Venturi Injector

¾", 1", 1½" & 2"

The Venturi Injector is a powerful differential pressure injector designed for maximum efficiency in fertilizer mixing and suction capabilities. Featuring an in-built check valve, this injector protects the integrity of injected liquids against backflow, ensuring optimal performance. It is a reliable solution for delivering nutrients directly to the wetted zone, enhancing root development and overall plant health.



HIGHLIGHTS

- **Controlled Suction:** Offers adjustable suction of fertilizers for precise nutrient delivery.
- **Direct Nutrient Application:** Effectively delivers plant nutrients into the wetted zone, promoting vigorous root growth.
- **Micro climatic Conditions:** Aids in creating favourable micro climatic conditions for improved plant health.
- **Versatile Chemical Use:** Compatible with a wide range of chemicals for diverse agricultural applications.
- **Uniform Fertilizer Application:** Ensures consistent and uniform application of fertilizers across the field.
- **Energy and Labour Savings:** Optimizes resource use, saving both energy and manpower in the fertilization process.
- **Rotameter:** It can measure / read accurate suction of fertilizers and is available in various sizes to suit different system requirements.

APPLICATIONS

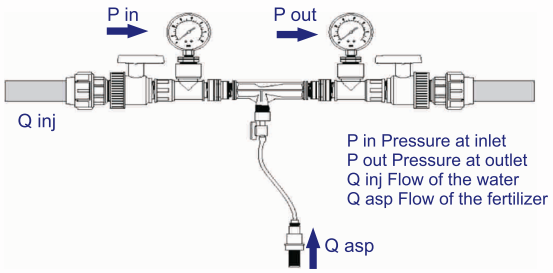
- **Fertilizer Injection Systems:** Ideal for irrigation systems that require efficient and uniform fertilizer application.
- **Agricultural Practices:** Suitable for various agricultural uses, enhancing crop yield and nutrient delivery.



Technical Data (¾” & 1”)

Operating Pressure				¾" VI (Model-112)				1" VI (Model-113)			
Injector Inlet P	Injector Inlet P	Injector Outlet P	Injector Outlet P	Motive Flow	Motive Flow	Water Suction	Water Suction	Motive Flow	Motive Flow	Water Suction	Water Suction
Kg/cm^2	PSI	Kg/cm^2	PSI	L/H	GPM	L/H	GPM	L/H	GPM	L/H	GPM
0.5	7.1	0	0	750	3.3	170	0.75	2200	9.69	263	1.16
0.75	10.7	0	0	856	3.77	188	0.83	2640	11.62	288	1.27
1	14.2	0	0	983	4.33	195	0.86	3000	13.21	310	1.36
		0.25	3.6			185	0.81			275	1.21
		0.5	7.1			138	0.61			174	0.77
1.5	21.3	0	0	1195	5.26	190	0.84	3500	15.41	298	1.31
		0.5	7.1			188	0.83			269	1.18
		0.75	10.7			153	0.67			263	1.16
		1	14.2			91	0.4			115	0.51
2	28.4	0	0	1356	5.97	190	0.84	4290	18.89	298	1.31
		0.5	7.1			190	0.84			293	1.29
		0.75	10.7			188	0.83			293	1.29
		1	14.2			175	0.77			263	1.16
		1.25	17.8			135	0.59			188	0.83
		1.5	21.3			48	0.21			70	0.31
2.5	35.6	0	0	1527	6.72	190	0.84	4645	20.45	310	1.36
		0.5	7.1			190	0.84			298	1.31
		0.75	10.7			190	0.84			293	1.29
		1	14.2			190	0.84			293	1.29
		1.25	17.8			173	0.76			293	1.29
		1.5	21.3			150	0.66			249	1.1
		1.75	24.9			93	0.41			130	0.57
3	42.7	0	0	1671	7.36	190	0.84	5065	22.3	310	1.36
		1	14.2			190	0.84			310	1.36
		1.25	17.8			190	0.84			310	1.36
		1.5	21.3			188	0.83			293	1.29
		1.75	24.9			168	0.74			264	1.16
		2	28.4			115	0.51			190	0.84
		2.25	32			45	0.2			72	0.32
3.5	49.8	0	0	1783	7.85	190	0.84	5370	23.64	310	1.36
		1	14.2			190	0.84			310	1.36
		1.5	17.8			190	0.84			310	1.36
		1.75	21.3			188	0.83			291	1.28
		2	24.9			168	0.74			263	1.16
		2.25	32			141	0.62			227	1
		2.5	35.6			90	0.4			129	0.57
		2.75	39.1			37	0.16			58	0.26
4	56.9	0	0	1907	8.4	190	0.84	5720	25.18	310	1.36
		1	14.2			190	0.84			310	1.36
		2	24.9			190	0.84			293	1.29
		2.25	32			180	0.79			293	1.29
		2.5	35.6			155	0.68			291	1.28
		2.75	39.1			110	0.48			191	0.84
		3	42.7			50	0.22			95	0.42

