

Venturi Injector

3/4", 1", 1 1/2" & 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.

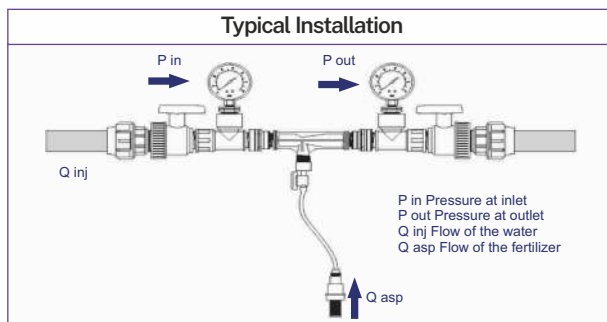
APPLICATIONS

- **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 (3/4" & 1")

Operating Pressure				3/4" 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



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/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	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
		1.5	21.3			600	2.64			710	3.13
2	28.4	0	0	6590	29.01	600	2.64	6880	30.29	700	3.08
		0.5	7.1			600	2.64			700	3.08
		0.75	10.7			600	2.64			680	2.99
		1	14.2			538	2.37			600	2.64
		1.25	17.8			213	0.94			300	1.32
		1.5	21.3			600	2.64			720	3.17
2.5	35.6	0	0	7428	32.7	600	2.64	7725	34.01	710	3.13
		0.5	7.1			600	2.64			710	3.13
		0.75	10.7			600	2.64			700	3.08
		1	14.2			600	2.64			650	2.86
		1.25	17.8			575	2.53			600	2.64
		1.5	21.3			428	1.88			420	1.85
		1.75	24.9			100	0.44			100	0.44
		2	28.4			600	2.64			720	3.17
3	42.7	0	0	8163	35.94	600	2.64	8320	36.63	710	3.13
		1	14.2			600	2.64			710	3.13
		1.25	17.8			600	2.64			680	2.99
		1.5	21.3			600	2.64			650	2.86
		1.75	24.9			563	2.48			580	2.55
		2	28.4			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
4	56.9	0	0	9422	41.48	213	0.94	9625	42.38	240	1.06
		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
4.5	64	0	0	9918	43.67	563	2.48	10000	44.03	580	2.55
		1	14.2			375	1.65			400	1.76
		2	28.4			613	2.7			710	3.13
		2.5	35.6			613	2.7			710	3.13
		2.75	39.1			613	2.7			700	3.08
		3	42.7			613	2.7			680	2.99
		3.25	46.2			613	2.7			650	2.86
		3.5	49.8			600	2.64			610	2.69
5	71.1	0	0	10471	46.1	563	2.48	10600	46.67	570	2.51
		1	14.2			250	1.1			230	1.01
		2	28.4			613	2.7			720	3.17
		3	42.7			613	2.7			710	3.13
		3.25	46.2			613	2.7			700	3.08
		3.5	49.8			600	2.64			680	2.99
		3.75	53.3			575	2.63			600	2.64
		4	56.9			538	2.37			580	2.55
5.5	78.2	0	0	10780	47.46	450	1.98	10950	48.21	480	2.11
		1	14.2			188	0.83			150	0.66
		2	28.4							720	3.17
		3	42.7							710	3.13
		3.25	46.2							700	3.08
		3.5	49.8							680	2.99
		3.75	53.3							620	2.73
6	85.3	0	0							580	2.55
		1	14.2							500	2.2
		2	28.4							370	1.63
		3	42.7							120	0.53
		4	56.9							710	3.13
		4.25	60.4							710	3.13
		4.5	64							710	3.13
4.75	67.6							680	2.99		
									600	2.64	
									550	2.42	
									380	1.67	
									200	0.88	

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