



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

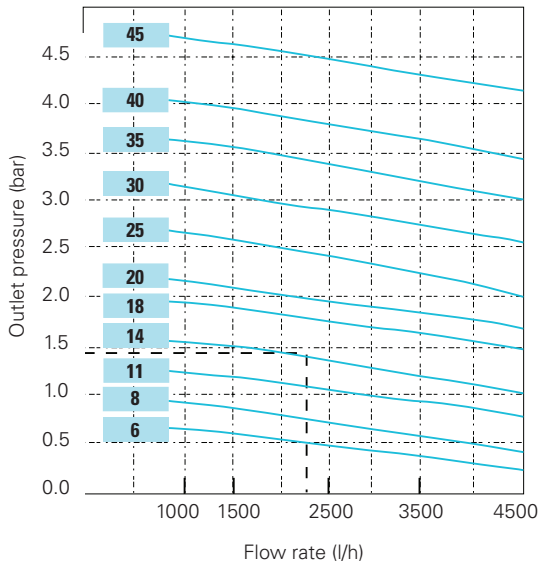
PRODUCT	MODEL	MIN. FLOW RATE (M ³ /H)	MAX. FLOW RATE (M ³ /H)	MAX. INLET PRESSURE (BAR)	BODY MATERIAL
3/4" In-line PRV (Low Flow)	In-line PRV	0.08	1.0	10	Plastic, Black
3/4" In-line PRV (Acid Resistant)	In-line PRV	0.08	1.0	4	Plastic, Purple
3/4" (1 regulating unit)	2000	1.2	4.5	10	Plastic, Black
1 1/2" (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

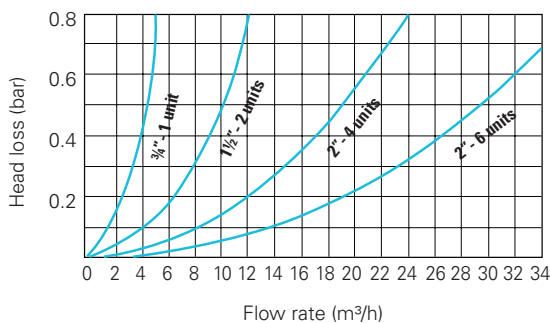
PRV 2000 SERIES OUTLET PRESSURE VS. FLOW RATE



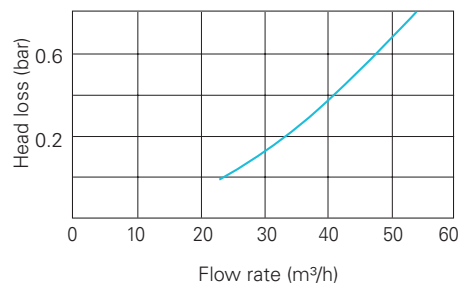
EXAMPLE: FLOW RATE – OUTPUT PRESSURE

- 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

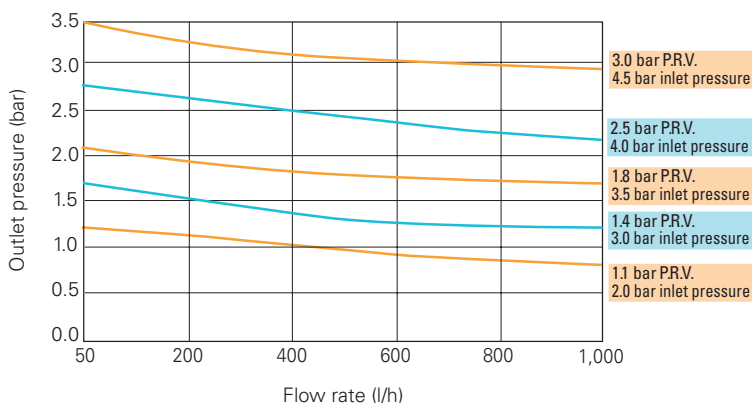
PRESSURE REGULATORS (HEAD LOSS VS. FLOW RATE)



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



LOGISTIC INFORMATION

IN-LINE PRV 3/4"

