

## 535 Series Manual Control Valves

The 535 Series manual control valves provide an economical means of controlling gas flow directly from a cylinder. These valves do not control pressure or back pressure in a system. The 535 Series manual control valves are available with a variety of connections, with or without a pressure gauge.



### Materials and Specifications

**Maximum Inlet Pressure:**

3000 psig (210 bar)

**Temperature Range:**

-65°F to 250°F (-54°C to 120°C)

**Outlet Connection:**

¼" Compression Tube

**Weight (without gauge):**

1.0 lbs. (0.45 kg)

## 533 Series Diaphragm Valves

The 533 Series diaphragm valves are ideal for use as the primary flow control in high purity or corrosive gas systems. Springless design and low wetted surface area combine to minimize particle generation and the completely swept path minimizes entrapment.

The unique design of the 533 Series allows low torque operation with gas flow in either direction. Flow control is accomplished with the multi-turn model while the ¼ turn model is quick acting and indicates on/off position.



### Materials and Specifications

**Maximum Inlet Pressure:**

3500 psig (240 bar)

**Temperature Range:**

-40°F to 140°F (-40°C to 60°C)

**Helium Leak Integrity:**

1 x 10<sup>-9</sup> scc/sec

**Bodies and Fittings:**

Brass barstock, 316L stainless steel or chrome-plated brass

**Diaphragms:** Elgiloy®**Seats:** PCTFE**Seals:** Metal to metal**C<sub>v</sub>:** 0.17

Weight: 0.66 lbs. (0.3 kg)

## 500 Series Needle Valves

The 500 Series miniature needle valves are forged from brass, 316 stainless steel, or Monel®. They are designed for fine flow control in a variety of applications in the chemical process and petroleum industries as well as laboratories and hospitals. The ground and polished stem and Teflon® packing make them suitable for controlling the flow of liquids or gases from vacuum to 3000 psig.



### Materials and Specifications

**Maximum Inlet Pressure:**

3000 psig (210 bar)

**Maximum Inlet Pressure (533-9304):**

5000 psig (345 bar)

**Temperature Range:**

-65°F to 450°F (-54°C to 232°C)

**Weight:** 0.7 lbs. (0.3 kg)