



Bell & Gossett

a xylem brand

BG-PCR-eMTV-14006 R1



TECHNOFORCE® Product Comparison Chart

e-MT vs. e-MTV Packaged Booster Systems



Available Package Pump Quantities	e-MT	e-MTV
2	•	•
3	•	•
4	•	
5	•	
6	•	
7	•	
8	•	
Available Pump Models		
e-SV	•	•
e-SH	•	
NPE	•	
Control Strategy and Features		
Sensored Control for Open Loop Applications	•	•
Multiple Zone Control (Up to 4)	•	
Dynamic Flow Loss Compensation	•	
Standard Features		
7" Full Color Touchscreen User Interface		•
10" Full Color Touchscreen User Interface	•	
Main Power Disconnect	•	•
Through-door Circuit Breakers for VFD Power Interruption		•
Fused Disconnects for VFD Power Interruption	•	
Discharge Pressure Transducer	•	•
Thermal Relief Assembly	•	•
Discharge Check Valves	•	•
304SS Suction and Discharge Manifolds	•	•



Standard Features (cont'd.)	e-MT	e-MTV
Painted Steel Base and Panel Stand	•	•
Suction and Discharge Isolation Valves	•	•
Panel Alarm Horn	•	•
UL Type 1 or 12 Control Enclosures	•	•
Optional Features		
Redundant Discharge Pressure Transducer	•	•
Suction Pressure Transducer	•	
Low Suction Pressure Switch	•	•
Loss of Prime Assembly	•	
Flowmeter	•	
Stainless Steel Check Valves	•	
Jockey Pump (Up to 2)	•	
Emergency Power	•	
Generator Mode	•	
Surge Arrestors	•	
AEGIS Shaft Grounding Rings	•	
Manual Selector Switches	•	
65kA-100kA SCCR	•	
UL Type 4 or 4X Control Enclosures	•	
Bypass Piping	•	
316SS Manifolds	•	
Severe Duty Paint	•	
High Pressure Configurations (up to 580 PSI)	•	
Vibration Pads	•	
Non-standard Panel Orientations	•	
System Programming and Functionality		
Programmable Sequence of Alternation (Timed)	•	•
Programmable Sequence of Alternation (Pump Sequence)	•	•
Programmable Sequence of Alternation (Run Time)	•	•
Pump Duty/Standby Selection (Flow Split Selection)	•	•
Stage and Destage Proof Timers	•	•
Stage and Destage Speed Selection	•	•
Ramp Up and Ramp Down Speed Selection	•	•
Line Fill Mode	•	•
Date and Time Settings	•	•
Setpoint (Fixed)	•	•
Setpoint (Scheduled)	•	•
Alarm and Data Logging	•	•
User Types (Guest/Supervisor/Technician)	•	•



System Protections and Detectable Fault Conditions	e-MT	e-MTV
Pump Failure	•	
VFD Run Failure	•	•
VFD Communication Failure	•	
Low and High System Pressure	•	•
Low and High Suction Pressure (Requires Suction Transducer)	•	
Loss of Prime (Requires Loss of Prime Assembly)	•	•
Low and High Tank Level (Requires Optional Level Switches)	•	
Low Inlet Pressure (Requires Optional Low Inlet Pressure Switch)	•	•
Over-voltage Protection	•	•
Under-voltage Protection	•	•
Over-current Protection	•	•
Low or High System Failure	•	•
Inputs and Outputs		
Programmable Digital Inputs (qty.8) ⁽¹⁾	•	
Programmable Analog Inputs 4-20mA (qty.3) ⁽²⁾	•	•
Programmable Analog Output 4-20mA (qty.3) ⁽³⁾		
Programmable Analog Output 4-20mA (qty.1)	•	
Solid State Digital Outputs (qty.2)	•	
Programmable Relay Outputs 230VAC/5A Rating (qty.5) ⁽⁴⁾		
Programmable Relay Outputs 230VAC/5A Rating (qty.2)	•	
Communication Protocols		
Modbus RTU	•	•
Modbus TCP	•	•
BACnet MSTP	•	•
BACnet IP	•	•
Johnson N2	•	
Data Points Available via Communication Protocol		
System Start/Stop	•	•
System Operation Mode (Auto/Manual)	•	•
System Sequence Alternation	•	•
System Pressure	•	•
Suction Pressure	•	
System Power	•	
Analog Inputs 1 through 4	•	
System Flow (Requires Flow Meter)	•	
Individual Set Point 1 through 4	•	
Individual Drive Current	•	
Individual Drive Power	•	



Data Points Available via Communication Protocol (cont'd.)	e-MT	e-MTV
Individual Pump Off (Alarm or OK)	•	•
Individual Pump Enabled/Disabled	•	•
Speed (%)	•	•
General Alarm	•	•
Individual VFD Failure (Failure or OK)	•	•
Individual Pump Failure (Failure or OK)	•	
Analog Inputs 1 through 4 Failure (Failure/OK)	•	•
Individual Sensor Failure	•	•
System Reset Request (Yes or No)	•	
Lead Pump Number	•	
Active Zone Number 1 through 4	•	

(1) INPUT AND OUTPUTS - PRE-ASSIGNED IN e-MTV. NON-PROGRAMMABLE
(2) INPUT AND OUTPUTS - ONLY RANGE CAN BE PROGRAMMED
(3) INPUT AND OUTPUTS - PRE-ASSIGNED IN e-MTV. NON-PROGRAMMABLE
(4) INPUT AND OUTPUTS - PRE-ASSIGNED IN e-MTV. NON-PROGRAMMABLE

To learn more about
TECHNOFORCE e-MTV



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