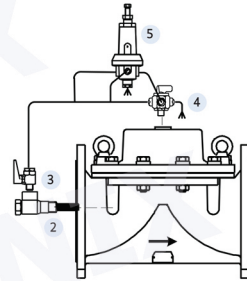


PRESSURE REDUCING VALVE

Model : RD-187



Description

The valve maintains a preset downstream pressure, regardless of upstream pressure or flow rate fluctuation. The main valve is controlled by either a 3 way pilot valve (allowing full opening when upstream pressure drops below the pressure set point) or by a 2 way pilot valve (creating a minimal differential in open position)

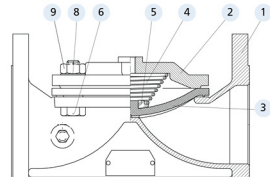
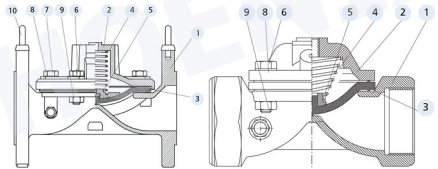
Optional Control System Components:

- 1 Main Valve
- 2 Self-flushing filter
- 3 Cock valve*
- 4 Manual over-ride selector valve*
- 5 3-way pilot valve (other types are optional)

* Optional component

Purchase Specification

The valve will be hydraulic, direct acting diaphragm type, which allows inline maintenance. No stem, shaft or guide bearing will be located within the water passage. The valve will be activated by the line pressure or by an external hydraulic or pneumatic pressure. The valve will be operated by a pressure reducing pilot valve to achieve constant outlet pressure, regardless of upstream pressure or flow variations. The valve and the controls will be a Phoenix valve or similar in all aspects.



Quick Sizing

- Valve size same as line or one size smaller
- Maximum flow speed for continuous operation 5.5 m/ sec. (18ft/sec.)

Features

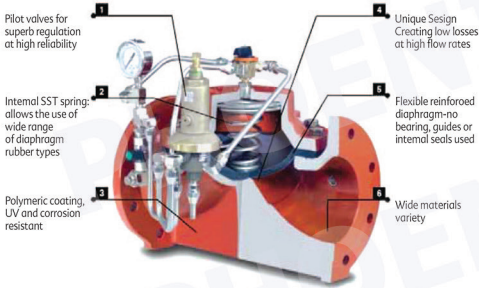
- Accurate, stable control from no-flow to full flow
- Simple and reliable design
- Exceptionally low losses at high flow
- WRAS Approval no. 04251

Design Considerations

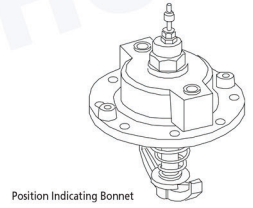
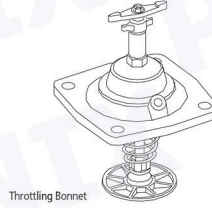
- The valve should be suited for the maximal flow and allowed headloss
- In case upstream pressure may drop to the required set pressure select 3 way control pilot
- Large pressure differentials may cause cavitation damage. Consult Phoenix for solutions if such conditions are expected

Components

Component No.	Description
1	Body
2	Bonnet
3	Diaphragm
4	Spring
5	Spring Disc
6	Bolt
7	Short Bolt
8	Washer
9	Nut
10	Suspension ring (Hook)



Non Stand Bonnets



Design Specifications :

Materials	Standard	Optional *	Connections	Standard	Optional *
Body and Bonnet	Cast Iron, Ductile Iron, Bronze	Cast Steel, Stainless Steel	Flanges	ISO 2084, 2441, 5752	ANSI B16 JIS B22 AS 10
Diaphragm	Natural Rubber	NBR, EPDM, Neoprene			
Spring	SST 302	SST 316			
Nuts And Bolts	Coated Steel	SST	Threads	F-BSP	F-NPT
Coating	Polyester	Epoxy, Nylon, Rubber	Control Bores	1/8", 1/4", 1/2" NPT	

* Others Upon Request

Available Models :

Pattern												
Connection	Threaded	Threaded	Victaulic®	Flanged	Flanged	Flanged	Flanged	Threaded	Victaulic®	Threaded	Flanged	Threaded
Material	Cast Iron	Bronze	Cast Iron	Cast Iron	Bronze	Ductile Iron	Cast Iron	Cast Iron	Cast Iron	Bronze	Ductile Iron	Ductile Iron
Max. Pressure	16bar / 230psi										25bar / 360psi	
Available Sizes	mm											
	inch											
	20	3/4"	•									
	25	1"	•									
	40	1 1/2"	•	•					•		•	
	50	2"	•	•	•	•	•		•		•	•
	65	2 1/2"	•	•								
	80	3 2/3"	•	•					•		•	
	80	3"	•	•	•	•	•	•	•	•		•
	100	4"			•	•	•	•		•		•
	150	6"		•	•	•	•	•				•
	200	8 6/8"			•	•	•	•				•
	200	8"			•	•	•	•				•
	250	10"			•	•	•	•				•
	300	12"			•	•	•	•				•
	350	14"				•	•	•				•
400	16"					•	•				•	
450	18"					•	•				•	
500	20"					•	•				•	
600	24"					•	•				•	