

Qualifications Checklist

ACV Assure™

The ACV Assure Service is focused on water pressure and flow remote monitoring for water asset management on major components of most water systems; Source, Treatment, Storage, Distribution, Transmission and Pumping facilities.

WATTS offers Cellular Monitoring Solutions for Rural, Local and Municipal Water Authorities to manage water assets at an affordable cost and a 60-month monitoring service for Operation and Compliance to meet the EPA and Health Department Mandates.

Cellular Gateway



Input 1 & 2 Messages

High Pressure or Flow

Low Pressure or Flow

1. Location: _____ Date: _____

2. Managed Water Asset Description: _____

3. Water Authority Name and Address: _____

4. Installation Description:
 Above Ground Below Ground

5. ACV Size and Function or Water Asset to be Monitored:
 WATTS/AMES ACV to be Installed
 Solenoid Valve Existing To be installed Other:
 Description: _____

6. Water Monitoring Description:
 \$ Pressure - 0-145 psi (2 Setpoints) \$\$ Flow Velocity ft/s – See Table (1 setpoint) \$\$\$ Water Loss (-Leaks)
 Monitoring Setpoint Value(s) and Location:
 Pressure Sensor Field Installation: ¼" NPT can be installed in the Inlet or Outlet ACV port or in a water pipe tap.
 Flow Sensor Field Installation: ½" NPT can be installed in the Inlet ACV port or in a ½" NPT water pipe tap located 5 pipe diameters upstream or downstream of bends, tees or flow impediments. The tip of the Sensor Probe must be installed 25% to 50% pass the Pipe ID wall.

Approximate Switching Range at Various Pipe Diameters

PIPE SIZE	TYPICAL RANGE		NPT BUSHING REQUIRED
	GPM @ MIN. FT/S	GPM @ MAX. FT/S	
4	1.5	200	YES
6	3.0	500	YES
8	5.5	800	YES
10	8.5	1300	YES
12	12	1800	YES
16	19	2800	YES
20	30	4500	YES

7. Normal Inlet (upstream) Water Pressure (psi) to the ACV or Pipe Tap: Static Dynamic
8. Normal Outlet (downstream) Water Pressure (psi) to the ACV or Pipe Tap: Static Dynamic
9. Normal Inlet (upstream) Water Flow to the ACV Inlet Port or Pipe Tap GPM Pipe Size _____
10. Power: Electric to ACV Assure Alert Kit uses ½" Non-Metallic Liquid tight Conduit for 120VAC
 120VAC / grounded receptacle required within 5 ft of equipment location
 Optional Cost Adder: 24VDC = (2) 12VDC Rechargeable Batteries wired in Series with (2) 12VDC Solar Trickle Chargers in a 12L"x 12W"x 36"H above ground lockable enclosure.

11. Site Construction and Fabrication: Yes No If Yes, Describe: _____

- Can you build off existing structures? Yes No (Describe): _____

12. Sign and Email back to the WATTS ACV Team

Authorized Name _____

Local Rep. Name _____

