

General Purpose

Providing 2- and 3-way functions and available in miniature and sub-miniature sizes, Gems general purpose solenoid valves deliver Flow Coefficients (C_v) of .018 to .880. Select from NPT port, manifold or barbed connection types. Body materials include brass, stainless steel, acetal, aluminum, and polypropylene. Versions within this group will control operating pressure differentials up to 1000 psi (70 bar).

Gems General Purpose Solenoid Valve Series:



All Gems valves are available with a wide range of options. Our modular designs can be easily configured to your specific application. For products with specifications not shown here please contact Gems.

Isolation for High Purity or Aggressive Fluids

Available in miniature and sub-miniature sizes, these units feature a diaphragm design to isolate the media from the internal components. Diaphragm materials include Viton®, EPR, nitrile (NSF/FDA), perfluoroelastomer and EPDM. Numerous port configurations, voltage options, and coil constructions enable Gems Isolation valves to easily integrate into any complex or demanding system.



Gems Isolation Solenoid Valve Series:

Cryogenic Valves to -320° F (-196° C)

These miniature 2-way valves can be configured for liquid nitrogen, liquid carbon dioxide and other extreme temperature media. Teflon® coated plungers, 316 stainless steel guide tubes and plunger springs, encapsulated coils, and Teflon® or Rulon™ seat seals produce a truly robust cryogenic valve for applications requiring high cycle life in extreme environments.

Gems Cryogenic Solenoid Valve Series: B-Cryo and D-Cryo



Pinch Valves

By the nature of their design Gems Pinch Valves keep fluid separate from the valve operating mechanism and provide excellent temperature buffering as well. Gems pinch valves operate on as little as 2.8 Watts, with fluid pressure ranging 15 to 30 psig (1.03 to 2.07 bar), and are available with 2-way Normally Open (NO) and Normally Closed (NC), or 3-way Directional Control operation. They support tubing up to 1/4" (6.35mm) O.D..

Gems Pinch Solenoid Valve Series:

