PLASTIC EDUCTOR NOZZLE

APPLICATION

Phosphating
Plating
Sludge
Pre-treatment
Electro Coating

FEATURES

Clog resistant
Low maintenance
Quality construction
Highly efficient operation
Lightweight

DESCRIPTION

Plastic Eductor nozzles will reduce suspended solids settling, improve circulation, maintain uniformed characteristics, mix chemicals, and help move solids along the bottom of the tank. There are two basic elements to the eductor nozzle, a discharge orifice and venturi section. The Eductor nozzles are submersed inside the tank. Motive liquid is pumped under pressure through the discharge orifice, the jet of motive liquid enters the venturi section taking additional liquid from the tank and moving it through the venturi. A discharge plume of combined motive and liquid exits the venturi and continues the mixing and agitating action for a substantial distance. This creates a multiplying effect on fluid flow. Depending on the model and operating pressure the volume of liquid discharged can be up to four to five times greater than the volume of fluid pumped. This operation reduces energy used and saves money.

MATERIALS AVAILABLE

Polypropylene
Maximum temperature limit 170° F (77° C)

ORDERING EXAMPLE

Plastic Eductor Nozzle 1/2" BSP 120

NPT or BSP Connection Size	Number	K Factor	LITERS PER MINUTE @ bar							Dimensions (mm)	
				0.7 bar	1 bar	1.5 bar	2 bar	2.5 bar	3 bar	3.5 bar	A	B
3/8 Male	73	33.2	Motive	27.8	33.2	40.7	47	52.5	57.6	62.2	54	114
			Discharge	139	166	204	235	263	288	311		
1/2 Male	120	54.3	Motive	45.4	54.3	66.5	76.7	85.8	94	101	64	140
			Discharge	227	272	333	384	429	470	508		
3/4 Male	137	62.4	Motive	52.2	62.4	76.4	88.2	98.6	108	117	73	162
			Discharge	261	312	382	441	493	540	585		
1 Male	240	109	Motive	90.8	108	133	153	172	188	203	89	191
			Discharge	454	543	665	768	858	940	1015		
1 1/2 Male	340	155	Motive	130	155	190	219	245	269	290	114	248
			Discharge	649	775	950	1095	1225	1345	1450