

TORQ-HANDLE® SPRING-RETURN HANDLES

The JAMESBURY® TORQ-HANDLE spring-return handles provide reliable automatic closing (or opening) of manual ball valves immediately upon release of the handle. These handles may be held in the operating position either by hand, by a cable or by a fusible link option designed to release in the event of a fire. A rugged, completely enclosed spring assures quick and automatic cycling of the valve to its designated failure position when the handle is released or the fusible link melts. An electro-thermal link option is also available, to allow the handle to be released from a remote location.

TORQ-HANDLE spring-return handles are available completely assembled and tested on 1/4" through 2" (DN 8 through 50) ball valves, or they can be furnished separately, with a hardware kit for field mounting to existing valves. They can be mounted to provide either spring-to-close or spring-to-open operation.

FEATURES

- Valves automatically close (or open) when the handle is released.
- Fusible link options are available to automatically release handle in the event of a fire or when a specific temperature is reached.
- Holes in the handle permit easy attachment of a cable or fusible link.
- Return spring is completely contained in a rugged drawn steel housing for added protection.

SPECIFICATIONS

Temperature range: -40°F to +180°F (-40°C to +82°C).

Materials of construction: steel housing, shaft, handle, and spring; self-lubricating thermoplastic bearings.

TORQ-HANDLE Sizing

There are two sizes of TORQ-HANDLE units available, TORQ-HANDLE A and TORQ-HANDLE B. To select the proper size, determine the actual torque required to operate the valve from the appropriate valve bulletin, then select the TORQ-HANDLE that will provide an output torque greater than or equal to that required. Torque outputs for both sizes are shown in the table below. Be sure to make allowances for difficult services



such as dry gases, slurries, semi-solids, or corrosive media as described in the torque sections of the valve bulletins.

Torque Output	
TORQ-HANDLE A	7.5 FT•LBS (10 N•m)
TORQ-HANDLE B	15 FT•LBS (20 N•m)

OPTIONS AND ACCESSORIES

A variety of optional equipment is available with TORQ-HANDLE spring-return handles, including limit switches, locking devices, fusible links, and electro-thermal links. FM-approved Emergency Shutoff and Firesafe Valve Assemblies are available, as described in Bulletin B132-1.

Limit Switches

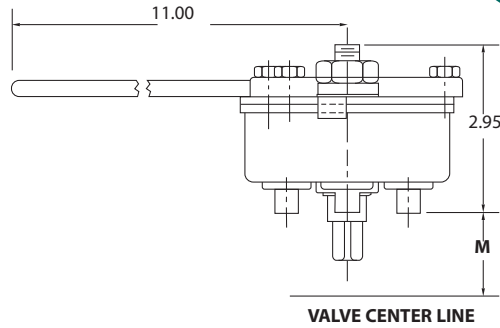
The JAMESBURY limit switches can be used for remote indication of valve position or for interlocking systems. They are available with single-pole double-throw (SPDT) or double-pole double-throw (DPDT) configurations. Refer to the STONEL® Legacy brochure for specifications on these switches.

Locking Devices

Locking devices can be supplied to padlock the handle in either the open or closed position.

Fusible Links

Self-contained fusible links are available to automatically close or open the valve in the event of a fire or excessive environmental temperature. The link holds the spring-return handle in the cocked position until a specified temperature level is reached. When it melts, the spring-activated handle is released, rotating the valve to its fail-close or fail-open position. Approximate temperature options are shown in the **Temperature Tables below**.



Type	Temp. Rating	Color Code
FL-0	165°F	None
FL-1	135°F	Black
FL-2	212°F	White
FL-3	286°F	Blue

Type	Temp. Rating	Color Code
FL-0	74°C	None
FL-1	57°C	Black
FL-2	100°C	White
FL-3	141°C	Blue

Electro-Thermal Link

The FE-1 electro-thermal link allows connection to a remote device, such as a smoke or heat detector, to initiate operation of the valve. Specifications are shown in the table below.



Type	Voltage Range	Current	Temperature Rating
FE-1	6 – 30 V DC or AC	0.2 ampere	165°F 74°C

Approximate Dimensions "CLINCHER®" – inches (mm)		
Valve Size		M
inches	DN	
1/4 – 1/2	6 – 15	2.75 (70)
3/4	20	2.75 (70)
1	25	2.84 (72)
1-1/4	30	3.15 (80)
1-1/2	40	3.38 (86)
2	50	3.84 (98)

Approximate Dimensions "ELIMINATOR™ MOD. B" – inches (mm)		
Valve Size		M
inches	DN	
1/4 – 1/2	6 – 15	2.31 (59)
3/4	20	2.31 (59)
1	25	2.36 (60)
1-1/4	30	2.36 (60)
1-1/2	40	2.36 (60)

Approximate Dimensions "A-Style Mod. D" – inches (mm)		
Valve Size		M
inches	DN	
1/4 - 1/2	6 - 15	2.31 (59)
3/4	20	2.31 (59)
1	25	2.36 (60)
1-1/4	30	2.36 (60)
1-1/2	40	2.36 (60)

Approximate Dimensions "7000 Mod. A" – inches (mm)		
Valve Size		M
inches	DN	
1/2	15	2.31 (59)
3/4	20	2.31 (59)
1	25	2.31 (59)
1-1/2	40	2.36 (60)

Approximate Dimensions "9000 Mod. A" – inches (mm)		
Valve Size		M
inches	DN	
1/2	15	2.31 (59)
3/4	20	2.31 (59)
1	25	2.36 (60)
1-1/2	40	2.36 (60)

Approximate Dimensions "4000 Mod. B" – inches (mm)				
Standard Port		Full Port		M
inches	DN	inches	DN	
1/2	15	1/2	15	2.31 (59)
3/4	20	—	—	2.31 (59)
1	25	3/4	20	2.36 (60)
1-1/4	30	1	25	2.36 (60)
1-1/2	40	1-1/4	30	2.36 (60)

For valve sizes not listed, the required torque at 0 psid exceeds the output torque of the TORQ-HANDLE.

HOW TO ORDER

To order the JAMESBURY ball valves equipped with TORQ-HANDLE spring-return handles, specify either TORQ-HANDLE A or TORQ-HANDLE B (see Torque Output Table) after the valve figure number, for example, 1/2" 7150-31-2236 TT with TORQ-HANDLE A.

Subject to change without prior notice.

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