

Fertigation Equipment



Rivulis Fertigation Equipment

- **Maximize your drip irrigation system with drip fertigation:** Apply fertilizer direct to the root zone for maximum efficiency
- **Fertilizer Tanks:** Mix and apply liquid fertilizer directly
- **Venturi Injectors:** Create a pressure differential to inject fertilizer at set rates

Fertilizer Tank Product Information

Designed and manufactured to the highest standards of build quality.

With Fertilizer tanks, you can apply fertilizer to the irrigation water and provide the nutrients needed throughout the crop's cycle in order to achieve its optimal yield.

Irrigation with fertilizer is generally recommended during the first two thirds of irrigation time, to ensure proper flushing of the irrigation system and to minimize the emitters' clogging by the chemicals residues.

- All fertilizer tanks are equipped with connections and air valves.
- All models are made of carbon steel double coated with epoxy polyester powder paint, inside and outside.



Rivulis Vertical Fertilizer Tanks



Rivulis Horizontal Fertilizer Tanks

Product Specifications

Body	Capacity	Tank Height	Outlet Height	Length	Weight
	l	mm	mm	mm	kg
Vertical	60	728	107	450	26
	90	927	107	450	33
	120	1128	107	450	39
	300	1000	1250	610	75
Horizontal	120	480	750	700	45
	220	480	750	1100	59
	300	610	860	1000	75
	500	750	1110	1300	130

Fertilizing Times

Body	Capacity	@ 0.05 bar Pressure Loss	@ 0.1 bar Pressure Loss	@ 0.2 bar Pressure Loss	@ 0.3 bar Pressure Loss
	l	hours	hours	hours	hours
Vertical	60	1.0 – 1.25	0.75 – 1.0	0.50 – 0.75	0.33 – 0.50
	90	1.75 – 2.0	1.25 – 1.50	0.75 – 1.0	0.50 – 0.75
	120	2.0 – 2.50	1.50 – 2.0	1.0 – 1.50	0.75 – 1.0
	300	5.50 – 6.50	3.75 – 4.50	2.75 – 3.25	1.50 – 1.75
Horizontal	120	2.0 – 2.50	1.50 – 2.0	1.0 – 1.50	0.75 – 1.25
	220	3.75 – 4.50	2.50 – 2.75	1.75 – 2.25	1.25 – 1.50
	300	5.50 – 6.50	3.75 – 4.50	2.75 – 3.25	1.50 – 1.75
	500	9.50 – 10.50	6.75 – 7.50	5.0 – 5.25	3.0 – 3.75



Rivulis Fertilizer Tank Product List

Fertilizer Tanks					
Product Description	Body Style	Inlet/Outlet Size		Tank Volume	Product Number
		(inch)	(mm)	(l)	
Fertilizer Tank I V I 60 l	Vertical	8	200	60	101050677
Fertilizer Tank I V I 90 l		8	200	90	101050678
Fertilizer Tank I V I 120 l		8	200	120	101062289
Fertilizer Tank I V I 220 l		8	200	220	101062294
Fertilizer Tank I V I 300 l		8	200	300	101063492
Fertilizer Tank I H I 200 l	Horizontal	8	200	220	101062291
Fertilizer Tank I H I 300 l		8	200	300	101063493
Fertilizer Tank I H I 500 l		8	200	500	101062293



Rivulis Venturi Injector

Built in check valve to protect against back flow

- All ventury injectors are available as a full assembly.
- With Rotameter, one can measure/read accurate suction of fertilizer injection rate.
- Rotameter is available in all sizes.
- Can be used with a large variety of chemicals.



Note: Pipe is not included

Rivulis Venturi Injectos Product Selection Guide

Diameter	Efficiency (P) required to Initiate suction	Motive flow through injector @ 2.5 kg/cm ²	Injection Capacity
inch	%	l/h	l/h
3/4	30	1525	40
1	25	4645	78
1 1/2	25	7425	320
2	25	7345	330
2	20	20100	450

