IOM ULTRAF 0G

Ultrasonic Hydrometer with Hydraulic Command w/Galit

2”-8” (10 bar)

RAPHAEL VALVES INDUSTRIES

Sep-24

DESCRIPTION

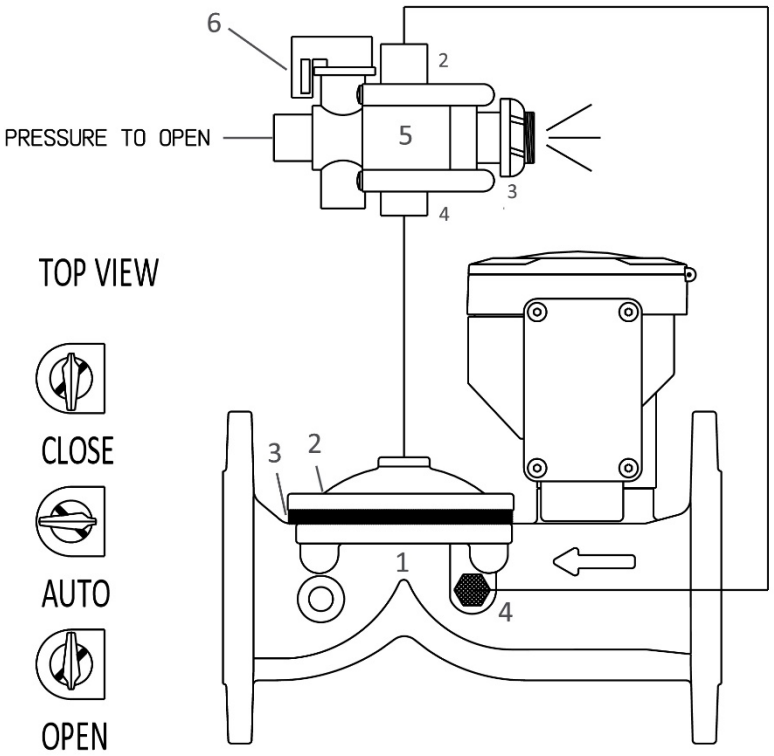
This Ultrasonic Hydrometer ULTRAF-0G, is a **NC** (normally closed) hydraulic on/off valve that can be operated by a hydraulic remote command. “Normally” means the state of the valve when the hydraulic relay is not pressurized.

INSTALLATION

- Before installing the Ultraf, flush the pipeline to remove scale, dirt and other particles that might affect the valve’s performance.
- Install the Ultraf as indicated by the arrow on the valve’s body, showing flow direction.
- It is recommended to install isolation valves upstream and downstream the control valve.
- Turn the manual override 6 to the “Close” position and turn on the water supply to the Ultraf.
- Check for leaks; tighten bolts & fittings if necessary.

PARTS LIST

1. Body
2. Cover
3. Diaphragm
4. Self-Flushing “Finger” Filter
5. Hydraulic Relay “Galit”
6. Manual Override



OPERATING INSTRUCTIONS

1. **<u>To manually open</u> the Ultraf completely, turn the manual override to the "Open" position**.
2. **<u>To manually close</u> the Ultraf, turn the manual override to the "Close" position.**
3. **<u>To open the Ultraf by remote command</u>, turn manual override 6 to the "Auto" position then pressurize hydraulic relay**.
4. **<u>To remotely close the Ultraf</u>, de-pressurize the hydraulic relay.**

MAINTENANCE

- No maintenance is required. It is recommended that the valve be easily accessible as well as clearly marked to prevent damage.
- In freezing climates, the valve should be dismantled, and water drained during the winter months

TROUBLSHOOTING ULTRAF-00 N.C.

PROBLEM	CAUSE	CHECK	SOLUTION
The Ultraf does not open.	1. The manual override 6 is in the "Close" position.	1. Check state of override.	1. Turn the override selector to "Open" or "Auto" position.
	2. The hydraulic relay 5 is not pressurized.	2. Check control tubing at pressure port.	2. Repair control tubing. Pressurize hydraulic relay 5.
	3. Hydraulic relay 5 and connections are clogged.	3. When activated, there is no water from the hydraulic relay's drain (3).	3. Turn off water supply to the valve. Dismantle and clean drain connections in the valve and in the hydraulic relay. Reassemble and activate.
The Ultraf does not close.	1. The hydraulic relay 5 is still pressurized.	1. Disconnect control tube from hydraulic relay pressure command.	1. De-pressurize hydraulic relay 5
	2. The manual override 6 is in the "Open" position.	2. Check state of the override.	2. Turn selector to "Auto" or "Close" position.
	3. Foreign object on sealing seat 3.	3. Some water is still flowing downstream of the valve.	3. Turn off water supply to the valve. Disassemble the cover 2 and the diaphragm 3 then remove the foreign object. Check that diaphragm, body and cover are not damaged. Reassemble and activate.
	4. Blocked self-flushing filter 4.		4. Turn off water supply to the valve. Remove the filter and clean or change it. Reassemble and activate.