

# Miniature Fluid Control Valve

**Applications:**

- Prosthetic finger
- Control high pressure flows in limited-space environments

**Advantages:**

- Can be made into very small sizes
- Easy to fabricate
- Low in cost
- Has only 3 moving parts
- No internal leakage (robust)

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**Summary:***Technology Description*

A very small control valve that is used to control flow into and out of a finger prosthesis. The valve makes use of a spring loaded poppet that covers an orifice.

*Technology Application*

To control high pressure flows in limited-space environments. The valve is fairly easy to machine and assemble and has shown good reliability. The current valve occupies about 0.22 in<sup>3</sup> volume but can be made substantially smaller.

**Stage of Development:** Bench Scale

**Patent Status:** Patent application in progress

**Licensing Status:** Available for licensing in specific fields of use