CATALOG NO.	DESCRIPTION	FLOW RANGE (M ³ /H / GPM)	NOMINAL OUTPUT PRESSURE (BAR / PSI)	MAX OPERATING PRESSURE (BAR / PSI)	REGULATING UNITS QTY
31000-001000	INLINE P.R.V. 3/4" 1.1 BAR 15 PSI	0.08-1 / 0.35-4.4	1.1 / 15	10 / 145	1
31000-001120	INLINE P.R.V. 3/4" 1.4 BAR 20 PSI	0.08-1 / 0.35-4.4	1.4 / 20	10 / 145	1
31000-001160	INLINE P.R.V. 3/4" 1.8 BAR 25 PSI	0.08-1 / 0.35-4.4	1.8 / 25	10 / 145	1
31000-001200	INLINE P.R.V. 3/4" 2.5 BAR 35 PSI	0.08-1 / 0.35-4.4	2.5 / 35	10 / 145	1
31000-001210	INLINE P.R.V. 3/4"*1/2" 2.5 BAR 43 PSI	0.08-1 / 0.35-4.4	2.5 / 35	10 / 145	1
31000-001400	INLINE P.R.V. 3/4" 3.0 BAR 43 PSI	0.08-1 / 0.35-4.4	3.0 / 43	10 / 145	1
31000-002200	INLINE P.R.V. 3/4"*1/2" 2.5 BAR 35 PSI	0.08-1 / 0.35-4.4	2.5 / 35	10 / 145	1



IN-LINE PRV 3/4" FOR MINING

CATALOG NO.	DESCRIPTION	FLOW RANGE (M ³ /H / GPM)	NOMINAL OUTPUT PRESSURE (BAR / PSI)	MAX OPERATING PRESSURE (BAR / PSI)	REGULATING UNITS QTY
31000-001100	INLINE P.R.V. 3/4" 1.1 BAR 15 PSI MINING	0.08-1 / 0.35-4.4	1.1 / 15	4 / 60	1
31000-001140	INLINE P.R.V. 3/4" 1.4 BAR 20 PSI MINING	0.08-1 / 0.35-4.4	1.4 / 20	4 / 60	1
31000-001180	INLINE P.R.V. 3/4" 1.8 BAR 25 PSI MINING	0.08-1 / 0.35-4.4	1.8 / 25	4 / 60	1
31000-001300	INLINE P.R.V. 3/4" 2.5 BAR 35 PSI MINING	0.08-1 / 0.35-4.4	2.5 / 35	4 / 60	1
31000-002300	INLINE P.R.V. 3/4"*1/2" 1.1 BAR MINING	0.08-1 / 0.35-4.4	1.1 / 15	4 / 60	1
31000-002330	INLINE P.R.V. 3/4"*1/2" 1.4 BAR MINING	0.08-1 / 0.35-4.4	1.4 / 20	4 / 60	1
31000-002360	INLINE P.R.V. 3/4"*1/2" 1.8 BAR MINING	0.08-1 / 0.35-4.4	1.8 / 25	4 / 60	1
31000-002390	INLINE P.R.V. 3/4"*1/2" 2.5 BAR MINING	0.08-1 / 0.35-4.4	2.5 / 35	4 / 60	1



PRV 2000 3/4"

CATALOG NO.	DESCRIPTION	FLOW RANGE (M ³ /H / GPM)	NOMINAL OUTPUT PRESSURE (BAR / PSI)	MAX OPERATING PRESSURE (BAR / PSI)	REGULATING UNITS QTY
30500-001000	PR.V. 2000 3/4" 0.6 BAR 9 PSI	1.2-4.5 / 5.2-19.8	0.6 / 9	10 / 145	1
30500-001100	PR.V. 2000 3/4" 0.8 BAR 12 PSI	1.2-4.5 / 5.2-19.8	0.8 / 12	10 / 145	1
30500-001200	PR.V. 2000 3/4" 1.1 BAR 15 PSI	1.2-4.5 / 5.2-19.8	1.1 / 15	10 / 145	1
30500-001300	PR.V. 2000 3/4" 1.4 BAR 20 PSI	1.2-4.5 / 5.2-19.8	1.4 / 20	10 / 145	1
30500-001400	PR.V. 2000 3/4" 1.8 BAR 25 PSI	1.2-4.5 / 5.2-19.8	1.8 / 25	10 / 145	1
30500-001500	PR.V. 2000 3/4" 2.0 BAR 30 PSI	1.2-4.5 / 5.2-19.8	2.0 / 30	10 / 145	1
30500-001600	PR.V. 2000 3/4" 2.5 BAR 35 PSI	1.2-4.5 / 5.2-19.8	2.5 / 35	10 / 145	1
30500-001700	PR.V. 2000 3/4" 3.0 BAR 43 PSI	1.2-4.5 / 5.2-19.8	3.0 / 43	10 / 145	1
30500-001800	PR.V. 2000 3/4" 3.5 BAR 50 PSI	1.2-4.5 / 5.2-19.8	3.5 / 50	10 / 145	1
30500-001900	PR.V. 2000 3/4" 4.0 BAR 57 PSI	1.2-4.5 / 5.2-19.8	4.0 / 57	10 / 145	1
30500-002000	PR.V. 2000 3/4" 4.5 BAR 65 PSI	1.2-4.5 / 5.2-19.8	4.5 / 65	10 / 145	1

