RAF SERIES - PN10

RAF 6R-31

Electric Pressure Reducing Control Valve
3-W Plastic Pilot

The RAF 6R-31 is an electric On/Off valve, controlled by a 3-W plastic solenoid valve (N.O.).

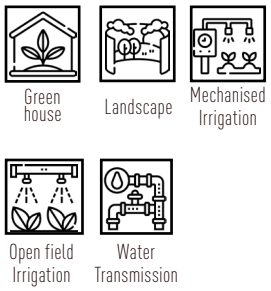
When the solenoid is energized the valve opens and acts as a pressure reducing valve, maintaining the preset pressure constant, regardless of the flow-rate or upstream pressure fluctuations.

The 3-W plastic pilot has a spring loaded membrane that can be preset to a desirable downstream pressure.

Maximal Nominal Pressure: 10 bar

Setting Range: 0.6 to 6 bar

MARKETS



TECHNICAL DATA

Fluid: raw water or filtered water

Nominal Diameter (DN): from 25 to 150 mm (1" to 6D")

Available connections: Flanged, Threaded or Grooved

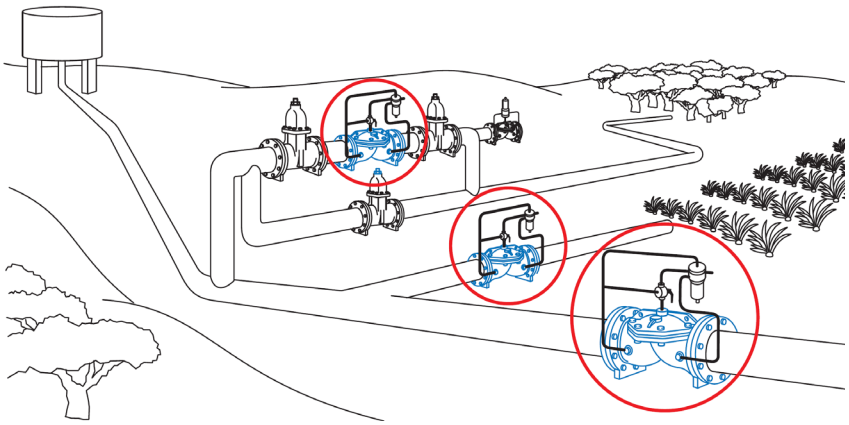
Nominal Pressure (PN): 10 bar

Medium Temperature: up to 70 °C

Body material: Ductile Iron

Standard Controls: Raphael's 3-W plastic pilot, polyethylene plastic tubing and plastic fittings.

Pilot circuit protected by a self-flushing finger filter, installed in the water inlet of the valve: maintenance free.



TYPICAL APPLICATIONS

- Irrigation
- Water distribution
- Field control

When downstream pressure should be reduced the valve is commanded to open.

ADJUSTMENTS

Downstream pressure adjustment up to 6 bars.

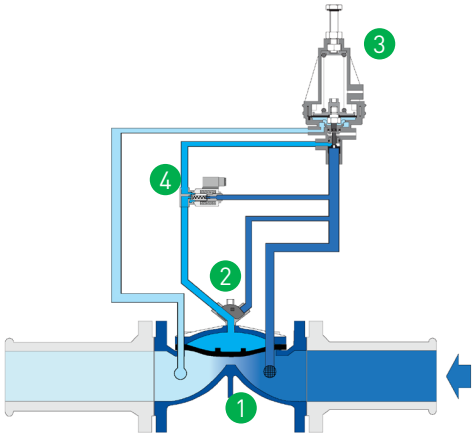
For pressure setting by pilot screw adjustment, refer to available springs list.

FEATURES

- RAF valve two-layered Epoxy-polyester coated
- Self-cleaning screen filter
- 3-W plastic pilot PMR
- 3-W (N.O) plastic solenoid
- 3-W selecting cock valve
- Polyethylene plastic tubing
- Pressure check point
- Power source 24 VAC 50/60Hz

OPTIONAL FEATURES:

- Rilsan coating
- Large capacity external filter
- Glycerin filled pressure gauge
- Power source - 110/220 VAC & 9/12/24 VDC



RAF-6R-31 3-W Pressure Reducing Control Valve (N.C.)

Ref	Name
1	Self-cleaning screen filter
2	3-W selecting cock valve
3	3-W plastic pilot PMR
4	3-W (N.O) plastic solenoid

Nominal Diameter		Recommended Flow Rate			
		[m³/h]		[gpm]	
mm	inch	Min.	Max.	Min.	Max.
25	1	1	22	4	97
40	1.5	1	25	4	110
50	2	3	41	13	180
65	2.5	4	70	18	308
80-65-80	3D	4	70	18	308
80	3	7	95	31	418
100-80-100	4D	7	95	31	418
100	4	15	177	66	779
125-100-125	5	15	177	66	779
150-100-150	6D	15	177	66	779

Nominal diameter only, For full dimensions please refer to engineering department.

SPRING SELECTION

Setting range [Bar]	Color of spring
1-6 (standard)	Green
0,6-2,7	Red