Alpine Flow Control UK Limited

PMV-III PRESSURE MANAGEMENT VALVE

ONE STOP FOR PRESSURE- FLOW- CONTROL

Intelligen
t
Controller
With
valve

Working 24 x 7

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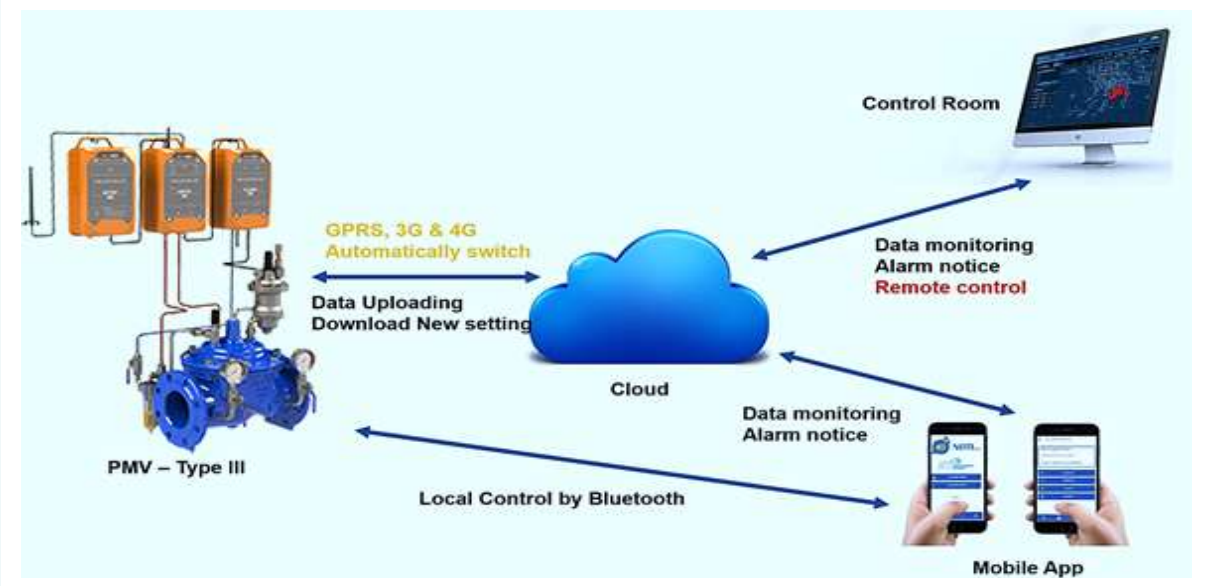

PMV Type III

PMV Type III Is an Intelligent Pressure Management Valve with A Controller That Can Provide A Wide Range of Control Applications. This comes with Pre-Configurable Hydraulic Control Functions or Customizable at Site options. It Can Be Operated by Either Mobile APP Through Bluetooth Locally or through Web based protocol. It is a user-friendly combination of Valve with Controller. The PMV-III can do multi logic functions like:

- Pressure modulations based on the peak factor and non-peak factors (Pressure v/s. Time)
- Flow rate modulations based on the demand.
- Alert for a pipe burst/leak or Needs of Fire Fighting
- On-Off Control
- Level Control
- Pressure Sustaining

FEATURES

- Ω To Minimise Leakages and Reduce the Frequency of Pipe Bursts
- Ω Multi Point Pressure and Flow Control.
- Ω Precise Modulation of The Pressure with Most Suitable Settings as Per the Demand Factor
- Ω Battery Operated - Maximum 5 Years
- Ω Special Designed Pilot for A Precise Control.
- Ω IP68 - Water Resistance
- Ω Complies With BS EN 1074-5, ISO 5208, BS EN12266-1, BS EN558-1
- Ω Data Transmission Through GPRS, 3G, 4G
- Ω With Cloud Control, APP as An Intelligent and User Friendly
- Ω Technical Data:
- Ω Size Range: DN 50 to DN 800 mm
- Ω Pressure Ratings: 1.0Mpa; 1.6Mpa; 2.5Mpa (PN 10, 16, 25)
- Ω Working Temperature: -10 Deg. C- 80 Deg. C.
- Ω Media: Potable Water
- Ω End connection: PN 10 / PN 16 / PN 25

