

6 : hydraulic symbol

Fieldbus connector

BC - CANopen

5 pin - metallic

see STEP 2.2

Adapter

E-A-BC-USB/DB9

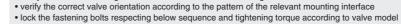
IR (Infrared)

INSTAL	INSTALLATION	
STEP 1	STEP 2	STEP 3
MECHANICAL	ELECTRICAL	PC SOFTWARE

In case of first commissioning, before the valve installation the whole system must be correctly flushed to grant the required cleanliness level During the flushing operation use on-off or by-pass valves in place of the proportional valve

remove protection pad P1 located on the valve bottom face only immediately before installation (do not remove connectors caps)

· check the presence and correct positioning of the seals on valve ports • verify that valve mounting surface is clean and free from damages or burrs



DHZE-TID		DKZE-TID				
Mounting surface layo 4401-03-02-0-05 4401-03-03-0-05 (for /Y without X po Valve size ISO 4401	ort)	$ \begin{array}{c} n^{\circ}1 \text{ OR } 2025 \text{ for option } /Y \\ T \bullet \bullet y \\ A \bullet \bullet B \\ \bullet P \\ n^{\circ}4 \text{ OR } 108 \end{array} $	Mounting surface la 4401-05-04-0-0 4401-05-05-0-0 (for /Y without X p Valve size ISO 440	95 95 port)		108 for option /Y
Fastening bolts socket head screws		Tightening torque: 8 Nm	Fastening bolts socket head screws		Tightenin	g torque: 15 Nm
1234	٦		1234	٦	<b>?</b>	
°4 M5x50 lass:12.9	wrench 4 mm	<b>9 9</b>	n°4 M6x40 class:12.9	wrench 5 mm	٩	

## **RELATED DOCUMENTATION** - www.atos.com

FS900	Operating and maintenance information - tech. table	E-MAN-RI-TID	TID - driver operating manual
FS155	DHZE, DKZE servoproportional - tech. table	E-MAN-S-BC	CANopen protocol programming manual
P005	Mounting surfaces - tech. table		
GS500	Programming tools - tech. table		
GS510	Fieldbus - tech. table		
K800	Electric and electronic connectors - tech. table		

IL (IO-Link)

BP (PROFIBUS DP)

Download PC software at www.atos.com

accessing to "MyAtos -> Download area electronics"

E-SW-SETUP is free and available in Download area

Free registration by filling the form at www.atos.com/en-it/login

BC (CANopen) EW (POWERLINK) BP (PROFIBUS D EI (EtherNet/IP)

supports valves with SP, SF, SL alternated p/Q control

REMARK Atos PC software is designed for Windows based operative systems - Windows 10 or later

G

Main connector

7 pin - metallic

see STEP 2.1

CANopen connection

Terminator

E-TRM-BC-DB9/DB9

PS (Serial)

EH (EtherCAT) EP (PROFINET RT/IRT)

INSTALLATION TOOLS ACCORDING TO VALVE MODEL- not included

Wrenches

for fastening bolts

Cable

E-C-BC-DB9/M12

see STEP 1

supports NP (USB)

上

Download area

**PROGRAMMING TOOLS** - not included

Fastening bolts

socket head screws

PC software

E-SW-SETUP

PC SOFTWARE DOWNLOAD

WELCOME

Password

Register

PC SOFTWARE

E-SW-SETUP

### **ATTENTION !**

The purpose of this quickstart guide is show a logical sequence of basic operations. This guide does not cover all details or variants of Atos valves. All operations described in this document should be performed only by qualified personnel. Operations and images could be subject to change without notice. For further information please refer to related documentation.

