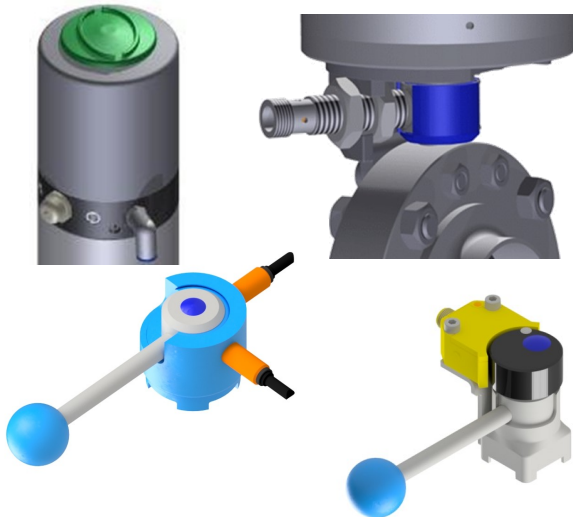




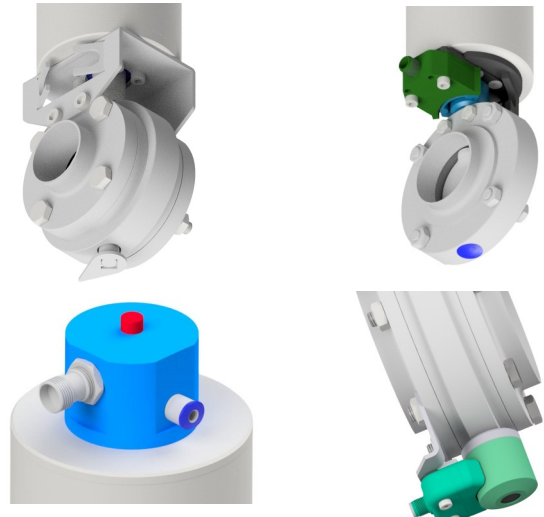
When automating systems, it is imperative that the control system knows the switching position of the integrated valves. Therefore, reaching the respective end position "open" or "closed" is reported back to the control system via a signal. Inductive proximity sensors (PS) or microswitches are usually used for this purpose. The design and position of these signal transmitters varies depending on the customer's requirements.

M&S offers several options for mounting standard or double sensors on the console or directly on the actuator, depending on customer requirements or the valve design. These signal transmitters are already integrated in the M&S feedback and control head TOP.

Standard



Other possibilities



Usage

Features

Versions

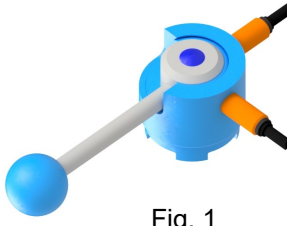
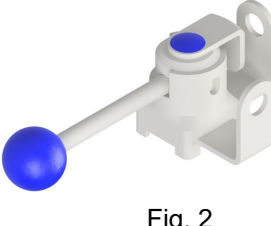
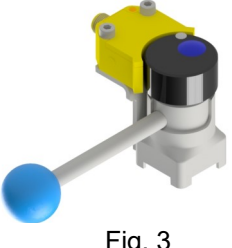
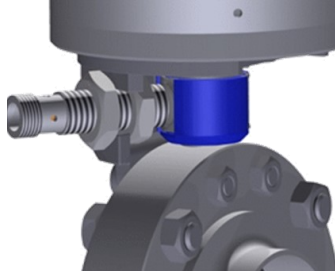
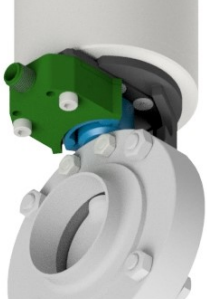
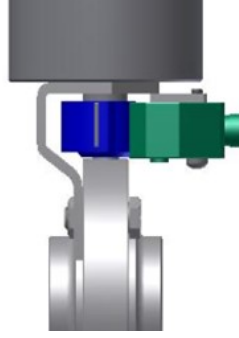
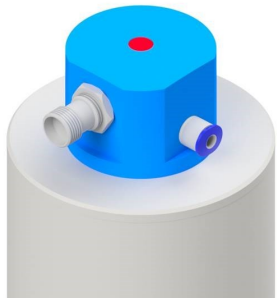

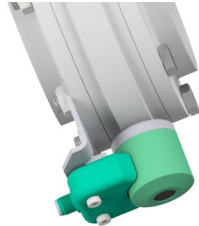


- Visual indication of the switching position.
- Electronic end position feedback to the control unit

Usage

Features

Versions

- Handle
 - * **SV04: PS holding set** to accept 2 proximity switches M12. Can be retrofitted for handle SV04 (plastic version).
 - * **SV04/Classic: Handle HB-ST** (stainless steel version) with stainless steel holding and contact plates for 1 or 2 proximity sensors M12. Permanently mounted on stainless steel cross sleeve.
 - * **Handle HB-ST** with mounted holder and contactor for double sensor.
- Bracket
 - * **Standard bracket SV04** and **Classic** prepared to accept 2 proximity sensors M12. With visual indicator to detect the switching position on the switch cap.
 - * **Holding plate** for mounting the double sensor on standard bracket SV04 or Classic.
- Position indicator on top of the actuator
 - * **Feedback and control heads TOP** (can be retrofitted to all PAMS actuators) with integrated proximity sensors and coloured LED display of the switching position. For other variants, see product information for automation of process valves.
 - * **Signal Box SB** (can be retrofitted to all PAMS actuators). With M12 threaded hole to accept 1 proximity sensor for valve "open" or "closed" feedback. With visual indication of the switching position by coloured signal pin (see product information Signal Box SB).
- Position indicator at the bottom (monitoring directly at the lower flap shaft)
 - * **Double sensor** with bracket and switch cam.
 - * **Position sensor IO-Link** (Intelligent Sensing of rotational movement) with bracket.
 - * **Visual position indicator** as extension for lower disc shaft.

Usage	Features	Versions
<ul style="list-style-type: none"> • PS holding set made of plastic. Can be retrofitted as a slip-on sleeve for all SV04 handles. Prepared to accept 2 M12 proximity sensors (figure 1). • Handle HB-ST made of stainless steel with holding and contact plates for 1 or 2 proximity sensors M12 (figure 2). • Handle HB-ST made of stainless steel with holder and contactor for double sensor (figure 3). • Holding bracket SV04 and Classic prepared to accept 2 proximity sensors M12. With marking on switch cam for visualisation of switching position (figure 4). • Holding bracket SV04 and Classic with holding plate and switch cap for double sensor (figures 5,6). • Signal Box SB (can be retrofitted to all PAMS actuators) prepared to accept 1 proximity sensor for indicating "open" or "closed". With visual indication of the switching position by the red or green signal pin (see product information Signal Box SB) (figure 7). • Feedback and control heads with integrated proximity switches and coloured LED display of the switching position (can be retrofitted, see product information feedback and control heads) (figure 8). • Holding bracket with double sensor and switch cap (can be retrofitted with special flap) (figure 9). • Display of the switching position by extension of the lower flap shaft with indicator (can be retrofitted with special flap shaft) (figure 10). • Intelligent monitoring of the rotary movement via IO-Link (figure 11). 	 <p>Fig. 1</p>  <p>Fig. 2</p>  <p>Fig. 3</p>  <p>Fig. 4</p>  <p>Fig. 5</p>  <p>Fig. 6</p>  <p>Fig. 7</p>  <p>Fig. 8</p>  <p>Fig. 9</p>  <p>Fig. 10</p>  <p>Fig. 11</p>	