



PRESSURE REGULATORS

ACCURATE REGULATORS FOR ENSURING UNIFORM PRESSURE

OVERVIEW

- Ensuring continuous non-peak, consistent pressure and maximum system uptime, our highly accurate pressure regulators are available in two models.
- PRV 2000: Located near the head control, this model is available at various outlet pressures.
- In-line PRV: Located at the dripperline, sprinkler or conduction/distribution pipe entry point, this model is suitable for low-flow rates that are most prevalent in sloped irrigation applications.



3/4" In-line

3/4" x 1 (2000)

1 1/2" x 2 (2000)

2" x 4 (2000)

2" x 6 (2000)

3" x 10 (2000)

PRESSURE REGULATORS SELECTION

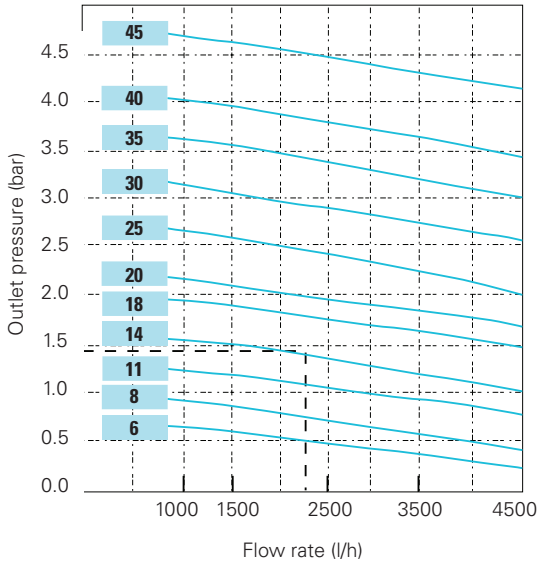
PRODUCT	MODEL	MIN. FLOW RATE (M ³ /H)	MAX. FLOW RATE (M ³ /H)	MAX. INLET PRESSURE (BAR)	BODY MATERIAL
3/4" In-line PRV (Low Flow)	In-line PRV	0.08	1.0	10	Plastic, Black
3/4" In-line PRV (Acid Resistant)	In-line PRV	0.08	1.0	4	Plastic, Purple
3/4" (1 regulating unit)	2000	1.2	4.5	10	Plastic, Black
1 1/2" (2 regulating units)	2000	2.4	9.0	10	Plastic, Black
2" (4 regulating units)	2000	4.8	18.0	10	Plastic, Black
2" (6 regulating units)	2000	7.2	27.0	10	Brass
3" (10 regulating units)	2000	12	45.0	10	Brass

REGULATING UNITS FOR 2000 SERIES SELECTION

0.6, 0.8, 1.1, 1.4, 1.8, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5

* Outlet pressure in bar

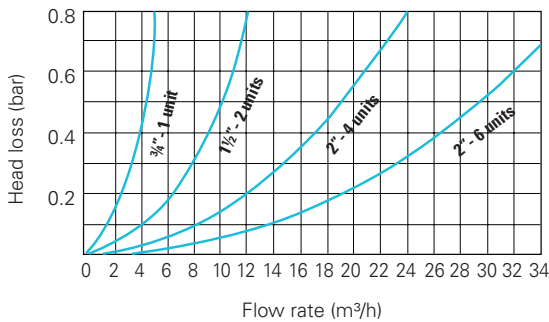
PRV 2000 SERIES OUTLET PRESSURE VS. FLOW RATE



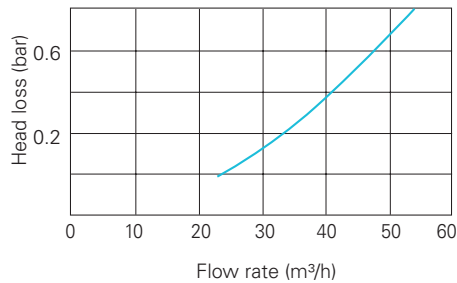
EXAMPLE: FLOW RATE – OUTPUT PRESSURE

- Given flow rate = 14.0 m³/h
- Required output pressure = 1.4 bar
- Calculation: Selected product = PRV 2" x 6 springs.
- Head loss across the PRV unit at 14.0 m³/h = 0.12 bar (graph 2)
- Flow rate per spring = 14:6 = 2.3 m³/h.
- Selected spring 1.4 = output pressure at 2.3 m³/h is 1.4 bar (graph 1)
- Total minimum required inlet pressure = 1.4 + 0.12 + 0.2 (0.2 bar is constant addition to move the piston out) = 1.72 bar
- Spring pressure regulator valve = > head loss + actual output pressure + 0.2 bar = minimum required inlet pressure

