

LEAP INTO THE FUTURE

New product generation





01 Platform concept LEAP

Globe Valve GEMÜ S40 04

Diaphragm Valve GEMÜ D40 02

Tank bottom Valve GEMÜ P40 05

Diaphragm Valve GEMÜ D41 03

Position indicator GEMÜ 12A0 06

AGENDA





Platform concept LEAP

LEAP INTO THE FUTURE

WITH THE PRODUCT GENERATION FROM GEMÜ

A new generation of valves, precisely tailored to your needs. Experience the products of the future from GEMÜ.

Our innovative products have been designed to meet even the most specialized requirements and be used in the most demanding processes. At the same time, they are an expression of our new manufacturing strategy:

Lean. Effective. Agile. Platformized.











Product presentation

GEMÜ D40 diaphragm valve

GEMÜ D40 diaphragm valve with innovative sealing system

The high-performance valve of the future

FLEXIBLE to use
SIMPLE to handle
COMPACT to install
EFFECTIVE in processes





Product presentation

GEMÜ D40 diaphragm valve

GEMÜ D40 diaphragm valve with innovative sealing system

The pneumatically operated GEMÜ D40 diaphragm valve is designed for use in aseptic manufacturing processes. The sealing concept of the valve is based on the newly developed GEMÜ diaphragm, which also hermetically separates the actuator from the medium.





Construction

GEMÜ D40 diaphragm valve

GEMÜ AD40 actuator

- Modular linear actuator
- All actuator parts (except seals and design elements) made from stainless steel
- AG0 AG6

Valve body

- Body material: 1.4435 (316L), forged material | 1.4435 (316L), block material
 - Flow-optimized body geometry
- Up to 100% higher Kv values



GEMÜ DD00 diaphragm

- Diaphragm material: PTFE/EPDM
- New diaphragm design with bayonet pin
- MG-A MG-E



GEMÜ D40

GEMÜ D40 diaphragm valve



GEMÜ D40

Innovative diaphragm technology

+

Optimized design

MORE POWERFUL RESULT





Customer benefits and added value (1 of 2)

Diaphragm valve GEMÜ D40

Simple & fast maintenance

Time saving:

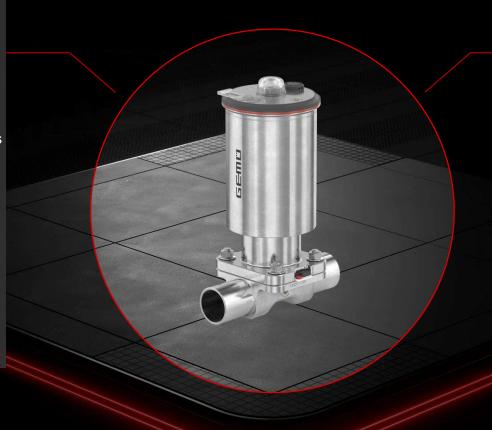
Shorter maintenance times due to innovative design with only a few and quick assembly steps

Cost reduction:

Minimized maintenance costs and downtimes enable higher system availability

Safety:

Reduced susceptibility to faults due to defined diaphragm compression and bayonet-pin diaphragm design



New membrane technology

Safety:

Increased system safety due to constant compression of the diaphragm without the need for retightening

Reliability:

Longer maintenance cycles and consistent compression increase system availability

Precision:

Improved control accuracy due to uniform Kvstroke characteristic and optimized unrolling behavior

Cost optimization:

Reduced TCO and OpEx due to low-maintenance diaphragms

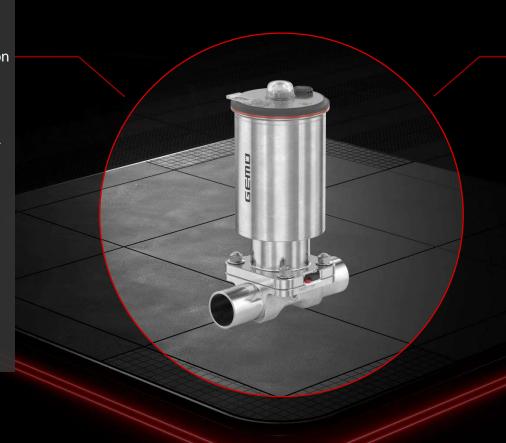


Customer benefits and added value (2 of 2)

Diaphragm valve GEMÜ D40

Optimized body design

- Energy efficiency:
 Lower energy requirement during sterilization
 - due to weight-optimized design, shorter cooling times reduce downtimes
- Gentle processing:
 - Flow-optimized design protects shear forcesensitive media and increases the yield of living cells
- Higher performance:
 - Up to 100 % higher Kv values enable more compact valve solutions
- Cost savings:
 - Use of smaller valves reduces CapEx for ASME connections



