



LoTo (Lockout-Tagout) measures are part of occupational health and safety and are used for safety during maintenance work or commissioning of process engineering systems.

M&S LoTo maintenance safety devices are adaptation options for M&S butterfly or ball valves that protect against unauthorised access or unintentional switch-on. These safety devices mechanically block the rotary movement of the valve flap and can additionally be locked by a padlock.

The M&S LoTo maintenance safety devices are available as accessories for M&S butterfly and ball valves.

### LoTo-protection at manual valve



### LoTo-protection at pneumatic valve



#### Usage

#### Features

#### Versions

- To prevent the rotation of M&S butterfly or ball valves during maintenance, repair or commissioning.
- To secure the locked butterfly or ball valves against unauthorised access.

#### Usage

#### Features

#### Versions

- For manual or pneumatically operated M&S butterfly and ball valves
  - \* Easy conversion by LoTo-handle for manually operated valves or by attachable LoTo-intermediate bracket for pneumatically operated valves;
  - \* Stable mechanical blocking of the rotary movement of the flap;
  - \* Locking option in open or closed position;
  - \* Secured in the locked position by means of a padlock;
  - \* No restrictions on adaption possibilities with further accessories;
  - \* Can be retrofitted for all M&S butterfly and ball valves.



Usage

Features

Versions

- LoTo-handle type HB04 lockable with padlock and chain. Optional with individual key or master key for additional padlocks (figure 1).

- \* Sizes

- ◇ DN 15-50 (1-2"), □ 9,5 mm, 122 mm long
- ◇ DN 65-100 (2,5-4"), □ 9,5 mm, 150 mm long
- ◇ DN 125-150 □ 14,0 mm, 216 mm long

- \* Material

- ◇ Stainless steel hand lever with plastic ball (optional with stainless steel ball).
- ◇ Cross sleeve made of impact-resistant, temperature-, acid- and alkali resistant PA plastic.

- LoTo-handle type Classic HB-ST lockable with padlock and chain. Optional with individual key or master key for additional padlocks (figure 2).

- \* Sizes

- ◇ DN 15-50 (1-2"), □ 9,5 mm, 122 mm long
- ◇ DN 65-100 (2,5-4"), □ 9,5 mm, 150 mm long
- ◇ DN 125-150 □ 14,0 mm, 216 mm long

- \* Material

- ◇ Stainless steel hand lever with plastic ball (optional with stainless steel ball).
- ◇ Stainless steel cross sleeve.

- LoTo-intermediate bracket for pneumatic butterfly- and ball valves (also leakage valves type LSV07) lockable with padlock and chain. Optional with individual key or master key for additional padlocks (figure 3).

- \* Sizes

- ◇ DN 15 - DN 200

- \* Material

- ◇ Stainless steel

- LoTo-intermediate bracketed assembled

- \* on holding bracket SV04 WW (figure 4)
- \* on holding bracket SV04 BF (figure 5)

Fig. 1



Fig. 2

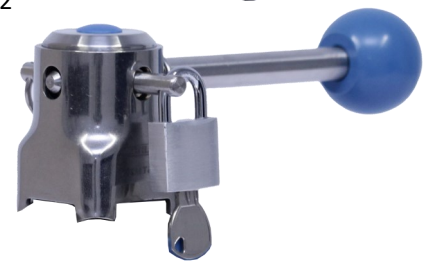


Fig. 3



Fig. 4

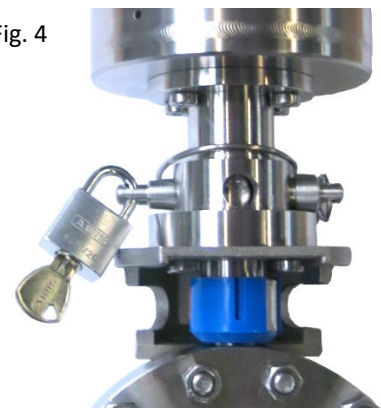


Fig. 5