Typical Installation





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Technical Data (1½" & 2")

Operating Pressure				1.5" VI (Model-114)				2" ECONOMI VI (Model-115 ES)			
Injector Inlet P		Injector Outlet P		Motive Flow		Water Suction		Motive Flow		Water Suction	
Kg/cm²	PSI	Kg/cm²	PSI	L/H	GPM	L/H	GPM	L/H	GPM	L/H	GPM
0.5	7.1	0	0	3238	14.26	600	2.64	3920	17.26	612	2.69
0.75	10.7	0	0	3902	17.18	600	2.64	4530	19.94	710	3.13
1	14.2	0	0	4532	19.95	613	2.7	4940	21.75	720	3.17
		0.25	3.6			600	2.64			700	3.08
		0.5	7.1			475	2.09			500	2.2
1.5	21.3	0	0	5712	25.15	600	2.64	6290	27.69	710	3.13
		0.5	7.1			600	2.64			710	3.13
		0.75	10.7			575	2.53			600	2.64
		1	14.2			350	1.54			400	1.76
2	28.4	0	0	6590	29.01	600	2.64	6880	30.29	710	3.13
		0.5	7.1			600	2.64			700	3.08
		0.75	10.7			600	2.64			700	3.08
		1	14.2			600	2.64			680	2.99
		1.25	17.8			538	2.37			600	2.64
		1.5	21.3			213	0.94			300	1.32
2.5	35.6	0	0	7428	32.7	600	2.64	7725	34.01	720	3.17
		0.5	7.1			600	2.64			710	3.13
		0.75	10.7			600	2.64			710	3.13
		1	14.2			600	2.64			700	3.08
		1.25	17.8			600	2.64			650	2.86
		1.5	21.3			575	2.53			600	2.64
		1.75	24.9			428	1.88			420	1.85
		2	28.4			100	0.44			100	0.44
3	42.7	0	0	8163	35.94	600	2.64	8320	36.63	720	3.17
		1	14.2			600	2.64			710	3.13
		1.25	17.8			600	2.64			710	3.13
		1.5	21.3			600	2.64			680	2.99
		1.75	24.9			600	2.64			650	2.86
		2	28.4			563	2.48			580	2.55
		2.25	32			313	1.38			320	1.41
3.5	49.8	0	0	8814	38.81	600	2.64	9000	39.63	710	3.13
		1	14.2			600	2.64			710	3.13
		1.5	21.3			600	2.64			700	3.08
		1.75	24.9			600	2.64			680	2.99
		2	28.4			600	2.64			620	2.73
		2.25	32			563	2.48			570	2.51
		2.5	35.6			463	2.04			480	2.11
		2.75	39.1			213	0.94			240	1.06
4	56.9	0	0	9422	41.48	613	2.7	9625	42.38	710	3.13
		1	14.2			613	2.7			710	3.13
		2	28.4			613	2.7			700	3.08
		2.25	32			600	2.64			680	2.99
		2.5	35.6			600	2.64			650	2.86
		2.75	39.1			563	2.48			580	2.55
		3	42.7			375	1.65			400	1.76
4.5	64	0	0	9918	43.67	613	2.7	10000	44.03	715	3.15
		1	14.2			613	2.7			710	3.13
		2	28.4			613	2.7			700	3.08
		2.5	35.6			613	2.7			680	2.99
		2.75	39.1			613	2.7			650	2.86
		3	42.7			600	2.64			610	2.69
		3.25	46.2			563	2.48			570	2.51
		3.5	49.8			250	1.1			230	1.01
5	71.1	0	0	10471	46.1	613	2.7	10600	46.67	720	3.17
		1	14.2			613	2.7			710	3.13
		2	28.4			613	2.7			700	3.08
		3	42.7			600	2.64			680	2.99
		3.25	46.2			575	2.63			600	2.64
		3.5	49.8			538	2.37			580	2.55
		3.75	53.3			450	1.98			480	2.11
		4	56.9			188	0.83			150	0.66
5.5	78.2	0	0					10780	47.46	720	3.17
		1	14.2							710	3.13
		2	28.4							700	3.08
		3	42.7							680	2.99
		3.25	46.2							620	2.73
		3.5	49.8							580	2.55
		3.75	53.3							500	2.2
		4	56.9							370	1.63
		4.25	60.4							120	0.53
6	85.3	0	0					10950	48.21	710	3.13
		1	14.2							710	3.13
		2	28.4							710	3.13
		3	42.7							680	2.99
		4	56.9							600	2.64
		4.25	60.4							550	2.42
		4.5	64							380	1.67
		4.75	67.6							200	0.88

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Technical Data (2"- Low Flow & High Flow)

