

Technical Data

Accessories >

> Pre-Calibrated Pressure Regulators








DESCRIPTION:

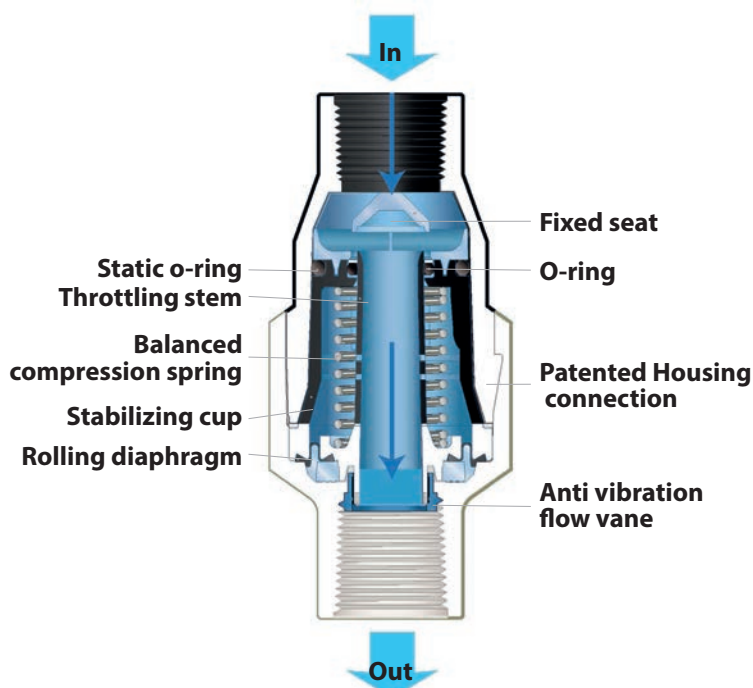
Application

- Suitable for drip irrigation systems and sprinkling systems

Features

- Low weight losses (0,34 bar)
- PRLV and PRXFLV models allow to keep 1,03 bar pressure downstream in static conditions as well (no flow)

Code	Mod.	In/out couplings	Flow-rate l/h		Precalibrated bar	
			Min	Max		
FRP231	PRLG	¾" F	114	1.590	1,03	
FRP234	PRLG	¾" F	114	1.590	2,07	
FRP236	PRLG	¾" F	114	1.590	2,76	
FRP249	PSR-2	¾" F	114	3.407	1,03	
FRP252	PSR-2	¾" F	114	3.407	2,07	
FRP255	PSR-2	¾" F	114	3.407	3,45	
FRP259	PMR MF	¾" F	454	4.543	1,03	
FRP262	PMR MF	¾" F	454	4.543	2,07	
FRP265	PMR MF	¾" F	454	4.543	3,45	
FRP270	PMR MF	1" F	454	4.543	1,03	
FRP273	PMR MF	1" F	454	4.543	2,07	
FRP276	PMR MF	1" F	454	4.543	3,45	
FRP286	PR HF	1¼" F	2.271	7.268	1,03	
FRP289	PR HF	1¼" F	2.271	7.268	2,07	
FRP291	PR HF	1¼" F	2.271	7.268	3,45	
FRP293	PRU	2" F	4.543	22.713	1,03	
FRP296	PRU	2" F	4.543	22.713	2,07	
FRP298	PRU	2" F	4.543	22.713	3,45	



HOW IT WORKS

An inline pressure regulator contains a hollow cylindrical housing with a centrally-mounted fixed seat near the inlet. Inside there is a movable tubular stem (throttling stem or T-stem) surrounded by a spring with a diaphragm attached near the downstream end. The diaphragm and O-rings isolate the spring to keep it dry. The water flows through the inlet, around the seat and through the T-stem. The pressure of the water acting on the diaphragm forces the compression of the spring, pushing the T-stem towards the seat. The closing of the area between the seat and the T-stem reduces the pressure of the water on the diaphragm. The balance between the force on the diaphragm and the resistance of the spring establishes the outlet pressure. Senninger uses springs with different compression loads to deliver various pressures of the water from 0,41 to 4,14 bar.

Low Flow-rate

PRLG



- Flow-rate: 114 ÷ 1.590 l/hr
- Preset operating pressure: 0,69 ÷ 2,76 bar
- Maximum pressure: 6,20 ÷ 8,27 bar
- Ø inlet: 3/4" F NPT
- Ø outlet: 3/4" M NPT

Medium Flow-rate

PSR-2



- Flow-rate: 114 ÷ 3.407 l/hr
- Preset operating pressure: 0,41 ÷ 3,45 bar
- Maximum pressure: 6,20 ÷ 8,27 bar
- Ø inlet: 3/4" F
- Ø outlet: 3/4" F

PMR MF



- Flow-rate: 454 ÷ 4.543 l/hr
- Preset operating pressure: 0,41 ÷ 4,14 bar
- Maximum pressure: 6,20 ÷ 8,27 bar
- Ø inlet: 3/4" F NPT, 1" F
- Ø outlet: 3/4" M NPT, 1" F

High Flow-rate

PR HF



- Flow-rate: 2.271 ÷ 7.268 l/hr
- Preset operating pressure: 0,69 ÷ 3,45 bar
- Maximum pressure: 6,20 ÷ 8,96 bar
- Ø inlet: 1" 1/4 F
- Ø outlet: 1" 1/4 F

PRU



- Flow-rate: 4.543 ÷ 22.713 l/hr
- Preset operating pressure: 0,69 ÷ 4,14 bar
- Maximum pressure: 6,20 ÷ 9,65 bar
- Ø inlet: 2" F
- Ø outlet: 2" F