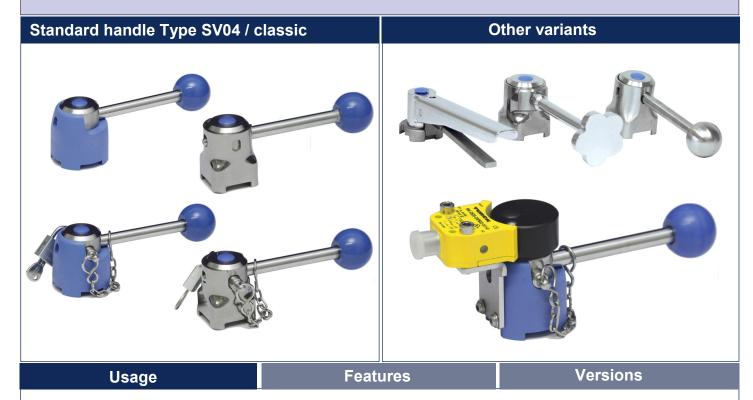
# M& Armaturen GmbH

#### **Product information**

## Handle for butterfly valves and ball valves

M&S handles are used for manual opening and closing of butterfly valves and ball valves. The standard version consists of an independently engaging hand lever (pull handle). By rotating the handle 90°, the valves can be fully opened or closed and locked in the respective end position. Adaptable inductive proximity sensors (NI's) can be used to report the switching position back to the control system.

To reduce flow rates, scissor handles with various grid positions, as well as infinitely adjustable handles are available as an alternative. Possibilities for safe locking against unauthorized operation can be integrated in most of the handles.



- manual opening from M&S butterfly valves and ball valves;
- For complete opening or reduction of the flow;
- Visual indication on the valve position via position of the switch lever.

Usage Features Versions

- Extensive programme in diffrent versions and adaptable accessories;
- Can be eqipped with one or two proximity switch (NI) or a double switch sensor for electric end position feedback to the control system (see product information end position feedback signals);
- Lockable versions for secure protection against unauthorised access;
- Standard handle type HB04 (SV04) / type HB-ST (classic)
  - Self-locking stainless steel hand lever (pull handle). Locking in end position 0° and 90°;
  - \* type HB04: Cross sleeve made of impact-resistant, temperature-, acid- and alkali-resistant PA plastic;
  - \* type HB-ST: Cross sleeve made of stainless steel;
- Scissors handle
- Sturdy stainless steel design with standard locking positions 0°, 90°, 180° and 270°;
- Stepless handle
  - Easy-to-operate stainless steel version with locking wheel for stepless positioning 0° 90°.

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### Handle for butterfly valves and ball valves

Usage Features Versions

- Standard handle (pull handle) type HB04 (Photo 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
    - Hand lever made of stainless steel with plastic ball (optionally with stainless steel ball).
    - ♦ Cross sleeve made of impact-resistant temperature, acid and alkali-resistant plastic PA.
- handle type HB04 lockable with lock and chain. Optionally with individual key or master key for further locks (photo 2).
  - Size and material
    - ♦ See standard manual handle type HB04
- Handle type HB04 with NI-retaining set (photo 3).
  - \* NI-retaining set can be retrofitted as a slip-on sleeve for all HB04 manual handles. Prepared to accept 2 proximity switches M12.

For further versions, see product information end position feedback signals.

- Size and material
  - See standard manual handle type HB04
- Standard handle (pull handle) type HB-ST (classic) (Photo 4).
  - \* 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
    - Hand lever made of stainless steel with plastic ball (optionally with stainless steel ball).
    - Oross sleeve made of stainless steel.
- handle type classic HB-ST lockable with lock and chain.
  Optionally with individual key or master key for additional locks (Photo 5).
  - \* Sizes and material
    - ♦ See standard handle type HB-ST.
- Scissor handle type HB-SG with standard detent positions 0°, 90°, 180° and 270° (optionally with additional intermediate detent positions (Photo 6).
  - ♦ DN 15-100 (1-4"), □ 9,5 mm, 145 mm long
  - ♦ DN 80-100 (2,5-4"), □ 9,5 mm, 145 mm long
  - material
    - ♦ Stainless steel
- Stepless manual handle type SL with locking wheel (Photo7).
  - \* sizes
    - ♦ DN 15-100 (1-4"), □ 9,5 mm, 135 mm long
    - ♦ DN 125-150 (1-4"), □ 14,0 mm, 233 mm long
  - material
    - ♦ Stainless steel

