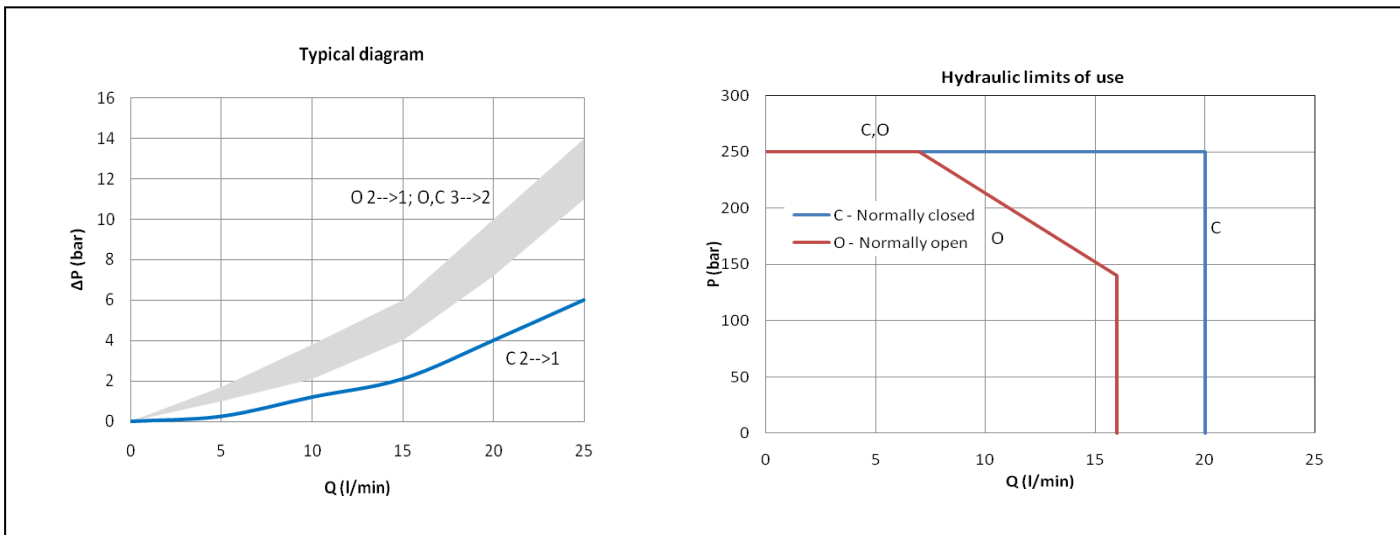
1 HOW TO READ THE MODEL CODE FOR VALVES EV3(C).34.(04).(012C).*.**

EV3 (C) . 34 . (04) . (012C) . * . **
 ① ② ③ ④ ⑤ ⑥ ⑦

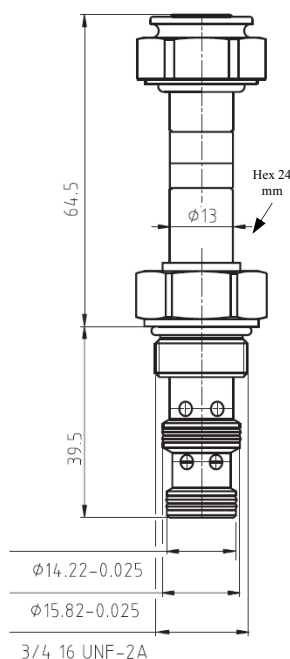
- ① EV3 : 3-way solenoid operated spool type
- ② (C) : spool type (see 2)
 C: normally closed
 O: normally open
- ③ 34 : cavity 3/4" 16 UNF – see A
- ④ (04) : valves variants (see 9)
 03 : without manual override
 04 : manual override push type (standard)
 05 : manual override screw type
- ⑤ (012C) : 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

3 DESCRIPTION
 Screw-in 3/2 solenoid valves type EV3**.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 1,2,3 ports.





5 INSTALLATION DIMENSIONS



Seals:

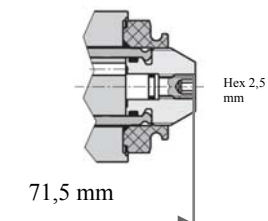
Body Dualseal -PU:
 1pcs- 11,87x14,27x3,1
 1pcs- 13,4x15,87x3,1
 O-ring - NBR
 1 pcs- 17,0x1,8

Solenoid and retaining nut
 O-ring- NBR
 1-pcs- 12,4x2,4

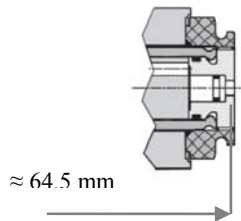
All dimensions are mm

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

EV3*.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	

