



Netafim Performance Specifications

HYDROMETER SPECIFICATIONS

Netafim Hydrometers shall be 1½", 2", 3", 4" 6" and 8" Electric Globe models, manufactured under brand name of Netafim USA.

Construction

Hydrometer body is epoxy coated cast iron for superior high temperature and high-pressure strength. Plug shall be provided for globe configuration sealed with an o-ring for the purpose of draining valve for winterization. Hydrometers shall be double chamber (6" is single chamber). All Hydrometers shall be designed to close slowly to provide for smooth opening and closing to prevent water hammer. Hydrometer shall have electric or manual operation. Manual operation shall have a solenoid bypass and a three way selector to bypass solenoid to activate. Hydrometer shall have a self cleaning removable filter to filter the command water. Hydrometer shall be serviceable in the field without removing from the system. Hydrometer shall be powered by a 24 VAC captive plunger solenoid, .4 amp inrush and .2 amp holding. Hydrometer shall have straightening vanes before the impeller which will encompass the entire diameter of the valve throat. The impeller shall couple with the register by use of magnets and the register shall sit in a dry compartment. The register shall be able to be serviced and removable while the system is under pressure. Hydrometer shall have pulse output in both low frequency and high frequency. Low frequency pulse shall have a minimum of 2 pulses per minute. High frequency shall have a minimum pulse of 3 pulse per second.

Operation

Hydrometer shall have a pressure rating of 235 psi and a working pressure range of 15psi to 160psi maximum and a recommended flow range from 1.8 gpm to 1500 gpm depending on Hydrometer size.

Pressure Regulation

Pressure regulation shall be done by using a three-way pilot. Command water shall not continuously run while Hydrometer is in pressure regulation mode. Pressure regulation shall be by means of solenoid or manual operation by use of a three-way selector. Output pressure regulation range shall be from 5 psi to 113psi depending on pressure regulating option.. Hydrometer shall have self modulating type regulator that maintains constant downstream pressure and be accurate to within ± 2 psi of pressure setting. Inlet pressure shall be no more than the pressure loss across the valve due to flow rate.