SNP | THE SPRAY NOZZLE PEOPLE

Electric HydroPulse®

Electric nozzle
Hygienic version

BETE® PERFORMANCE SPRAY ENGINEERING

EHP Hygienic

KEY APPLICATIONS

- Application of antimicrobial agents for food safety
- Application of preservatives & mould inhibitors to help extend shelf life
- Application of egg wash
- Coat bottles to minimize scuff damage
- Apply water to balance moisture loss from the freezing process
- Apply coatings & release agents to pans, cookie sheets & conveyors to prevent sticking
- Apply viscous coatings like syrups, glazes & chocolate

KEY BENEFITS

- Control a wide range of flow rates
- Guarantee an even and uniform application rate
- Reduce consumption of expensive coatings
- Reduce overspray waste & improve product quality
- Exact target coatings secure a clean & safe environment
- Promote increased production
- Reduce maintenance & downtime
- Reliable spray dosing provides an accurate calorie count
- Apply flavorings, oil & butter to enhance the appearance & improve the taste of products

Electric Hydropulse® - Hygienic Design	
Liquid inlet connection	1/8", NPT or BSPP, or 1/2" tri-clamp
Maximum liquid flow rate	3.8 LPS
Maximum rated pressure	17.2
Thermal insulation class	F (155°C/311°F)
Power	9.4W @24 VDC
Maximum cycle frequency	150 cycles/sec
Nozzle construction	Stainless steel wetted components, Food grade Viton® (FKM) seals compliant with CFR 21.1700.2600, hygienic design

Electric HydroPulse® (EHP) nozzles for hygienic applications ensure precision volumes of expensive ingredients and compounds are sprayed directly onto the processing target, with overspray waste virtually eliminated.

The EHP hygienic spray nozzles can be paired with the FlexFlow™ Precision Spray Control system which provides ultimate timing control, achieving uniform coverage even if conveyor speed is adjusted.

CALL NOW : +44 (0) 1273 400092

www.spray-nozzle.co.uk

EHP Hygienic

How they work

EHP spray nozzles do not require a compressed air source and are capable of cycling on/off up to 150 cycles per second. These features afford the option of using high-frequency cycling known as Pulse Width Modulation (PWM) to vary the liquid spray flow rate at constant supply pressure with little change in spray performance by adjusting the duty cycle. When the spray cycles at a high enough frequency, coverage uniformity is maintained because the duration between pulses of spray is short enough to ensure there are no gaps in the spray coverage. For ultimate control, use with the FlexFlow™ control system.

EHP Hygienic Nozzles flow rates
Flat Fan tips

		Litres per minute @ BAR								
Tip	K Factor	0.3	0.5	0.7	1	2	5	10	15	20
BJ0039	0.089	0.049	0.063	0.074	0.089	0.126	0.199	0.281	0.345	0.398
BJ005	0.114	0.062	0.081	0.095	0.114	0.161	0.255	0.360	0.442	0.510
BJ0067	0.153	0.084	0.108	0.128	0.153	0.216	0.342	0.484	0.593	0.684
BJ0077	0.175	0.096	0.124	0.146	0.175	0.247	0.391	0.553	0.678	0.783
BJ01	0.228	0.125	0.161	0.191	0.228	0.322	0.510	0.721	0.883	1.020
BJ0116	0.264	0.145	0.187	0.221	0.264	0.373	0.590	0.835	1.022	1.181
BJ015	0.342	0.187	0.242	0.286	0.342	0.484	0.765	1.081	1.325	1.529
BJ0154	0.351	0.192	0.248	0.294	0.351	0.496	0.785	1.110	1.359	1.570
BJ02	0.456	0.250	0.322	0.382	0.456	0.645	1.020	1.442	1.766	2.039
BJ0231	0.526	0.288	0.372	0.440	0.526	0.744	1.176	1.663	2.037	2.352
BJ03	0.684	0.375	0.484	0.572	0.684	0.967	1.529	2.163	2.649	3.059
BJ0308	0.702	0.385	0.496	0.587	0.702	0.993	1.570	2.220	2.719	3.139
BJ0385	0.877	0.480	0.620	0.734	0.877	1.240	1.961	2.773	3.397	3.922
BJ04	0.912	0.500	0.645	0.763	0.912	1.290	2.039	2.884	3.532	4.079
BJ0462	1.053	0.577	0.745	0.881	1.053	1.489	2.355	3.330	4.078	4.709
BJ05	1.139	0.624	0.805	0.953	1.139	1.611	2.547	3.602	4.411	5.094

EHP Hygienic Nozzles flow rates
Full Cone tips

		Litres per minute @ BAR							
Tip	K factor	0.5	0.7	1	2	3	5	10	17
CW25-F	0.587	0.42	0.50	0.59	0.81	0.98	1.25	1.73	2.22
CW50-F	1.17	0.84	0.99	1.17	1.62	1.96	2.49	3.45	4.43
CW75-F	1.76	1.27	1.49	1.76	2.44	2.95	3.75	5.19	6.67
CW100-F	2.35	1.70	1.99	2.35	3.26	3.94	5.01	6.94	8.90