

RAF SERIES - PN16

RAF 63B

Pressure Reducing Control Valve

3-W Metal Pilot

The RAF 63B 3-W pressure reducing valve is line pressure hydraulically actuated, 3-W pilot. The RAF 63B maintains a constant downstream pressure, regardless of flow, or upstream pressure changes. The 3-W pilot configuration together with Raphael's patented diaphragm enable smooth and precise downstream pressure control.

Maximal Nominal Pressure: 16 bar

Setting Range: 0.5 to 16 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 400 mm (1" to 16")

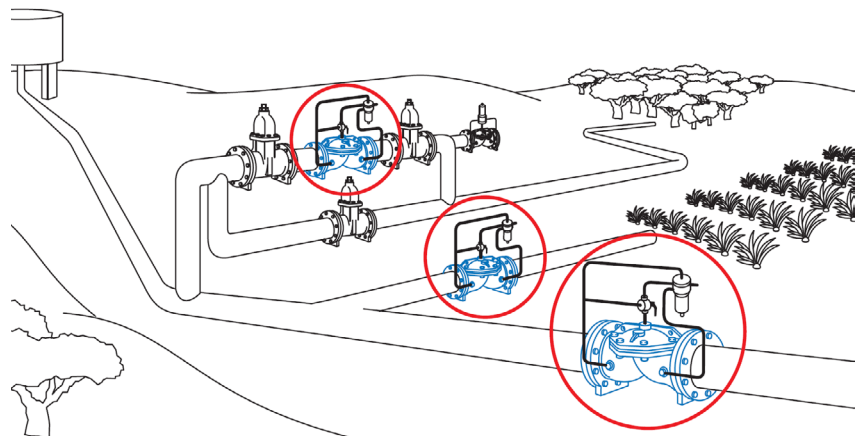
Available connections: Flanged, Threaded or Grooved

Nominal Pressure (PN): 16 bar

Medium Temperature: up to 70 °C

Body material: Ductile Iron

Standard Controls: RAF 63B pressure reducing valve controls with Raphael's 3-W brass pilot reinforced plastic tubing and brass fittings.



TYPICAL APPLICATIONS

- Water supply systems with medium pressure rating.
- Irrigation water distribution water treatment circulation and filtration network.
- The 3-W plastic pilot has a simple design that provides high corrosion resistance and cost effective prices.

ADJUSTMENTS

Downstream pressure adjustment up to 16 bars.

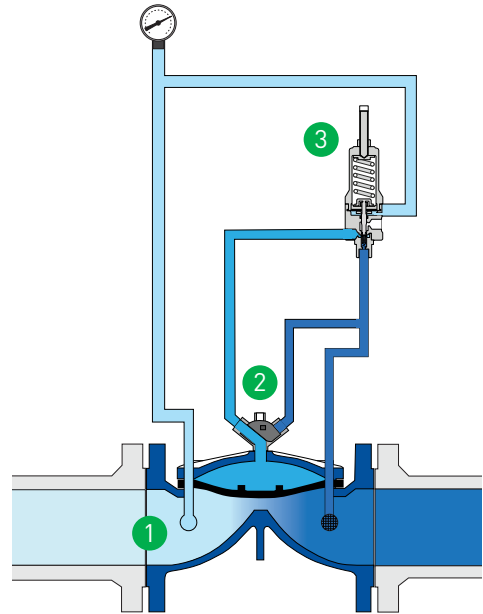
For pressure setting by pilot screw adjustment, please refer to available springs list.

FEATURES

- RAF valve two-layered Epoxy-polyester coated
- Self-cleaning screen filter
- 3-W pilot P-683
- 3-W Selecting cock valve
- Reinforced plastic tubing
- Glycerin filled pressure gauge
- Power source - 24V (AC) 50/60 Hz

OPTIONAL FEATURES:

- Rilsan coating
- Large capacity external filter
- Stainless steel pilot
- Copper and stainless steel tubing
- Pressure check point



RAF-63B 3-W Pressure Reducing Control Valve

Ref	Name
1	Self-cleaning screen filter
2	3-W valve
3	3-W pilot P-683

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
150	6	15	240	66	1056
200	8	40	430	176	1893
250	10	80	822	352	3618
300	12	100	822	440	3618
350-300-350	14D	100	822	440	3618
350	14	200	1170	880	5150
400	16	200	1233	880	5428

SPRING SELECTION

Pilot P-683

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

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