Operating Pressure				2" VI Low Flow (Model-115LF)				2" VI High Flow (Model-115HF)			
Injector Inlet P		Injector Outlet P		Motive Flow		Water Suction		Motive Flow		Water Suction	
Kg/cm^2	PSI	Kg/cm^2	PSI	L/H	GPM	L/H	GPM	L/H	GPM	L/H	GPM
0.5	7.1	0	0	6600	29.06	706	3.11	10320	45.44	1250	5.50
0.75	10.7	0	0	7250	31.92	827	3.64	12300	54.16	1325	5.83
		0	0			841	3.7			1400	6.16
1	14.2	0.25	3.6	7950	35	803	3.54	14400	63.4	1275	5.61
		0.5	7.1			539	2.37			913	4.02
		0	0			806	3.55			1450	6.38
1.5	21.3	0.5	7.1	9040	39.8	805	3.54	16800	73.97	1350	5.94
		0.75	10.7			676	2.98			1225	5.39
		1	14.2			270	1.19			530	2.33
		0	0			813	3.58			1450	6.38
		0.5	7.1			788	3.47			1450	6.38
2	28.4	0.75	10.7	11800	51.95	788	3.47	18900	83.21	1325	5.83
		1	14.2			764	3.36			1300	5.72
		1.25	17.8			620	2.73			875	3.85
		1.5	21.3			229	1.01			473	2.08
		0	0			810	3.57			1450	6.38
		0.5	7.1			810	3.57			1450	6.38
		0.75	10.7			765	3.37			1450	6.38
2.5	35.6	1	14.2	12830	56.49	719	3.17	20100	88.5	1450	6.38
		1.25	17.8			698	3.07			1300	5.72
		1.5	21.3			626	2.76			1163	5.12
		1.75	24.9			366	1.61			697	3.07
		2	28.4			100	0.44			NS	NA
		0	0			830	3.65			1450	6.38
		1	14.2			798	3.51			1450	6.38
		1.25	17.8			798	3.51			1450	6.38
3	42.7	1.5	21.3	13300	58.56	763	3.36	22500	99.06	1425	6.27
		1.75	24.9			739	3.25			1200	5.28
		2	28.4			568	2.5			950	4.18
		2.25	32			308	1.36			403	1.77
		0	0			830	3.65			1480	6.52
		1	14.2			810	3.57			1480	6.52
		1.5	21.3			806	3.55			1480	6.52
3.5	49.8	1.75	24.9	13600	59.88	765	3.37	24300	106.99	1480	6.52
		2	28.4			699	3.08			1425	6.27
		2.25	32			634	2.79			1125	4.95
		2.5	35.6			454	2			665	2.93
		2.75	39.1			199	0.88			>400	NA
		0	0			810	3.57			1480	6.52
		1	14.2			810	3.57			1480	6.52
		2	28.4			798	3.51			1480	6.52
4	56.9	2.25	32	14560	64.11	784	3.45	25800	113.59	1480	6.52
		2.5	35.6			709	3.12			1275	5.61
		2.75	39.1			608	2.68			925	4.07
		3	42.7			347	1.53			485	2.14
		3.25	46.2			109	0.48			NS	NA
		0	0			810	3.57			1480	6.52
		1	14.2			810	3.57			1480	6.52
		2	28.4			810	3.57			1480	6.52
4.5	64	2.5	35.6	15400	67.8	746	3.28	26400	116.24	1450	6.38
		2.75	39.1			712	3.13			1350	5.94
		3	42.7			688	3.03			1050	4.62
		3.25	46.2			505	2.22			575	2.53
		3.5	49.8			270	1.19			>400	>1.76
		0	0			810	3.57			1480	6.52
		1	14.2			810	3.57			1480	6.52
		2	28.4			810	3.57			1480	6.52
5	71.1	3	42.7	16200	71.33	750	3.3	28500	125.48	1375	6.05
		3.25	46.2			707	3.11			925	4.07
		3.5	49.8			636	2.8			725	3.19
		3.75	53.3			398	1.75			545	2.4
		4	56.9			140	0.62			>400	>1.76
		0	0			810	3.57			1480	6.52
		1	14.2			810	3.57			1480	6.52
		2	28.4			809	3.56			1480	6.52
		3	42.7			780	3.43		132.09	1450	6.38
5.5	78.2	3.25	46.2	17050	75.07	712	3.13	30000		1450	6.38
		3.5	49.8			651	2.87			1325	5.83
		3.75	53.3			530	2.33			1050	4.62
		4	56.9			407	1.79			665	2.93
		4.25	60.4			160	0.7			<400	>1.76
		4.5	64			49	0.22			NS	NS
		0	0			810	3.57			1480	6.52
		1	14.2			810	3.57			1480	6.52
		2	28.4			810	3.57			1480	6.52
6	85.3	3	42.7	17750	78.15	801	3.53	32000	140.89	1480	6.52
		4	56.9			730	3.21			1325	5.83
		4.25	60.4			630	2.77			1025	4.51
		4.5	64			432	1.9			725	3.19
		4.75	67.6			271	1.19			425	1.87

Creating a Green World®