

# HydroPulse®

*Electrically Actuated Hydraulic Nozzles For Intermittent Spray*  
**EHP - Food Grade Design**  
**EHPI - Industrial Design**

## DESIGN FEATURES

- Interchangeable spray tips
- Electrically actuated for crisp on/off spray
- Mounting brackets available for in-series set-up
- EHP features straight through porting for in-series set-up
- High cycle rates enable digital flow control at constant pressure when paired with FlexFlow® controller

## SPRAY CHARACTERISTICS

- Precision volume sprays directly on the target
- Reduces waste and minimizes overspray to maintain a clean, safe environment
- Uniform and repeatable coverage improves product consistency



### EHP

**Liquid Inlet Connection:** 1/8" NPT or BSPP, 1/2" Tri-Clamp

**Max Liquid Flow Rate:** 3.79 l/min

**Max Rate Pressure:** 17.23 bar

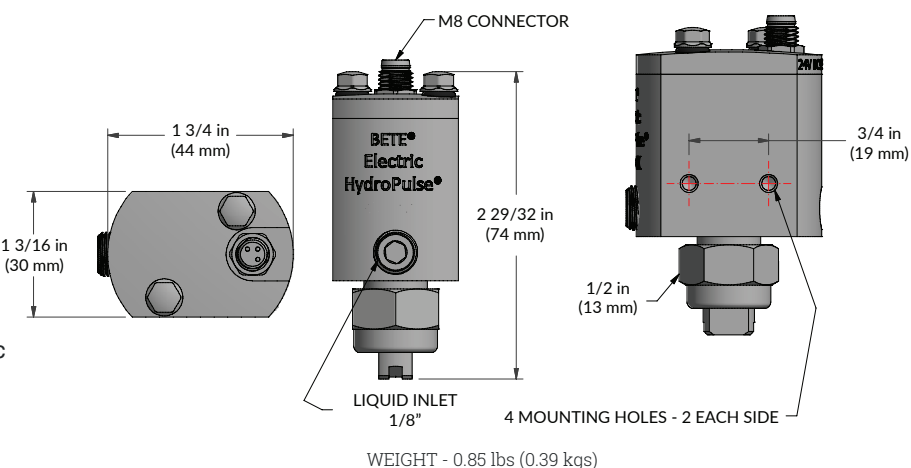
**Thermal Insulation Class:** F (155 °C)

**Power:** 9.3 W@24 VDC

**Electrical Connector:** M8 3-pin

**Max Cycle Frequency:** 150 cycles/sec

**Material:** Stainless steel wetted components, food grade Viton® (FKM) seals, hygienic design



### EHPI

**Liquid Inlet Connection:** 1/8" NPT or BSPP

**Max Liquid Flow Rate:** 3.79 l/min

**Max Rate Pressure:** 20.68 bar

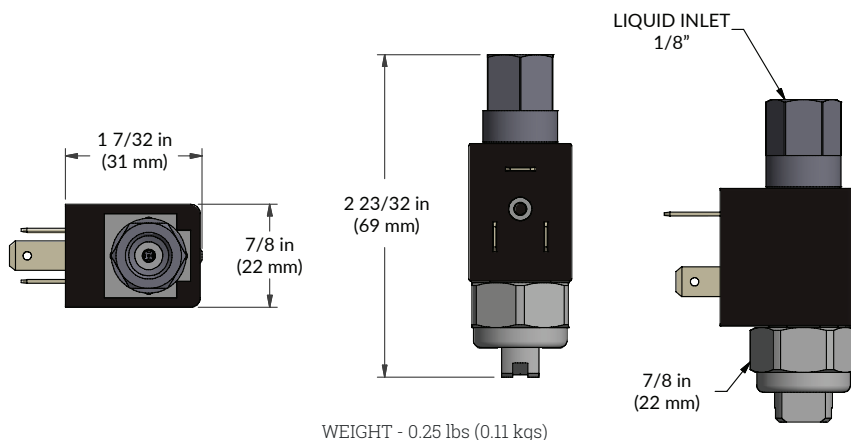
**Thermal Insulation Class:** F (155° C)

**Power:** 10.4 W@24 VDC

**Electrical Connector:** DIN 11mm

**Max Cycle Frequency:** 50 cycles/sec

**Material:** Stainless steel wetted components, Viton® (FKM) seals



AUTOMATIC

CALL 413-772-0846

Call for the name of your nearest BETE representative.

