# **QUICKSTART BASIC**

### **PRODUCTS OVERVIEW**

QB310-0 - 11/2



## DIRECT OPERATED PROPORTIONAL DIRECTIONAL VALVES

- Valve model DHZE-TID DKZE-TID Driver model:
- F-RI-TID-N-NP

#### **IDENTIFICATION** Valve identification plates and label Valve and driver name plate : L 1 : driver code (L)atos∿∆ • CE 2 : driver serial number 3 : factory firmware version A: MAIN A: V+\* B: V0 C: AGND B: USB 4 : valve matrix code 610 5 : valve code C: AGND D: Q INPUT+ E: INPUT-F: Q MONITOR G: EARTH 6 : hydraulic symbol (4) → ∑

## INSTALLATION TOOLS ACCORDING TO VALVE MODEL- not included



#### **PROGRAMMING TOOLS** - not included



NOTE: Atos CONNECT supports Atos digital valve drivers equipped with E-A-BTH or with built-in Bluetooth, see STEP 5

### PC SOFTWARE

E-SW-SETUP	supports	NP (USB)	IL (IO-Link)	PS (Serial)	IR (Infrared)
		BC (CANopen) EW (POWERLINK)	BP (PROFIBUS DP) EI (EtherNet/IP)	EH (EtherCAT) EP (PROFINET RT/IRT)	
	supports	valves with SP, SF,	SL alternated p/Q control		

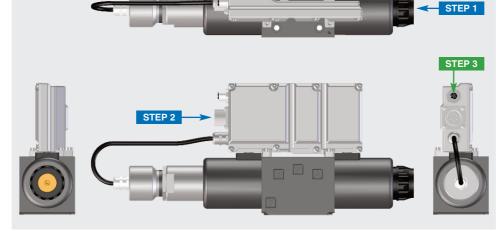
REMARK Atos PC software is designed for Windows based operative systems - Windows 10 or later

#### PC SOFTWARE DOWNLOAD



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

FS900	Operating and maintenance information - tech. table	STARTUP BLU	ЕТООТН	Bluetooth adapter startup guide
FS155	DHZE, DKZE servoproportional - tech. table	E-MAN-RI-TID	TID - driv	ver operating manual
P005	Mounting surfaces - tech. table			
GS500	Programming tools - tech. table			
K800	Electric and electronic connectors - tech. table			



INSTALLATION		PROGRAMMING		
STEP 1	STEP 2	STEP 3	STEP 4	
MECHANICAL	ELECTRICAL	PC SOFTWARE	MOBILE APP	

## STEP 1 MECHANICAL

(P1)

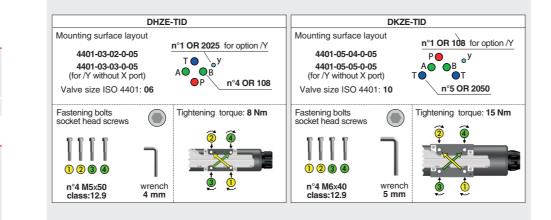
In case of first commissioning, before the valve installation the whole system must be correctly flushed to grant the required cleanliness level

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

• verify the correct valve orientation according to the pattern of the relevant mounting interface • lock the fastening bolts respecting below sequence and tightening torque according to valve model



WARNING: remove electrical or wiring of
3 Connect the valve to
ZM-7P - 7 MAIN CONNECTO (A1)

### ELECTRICAL WIRING EXAMPLES

### MAIN CONNECTOR - REFERENCE INPUT

REFERENCE INPUT - DIFFERENT			
cabinet side	main connecto pin-out		
±10 Vpc			
Ref. Q 🕣 🔶 🤇	D		
Ref. Q ⊖+→-C	E		

REFERENCE INPUT - COMMON M		
cabinet side	main connect pin-out	
±10 Vpc		
Ref. Q O+C	D	
L.	E	
⊥(0 V) <b>O</b> → C	С	

#### **ATTENTION !**

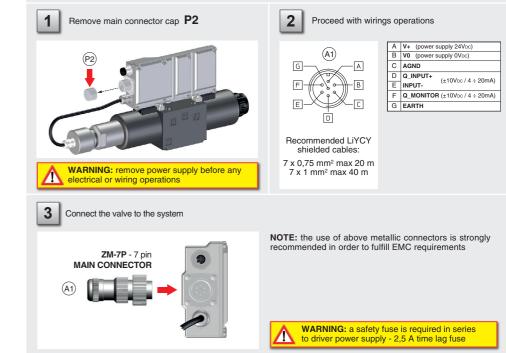
The purpose of this quickstart guide is show a logical sequence of basic operations. This guide does not cover all details or variants of Atos valves. All operations described in this document should be performed only by qualified personnel. Operations and images could be subject to change without notice.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