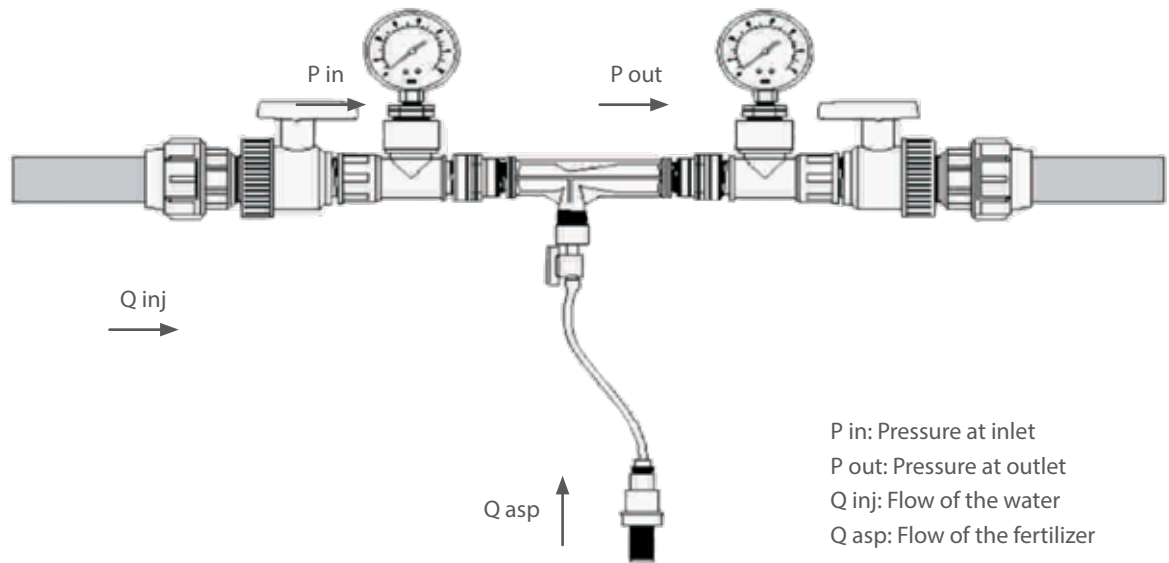
Performance Data

Pressure		3/4" Venturi Injector		1" Venturi Injector		1-1/2" Venturi Injector		2" venturi Injector (LF)		2" Venturi Injector (HF)		
Pin,	Pout,	Q inj	Q asp	Q inj	Q asp	Q inj	Q asp	Q inj	Q asp	Q inj	Q asp	
Inlet Pressure	Outlet Pressure	Motive Flow	Water Suction	Motive Flow	Water Suction	Motive Flow	Water Suction	Motive Flow	Water Suction	Motive Flow	Water Suction	
Kg/cm ²	Kg/cm ²	L/H	L/H	L/H	L/H	L/H	L/H	L/H	L/H	L/H	L/H	
0.5	0	750	170	2200	263	3238	600	6600	706	10320	1250	
0.75	0	856	188	2640	288	3902	600	7250	827	12300	1325	
1	0	983	195	3000	310	4532	613	7950	841	14400	1400	
	0.25		185				275		600		803	1275
	0.5		138				174		475		539	913
1.5	0	1195	190	3500	298	5712	600	9040	806	16800	1450	
	0.5		188				269		600		805	1350
	0.75		153				263		575		676	1225
	1		91				115		350		270	530
2	0	1356	190	4290	298	6590	600	11800	813	18900	1450	
	0.5		190				293		600		788	1450
	0.75		188				293		600		788	1325
	1		175				263		600		764	1300
	1.25		135				188		538		620	875
	1.5		48				70		213		229	473
2.5	0	1527	190	4645	310	7428	600	12830	810	20100	1450	
	0.5		190				298		600		810	1450
	0.75		190				293		600		765	1450
	1		190				293		600		719	1450
	1.25		173				293		600		698	1300
	1.5		150				249		575		626	1163
	1.75		93				130		428		366	697
	2		NS				NS		110		100	NS
3	0	1671	190	5065	310	8163	600	13300	830	22500	1450	
	1		190				310		600		798	1450
	1.25		190				310		600		798	1450
	1.5		188				293		600		763	1425
	1.75		168				264		600		739	1200
	2		115				190		563		568	950
	2.25		45				72		313		308	403
3.5	0	1783	190	5370	310	8814	600	13600	830	24300	1480	
	1		190				310		600		810	1480
	1.5		190				310		600		806	1480
	1.75		188				291		600		765	1480
	2		168				263		600		699	1425
	2.25		141				227		563		634	1125
	2.5		90				129		463		454	665
	2.75		37				58		213		199	420

