OVERVIEW

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 cap 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 damage or burns 
- lock the fastening bolts respecting next sequence and tightening torque according to valve model 

STEP 1 MECHANICAL

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 cap 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 damage or burns 
- lock the fastening bolts respecting next sequence and tightening torque according to valve model 

PROGRAMMING SOFTWARE

The software is available in different versions according to the driver’s options:

- E-SW-BASIC supports NF (USB), PS (Serial), RS (Infrared)
- E-SW-BASIC supports supports CF (Serial), CB (RS422/RS485), CP (PROFIBUS DP), CF (Fieldbus)
- E-SW-FIELDBUS supports add support for alternative P/G control SP, SL to E-SW-BASIC

REMARK: AtoS software is designed for Windows-based operating systems - Windows XP SP2 or later.

PROGRAMMING HARDWARE

- DVD software
- USB connection KIT
- DR Interface cable KIT
- Adapter

E-SW** programming software

DOWNLOAD AREA

E-SW-BASIC.exe: web download - Software can be downloaded upon web registration at www.atos.com; services and DVD not included
E-SW**.dvd: can be ordered separately - Software has to be activated via web registration at www.atos.com; 1 year service included; during WEB registration, 48h in the serial number on E-SW-DVD to receive the software Activation Code.

REMARK: The software remains active for 10 days from the installation date and then it stops unless the user inputs the Activation Code.

WARNING: The valve must be thoroughly cleaned before installation.

Related documentation:
- www.atos.com - Catalog on-line

Contact us:
- AtoS spa - Italy - Sesto Calende
- www.atos.com
- support@atos.com
- 011 0220 1400

12 pin
5 pin
3 pin
2 pin
ELECTRICAL WIRING EXAMPLES

MAIN CONNECTOR - VOLTAGE

REFERENCE INPUT - DIFFERENTIAL MODE

REFERENCE INPUT - COMMON MODE

MONITOR OUTPUT

HYDRAULICS

Air bleeding:
- release 2 or 3 turns the air bleed screw
- lock the air bleed screw

Mechanical pressure limiter setting – only AG600 and AG600 with IP option

- adjust the maximum value of the mechanical pressure limiter using the adjustment screw (3)
- turn clockwise the adjustment screw (3) until the mechanical pressure limiter remains closed during the operation

WARNING: To avoid overheating and possible damage of the electronic valve, the valve may be switched off for a short time. Do not perform any storing commands while the system is working.

Waterproofing
- lock the waterproofing stud (5 mm)

Consult tech guide PDG for general guidelines on component's commissioning

RIGHT-CLICK on any (EXSW) parameter (e.g. U10m) to display the objects dictionary information to access the parameter via fieldbus

NOTE: Bluetooth adapter available!
For more info please refer to STARTUP-B1 guide

REMARK: once removed the USB cable E-SC-SUSB-M12, screw the plastic protection cap P4 applying the correct tightening torque, in order to preserve valve's IP protection characteristics

4.2 FIELDBUS - Network Management

Node, Station Address, IP Address, BaseUnit, etc. can be set through:
1) Machine central unit (master) – please refer to E-6WAN-S-7 fieldbus protocol programming manual
2) E-SW software
- switch to Level 2 - Advanced and browse to Network Management - Configuration to change below default settings:
- BC CANopen
- Configuration Info: EDS
- BF PROBUS DP
- Configuration Info: GSD
- EH EtherCAT
- Configuration Info: XML

Note: configuration files are available in E-SW DVD or at Azot Download Area - www.azot.com

4.4 STORE

Parameters modifications will be stored into driver permanent memory

Press Save button to access Computer SW Archive - Setting Files page

Setting File Name pop-up appears. Input a valid name and press Ok button.

TROUBLESHOOTING

Valve vibration or noise
- Presence of air in the solenoid - perform air bleeding procedure – see STEP 3
- The valve does not follow the reference signal
- Valve is damaged, verify presence of 24 Vdc supply
- The maximum pressure limiter interferes with the regulation (AGMZO and AGRCZO with /P option) – check the pilot relief
- Valve is powered off, verify presence of 24 Vdc power supply
- Software parameter modifications are lost when valve is switched off
- Software parameter modifications have no effect on the valve
- test OFF LINE, check connection procedure – see STEP 4, section 4.4

After the modifications of software parameters the valve does not work properly
- Restore valve factory parameters using ‘Restore Factory’ button, located in ‘Driver - Memory Store’ window
- During operation of the pump, the driver automatically shuts down the solenoid power supply for a short time. Do not perform any storing commands while the system is working.

NOTE: Factory parameters will be applied at next driver restart or after power off-on sequence!