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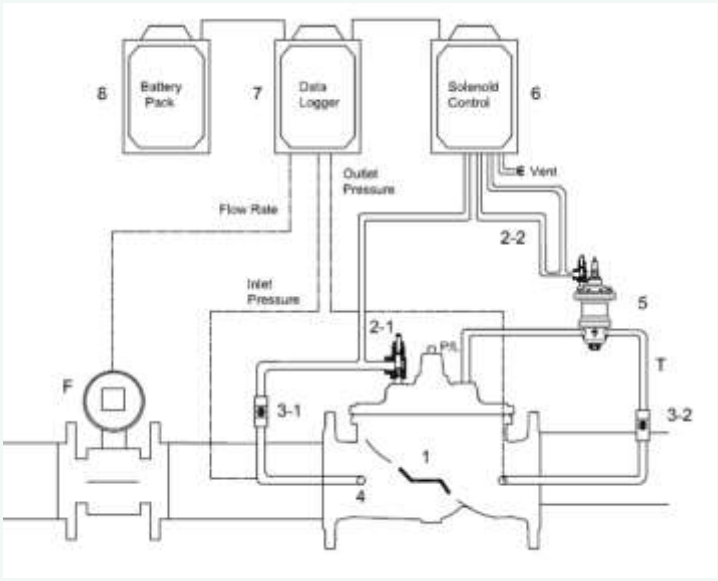
Controller Specification		
Input/Output	Pulse input	Input pulse for flow meter reading
	Analog input	Build in pressure sensor，0-10 bar or 0-16 bar，Accuracy ±0.5%
		2 extra analog 4-20mA input for water level sensor or flow meter. (Customized)
	Output	2 integrated solenoid valves
		2 of latch solenid valves(extra device, not integrated)
Logging	Data Logger	Record 200,000 data（looping record）
	Sampleing rate	5–1440 mins based on request
	Alarm	Min / Max - flow / pressure setting
	Clock	Build in RTC
Communication	Communication	4G/3G/GSM/GPRS/EDGE/WCDMA/TD-SCDMA/LTE-FDD/LTE-TDD
	Bluetooth	Using mobile APP to connect to device for inquiry and change setting
Physical	Case	Aluminum
	Working Temperature	-15 ~ 55℃
	Water Proof	IP68
	Electricity	Lithium battery - 5 years under specific working condition



NO.	Part Name	Material
1	Main Valve	GJS 500-7
2	Needle Valve	SUS304
3	Ball Valve	SUS304
4	Strainer	SUS304
5	Hydraulic Control Pilot	SUS304
6	Solenoid Control	Commercial
7	Data Logger	Commercial
8	Battery Pack	Commercial
T	Tube	SUS304

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Connectivity Indicators

1. LTE antenna with magnet, installed to the ANT. LTE on PMCX.
2. Bluetooth antenna, installed to the ANT. BT on PMCX.
3. 2-core connecting wire, connecting the BAT.BOX1 on PMCX and battery pack CTL. BOX.
4. 8-core connecting wire, connecting the SV.BOX on PMCX and CTL.BOX on PMAX.
5. The red hose with quick coupling is connected to the inlet P. of the PMCX and the plug in of the valve inlet.
6. The green hose with quick coupling is connected to the outlet P. of the PMCX and plug in of the valve outlet.
7. Red hose, connecting sv1 inlet of PMAX and plug in of the valve inlet.
8. Blue hose, connecting sv1 outlet of PMAX and pilot valve (with blue mark).
9. White hose connecting SV2 inlet of PMAX and pilot valve.
10. Black hose is installed to SV2 outlet of PMAX; (other color hose can be used for water outlet).

Power Options

Lithium Battery

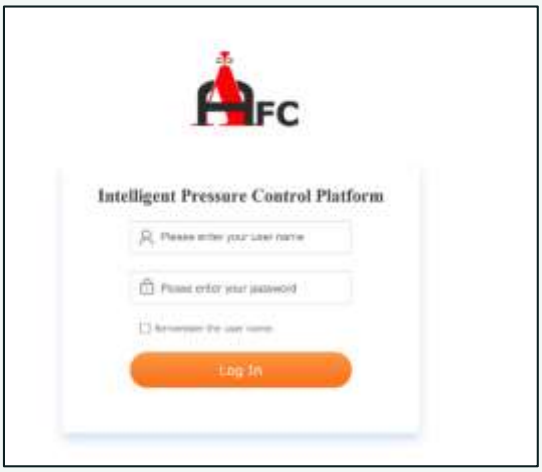
1. Easy Installation.
2. 12 hrs. uploading data can last 5 years life.

