GW-TR liquid-liquid injector performance data and applications

The GW-TR injector series is specially developed for liquid-liquid pumping and conveying.

Working Principle: The power liquid from the liquid pump or other pressure source is sprayed at high speed in the suction chamber, which produces the suction effect under the momentum exchange with the suctioned liquid, so that the secondary flow liquid can be suctioned and mixed with the power liquid in the mixing chamber, and then transported to the required position through the pressurized section.

PIC:

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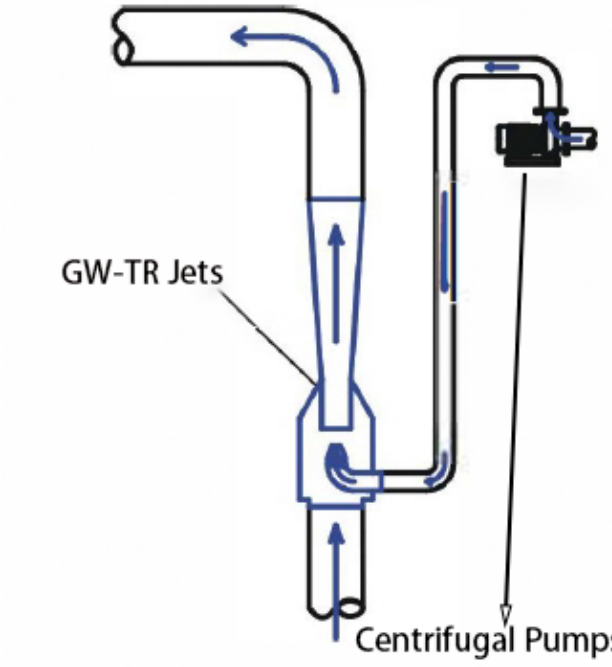
Performance Parameter Table:

kinetic pressure Barg		Jet outlet pressure barg					
		4.9	5.3	5.6	6.0	6.3	7.0
11.3	Suction volume m3/h	133	115	89	63	37	0
	Power water volume m3/h	424	418	412	408	406	401
12.7	Suction volume m3/h	131	131	131	120	94	47
	Power water volume m3/h	446	446	446	444	438	431
13.0	Suction volume m3/h	131	131	131	131	108	59
	Power water volume m3/h	452	452	452	452	447	438
13.4	Suction volume m3/h	131	131	131	131	122	72
	Power water volume m3/h	457	457	457	457	456	446
13.7	Suction volume m3/h	131	131	131	131	131	86
	Power water volume m3/h	463	463	463	463	463	454
14	Suction volume m3/h	130	130	130	130	130	99
	Power water volume m3/h	469	469	469	469	469	462

Application:

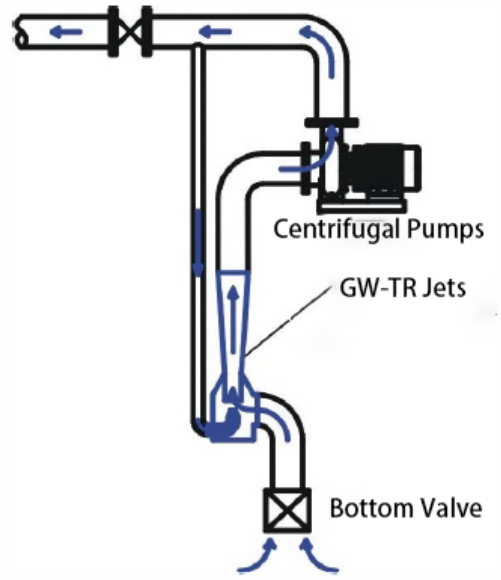
Mode 1: Suction Transport

GW-TR jets can be used to transport thousands of fluids. A pressurized power source conveys the target suction fluid through the suction force generated by the jet streamer. GW-TR can be used for urban drainage, power station catchment drainage, deep well pumping and other purposes.

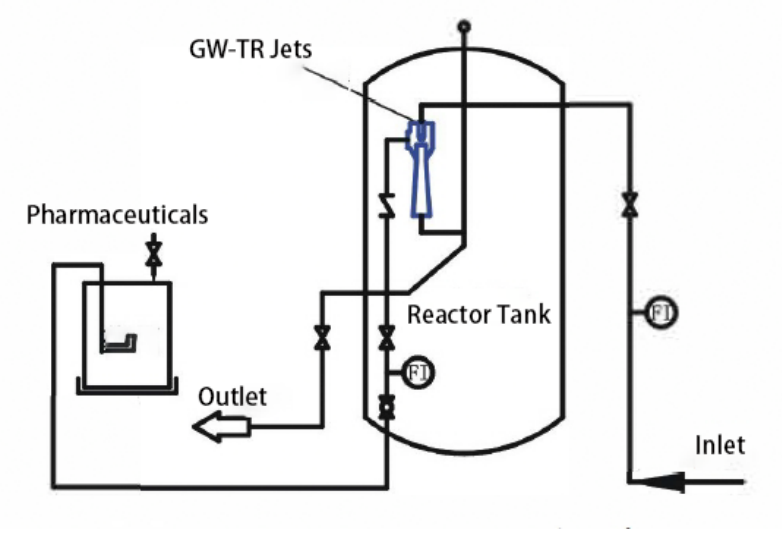


Mode 2: Increase pump suction head Adding GW-TR

Adding a GW-TR jet to the suction line of a centrifugal pump increases the suction head of the centrifugal pump by losing some of the flow. It can be used in cases where the center of the centrifugal pump has a height from the liquid surface greater than its suction head.



Mode 3: GW-TR jets pump liquids and mix them vigorously at the same time. Therefore, GW-TR jets can be used to increase the rate of chemical reactions in thousands of chemical processes.



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