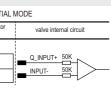
( www.atos.com

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To proceed with the wiring of the main connector, perform the following steps

STEP 2 ELECTRICAL

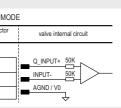


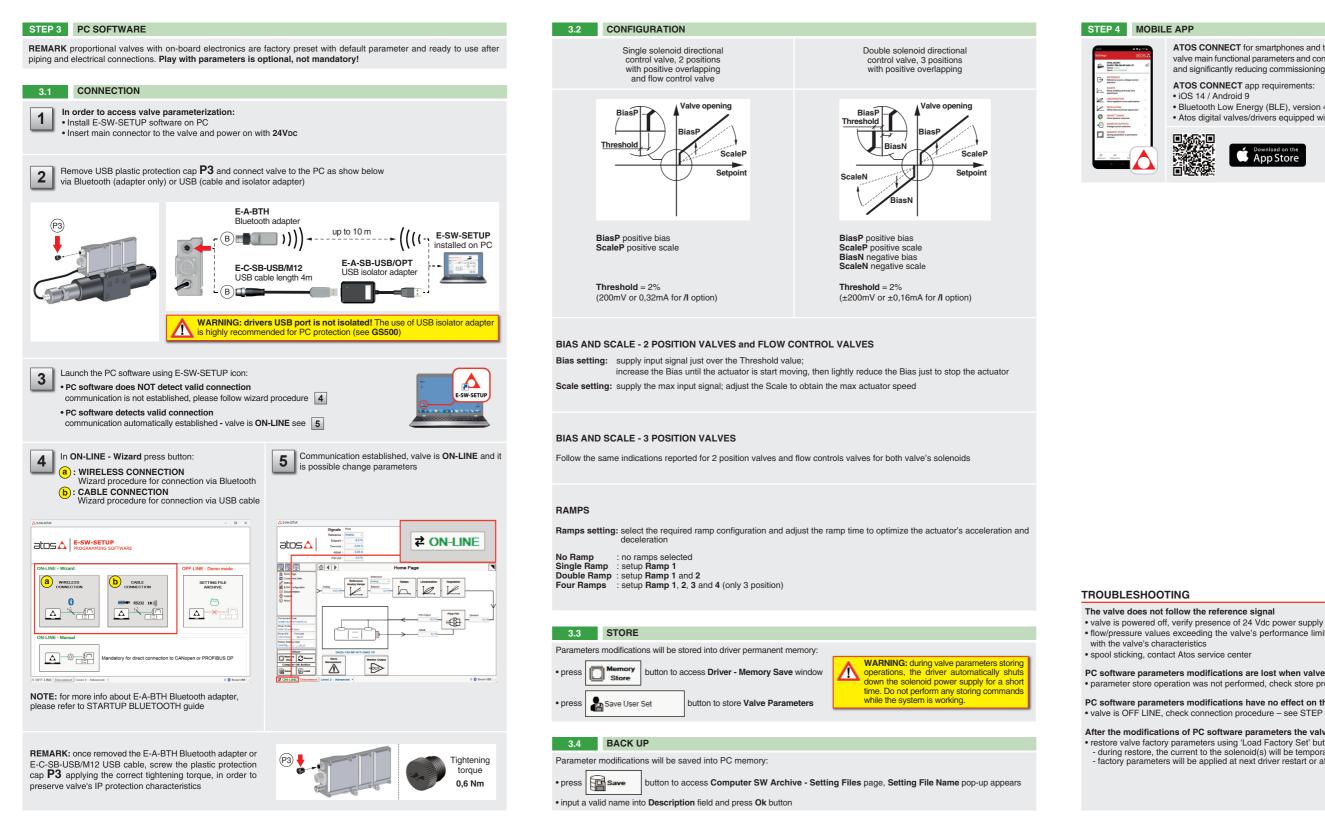


#### MAIN CONNECTOR - MONITOR OUTPUT

MONITOR OUTPUT

cabinet side	main connector pin-out	valve internal circuit		
<b>±10 Voc</b> Mon. Q ()	F			
⊥ (0 V) OC	С			





ATOS CONNECT for smartphones and tablets is a free downloadable app which allows quick access to valve main functional parameters and configuration via Bluetooth, thus avoiding physical cable connection and significantly reducing commissioning times.

#### ATOS CONNECT app requirements:

#### • iOS 14 / Android 9

• Bluetooth Low Energy (BLE), version 4.0 or higher

• Atos digital valves/drivers equipped with E-A-BTH Bluetooth adapter or with built-in Bluetooth









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

PC software parameters modifications are lost when valve is switched off • parameter store operation was not performed, check store procedure – see STEP 3, section 3.3

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!