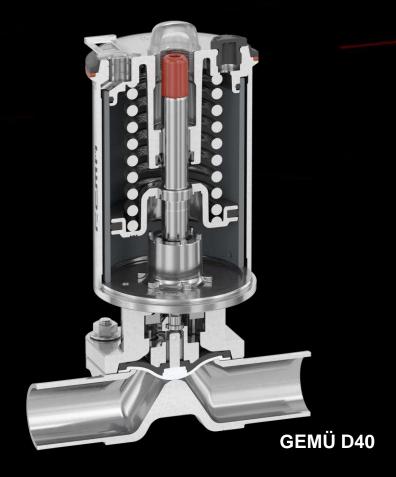
High flexibility

- Simple automation:
 - Easy handling of the automation modules during installation, commissioning and use simplifies processes and reduces operating costs
- Cost efficiency:
 - Use of smaller and cheaper actuators with reduced pressure saves investment costs (CapEx)
- Space saving:
 - Compact design enables more efficient system planning
- Extended application range:
 Ideal for demanding applications due to
 - realization of up to 16 bar operating pressure



Comparison of sealing technology

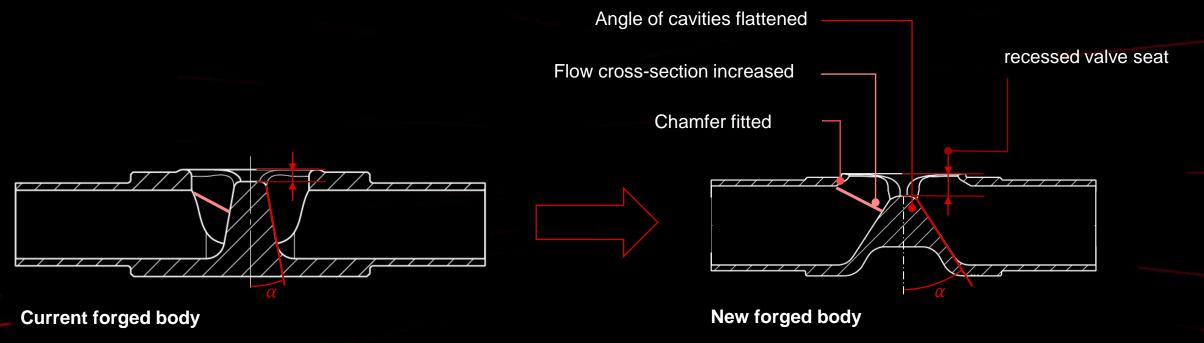






Body geometry

GEMÜ D40 diaphragm valve



Comparison of MG 50 and MG E

27 % less weight

21 % time saving when cooling down after sterilisation



Comparison of Kv values | ASME BPE

GEMÜ D40 diaphragm valve

GEMÜ 650 BioStar

Tried and tested GEMÜ diaphragm valve



VS.

GEMÜ 650				GEMÜ D40			
MG	DN	NPS	Kv value [m³/h]	MG	DN	NPS	Kv value [m³/h]
10	15	1/2 "	2.2	В	15	1/2 "	3.9
	20	3/4"	3.8		20	3/4 "	10.0
					25	1"	10.0
25	25	1"	12.2	С	25	1"	15.0

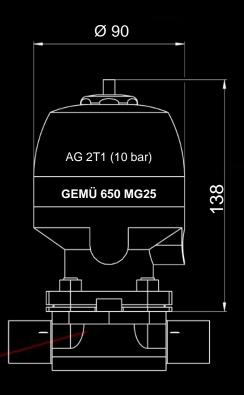
GEMÜ D40

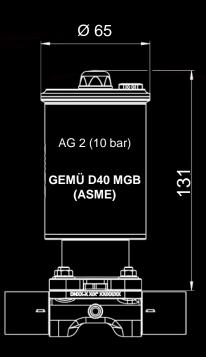
New GEMÜ diaphragm valve with optimized body geometry

