

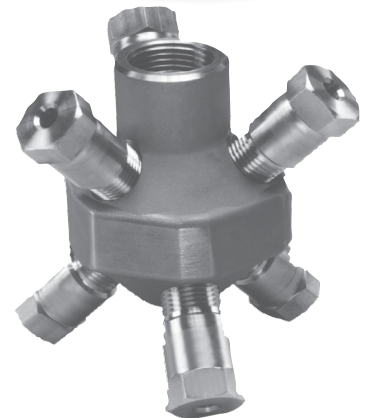
Tank Wash

DESIGN FEATURES

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

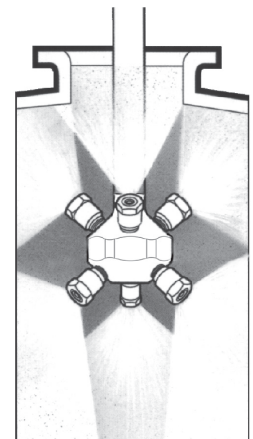
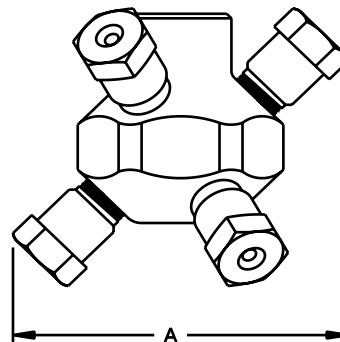
SPRAY CHARACTERISTICS

- Spherical omni-directional coverage
- Six nozzles arranged in cluster to project spray in all directions
- Flow rates: 28.1 to 290 l/min (Special flow rates available)



CLUMP- Coverage Chart When Spraying at 3 - 4 bar

Female Pipe Size	Nozzle Numbe	Scrubbing Diameter(mm)	Rinsing Diame-ter ((mm)
3/4"	CLUMP125	1200	2400
	CLUMP156	1200	3700
	CLUMP187	1800	4300
1"	CLUMP187	1800	4300
	CLUMP218	2400	4300
	CLUMP2500	3000	4900



Typical CLUMP installation

Dimensions are approximate. Check with SNP for critical dimension applications.
Spray angle performance varies with pressure. Contact us for specific data on critical applications.

Clump Flow rates and dimensions

Spherical 360° Spray Angle 3/4" and 1" BSP or NPT

Spherical 500 Spray Angle 3/4" and 1" DSI of N1											Weight	
Female Pipe Size	Female Pipe Size	K Factor	Flow Rate l/min						A (mm)	(kg) Metal	(kg) Plas	
			0.7 bar	1 bar	2 bar	3 bar	4 bar	5 bar				
3/4"	CLUMP125	33.2	28.1	33.2	46.0	55.6	63.7	70.8	120	1.29	0.22	
	CLUMP156	52.7	44.6	52.7	73.2	88.2	101	112				
	CLUMP187	76.2	65.7	76.2	106	128	146	163				
1"	CLUMP187	76.2	65.7	76.2	106	128	146	163	146	2.34	0.4	
	CLUMP218	121	103	121	168	203	232	258				
	CLUMP250	136	115	136	188	228	261	290				

Flow rate (l/min) = $K(\text{bar})^{1/2}$

Standard Materials: Brass, inox 316, PVC and PTFE

Ask our technical sales engineers about additional products and services to optimise your spraying process.

Spray Calibration Solutions

Easy-to-use, fast measurement solutions to ensure accurate nozzle installation and maintenance, reduce water wastage and identify nozzle wear.



Spray Pattern & Droplet Distribution



Nozzle Flow Calibrators



Nozzle Cleaning Kit

Complete Spray Bars

Tailored nozzle selections and spray bar designs that integrate seamlessly with your new or existing setup.

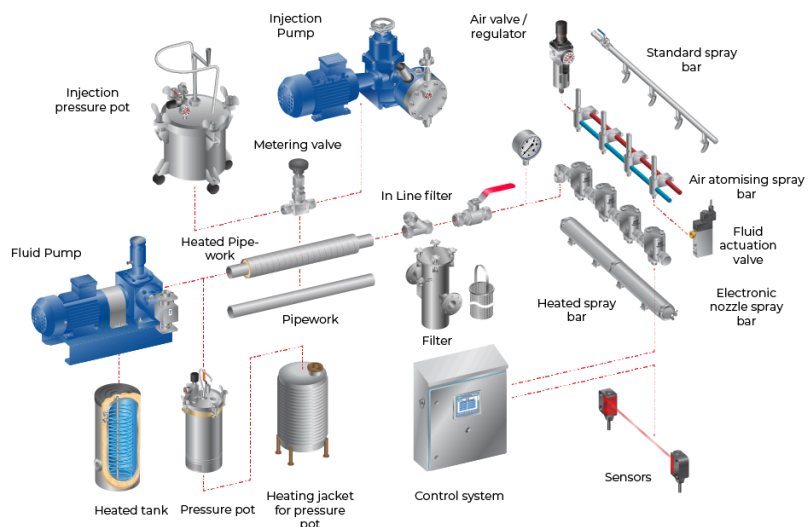
- ✓ Expert nozzle selection and placement
- ✓ Efficient spray coverage
- ✓ Fast turnaround time
- ✓ Reduced design burden
- ✓ High-quality spray bars



Complete Custom Spraying Systems

Complete spraying systems built around your goals and application.

- ✓ Tailored upstream components supplied individually or as part of complete system
- ✓ Custom pipework, pumps, tanks, sensors, valves, heating, control panels and more
- ✓ Seamless integration with existing processes
- ✓ Built to budget and ROI targets
- ✓ End-to-end support: design, install, maintain



THE GO-TO PEOPLE FOR SUCCESSFUL SPRAY ENGINEERING