

>>> At a glance

Full cone nozzles for special requirements in comparison

GENERAL INDUSTRY						
Series		419	4Fx	4H7	421	4HR
		<u>Free</u> Flow	<u>Helix</u> Flow			SMDmax
Flow rate at p = 2 bar	25 l/min–80 l/min					•
	80 l/min–400 l/min	from 249 l/min	•	from 100 l/min		•
	400 l/min–800 l/min	•	•			
	800 l/min–1,250 l/min	•	• up to 1,120 l/min		•	
	> 1,250 l/min				• up to 12,500 l/min	
Spray angle	<b>medium</b> 60°–90°	•	•		•	•
	<b>large</b> 110°-130°	•	•	•	•	•
	> 130°		•			
\$	Stainless steel	•	•	•	•	•
Nozzle material	Plastic				•	
Nozzle connection		Male thread BSPP 2, 2 1/2, 3	Male thread BSPP 3/4, 1, 1 1/2, 2	Male thread BSPP 1, 1 1/4, 1 1/2	Flange DN80, DN100, DN125, DN150, DN200, DN250, DN300	Male/Female thread BSPP/NPT 3/4, 1
Distribution			$\bigcirc$			
Free cross section		+	0	+	0	0
Droplet sizes		••	•••	••	••	
Flow to weight		+	++	++	0	0
Examples of applications		Cleaning and washing processes, dust control, sorption processes, distillation columns	General industry, flue gas desulphuriza- tion (special material), general cooling, gene- ral gas humidification	Wet desulphurization in scrubbers, gas cooling (quench), absorber technology	Surface sprinkling, Cooling and cleaning of gases, water recooling, column sprinkling, improvement	Column sprinkling with reduced carry- over of medium (e.g. vacuum distillation in the petro- chemical industry)
Exponent n		0.4	0.5	0.4	0.4	0.5

▲ ▲ = Mainly fine droplets ▲ = Mainly normal droplets

= Mainly coarse droplets