

# V1 SimpliSqueeze® Valve

## Description:

Capable of dispensing liquids, gases or powders at controlled dosages, the SimpliSqueeze® elastomeric valve is ideally suited for packaging applications that require effective drip-proof, bi-directional or one-way flow control with few components or moving parts. This valve replaces multi-component ball and spring or other complex check valves & flow control valves.

## Valve Characteristics:

- **Outside Diameter:** .634" (16.1 mm)
- **Material:** Silicone
- **Valve type:** V style, rolling sleeve
- **Opening pressure:** Medium  
(low = 1"-16" (0-.58 PSI), medium = 17"-26" (.6 - .94 PSI) and high = 27" + (1 + PSI))
- **Unique Properties:** This valve offers great product cut-off and is especially well suited for larger bottles (16-30 oz.)
- **Applications:** Ideal for dispensing medium to thick products such as shampoo, body wash and condiment sauces

## Related Documents:

- **Engineering drawing:** ECA-3591 (+REV)
- **Customer drawing:** CBA-3591 (+REV)
- **Project number:** 01-106

## Valve Performance by Slit Size

| SLIT SIZE<br>inches / mm | OPEN<br>(H <sub>2</sub> O Column Height)<br>inches / mm / PSI | CLOSE<br>(H <sub>2</sub> O Column Height)<br>inches / mm / PSI | Constant Flow<br>(@ 30" of H <sub>2</sub> O)<br>ml / sec |
|--------------------------|---|--|--|
| .070 / 1.778             | 29 / 737 / 1.05   | 26 / 660 / .94   | 0.2  |
| .130 / 3.302             | 23 / 584 / .83  | 16 / 406 / .56   | 4.3  |
| .160 / 4.064             | 23 / 584 / .83  | 15 / 381 / .54   | 7.4  |
| .187 / 4.750             | 23 / 584 / .83  | 14 / 356 / .50   | 10.0   |
| .220 / 5.588             | 23 / 584 / .83  | 13 / 330 / .45   | 12.9   |
| .250 / 6.350             | 23 / 584 / .83  | 10 / 254 / .36   | 16.4   |
| .280 / 7.112             | 23 / 584 / .83  | 9 / 229 / .32  | 19.8   |
| .320 / 8.128             | 22 / 559 / .79  | 6 / 152 / .22  | 26.5   |

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