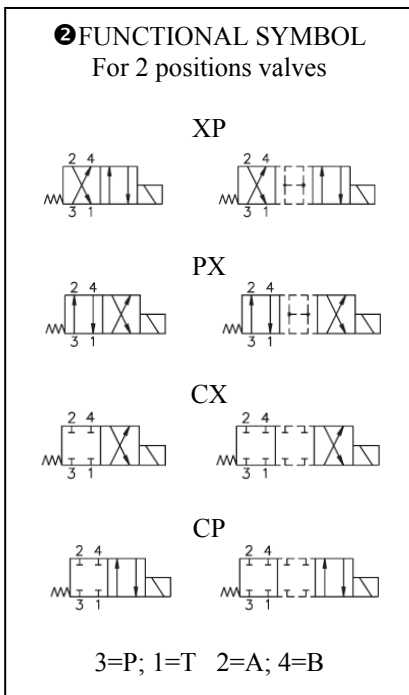
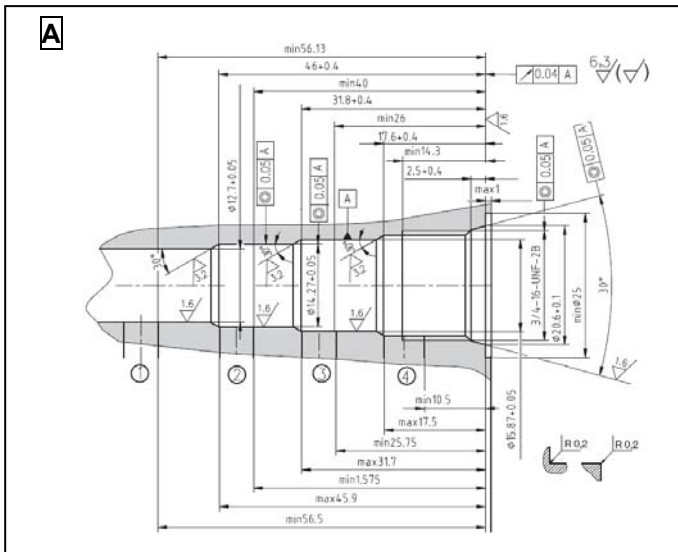


