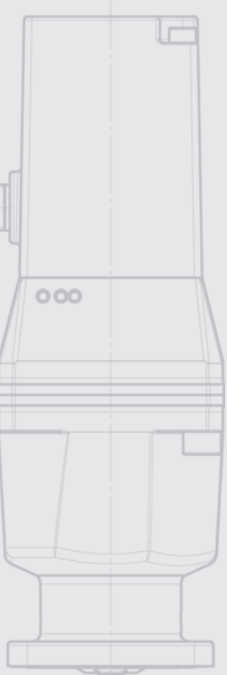


# GEMÜ 651

Diaphragm Valve with Integrated Automation Module

Product overview and technical data





**GEMÜ®**

## Integrated automation - simple, fast and reliable

Integrated automation. The new GEMÜ 651 aseptic valve is a successful symbiosis of the GEMÜ 650 diaphragm valve from the BioStar range and the proven GEMÜ 4222 combi switchbox. This new development further extends the **BioStar®** range.

The fully integrated automation module offers functions for position feedback, optical signal indication and an integrated combi switchbox. It has a micro-processor controlled intelligent position sensor as well as an analogue travel sensor system. Its teach-in function simplifies commissioning and use. It also has integrated end position control, pilot valves and integrated travel and system control. The automation module has AS-Interface capability.

The valve design was developed taking into account the guidelines and recommendations of FDA, EHEDG, GMP etc.

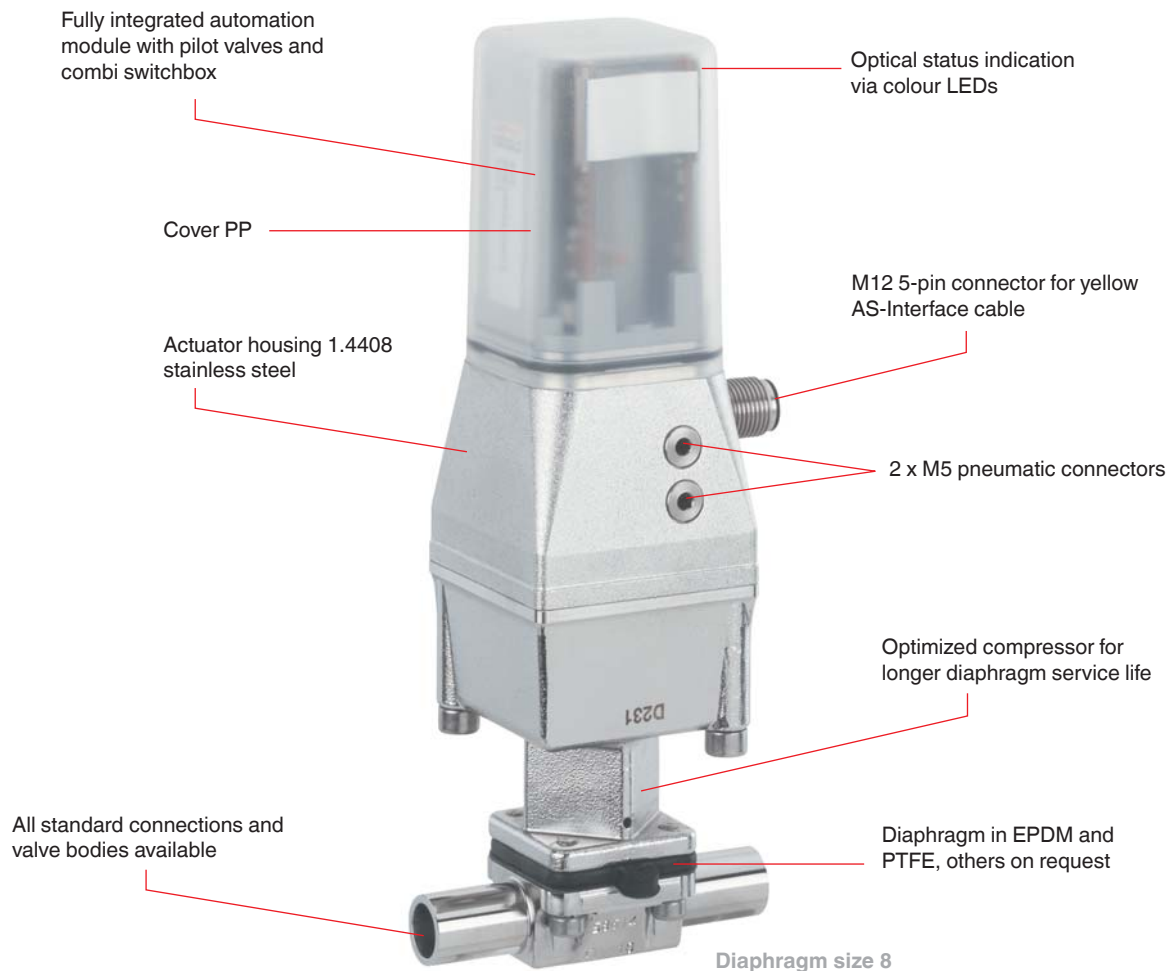


Diaphragm size 10

### Advantages

- Compact design (when space is at a premium)
- No external tubing for pneumatic actuator and combi switchbox due to internal air porting
- Reduced planning and cabling time
- CIP cleanability
- No mounting kits necessary, only one order number for the complete valve
- Easy setting of valve end positions by automatic or manual programming mode (teach-in)
- Integrated air porting
- Optional flow direction
- Optional mounting position
- Control air connectors rotated by 90° to the pipeline optional





## Technical data:

<b>Nominal sizes:</b>	DN 4 - 15 (diaphragm size 8), DN 10-15, (diaphragm size 10), DN 15 - 25 (diaphragm size 25)
<b>Valve body:</b>	Investment casting 1.4408 / 1.4435 (316L); forged body / block material 1.4435 (316L)
<b>Connections:</b>	Butt weld spigots, threaded sockets, threaded spigots, clamp connections to various standards
<b>Diaphragms:</b>	EPDM, PTFE, other seal materials on request
<b>Actuator:</b>	Pneumatic piston actuator
<b>Control functions:</b>	C.f. 1: Normally closed (NC) C.f. 2: Normally open (NO) C.f. 3: Double acting (DA)
<b>Working pressure:</b>	0-10 bar, applied upstream only, dependent on DN and diaphragm material
<b>Control pressure:</b>	4.5 - 7 bar, dependent on actuator size and control function
<b>Working temperature:</b>	max. 150°C (dependent on diaphragm material)
<b>AS-Interface spec.:</b>	3.0; 62 slaves
<b>Approvals:</b>	AS-Interface certificate no. 65202



**GEMÜ® VALVES, MEASUREMENT  
AND CONTROL SYSTEMS**

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