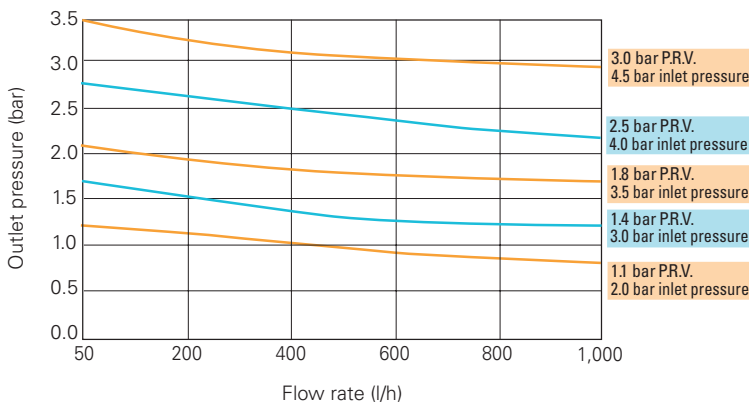
PRESSURE REGULATORS (HEAD LOSS VS. FLOW RATE)



3"X10 (HEAD LOSS VS. FLOW RATE)



IN-LINE PRV OUTLET PRESSURE VS. FLOW RATE



IN-LINE PRV LOW FLOW PRESSURE REGULATOR

- Plastic body, corrosion resistant
- Stainless steel spring
- Min. flow rate 50 l/h, max. flow rate 1000 l/h
- Inlet and outlet connector 3/4" female
- Max. inlet pressure: 10 bar
- Spring for drip irrigation: 1.1, 1.4 and 1.8 bar
- Spring for sprinklers: 2.5 and 3.0 bar with 1/2" female threaded at the outlet

SPARE PARTS FOR PRV 2000

CATALOG NO.	DESCRIPTION
31500-001000	REGULATING UNIT 2000 0.6 BAR 9 PSI
31500-001100	REGULATING UNIT 2000 0.8 BAR 12 PSI
31500-001200	REGULATING UNIT 2000 1.1 BAR 15 PSI
31500-001300	REGULATING UNIT 2000 1.4 BAR 20 PSI
31500-001400	REGULATING UNIT 2000 1.8 BAR 25 PSI
31500-001500	REGULATING UNIT 2000 2.0 BAR 30 PSI
31500-001600	REGULATING UNIT 2000 2.5 BAR 35 PSI
31500-001700	REGULATING UNIT 2000 3.0 BAR 43 PSI
31500-001800	REGULATING UNIT 2000 3.5 BAR 50 PSI
31500-001900	REGULATING UNIT 2000 4.0 BAR 57 PSI
31500-002000	REGULATING UNIT 2000 4.5 BAR 65 PSI
31500-002020	PR.V. 2000 3/4"-BODY REPLACEMENT KIT
31500-002030	PR.V. 2000 1.5"-BODY REPLACEMENT KIT
31500-018910	PR.V.2000 2" 4U BSPT-B.REPLACEMENT KIT
31500-018900	PR.V.2000 2" 4U NPT-B.REPLACEMENT KIT
31500-002060	PR.V.2000 2" 6U BSPP-B.REPLACEMENT KIT
31500-002070	PR.V.2000 2" 6U NPT-B.REPLACEMENT KIT
31500-002075	PRV 2000 2" 6U NPTB.REPLCMNT KIT 5/CASE
31500-002080	PR.V.2000 3" 10U BSPP-B.REPLACEMENT KIT
31500-002090	PR.V.2000 3" 10U NPT-B.REPLACEMENT KIT

