

# TECHNICAL INFORMATION

## Manual overrides

Our solenoid valves are available with one of the following types of manual overrides :

### Rotary type :

Manual override lifts the plunger by eccentric cam. It is available with the following options :

- Slot - made of Brass or Stainless steel, operated by a screw driver, up to 25 bar.
- Plastic - made of Nylon, operated by hand or screw driver, up to 12 bar.
- Knob - made of Brass or Stainless steel, operated by hand, up to 25 bar.

### Push Lock :

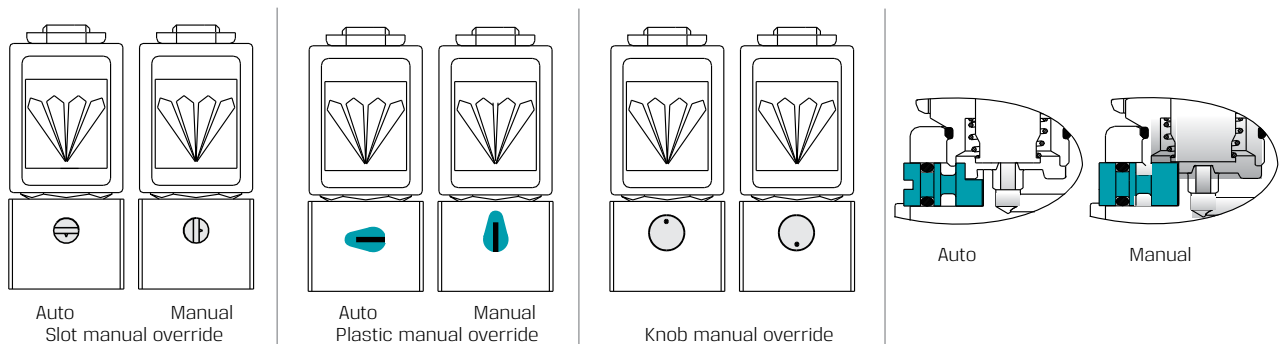
Manual override lifts the plunger when pushed in, 90° rotation locks it in "ON" position. Made of Stainless steel. Up to 12 bar.

### Push Hold :

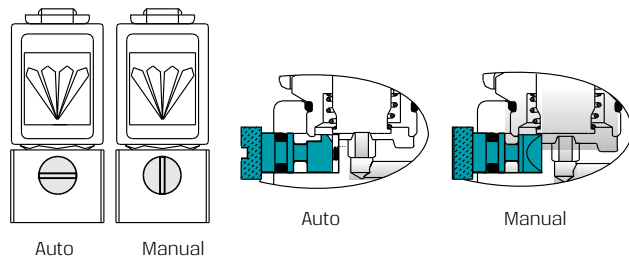
Manual override lifts the plunger when pushed in. Made of Stainless steel. Up to 12 bar.

Note: Valves used at pressure higher than 25 bar do not have manual override.

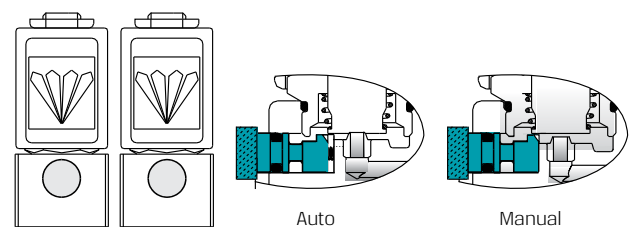
### Rotary manual override



### Push Lock manual override



### Push Hold Manual Override



## GEM-SOL Special assembly procedures

### Valves for oxygen :

All valve parts degreased to remove all oil. Valve assembled in oil free area with oil free tools and tested with clean air. All ports are plugged and the valve is placed in a sealed bag.

### Corrosion protection :

A special film of lubricant is applied to protect the internal parts of the valve from corrosion. This is highly recommended for applications where water drops can remain in the valve.

### Reduced noise valves :

Two and three way valves with bumper to reduce the noise when the solenoid is energized. These valves are for DC only.

### Silver shading ring :

Used on valves where media may attack standard copper rings, but not silver rings.

### Helium leak detector :

We can provide valves and manifolds, tested for leak rates of up to  $10^{-9}$  torr liter per min.