Solar Panel

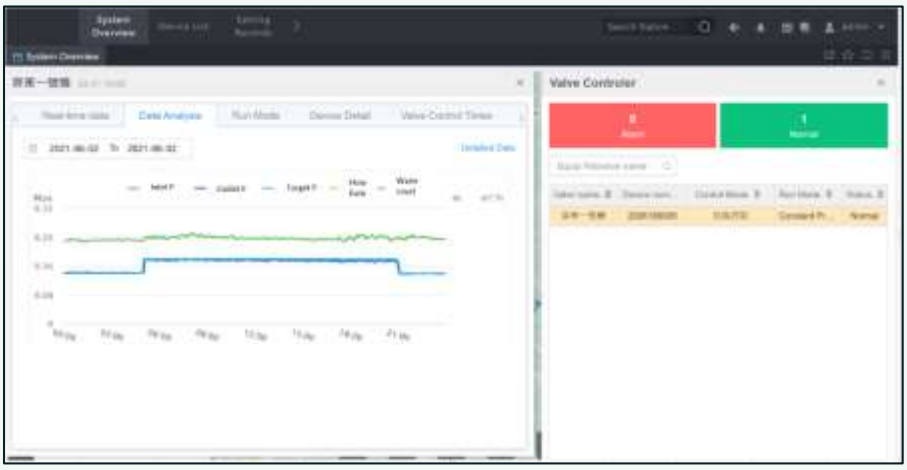
1. Need 12V input
2. No limit for data uploading period

Hydraulic Power Generator

1. Easy Installation
2. Start to generate enough power when delta >= 0.5 bar
3. No limit for data uploading period

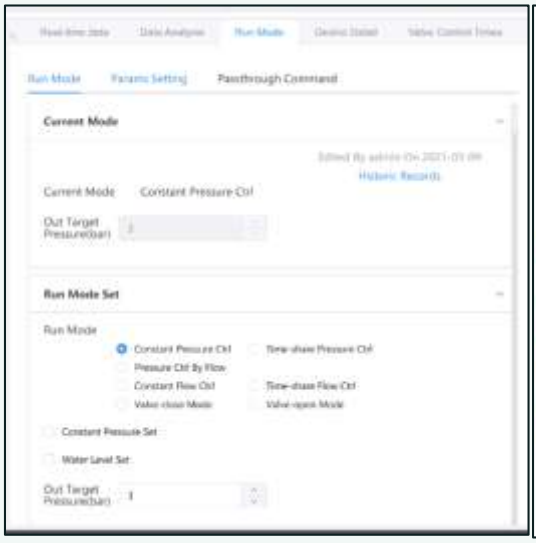


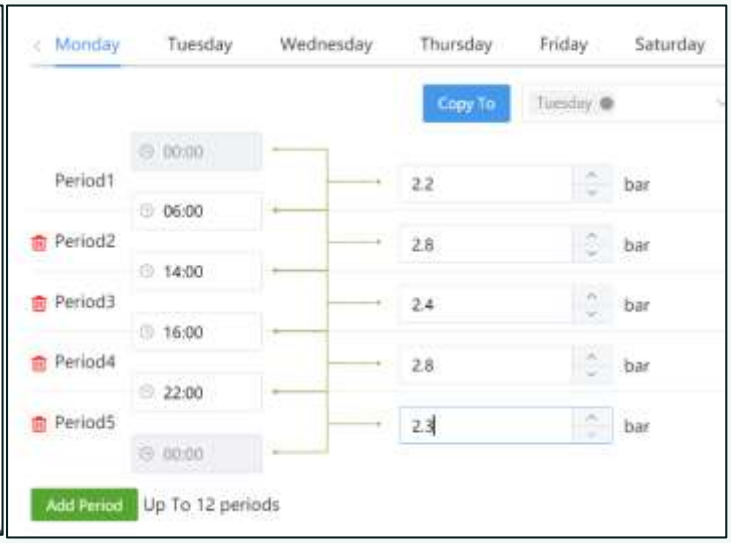
Login Interface
Easy to Login by Using Mobile Phone Or PC



Device History Data
Export to Excel Format Easy to Check the Target and Real Data to Understand How the Device Works.

USER FRIENDLY INTERPHASE





Control Modes

- Pressure Control
- Flow Control
- On/Off
- Level Control

Settings

- Time VS P
- Flow VS P
- Time VS Flow
- Additional Integrations

The Ultimate Valve that uses hydraulic energy to generate electricity. The Valve generates enough power when delta-P > 0.5 bar. Another advantage is -No limit for data uploading. Ask us more for PMV-III (Hydro).