



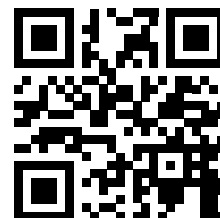
AQUAFORCE e-MTV®

Variable Speed Pumping Systems



For safety and correct product usage, read the manual before this product is used.

THE MANUAL IS AVAILABLE AT:
www.xylem.com/goulds



1 Introduction

NOTICE:



Read the installation, operation and maintenance instructions located on the Xylem website before use. Improper use of the product can cause personal injury and damage to property and may void the warranty. See e-MTV Booster System Instruction Manual for complete Product Warranty.



WARNING:

Always lock out power to the driver before you perform any installation of maintenance tasks. Failure to disconnect and lock out driver power will result in serious injury.



WARNING:

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to: www.P65Warnings.ca.gov.



WARNING:

Personal protective equipment should be worn when handling this equipment. Only use properly sized certified lifting equipment & lifting devices, including slings, suitably rated for the weights to be lifted. Slings, when used, must be of identical materials to avoid differences in stretch rates. Do not use lifting devices that are frayed, kinked, unmarked, or worn.

2 Transportation requirements



WARNING:

- Assembled units and their components are heavy. Failure to properly lift and support this equipment can result in serious physical injury and/or equipment damage. Lift equipment only at the specifically identified lifting points. Lifting devices such as eyebolts, slings, and spreaders must be rated, selected, and used for the entire load being lifted.
- Crush hazard. The unit and the components can be heavy. Use proper lifting methods and wear steel-toed shoes at all times.



CAUTION:

Care should be taken to prevent damage due to dropping or jolting when moving the controller. Transportation damage should be brought to the carrier's attention immediately upon receipt.



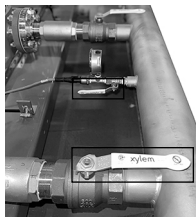
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3 Pre-Start Checklist

The full e-MTV IOM must be consulted for more details while reviewing the following checklists:

Mechanical

- Supply (Inlet) and Discharge plumbing have been connected to the respective suction and discharge manifolds.
- Manifold header isolation valves have been opened to let water flow through the booster system.
- All individual pump branch isolation valves (2 for each pump - one on the pump inlet and one on the pump discharge) are in the open position. See image below.
- Pressure transducer isolation valve(s) are in the open position. See image below.



- Each booster pump has been purged of air by using bleed valves.
- All connection points have been checked for leaks.
- If installed/applicable, Low Inlet Pressure switch (LIP switch) has been set to appropriate value for the installation site conditions.

Electrical – to be reviewed/performed by qualified personnel

- Electric power feed voltage ratings match the e-MTV system nameplate along with the overcurrent protection and wire sizing requirements for each the NEC, local codes/ordinances, and factory electrical schematics.
- Individual pump circuit breakers are closed (in the ON position)
- BMS (building management system) and/or SCADA communications/signal connections have been made to the appropriate connection point(s) for the type(s) in use on site.
- Ensure the enclosure door is closed and secured for operation prior to the next step

4 Power On

The following actions shall only be taken by qualified personnel. The full e-MTV IOM shall be consulted for more details.

1. Close (Turn On) the feeder circuit switch or breaker.
2. Close (Turn On) the main disconnect switch on the e-MTV enclosure door.
3. Once the HMI has finished bootup, log in as appropriate user (Supervisor, Technician, and so forth).

5 Startup

Certain critical settings will have factory default values which may or may not apply to a given installation site. Take care when changing these settings. The full e-MTV IOM shall be consulted for more details.

1. Pump Motor Bump and Rotation Test
 - a. Put the system in Manual Mode.
 - b. Set running speed to 20 Hz
 - c. Start all pumps.
 - d. Verify that each pump motor is rotating the correct direction according to the markings on the pump.
 - e. Stop the pumps.
2. Pressure setpoint and alarms
 - a. Change the primary variable pressure setpoint to match site requirements.
 - b. Verify that all pressure-related alarms are sensible for the application and requirements.
3. Start the System.
 - a. Put the system back into Auto Mode.
 - b. Press start.

Xylem Product Cybersecurity

Xylem values system security and resilience. Defending against cybersecurity threats is a shared responsibility. Xylem builds products that are secure by design. Our customers have a responsibility to understand the risks inherent in their processes and take steps to operate and maintain their solutions securely. For details and updates on Xylem product cybersecurity visit xylem.com/security