



AMH1K-7ODRXZT1



The AquaMotion ODR Valve is a small, quiet, lead free stainless/brass valve that when mounted at the furthest point of hot water usage from the hot water heater. It acts in conjunction with a circulator to supply hot water continuously to the point of use. The ODR valve mounts below a fixture between the hot and cold supply lines. When the built-in timer on the circulator is set to run, hot water is delivered to the ODR valve. Cooling hot water in the hot water supply line is bled into the cold supply line which returns it to the tankless heater. As hotter water reaches the ODR valve it begins to close until a 95°F temperature is reached at which point the valve automatically adjusts to maintain this temperature. In addition to the ODR valve a bypass hose is connected from the circulator in the hot supply line that returns hot water to the cold supply line to the tankless heater. When the tankless heater senses flow from the bypass it will fire until the water entering the tankless reaches the tankless preset max incoming water temperature at which point the tankless stops firing. When the temperature of the water being returned through the pump bypass cools and reaches the preset limit of the tankless the tankless will re-fire. The circulator is equipped with a built-in timer that can be set for On, Off and Timer operation. Outdoor models have built-in freeze protection that turns the circulator on when freezing temperatures occur.

This is not an anti-scald device.

Materials of Construction

- Pump Housing (volute).....Stainless Steel
- Motor HousingSteel
- ImpellerComposite
- Seals & GasketsSilicone & EPDM
- Internal Wetted SurfacesStainless Steel
- ShaftCeramic
- BearingsCarbon Impregnated Bras

Technical Data

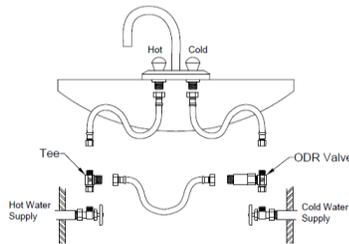
- Max Operating Pressure125 psi
- Max Ambient Temperature104 F
- Min. Inlet Pressure2 psi
- Max. Water Temperature230 F

Electrical Data

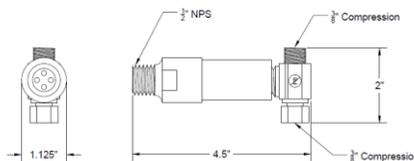
- Voltage120 V
- Current0.6 A

Note: Circulator Unions are 1" Male IP, bypass is 3/8" compression. Line cord is 10' with a 3-prong grounded 115V plug. The under-sink valve and Tee connections are 3/8" compression x 3/8" compression x 1/2" NPS.

ODR Valve Installation



ODR Dimensions



**Submittal
Data Sheet
SD120**

**EFFECTIVE
1/25/21**

SUBMITTAL DATA APPROVAL

For: _____

Date Submitted: _____

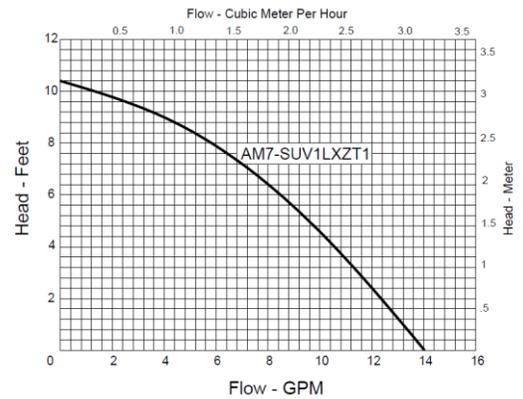
Date Approved: _____

Model Number: _____ Quantity: _____

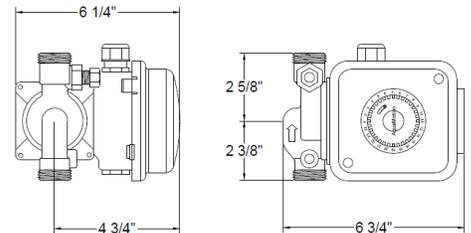
US DESIGN • US BUILT



**Performance Curve
AM7-SUV1LXZT1 Circulator**



Circulator Dimensions



Circulator Installation

