

# Spring Return Handle Mechatest for Swagelok Valves

## Failsafe operation

It often happens that manual operated instrumentation ball-valves are not turned in the required position after operation. Most times this means that the valve is not closed.

It can be very important (for safety reasons) that the ball-valve automatically rotates back. This can be achieved by mounting a spring return adapter on top of a manually operated ball-valve.

For this purpose, Mechatest designed two spring return adapters, one with 90° rotation for 2-way ball-valves and one with 180° rotation for 3-way ball-valves.

Spring return handles protect personnel and environment from unnecessary sample waste. The spring return handles also known as “dead mans” handles, the function in this case is always that the valve is (spring) return to closed position when the handle will be released.

The Mechatest spring return handle can directly mount to several types Swagelok valves.

## Applications

Effectively dealing with the effluent and waste from sample taps is a concern to both environmental and safety engineers at petrochemical plants. The Mechatest spring return handle guarantee failsafe operation for small instrumentation ball valves.

The spring return handle with ball-valve is the perfect solution for the most common lab sample points.

### Torque table

| Valve Series | Max. Operating Torque, in.lb (N.m, cm.kg) |
|--------------|---|
| 43           | 45 (5.1, 52)                              |
| 62           | 45 (5.1, 52)                              |
| 63           | 110 (12.5, 127)                           |
| 83           | 45 (5.1, 52)                              |

*Some non-standard Swagelok valves have higher torque, please check your valve specification.*



## Key features

- For Swagelok 2-way and 3-way ball-valves series 43, 62, 63 and 83.
- The 2-way function spring return handles can be mounted as spring-to-close or spring-to-open.
- Panel mount facility.
- Zero maintenance.
- Completely Stainless Steel.

| Model   | Spring Return Function | Swagelok Valve Serie |
|---------|------------------------|----------------------|
| VR11.42 | 2-way – 90°            | 43-serie 2-way       |
| VR11.43 | 3-way – 180°           | 43-serie 3-way       |
| VR12.42 | 2-way – 90°            | 83-serie 2-way       |
| VR12.43 | 3-way – 180°           | 83-serie 3-way       |
| VR62.2  | 2-way – 90°            | 62-serie 2-way       |
| VR63.2  | 2-way – 90°            | 63-serie 2-way       |

*The 3-way spring return handle for the 62, and 63 serie valves are not available yet (under design consideration).*