

AquaNet Plus valve

Netafim



The AquaNet Plus valves are electric valves that are used for automatic irrigation of the garden and/or to divide it into various zones ("irrigation sections"). There are two models: 1" and 2". Both models are available in both AC and DC (latch) versions. The 2" valve has an integral pressure regulator (range 0.7 - 4.5 bar). All AquaNet Plus valves are also equipped with integral flow rate control and manual operation so that the AquaNet can be opened and closed independently of the controller.

APPLICATION

Agricultural sector, garden and park irrigation, water supplies

CHARACTERISTICS

- ✓ Patented 3-position system: Open, closed and automatic
- ✓ Designed for different water qualities
- ✓ Variable pressure (0.7 - 4.5 bar with 2" model)
- ✓ Variable capacity by means of flow rate regulator
- ✓ Manual override function: CLOSE - AUTO - OPEN
- ✓ Low energy consumption, allowing maximum cable lengths
- ✓ EPDM diaphragm resistant to chemicals commonly used in horticulture

TECHNICAL DATA

Model 1"

Version	: straight
Capacity	: 0,025 - 7,0 m ³ /h
Working press.	: 0,2 - 10 bar
Temperature	: 60°C (with decreasing max. pressure)
Material	: reinforced nylon (housing) : EPDM (diaphragm)

AC control

Voltage	: 18 - 28 VAC
Inrush	: 220 mA
Holding	: 110 mA
Cable length	: 80 cm

DC control

Voltage	: 12 - 40 VDC (latch)
Pulse length	: 80 - 500 msec

Model 2"

Version	: straight or angled
Capacity	: 0.1 - 34.0 m ³ /h
Working press.	: 0,7 - 10 bar
Temperature	: 60°C (with decreasing max. pressure)
Material	: reinforced nylon (housing) : EPDM (diaphragm)

AC control

Voltage	: 18 - 28 VAC (50-60 Hz)
Inrush	: 90 mA
Holding	: 75 mA
Cable length	: 120 cm

