

RAF SERIES - PN16

RAF 682

Pressure Reducing & Sustaining Control Valve

2-W Metal Mini Pilot

The RAF 682 pressure reducing & sustaining valve is line pressure hydraulically actuated, 2-W mini pilot.

The RAF 682 maintains a minimum upstream pressure, as set on the 2-W pressure sustaining mini pilot and a maximum downstream as set on the 2-W pressure reducing pilot, regardless of flow changes.

The 2-W pilot configuration together with Raphael's patented diaphragm enable smooth and precise pressure control.

Maximal Nominal Pressure: 16 bar

Setting Range: 0.5 to 6 bar



MARKETS



Green house



Landscape



Mechanised Irrigation



Open field Irrigation



Water Transmission

TECHNICAL DATA

Fluid: Fluid: raw water or filtered water

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

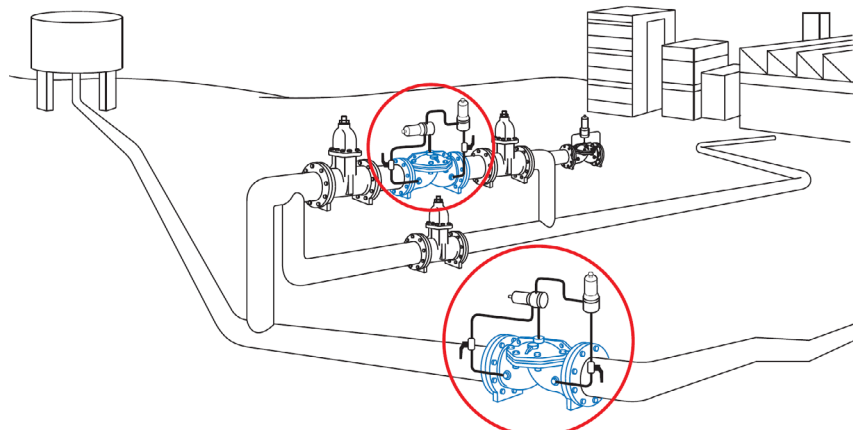
Available connections: Flanged, Threaded or Grooved

Nominal Pressure (PN): 16 bar

Medium Temperature: up to 70 °C

Body material: Ductile Iron

Standard Controls: RAF 682 pressure reducing & sustaining valve controls with Raphael's 2-W P-182 and P-162 brass pilots, with built-in needle valve, reinforced plastic tubing and brass fittings.



TYPICAL APPLICATIONS

- Water supply systems with medium pressure rating.
- Use the valve to define two pressure zones along a supply line.
- Irrigation water distribution and field control.

ADJUSTMENTS

Minimum upstream and maximum downstream pressure adjustment up to 16 bars.

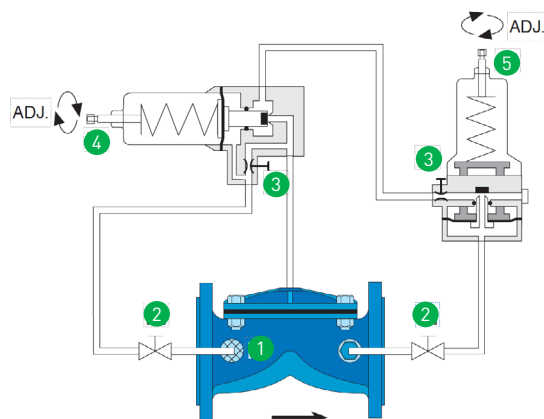
For pressure setting by pilot screw adjustment, please refer to available springs list.

FEATURES

- RAF valve two-layered Epoxy-polyester coated
- Self-cleaning screen filter
- 2-W pilot P-182
- 2-W pilot P-162
- Reinforced plastic tubing
- Glycerin filled pressure gauge

OPTIONAL FEATURES:

- Rilsan coating
- Large capacity external filter
- Stainless steel pilot with built-in needle valve
- Copper and stainless steel tubing
- Pressure check point



RAF-682 2-W Pressure Reducing & Sustaining Control Valve

Ref	Name
1	Self-cleaning screen filter
2	Cock valve
3	Built-in needle valve
4	2-W pilot P-182
5	2-W pilot P-162

Nominal Diameter		Recommended Flow Rate			
		[m ³ /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

SPRING SELECTION

Pilot P-182

Setting range [Bar]	Color of spring
2-12 (standard)	Green
0.5-8	Red
3-16	Yellow

Pilot P-162

Setting range [Bar]	Color of spring
2-12 (standard)	Green
0.5-8	Red

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