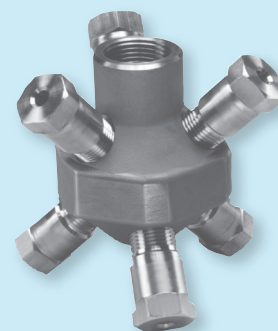


CLUMP



Stationary Tank Washing Nozzle

DESIGN FEATURES

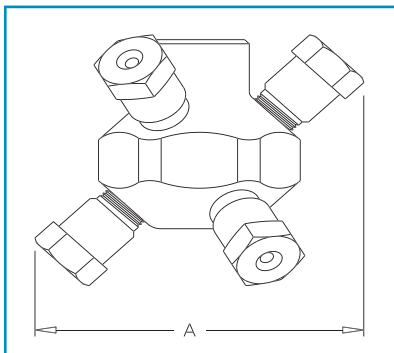
- Stationary manifold containing six BETE clog-resistant MaxiPass® nozzles
- Can be supplied with various other BETE nozzles for a variety of applications
- Female connection

SPRAY CHARACTERISTICS

- Spherical omnidirectional coverage
- Six nozzles arranged in cluster to project spray in all directions

Spray Angles: 360°, 180° upon request

Flow Rates: 28.1 to 290 l/min, for special flow rates, contact BETE



CLUMP Dimensions (mm)

Pipe Size	Overall Dia A	Wt (kg) Metal
3/4"	120	1.3
1"	146	2.0

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

CLUMP Flow Rates

Standard Materials: Brass and 316 Stainless Steel

Connections: Female, NPT or BSP

Connection Size	Nozzle Number	Spray Angle	K Factor	Flow Rate (l/min) @ Differential Pressure (bar)						Scrubbing Dia @ 3 bar	Rinsing Dia @ 3 bar
				0.7	1	2	3	4	5		
				bar	bar	bar	bar	bar	bar		
3/4"	CLUMP-125	360°	33.2	28.1	33.2	46.0	55.6	63.7	70.8	1	2
	CLUMP-156		52.7	44.6	52.7	73.2	88.2	101	112	1	4
	CLUMP-187		76.2	64.4	76.2	106	128	146	163	2	4
1"	CLUMP-187	360°	76.2	64.4	76.2	106	128	146	163	2	4
	CLUMP-218		121	103	121	168	203	232	258	2	4
	CLUMP-250		136	115	136	188	228	261	290	3	5

Flow Rate (l/min) = K (bar)^{0.47}

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

For special flow rates contact BETE.

Other materials available on request.