### General Characteristics

#### General Definition
Versatile, bidirectional and one-way V-Flow® custom dispensing valve can be optimized for your system to allow for effective and precise flow control and dosing. A wide range of liquid viscosities, gases or even powders can be dispensed on demand. These elastomeric dispensing valves are ideal for effective drip control and dosage dispensing.

#### Working Principle
V-Flow® is designed to activate with either manual or mechanical applied pressure or vacuum between 0.25 to 25+ psi. Air recovery occurs through the same opening. Performance temperature range is from -50°F to 400°F (-45°C to 204°C) with reliable performance.

#### Physical Characteristics
Manufacturing can be held to diameter tolerance of ± 0.08 mm (0.003 inches) and slit length tolerances of 0.08 mm (0.003 inches) maximum. In some cases, even closer tolerances are possible. Optimal dispensing accuracy can be achieved with the right material type and durometer. For this product family the typical hardness is 30 to 40 duro.

### Design and Assembly

#### Design: VA31129 & VA31800

![CAD Rendering](image1)

![Cross Section View](image2)

**Flow Direction**

#### Design: VA31772

![CAD Rendering](image3)

![Cross Section View](image4)

**Flow Direction**

### Mounting Instructions
Contact Vernay for recommended seat design to ensure proper performance.

### Available Products

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Slit Type: Cross

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**Contact**

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