( www.atos.com

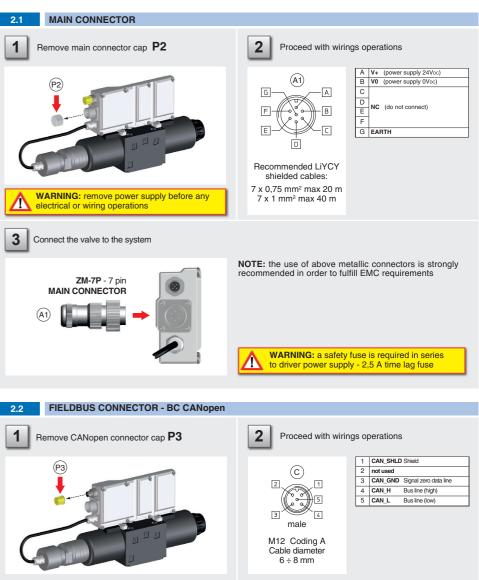
CONTACT US

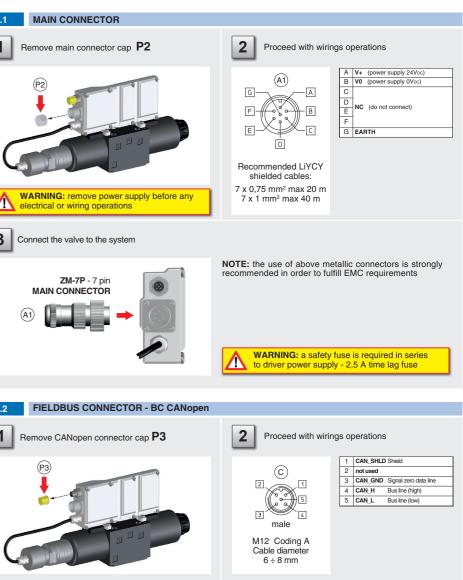
# STEP 2 ELECTRICAL

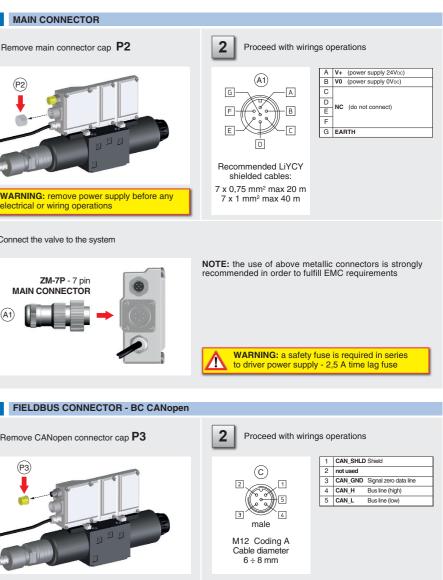
STEP 1

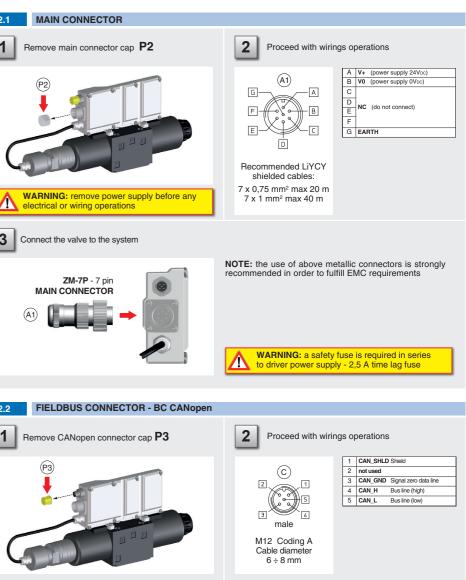
STEP 3

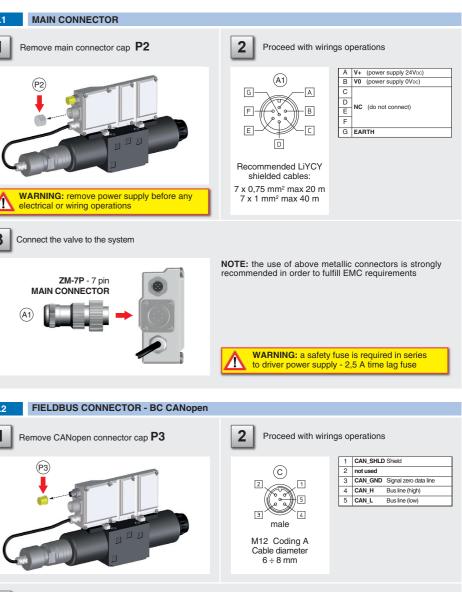
# 1

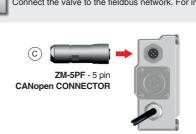












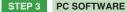
# STEP 1 MECHANICAL



To proceed with the wiring of the main and CANopen connectors, perform the following steps.

