CLUMP

Tank Washing Nozzles

DESIGN FEATURES

- Each nozzle in the stationary cluster is a BETE clog-resistant full cone nozzle of the MaxiPass® series
- Can be supplied with various other BETE nozzles for any desired application
- Female connection

SPRAY CHARACTERISTICS

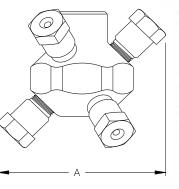
- Spherical omnidirectional coverage
- Six nozzles arranged in cluster to project spray in all directions
 Flow rates: 7.52 to 80.6 gpm

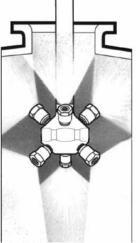
(Special flow rates available)



CLUMP Coverage Chart When spraying at 40-50 psi

Female Pipe Size	Nozzle Number	Scrubbing Diameter (ft.)	Rinsing Diameter (ft.)
	CLUMP125	4	8
3/4"	CLUMP156	4	12
	CLUMP187	6	14
	CLUMP187	6	14
1"	CLUMP218	8	14
	CLUMP250	10	16





Dimensions are approximate. Check with BETE for critical dimension applications.

Typical CLUMP installation

CLUMP Flow Rates and Dimensions

Spherical, 360° Spray Angle, 3/4" and 1" Pipe Size

Female Pipe	Nozzle	к	GALLONS PER MINUTE @ PSI 10 15 20 30 40 60 80							Minimum Entrance Opening (in.)	Weight (oz.)	
Size	Number	Factor	PSI	PSI	PSI	PSI	PSI	PSI	PSI	A A	Metal	Plas.
	CLUMP125	2.50	7.36	8.91	10.2	12.3	14.1	17.1	19.6			
3/4"	CLUMP156	3.96	11.7	14.2	16.2	19.6	22.4	27.1	31.1	4.75	36.32	4.82
	CLUMP187	5.72	16.9	20.4	23.4	28.3	32.4	39.2	44.9			
	CLUMP187	5.72	16.9	20.4	23.4	28.3	32.4	39.2	44.9			
1"	CLUMP218	9.10	26.9	32.5	37.2	45.0	51.5	62.3	71.4	5.75	69.60	9.26
	CLUMP250	10.30	30.3	36.7	42.0	50.8	58.2	70.4	80.6			

Flow Rate (GPM) = $K (PSI)^{0.47}$

Standard Materials: 316 Stainless Steel and Brass. Other materials available on request.

Spray angle performance varies with pressure. Contact BETE for specific data on critical applications.