# Screw in, 4-way solenoid operated directional control valve spool type EV4\*\*.34.\*

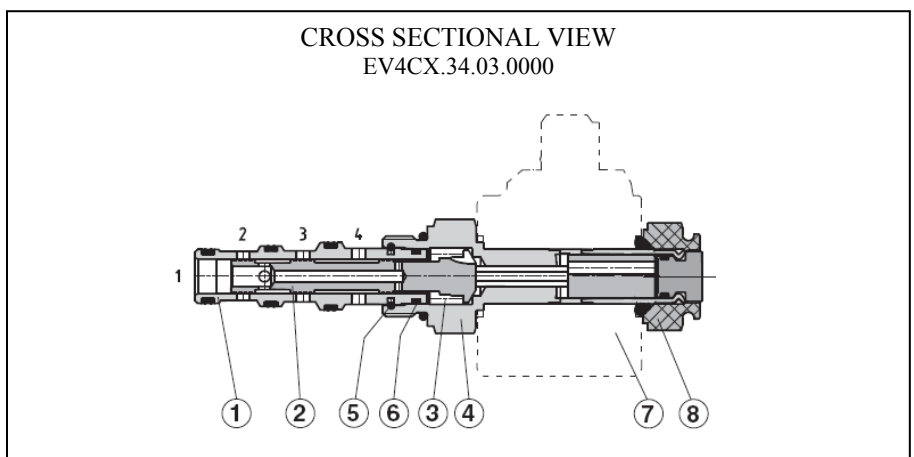


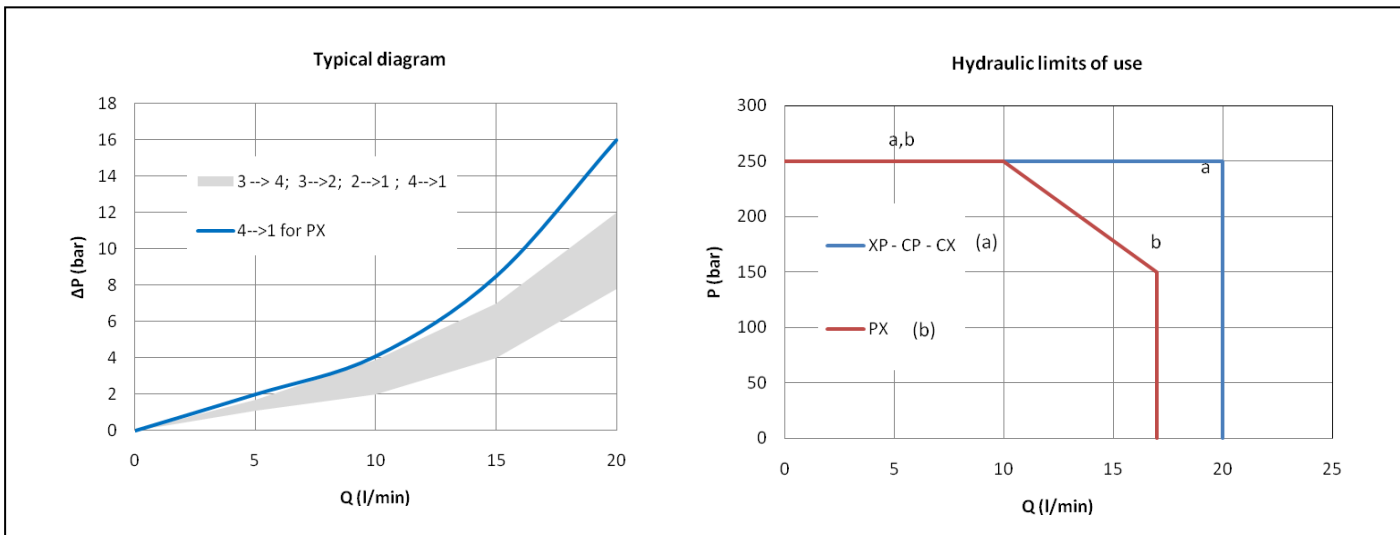
**3 DESCRIPTION**  
Screw-in 4/2 solenoid valves type EV4\*\*.34 are composed by a valve sleeve ①, a control spool ②, a return spring ③, and an actuating assembly ④ that comprises the magnetic parts and the screwing section. An energizing electric solenoid coil ⑦ is fastened to the assembly by means 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 1,2,3,4 ports.

**1 HOW TO READ THE MODEL CODE FOR VALVES EV4(XP).34.(04).(012C).\*. \*\***

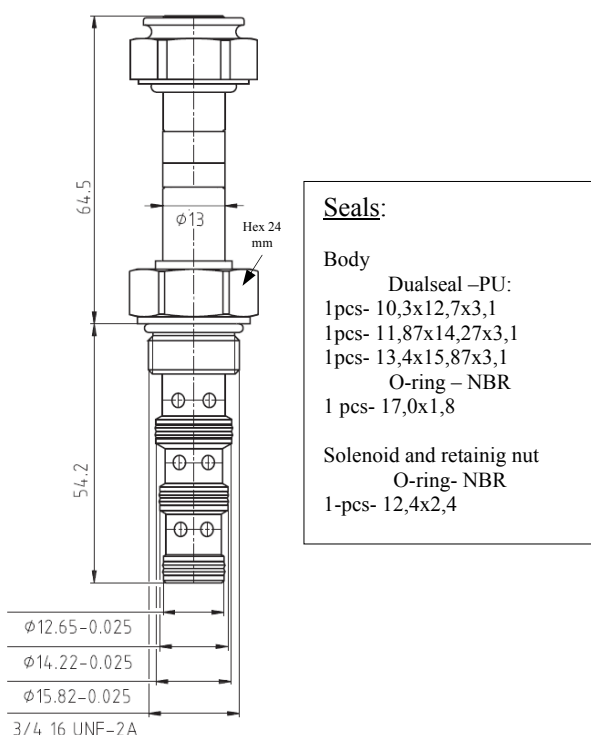
**EV4 (XP) . 34 . (04) . (012C) . \* . \*\***  
① ② ③ ④ ⑤ ⑥ ⑦

- ① EV4 : 4-way solenoid operated spool type
- ② (XP) : spool type (see 2)
- 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



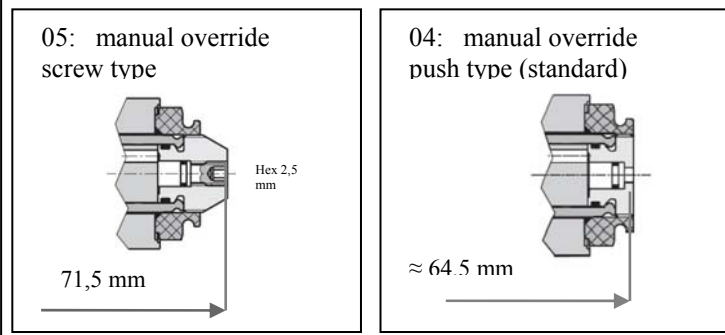


**5 INSTALLATION DIMENSIONS**



All dimensions are mm

**9 VARIANTS OF MANUAL OVERRIDE**



**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**

EV4\*.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	