# HydroPulse®

EHP/EHPI

## BJH Flat Fan Flow Rates & Dimensions

Materials: Tungsten Carbide Insert With 303 Stainless Steel Housing

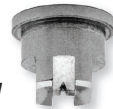


| Nozzle Number | Maximum Flow Rate (l/min) @ Differential Pressure (bar) |          |          |           |           | Available Spray Angles                                        |
|---------------|---------------------------------------------------------|----------|----------|-----------|-----------|---------------------------------------------------------------|
|               | 2<br>bar                                                | 3<br>bar | 5<br>bar | 10<br>bar | 15<br>bar |                                                               |
| BJH-0.18      |                                                         |          | 0.038    | 0.057     | 0.068     | 5°, 10°, 15°, 20°, 25°, 30°, 33°, 40°, 50°                    |
| BJH-0.28      |                                                         |          | 0.098    | 0.14      | 0.17      | 5°, 10°, 20°, 33°, 40°, 50°, 65°, 73°                         |
| BJH-0.38      |                                                         |          | 0.18     | 0.25      | 0.31      | 10°, 20°, 33°, 40°, 50°, 65°, 73°, 80°, 90°, 100°             |
| BJH-0.45      | 0.16                                                    | 0.19     | 0.25     | 0.35      | 0.42      | 10°, 20°, 33°, 40°, 50°, 65°, 73°, 80°, 90°, 100°, 110°, 120° |
| BJH-0.53      | 0.21                                                    | 0.26     | 0.33     | 0.45      | 0.57      |                                                               |
| BJH-0.66      | 0.33                                                    | 0.42     | 0.53     | 0.72      | 0.91      |                                                               |
| BJH-0.78      | 0.45                                                    | 0.57     | 0.72     | 1         | 1.2       |                                                               |
| BJH-0.89      | 0.57                                                    | 0.72     | 0.91     | 1.3       | 1.6       |                                                               |
| BJH-0.99      | 0.72                                                    | 0.87     | 1.1      | 1.6       | 2         | 20°, 33°, 40°, 50°, 65°, 73°, 80°, 90°, 100°, 110°, 120°      |
| BJH-1.14      | 0.95                                                    | 1.1      | 1.5      | 2         | 2.5       |                                                               |
| BJH-1.29      | 1.1                                                     | 1.4      | 1.8      | 2.5       | 3         |                                                               |
| BJH-1.45      | 1.4                                                     | 1.7      | 2.1      | 2.9       | 3.5       | 20°, 33°, 40°, 50°, 65°, 73°, 80°, 90°, 100°, 110°            |
| BJH-1.60      | 1.5                                                     | 1.9      | 2.3      | 3.2       | 3.8       | 20°, 33°, 40°, 50°, 65°, 73°, 80°, 90°, 100°                  |

\*Maximum flows shown above. Flow rates can be turned down to 5% of listed value using PWM (Pulse Width Modulation).

## BJ Flat Fan Flow Rates & Dimensions

Standard Materials: 303 Stainless Steel and 316 Stainless Steel



| Nozzle Number | Maximum Flow Rate (l/min) @ Differential Pressure (bar) |            |          |          |          |          |           |           | Available Spray Angles                      |
|---------------|---------------------------------------------------------|------------|----------|----------|----------|----------|-----------|-----------|---------------------------------------------|
|               | 0.3<br>bar                                              | 0.5<br>bar | 1<br>bar | 2<br>bar | 3<br>bar | 5<br>bar | 10<br>bar | 15<br>bar |                                             |
| *BJ0067       | 0.083                                                   | 0.11       | 0.15     | 0.21     | 0.26     | 0.34     | 0.49      | 0.61      | 0°, 15°, 25°, 40°, 50°, 65°                 |
| BJ01          | 0.12                                                    | 0.16       | 0.22     | 0.31     | 0.38     | 0.49     | 0.72      | 0.87      | 0°, 15°, 25°, 40°, 50°, 65°, 80°, 95°, 110° |
| BJ015         | 0.18                                                    | 0.23       | 0.33     | 0.45     | 0.57     | 0.76     | 1.1       | 1.3       |                                             |
| BJ02          | 0.23                                                    | 0.3        | 0.42     | 0.61     | 0.76     | 0.98     | 1.4       | 1.7       |                                             |
| BJ03          | 0.34                                                    | 0.45       | 0.61     | 0.87     | 1.1      | 1.4      | 2         | 2.5       |                                             |
| BJ04          | 0.42                                                    | 0.57       | 0.79     | 1.1      | 1.4      | 1.8      | 2.5       | 3.1       |                                             |
| BJ05          | 0.53                                                    | 0.68       | 0.95     | 1.3      | 1.6      | 2        | 2.9       | 3.5       |                                             |
| BJ06          | 0.61                                                    | 0.76       | 1.1      | 1.5      | 1.8      | 2.3      | 3.2       | 3.8       |                                             |

\*316 Stainless Steel not available for BJ0067

## CW Full Cone (F) & Hollow Cone (H) Flow Rates & Dimensions

Standard Materials: 303 Stainless Steel and 316 Stainless Steel



| Nozzle Number | Maximum Flow Rate (l/min) @ Differential Pressure (bar) |            |          |          |          |          |           |           | Available Spray Angles |
|---------------|---------------------------------------------------------|------------|----------|----------|----------|----------|-----------|-----------|------------------------|
|               | 0.3<br>bar                                              | 0.5<br>bar | 1<br>bar | 2<br>bar | 3<br>bar | 5<br>bar | 10<br>bar | 15<br>bar |                        |
| CW-25F        | 0.31                                                    | 0.38       | 0.53     | 0.76     | 0.91     | 1.2      | 1.7       | 2         | 80° and 120°           |
| CW-50F        | 0.53                                                    | 0.68       | 0.95     | 1.3      | 1.6      | 2        | 2.8       | 3.4       |                        |
| CW-75F        | 0.72                                                    | 0.91       | 1.2      | 1.7      | 2        | 2.6      | 3.5       |           |                        |
| CW-100F       | 0.83                                                    | 1          | 1.4      | 1.9      | 2.2      | 2.8      | 3.8       |           |                        |
| CW-25H        | 0.31                                                    | 0.38       | 0.53     | 0.76     | 0.91     | 1.2      | 1.7       | 2         |                        |
| CW-50H        | 0.53                                                    | 0.68       | 0.95     | 1.3      | 1.6      | 2        | 2.8       | 3.4       |                        |
| CW-75H        | 0.72                                                    | 0.91       | 1.2      | 1.7      | 2        | 2.6      | 3.5       |           |                        |
| CW-100H       | 0.83                                                    | 1          | 1.4      | 1.9      | 2.2      | 2.8      | 3.8       |           |                        |

\*Full cone/hollow cone patterns suitable for continuous operation only. Not recommended for use with PWM control.