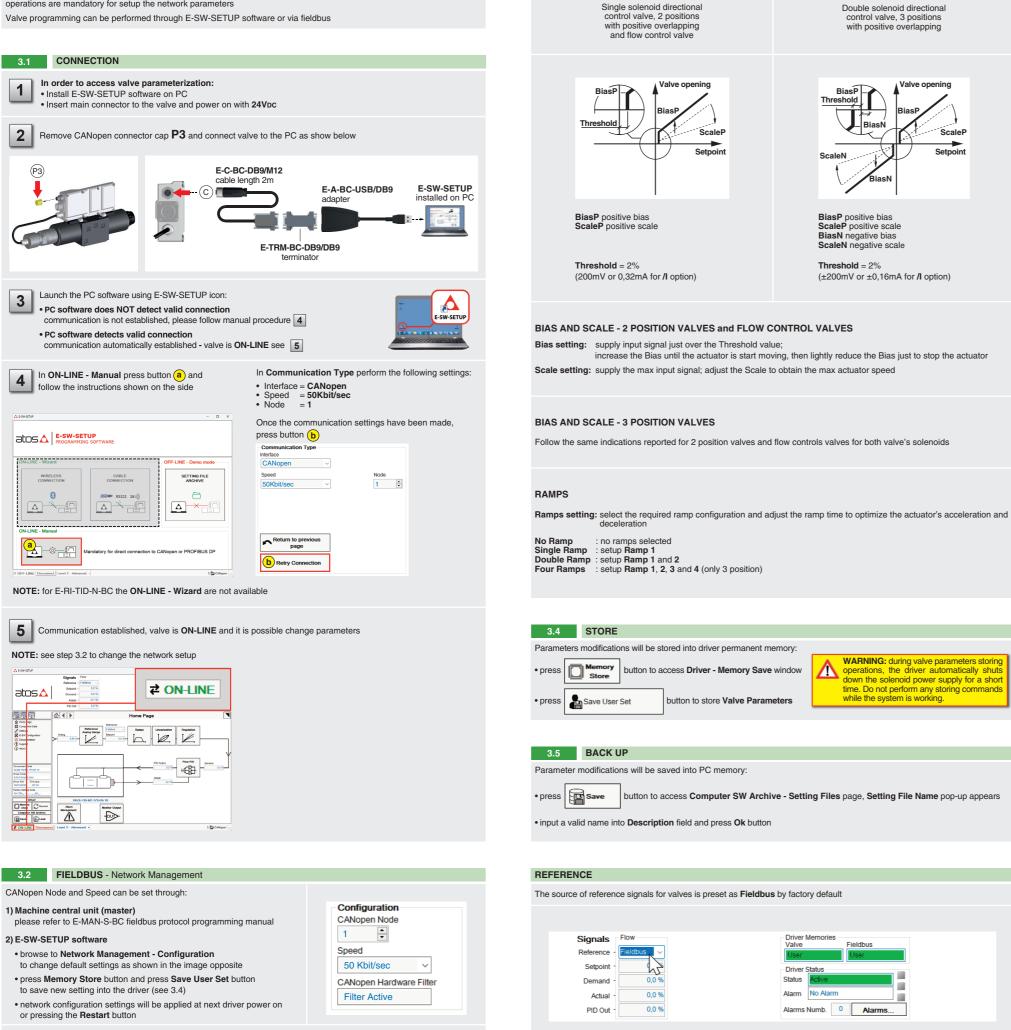
3 Connect the valve to the fieldbus network. For information about fieldbus terminators see GS500

NOTE: the use of above metallic connectors is strongly mmended in order to fulfill EMC requirements



REMARK proportional valves with on-board electronics are factory preset with default parameters, only few programming operations are mandatory for setup the network parameters

Valve programming can be performed through E-SW-SETUP software or via fieldbus



3.3 CONFIGURATION

### HINT ! - Wizard objects dictionary

Double solenoid directional

Valve opening

Scale

Setpoin

►

Press CTRL + H on the PC keyboard to open the context help form Move arrow on parameter (e.g. Unit) to display the objects dictionary information to access the parameter via fieldbus If present List, press is to display values accepted by the parameter

		Refere
Init Current	~	
.00 mA	Input Actual Value	20,00 m/
/in Input	0,00 mA	Max Input
Narm Reaction - Out	Of Limits Message	~
2.00 mA		22.00 mA

NOTE: alternatively right click on any param

# TROUBLESHOOTING

The valve does not follow the reference signal • valve is powered off, verify presence of 24 Vdc power supply with the valve's characteristics spool sticking, contact Atos service center

PC software parameters modifications are lost when valve is switched off • parameter store operation was not performed, check store procedure - see STEP 3, section 3.4

PC software parameters modifications have no effect on the valve • valve is OFF LINE, check connection procedure - see STEP 3, section 3.1

After the modifications of PC software parameters the valve does not work properly • restore valve factory parameters using 'Load Factory Set' button, located in 'Driver - Memory Save' window: - during restore, the current to the solenoid(s) will be temporarily switched to off! - factory parameters will be applied at next driver restart or after power off-on sequence!

NOTE: CANopen EDS configuration file is available in MyAtos area - www.atos.com

		Description
		Voltage
	0001	Current
	_	
Type:		
INTEGER8		
Channel Selection		
Index:0x2E01 - Sub Index:0x00 - Type:UNSIGNED8 - Value:00		
List		
[L] Interface Unit	⇒)	
Raw Value:		
d: 1 h: 0x01		
b: 0000 0001		
	30-deckel Merce:    [a^+cachol with cond with    Description:    Value/Teur/Poel/Poel/soliton > Ref. Analog range > Unit    Index:  Sub Index:    Occ00 [1172:0]  [occ00 [00]    Type:  [net/EE/EPB    Observed Selection	div setual val cond unit  Value    Discoption:  0x00    UniverFileWindmotion: Ref. Availag range > Unit  0x00    Mode:  Sub tridex:    OxESR [11720;0]  0x00 [Did]    Type:  (ArticletPin    Charlies Stackin  (ArticletPin    Index:  (Did)    Lot  (Li) retenface Unit    Rare Value:  (E: 0x01)

• flow/pressure values exceeding the valve's performance limits, verify that hydraulic operating conditions are incompliance