

Venturi Injector

Pressurized Innovation for Fertigation



Features & Benefits



Innovative Venturi design

Innovative design of convergent, throat and divergent sections of Venturi for more injection rate



Additional Fine Suction Filter

To avoid entry of solid particles in system, additional suction filter is provided



Additional Valve Provided

Additional Valve provided for suction side to prevent reverse flow of water



Various Option Available

Venturies are available from 3/4", 1", 1 1/4", 1 1/2", 2"

Additional Features

- Made of engineering plastic.
- Excellent chemical resistance to most of the chemicals.
- Highly efficient and compact differential pressure injection device.
- Economical and low cost option.
- Available in 3/4", 1", 1 1/4", 1 1/2" and 2" BSP inlet / outlet connection. Any other size can be supplied on demand.

Applications

- Fertilizer and chemical injection through drip and sprinkler irrigation systems

Venturi Injector

Performance Chart for Venturi Injector 3/4"

Pressure		Motive Flow through venturi injector	Injection Rate
Inlet	Outlet		
kg/cm ²	kg/cm ²	lpm	lph
1.0	0.0	8.5	77.0
	0.2	8.4	70.8
	0.4	8.3	47.7
	0.6	8.2	23.5
	0.8	8.2	-
1.5	0.0	10.5	73.8
	0.2	10.4	64.2
	0.4	10.4	68.1
	0.6	10.3	50.5
	0.8	10.3	30.1
	1.0	10.3	-
2.0	0.0	12.4	70.8
	0.2	12.3	70.2
	0.4	12.2	70.0
	0.6	12.2	64.8
	0.8	12.2	49.8
	1.0	12.2	37.3
	1.2	12.2	30.5
2.5	1.4	11.9	-
	0.0	14.0	69.3
	0.2	13.9	68.4
	0.4	13.9	67.7
	0.6	13.8	66.1
	0.8	13.8	60.6
	1.0	13.8	54.0
	1.2	13.8	47.1
	1.4	13.8	30.9
	1.6	13.7	23.6
3.0	1.8	13.7	-
	0.0	15.2	68.3
	0.2	15.2	66.4
	0.4	15.2	65.2
	0.6	15.1	65.1
	0.8	15.1	63.9
	1.0	15.1	62.4
	1.2	15.1	58.6
	1.4	15.1	50.4
	1.6	15.0	38.0
	1.8	15.0	26.7
	2.0	14.9	20.2
	2.2	14.9	-

Pressure		Motive Flow through venturi injector	Injection Rate
Inlet	Outlet		
kg/cm ²	kg/cm ²	lpm	lph
3.5	0.0	16.5	66.7
	0.2	16.5	64.9
	0.4	16.5	64.7
	0.6	16.5	64.5
	0.8	16.4	64.7
	1.0	16.4	63.7
	1.2	16.3	61.3
	1.4	16.3	58.0
	1.6	16.3	52.3
	1.8	16.3	44.8
4.0	2.0	16.3	38.1
	2.2	16.2	24.8
	2.4	16.0	-
	0.0	17.7	65.8
	0.2	17.7	65.0
	0.4	17.6	64.6
	0.6	17.6	64.2
	0.8	17.5	63.8
	1.0	17.5	64.0
	1.2	17.5	61.8
4.0	1.4	17.5	60.9
	1.6	17.4	57.7
	1.8	17.4	47.3
	2.0	17.4	41.7
	2.2	17.3	40.3
	2.4	17.4	33.1
	2.6	17.3	33.1
	2.8	17.3	-

Note: Test conducted under standard test conditions with venturi injector installed on bypass.



Venturi Injector

Performance Chart for Venturi Injector 1" & 1½"

Pressure		Venturi 1"		Venturi 1½"	
Inlet	Outlet	Motive flow	Inj. Rate	Motive flow	Inj. Rate
kg/cm ²	kg/cm ²	lpm	lph	lpm	lph
1	0	59	450	58	790
	0.25	59	375	58	750
	0.5	55	275	51	400
1.5	0	67	540	68	800
	0.5	67	440	68	750
	0.75	62	380	65	700
	1	62	200	60	150
2	0	75	430	78	750
	0.5	75	400	78	700
	0.75	75	375	78	680
	1	75	350	77	650
	1.25	72	300	71	420
	1.5	70	130	-	-
2.5	0	82	400	87	730
	0.5	82	375	87	700
	0.75	82	360	87	680
	1	82	350	87	680
	1.25	81	320	87	610
	1.5	81	300	81	530
	1.75	78	150	79	140
	2	-	-	-	-
3	0	88	420	95	730
	1	88	350	95	720
	1.25	88	330	95	700
	1.5	88	330	95	680
	1.75	88	300	92	450
	2	88	250	89	270
	2.25	86	125	88	110
	2.5	-	-	-	-
3.5	0	95	375	102	670
	1	95	350	102	650
	1.5	95	350	102	640
	1.75	95	330	102	620
	2	95	300	102	550
	2.25	93	250	98	400
	2.5	93	220	96	200
	2.75	-	-	-	-
4	0	100	350	118	670
	1	100	350	118	670
	2	100	350	118	650
	2.25	100	300	118	610
	2.5	100	280	118	600
	2.75	100	250	114	390
	3	98	130	113	200
	3.25	-	-	-	-

Note: Test conducted under standard test conditions with venturi injector installed on bypass.

Performance Chart for Venturi Injector 1½" & 2"

Pressure		Venturi 1½"		Venturi 2"	
Inlet	Outlet	Motive flow	Inj. Rate	Motive flow	Inj. Rate
kg/cm ²	kg/cm ²	lpm	lph	lpm	lph
1	0	95	950	240	1940
	0.25	86	700	238	1740
	0.5	86	400	235	800
1.5	0	111	950	280	1940
	0.5	111	900	278	1740
	0.75	106	745	265	1200
	1	100	250	250	558
2	0	124	950	315	1900
	0.5	124	800	315	1700
	0.75	124	770	315	1640
	1	124	750	315	1340
	1.25	124	400	300	800
	1.5	-	-	280	250
2.5	0	136	950	335	1940
	0.5	136	950	335	1700
	0.75	136	900	335	1600
	1	136	900	335	1600
	1.25	136	750	330	1400
	1.5	132	530	330	750
	1.75	128	300	320	120
	2	-	-	-	-
3	0	148	950	375	1740
	1	148	800	370	1540
	1.25	148	775	370	1500
	1.5	148	775	370	1300
	1.75	147	720	360	750
	2	140	350	355	750
	2.25	138	150	345	250
	2.5	-	-	-	-
	2.75	-	-	-	-
3.5	0	159	880	405	1740
	1	159	800	405	1600
	1.5	159	800	405	1500
	1.75	159	750	405	1500
	2	159	730	400	1030
	2.25	153	440	390	750
	2.5	150	170	375	250
	2.75	-	-	-	-
	3	-	-	-	-
4	0	168	880	430	1740
	1	168	880	430	1740
	2	168	880	420	1600
	2.25	166	450	420	1470
	2.5	165	400	420	750
	2.75	162	250	410	750
	3	159	150	400	250
	3.25	-	-	-	-
	3.5	-	-	-	-