

# RAF GENERAL PURPOSE HYDRAULIC VALVES

## RAF 10 Float Level Control Valve

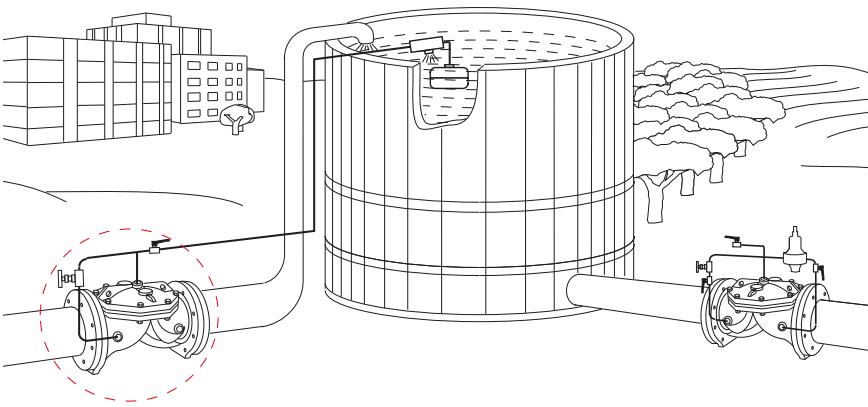
### Description

**RAF 10** is used to maintain a preset water level in a reservoir or a water tank in a simple, economic manner. The RAF valve is activated by the line pressure.

The RAF10 stays open as long as the water level in the reservoir is below the preset level. As the water level rises and lifts the float, the valve gradually closes.



### Typical Application



RAF 10 Float Level Control Valve controls the water level of a water tank. The valve can also be located above the water level.

Use RAF 10 for reservoirs and water tanks level control in any situation that maximum water level should be maintained. No need for energy other than line pressure. RAF 10 is best fit in remote sites. Due to its simple design, it is virtually maintenance free.

### Recommended Flow

Nominal Diameter		Flow Rate m <sup>3</sup> /h	
m m	Inch	Min.	Max.
40	1.5	3	25
50	2	5	45
65	2.5	5	70
80-50-80	3-2-3	5	50
80-65-80	3-2.5-3	5	70
80	3	5	90
100-80-100	4-3-4	5	90
100	4	10	150
125-100-125	5-4-5	10	150
150-100-150	6-4-6	10	150
150	6	15	320
200	8	40	550
250	10	80	950
300	12	100	1200

## RAF 10 control mode

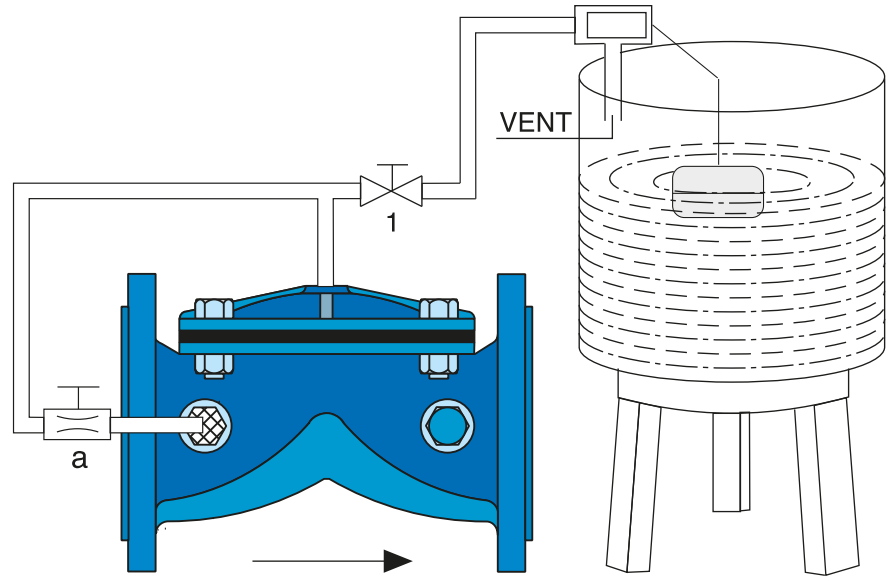
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is activated by line pressure and controlled by a two-way float pilot. The pilot vent is opened or closed according to the float level. The float is located inside the reservoir as shown. The vertical water level changes are amplified by a lever and conveyed to the float. The float valve will close when water level reaches its preset.

### Automatic Operation:

When the water level is low, the lever drops due to the float weight. The vent is open. The control chamber of the RAF is drained through the vent. The diaphragm of the RAF is forced upward by the line pressure. The RAF opens and reservoir is being filled.

As the float lever moves upward, due to the rising water level inside the water tank, the vent closes mechanically. The RAF is then closed by the line pressure, forcing its diaphragm downwards.



RAF 10 - Float Level Control Valve

### Adjustment

Adjust the needle valve a to allow a sufficiently short closure time. Preset the pilot to the reservoir's desired maximum water level.

### Please Specify:

- Maximum Operating Pressure (Closed valve)
- Minimum & Maximum Flow rates.
- Maximum water level

### Standard RAF 10:

### Special Features:

Basic RAF valve Rilsan coated	Enamel coating
Self-cleaning screen filter	Large capacity external filter
Brass Pilot P-10	Stainless Steel Pilot P-10T
Brass Float arm	Stainless Steel Float arm
Stainless Steel float	
Cock valve	
Needle valve	
Reinforced plastic tubing	Copper or stainless steel tubing