IOM ULTRAF 01

Ultrasonic Hydrometer Manual Control
On/Off with Pulse 1.5”-8”

RAPHAEL VALVES INDUSTRIES

Sep-24

DESCRIPTION

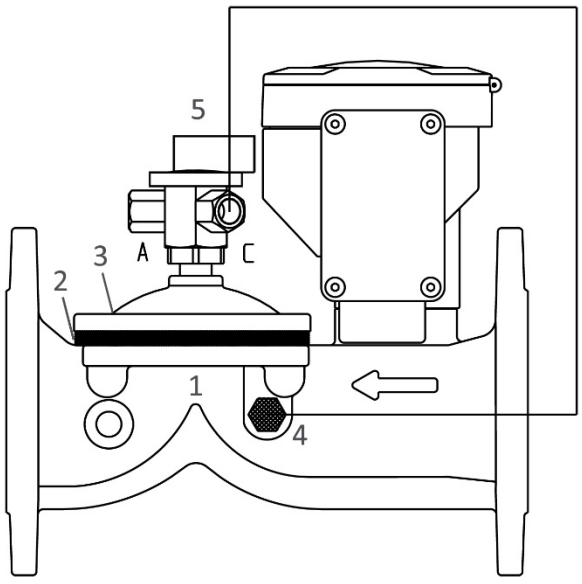
This Ultrasonic Hydrometer is a NC (Normally Closed) on/off valve that can be operated manually by means of the 3-way selector 5.

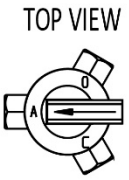
INSTALLATION

- 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 3-way selector 5 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. Three-Way Selector





OPERATING INSTRUCTIONS

1. To open the Ultraf, turn the 3-way selector to the “Auto” or “Open” position.
2. To close the Ultraf, turn the 3-way selector to the “Close” position.

MAINTENANCE

- No maintenance is required. However, from time to time it is recommended to rotate the 3-way selector 360º to prevent sticking by sediments.
- It is recommended that the Ultraf 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-01

PROBLEM	CAUSE	CHECK	SOLUTION
The ULTRAF does not open.	1. The 3-Way selector 5 is in the 'Close' position.	1. Check state of selector.	1. Turn selector to the 'Open' or 'Auto' position.
	2. The 3-Way selector 5 is clogged or damaged.	2. No water is drained through the 3-Way selector 5.	2. Turn off water supply to the Ultraf. Dismantle the 3-Way selector and clean connections and drains. Replace if damaged.
The ULTRAF does not close.	1. The 3-Way selector 5 is in 'Auto' or 'Open' position.	1. Check state of selector.	1. Turn selector to the 'Close' position.
	2. Foreign object on sealing seat.	2. Some water is still flowing through the valve.	2. & 3. Turn off water supply to the valve. Disassemble the cover and the diaphragm and remove the foreign object. Check diaphragm, body and cover for damage. Replace if needed. Reassemble and activate.
	3. Damaged diaphragm.	3. Water is constantly flowing through the 3-way selector (5) when in 'open' or 'close' position.	
	4. Clogged self-flushing filter 4 or hydraulic control connections.		4. Turn off water supply to the valve. Disassemble the filter and the hydraulic connections. Clean or replace if needed. Reassemble and activate.