



THE  
SPRAY NOZZLE  
PEOPLE

# Electric HydroPulse®

Electric nozzle  
Industrial version



## EHP INDUSTRIAL (EHPI)

### KEY APPLICATIONS

- ▼ Apply pMDI or LPF resin in the blender
- ▼ Apply slack wax, tallow wax or e-wax in the blender
- ▼ Add surface moisture before pressing boards
- ▼ Apply mixed release agent on mats, cauls, or press belts when using pMDI resins
- ▼ Mark nail lines on oriented strand board (OSB)

### KEY BENEFITS

- ▼ Ensure precise application and reduce waste
- ▼ Integrate tonnage or line speed to maintain uniform coverage when variables change
- ▼ Reduce the use of expensive resins, waxes, or release agents by applying the exact volume required
- ▼ Apply the optimal amount of surface moisture to increase production by decreasing time in the press
- ▼ Confidently transition to running full pMDI products with non-stick press protection
- ▼ Eliminate compressed air from most pre-press and wax operations



Electric Hydropulse® - Industrial Design

Liquid inlet connection	1/8", NPT or BSPP
Maximum liquid flow rate	3.8 LPS
Maximum rated pressure	20.7 bar
Thermal insulation class	F (155°C/311°F)
Power	10.4W @ 24VDC
Maximum cycle frequency	50 cycles/sec
Nozzle construction	Stainless steel wetted components, Viton® (FKM) seals
Interchangeable BJ, BJH and CW nozzle tip options	

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

The EHPI 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.

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[www.spray-nozzle.co.uk](http://www.spray-nozzle.co.uk)

## How they work

EHPi spray nozzles do not require a compressed air source and are capable of cycling on/off up to 50 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 Industrial Nozzles flow rates Flat Fan tips

Tip	K Factor	Litres per minute @ BAR									
		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 Industrial Nozzles flow rates Full Cone tips

Tip	K factor	Litres per minute @ BAR									
		0.5	0.7	1	2	3	5	10	20		
CW25-F	0.587	0.42	0.50	0.59	0.81	0.98	1.25	1.73	2.40		
CW50-F	1.17	0.84	0.99	1.17	1.62	1.96	2.49	3.45	4.78		
CW75-F	1.76	1.27	1.49	1.76	2.44	2.95	3.75	5.19	7.19		
CW100-F	2.35	1.70	1.99	2.35	3.26	3.94	5.01	6.94	9.61		