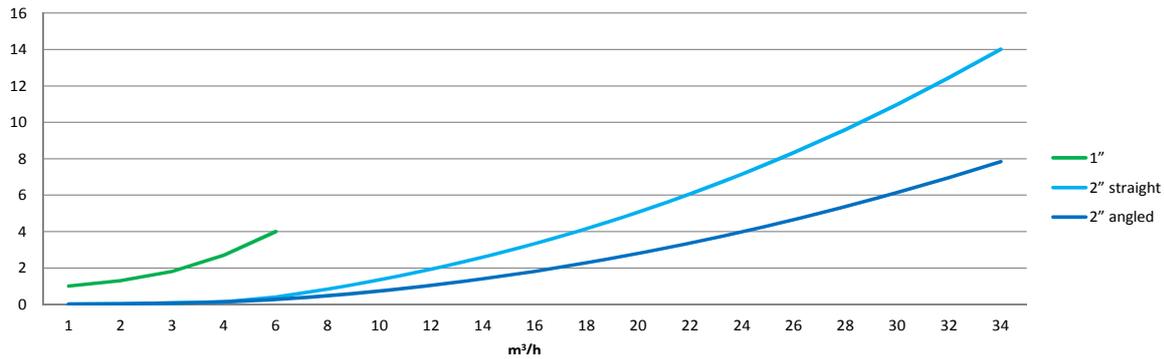
DC control

Voltage	: 12 - 40 VDC (latch)
Pulse length	: 80 - 500 msec

Required capacitor for the controller with DC latch control

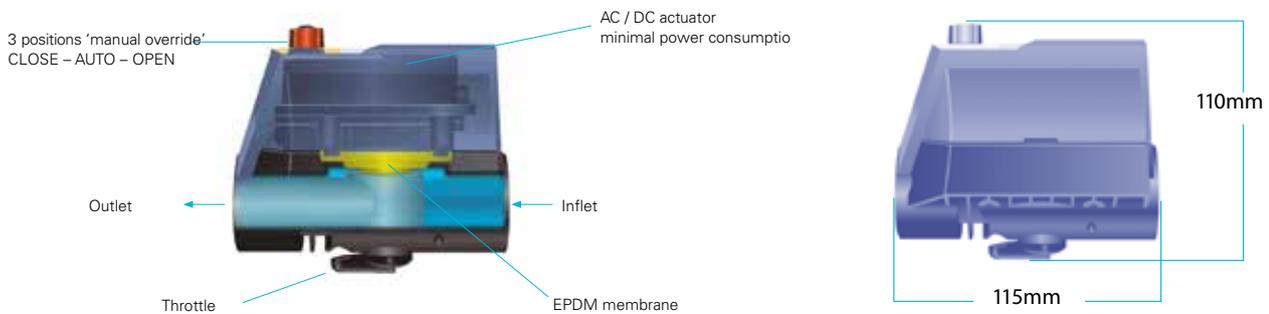
Voltage (VDC)	Capacitor (µF)
12-18	4700
18 - 28	3300
28 - 40	2200

HEAD LOSS



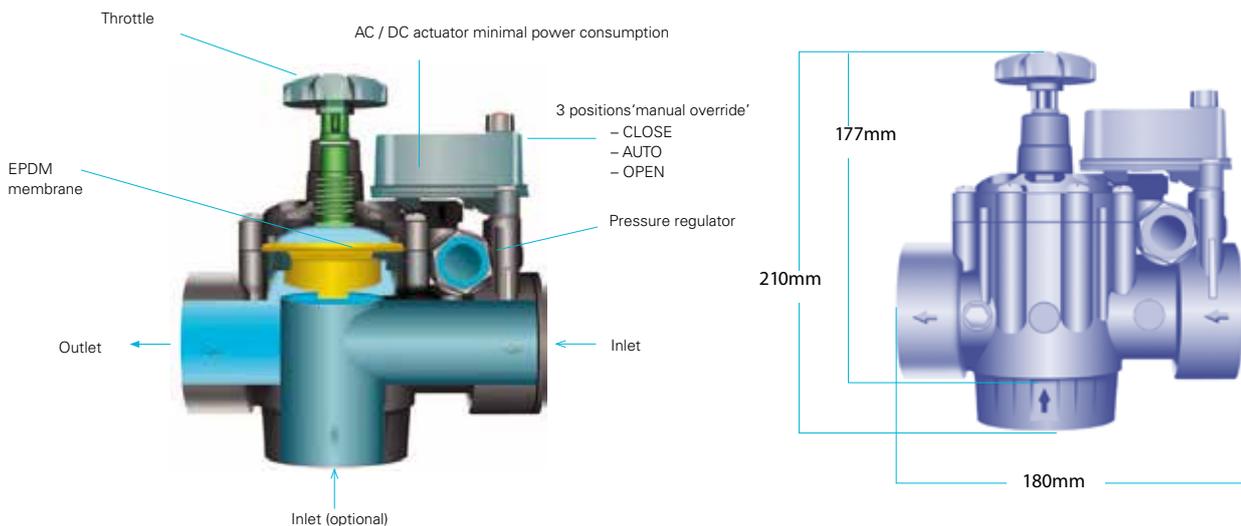
TECHNICAL DRAWINGS

Model 1"



Model 2"

MODEL



INSTALLATION & MAINTENANCE

- ✔ The wire colours for the connection are as follows:
DC red + black (common)
AC black/black
- ✔ Reversing the polarity on DC valves will reverse the NC/NO function. Installing the valve in opposite flow direction will also reverse the NC/NO function.
- ✔ The AquaNet Plus DC can be used with most controllers with latch control for both 2-wire and 3-wire versions.
- ✔ The AquaNet Plus DC can only be controlled by a latch controller, not with DC voltage.