FMI WASTE/TRANSFER PUMP SPECIFICATIONS

Inlet*

Outlet*

PTFE Compression Fittings for 1/4" Tubing (2X)

FMI Serial Tag

See Detail A

24V BLDC Motor
W/Integrated Driver
FMI P/N 301319-1*

Detail A

Flow Rate*

FMI Serial Number

FMI P/N

*NOTE: SEE SHEET 2 FOR MORE DETAILS.

FMI P/N 4C32072A033D

Fluid Metering Inc.
5 Aerial Way, Suite 500
Syosset, NY 11791

TOLERANCES:
.X = ± .06 [1.5]
.XX = ± .02 [.5]

NOTE: ALL DIMENSIONS IN INCHES [mm].
FMI WASTE/TRANSFER PUMP SPECIFICATIONS

- **CALIBRATED FLOW RATE:** PUMP CAN BE CALIBRATED 20 - 400 mL/MIN ± 5%.
- **PUMP PRESSURE RATING:** 4 BAR (APPROX 58 PSI) MAX ON OUTLET
- **ALLOWABLE PRESSURE SPIKE:** PRESSURE SPIKES UP TO 7 BAR (APPROX 102 PSI) FOR A MAXIMUM OF 10 SECONDS.
- **MOTOR SPEED:** MOTOR SPEED SET TO APPROXIMATELY 2000 RPM.
- **MOTOR DIRECTION:** MOTOR DIRECTION SET TO CLOCKWISE ROTATION FROM ORIENTATION NOTED ON SHEET 1.

**WETTED PATH MATERIALS:**
1. ETFE
2. PTFE IMPREGNATED CERAMIC (ALUMINA)
3. UHMWPE
4. FFKM
5. PTFE
6. DOW CORNING 111 LUBRICANT

**MOTOR/WIRING TABLE**

<table>
<thead>
<tr>
<th>WIRE COLOR</th>
<th>CHARGE TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>RED</td>
<td>POSITIVE</td>
</tr>
<tr>
<td>BLACK</td>
<td>NEGATIVE</td>
</tr>
</tbody>
</table>

**MOTOR/DRIVER SPECIFICATIONS:**

- **VOLTAGE:** 24V DC
- **VOLTAGE RANGE:** 22-26V DC
- **OVER VOLTAGE PROTECTION:** 27V DC
- **UNDER VOLTAGE PROTECTION:** 21V DC
- **STALL CURRENT:** 2.25 AMPS
- **OVER CURRENT PROTECTION:** 3 AMPS
- **NO-LOAD CURRENT:** 0.2 AMPS
- **RATED CURRENT:** 0.75/0.88 AMPS (MOTOR/DRIVER)
- **CONTROL MODE:** SQUARE WAVE CONTROL
- **SPEED CONTROL MODE:** CLOSED LOOP CONTROL
- **OPERATING TEMPERATURE:** -20° TO 60° C
- **INSULATION CLASS:** B

FMI P/N 4C32072A033D