

### Characteristics

When the medium leaves the propellant nozzle, it causes negative pressure inside of the injector mixing nozzle's inlet cone. In this process, the liquids are sucked in from the container, and spread evenly and homogeneously in the container in a three-dimensional manner.

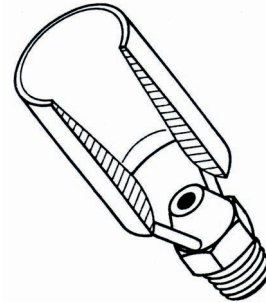
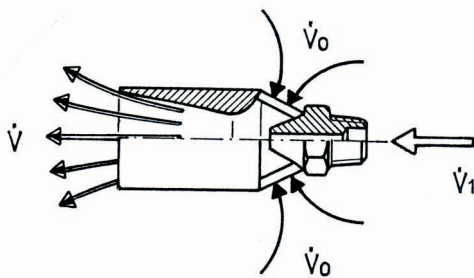
### Application

Fluid stirring and mixing,  
 Suspension stripping,  
 Keeps dissolved parts in fluids from sinking,  
 Fluid heating by means of steam,  
 Fluid aerating,  
 Feeding gases into fluids (CO<sub>2</sub>)

### Material

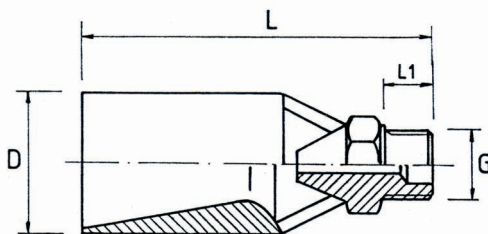
Stainless steel  
 Plastic, PP

Illu. 1 - Diagram of functions

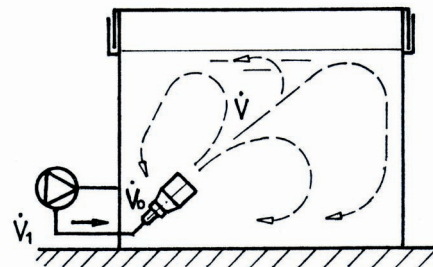


$\dot{V}_1$  = Flow rate of pump resp. saturated steam output  
 $\dot{V}_0$  = 4-fold suction effect  
 $\dot{V}$  = 5-fold outlet

Dimensions



Female thread available in stainless steel,  
 in PP available on request



Three-dimensional liquid distribution

Type Thread	Ø (mm)	Flow rate $\dot{V}_1$ (l/min.) at pressure p (bar)					Saturated steam capacity $\dot{V}_1$ in kg/h at pressure p (bar)					Compressed air capacity $\dot{V}_1$ (Nm <sup>3</sup> /h) 20° C at pressure p (bar)					Material		Dimensions in mm		
		bar 1	bar 2	bar 3	bar 4	bar 5	bar 1	bar 2	bar 3	bar 4	bar 5	bar 1	bar 2	bar 3	bar 4	bar 5	PP	VA	D	L	L1
J 3/8"	7.5	34	48	59	68	76	49	74	98	123	147	42	63	84	105	126	*	*	48	100	10
J 1/2"	8.0	45	65	80	92	100	54	81	108	135	162	69	103	138	172	207	*	*	48	100	13
J 3/4"	10.0	63	89	109	125	141	84	126	168	210	255	107	161	214	267	322	*	*	60	130	20
J 1"	11.0	80	115	140	161	180	102	153	204	255	306	130	195	260	325	390	*	*	80	140	20
J 1 1/4"	13.0	113	162	197	224	253	142	215	286	358	430	182	273	365	453	545	*	*	90	200	22
J 1 1/2"	15.0	150	220	270	310	350	190	285	380	475	570	242	364	485	605	725	*	*	106	245	22
J 2"	21.0	295	432	530	609	687	372	558	745	931	1,117	474	582	951	1,186	1,460	*	*	118	255	24
J 3"	30.0	600	878	1,077	1,238	1,396	760	1,140	1,520	1,900	2,280	968	1,456	1,940	2,420	2,900	*	*	132	300	30

Intermediate sizes available on request!

All flow rates listed are approximates depending on the container's counter-pressure. Please contact us for more information.