QUICKSTART BASIC

PILOTED OPERATED PROPORTIONAL DIRECTIONAL VALVES

Valve model DPZE-TID-2 DPZE-TID-4 DPZE-TID-6 Driver model E-RI-TID-N-NP



I proportionals with LVDT transducer - analog reference signal

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)	1
	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 BLUE	тоотн	Bluetooth adapter startup guide
FS158	DPZE one LVDT transd. positive spool overlap - tech. table	E-MAN-RI-TID	TID - driv	er operating manual
P005	Mounting surfaces - tech. table			
GS500	Programming tools - tech. table			
K800	Electric and electronic connectors - tech. table			

STEP STEP 2

INSTAL	LATION	PROGR	AMMING
STEP 1	STEP 2	STEP 3	STEP 4
MECHANICAL	ELECTRICAL	PC SOFTWARE	MOBILE APP

STEP 1 MECHANICAL

n°6 M20x90

class:12.9

wrench 17 mm

(j)

(P1)

PRODUCTS OVERVIEW

QB330-0 - 11/2

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



DPZE-TID-*-2	DPZE-TID-*-4
Mounting surface layout 4401-07-07-0-05 Valve size ISO 4401: 16 Valve size ISO 4401: 16	Mounting surface layout 4401-08-08-0-05 Valve size ISO 4401: 25 $x \stackrel{A}{\bullet} \stackrel{B}{\bullet} \frac{n^{\circ}2 \text{ OR } 3056}{n^{\circ}4 \text{ OR } 4112}$
Fastening bolts socket head screws	Fastening bolts socket head screws
DPZE-TID-*-6	
Mounting surface layout 4401-10-09-0-05 Valve size ISO 4401: 32 $x \stackrel{A}{\bullet} \stackrel{B}{\bullet} n^{\circ}4 \text{ OR } 144$	
Fastening bolts socket head screws	

STEP 2 ELECTRICAL Remove main connector cap P2 1 (P2) WARNING: remove power sup electrical or wiring operations 3 Connect the valve to the system **ZM-7P** - 7 pin MAIN CONNECTOR (A1)

STEP 3

ELECTRICAL WIRING EXAMPLES

MAIN CONNECTOR - REFERENCE INPUT

REFERENCE INPUT - DIFFEREN		
cabinet side	main connect pin-out	
±10 Vpc		
Ref. Q 🕀 🔶 C	D	
Ref. Q 🕞 🔶 C	E	

REFERENCE INPUT - COMMON			
cabinet side	main connec pin-out		
±10 Vpc			
Ref. Q O+-C	D		
	E		
⊥(0 V) O →−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.

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





MAIN CONNECTOR - MONITOR OUTPUT

MONITOR OUTPUT

cabinet side	main connector pin-out	valve internal circuit		
±10 Vpc Mon. Q((0 V)(F C			





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

• missing piloting pressure, verify that hydraulic power level is compliant with valve's characteristics

• wrong pilot/drain configuration - check if the pilot/drain configuration of the valve corresponds to the effective system layout

• 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!