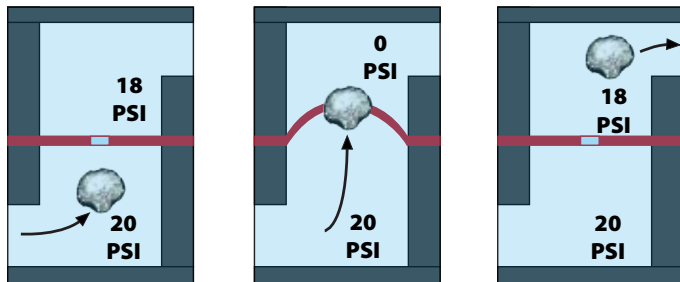


NonStop[®] Drip Emitters

Product Description

The Bowsmith NonStop emitter design, patented in 1974, is based on a simple unique principle found in no other emitter. This Pressure Cascade Principle permits the emitter to tolerate large amounts of suspended solids in irrigation water, without clogging and without the need for fine-mesh filter screens.

The BOWSMITH Principle: NonStop Continuous Self-Cleaning Action



A
Orifice Open -
Low pressure
across diaphragm
(Approximately 2 psi)

B
Momentary Blockage -
High difference
pressure
(Up to line pressure)

C
Obstruction
pushed through -
Low difference
pressure restored

How it works

- 1 The flow path is a series of orifices in the silicone diaphragm.
- 2 In normal operation, the total pressure difference between inlet and outlet is divided equally across each of the orifices in the flow path.
- For example: 20 psi inlet pressure, and 10 orifices in the flow path, the pressure drop across each orifice is 2 psi.
- 3 If an obstruction should occur in any of the orifices, the flow through that orifice will be momentarily restricted. As a result, the pressure drop across that orifice will increase, causing the orifice to enlarge until the obstruction has passed.

For over 40 years, millions of Bowsmith NonStop emitters have demonstrated that the unique NonStop Continuous Self-Cleaning Action (Pressure Cascade Principle) really works, even under conditions that would quickly clog ordinary emitters. With only 30-mesh filtration (recommended minimum), Bowsmith NonStop emitters have operated successfully with water containing heavy concentrations of sand, silt, iron bacteria "slime", calcium carbonates, even algae and moss.

This means:

- Trees & Plants will be Irrigated
- Reduction in Plant Loss and Stress
- Less Maintenance-Lower Labor Costs
- Lower Capital Investment in Filtration Equipment.

Bowsmith emitters are available in single and multi outlet models, and with flow rates of 0.6 gph, 1.0 gph, 2.0 gph, and 3.0 gph.

Notes

- 30-mesh filtration and 15 PSI emitter operating pressure are the recommended minimums for a NonStop emitter system.
- Manufacturer's variation, $C_v: \leq 0.05$



"ML" Series









"SL" Series



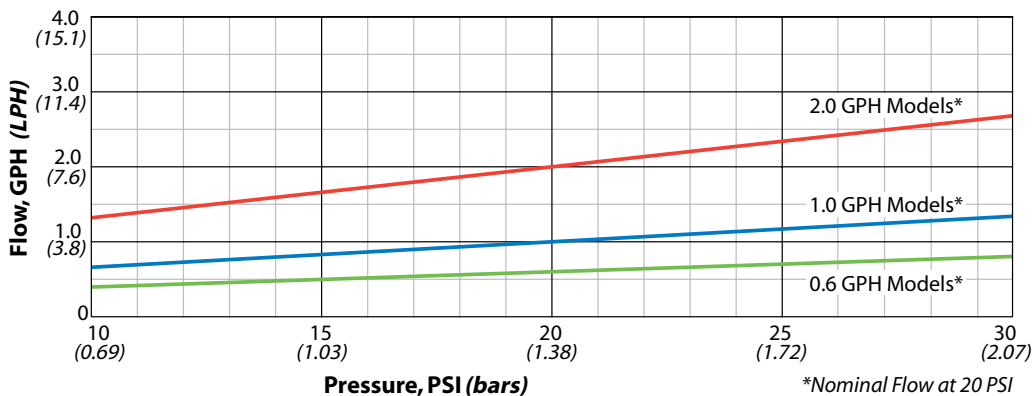
"SB" Series

NonStop[®] Drip Emitters

	Description	Model No.	Stock No.	Specifications—Nominal Flow @ 20 PSI	
 <p>"SB" Series</p>	Single barb outlet, 0.250" and 0.175" barbs on opposite ends; either can be used as inlet.	SB-06	6120	0.6 GPH (2.3 LPH)	(Green Insert)
		SB-10	6121	1.0 GPH (3.8 LPH)	(Blue Insert)
		SB-20	6123	2.0 GPH (7.6 LPH)	(Red Insert)
		SB-30	6124	3.0 GPH (11.4 LPH)	(Yellow Insert)
 <p>"SL200" Series</p>	Single outlet, 1/2" FPT inlet, barbed elbow outlet port.	SL206	6034	0.6 GPH (2.3 LPH)	(Green Port)
		SL210	6035	1.0 GPH (3.8 LPH)	(Blue Port)
		SL220	6036	2.0 GPH (7.6 LPH)	(Red Port)
		SL230	6037	3.0 GPH (11.5 LPH)	(Yellow Port)
 <p>"M200" Series</p>	6 outlets open, 0.250" barb inlet. Includes full set of elbow/outlet caps and line plugs.	M206	7063	0.6 GPH (2.3 LPH)	(Green Cap)
		M210	7064	1.0 GPH (3.8 LPH)	(Blue Cap)
		M220	7066	2.0 GPH (7.6 LPH)	(Red Cap)
 <p>"ML200" Series</p>	6 outlets open, 1/2" FPT inlet. Includes full set of elbow/outlet caps and line plugs.	ML206	7068	0.6 GPH (2.3 LPH)	(Green Cap)
		ML210	7069	1.0 GPH (3.8 LPH)	(Blue Cap)
		ML220	7071	2.0 GPH (7.6 LPH)	(Red Cap)
 <p>Series "2000" Flow Distributor</p>	6 outlets open, 1/2" FPT inlet. Includes full set of elbow/outlet caps and line plugs.	FD-2010	6075	1.0 GPH (3.8 LPH) @ 15-100 PSI	(Blue Cap)
		FD-2020	6080	2.0 GPH (7.6 LPH) @ 15-100 PSI	(Red Cap)
 <p>"Gripper" Series</p>	Single outlet, barb inlet, gripper sleeve. <small>*Available factory installed on Bowsmith tubing.</small>	NSG-06	6050	0.6 GPH (2.3 LPH)	(Green End)
		NSG-10	6051	1.0 GPH (3.8 LPH)	(Blue End)
		NSG-20	6053	2.0 GPH (7.6 LPH)	(Red End)
		NSG-30	6056	3.0 GPH (11.5 LPH)	(Yellow End)

NonStop Drip Emitters

Nominal Performance



Notes

- 30-mesh filtration and 15 PSI emitter operating pressure are the recommended minimums for a NonStop emitter system.
- Manufacturer's variation, $C_v: \leq 0.05$