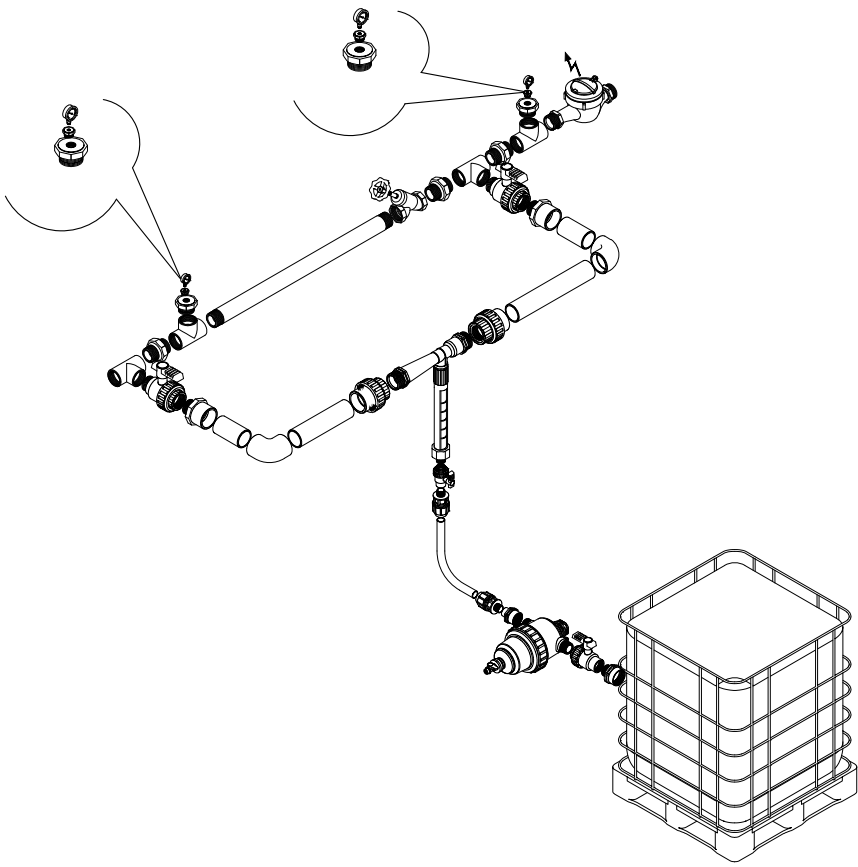
Q inj. = Flow of the water
 Q asp. = Flow of the fertilizer

Pressure		3/4" Venturi Injector		1" Venturi Injector		1-1/2" Venturi Injector		2" venturi Injector (LF)		2" Venturi Injector (HF)	
Pin,	Pout,	Q inj	Q asp	Q inj	Q asp	Q inj	Q asp	Q inj	Q asp	Q inj	Q asp
Inlet Pressure	Outlet Pressure	Motive Flow	Water Suction	Motive Flow	Water Suction	Motive Flow	Water Suction	Motive Flow	Water Suction	Motive Flow	Water Suction
Kg/cm ²	Kg/cm ²	L/H	L/H	L/H	L/H	L/H	L/H	L/H	L/H	L/H	L/H
4	0	1907	190	5720	310	9422	613	14560	810	25800	1480
	1		190		310		613		810		1480
	2		190		293		613		798		1480
	2.25		180		293		600		784		1480
	2.5		155		291		600		709		1275
	2.75		110		191		563		608		925
	3		50		95		375		347		485
	3.25		NS		NS		110		109		NS
4.5	0	2115	190	6312	310	9918	613	15400	810	26400	1480
	1		190		310		613		810		1480
	2		190		300		613		810		1480
	2.5		185		282		613		746		1450
	2.75		177		216		613		712		1350
	3		156		175		600		688		1050
	3.25		113		144		563		505		575
	3.5		53		34		250		270		410
	3.75		NS		NS		NS		NS		NS
5	0	2230	190	6590	310	10471	613	16200	810	28500	1480
	1		190		310		613		810		1480
	2		190		310		613		810		1480
	3		188		290		600		750		1375
	3.25		162		210		575		707		925
	3.5		123		192		538		636		725
	3.75		76		83		450		398		545
	4		14		NS		188		140		405
5.5	0	2340	190	6870	310	10650	613	17050	810	30000	1480
	1		190		310		613		810		1480
	2		190		310		613		809		1480
	3		185		310		600		780		1450
	3.25		180		280		600		712		1450
	3.5		173		210		550		651		1325
	3.75		147		180		480		530		1050
	4		108		144		350		407		665
	4.25		62		55		150		160		380
	4.5		NS		NS		NS		49		NS
6	0	2450	190	7080	310	10780	613	17750	810	32000	1480
	1		190		310		613		810		1480
	2		185		300		610		810		1480
	3		180		280		580		801		1480
	4		177		250		550		730		1325
	4.25		144		180		500		630		1025
	4.5		92		108		350		432		725
	4.75		36		12		180		271		425
	5		NS		NS		NS		NS		NS

Performance Data



Recommended installation with bypass option

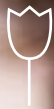


Rivulis Venturi Injector Product List

Rivulis Venturi Injector			
Product Description	Diameter	Pump Type	Product Number
Venturi Injector PP + Adaptor	3/4"	AQ 112	101048467
Venturi Injector PP + Adaptor + Rotameter + Valve	3/4"	AQ 112R	101047930
Venturi Injector PP + Adaptor	1"	AQ 113	101048469
Venturi Injector R PP + Adaptor + Rotameter + Valve	1"	AQ 113R	101048459
Venturi Injector PP + Adaptor	1 1/2"	AQ 114	101048461
Venturi Injector R PP + Adaptor + Rotameter + Valve	1 1/2"	AQ 114R	101048460
Venturi Injector PP + Adaptor	2"	AQ 115	101048462
Venturi Injector PP + Adaptor + Rotameter + Valve	2"	AQ 115R	101047931



Fertigation Equipment



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