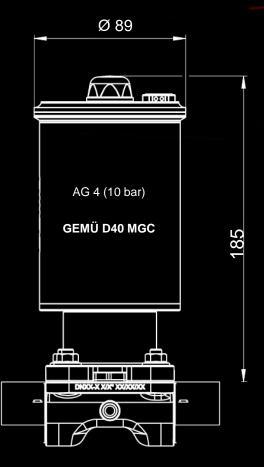




Comparison of actuator dimensions | DN 25

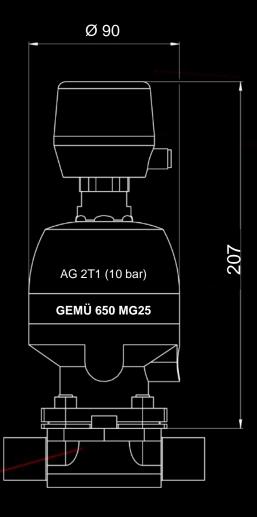




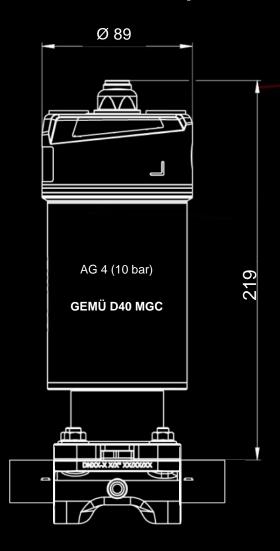




Comparison of actuator dimensions with electrical position indicators | DN25

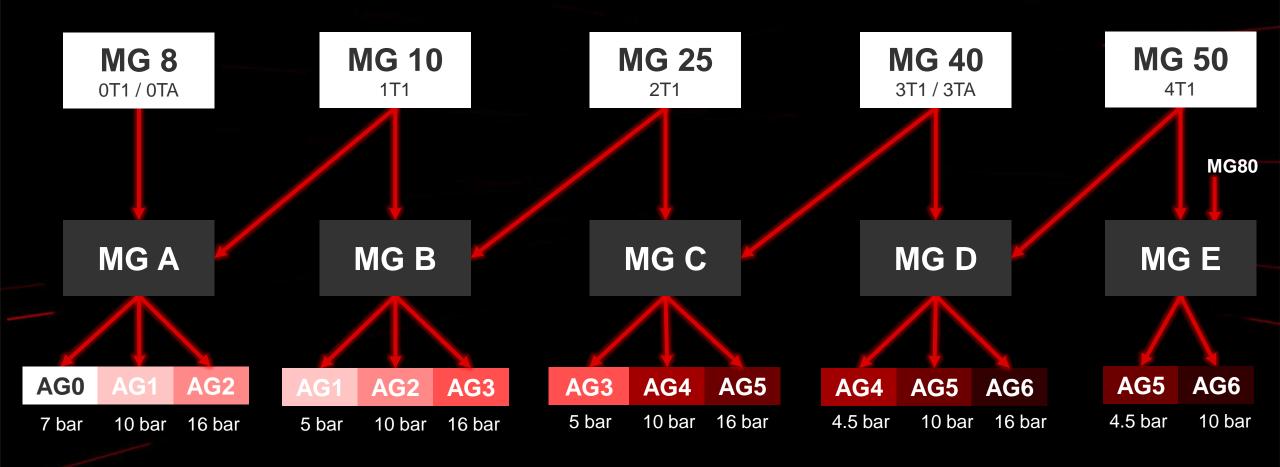








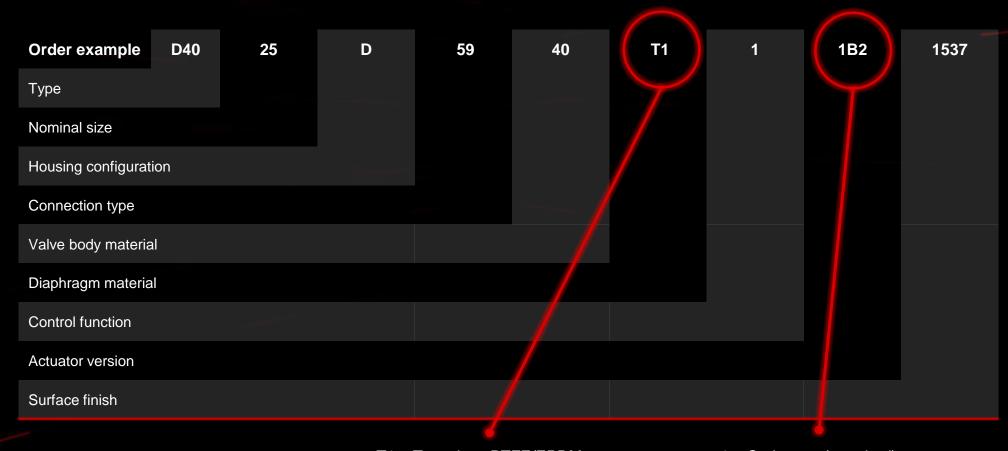
Selection options for diaphragm and actuator size





Order code

GEMÜ D40 diaphragm valve



T1 = Two-piece PTFE/EPDM

L1 = Laminated PTFE/EPDM

1 = Spring set (standard)

B = Diaphragm size

2 = Actuator size



Product features



- For use in hygienic and aseptic applications (CIP/SIP capable and autoclavable)
- Valve can be configured for the respective process parameters
- Fast, safe and simple diaphragm and actuator mounting
- Low maintenance due to the firmly chambered diaphragm, no retightening required
- Very high Kv values due to the flow-optimized valve body
- Identification of the angle of rotation (hash mark), optical position indicator and transparent cap as standard
- Simple modular expansion possible due to future-oriented automation components







Technical specifications

GEMÜ D40 diaphragm valve



Media temperature: -20 to 100 °C

Sterilization temperature: max. 150 °C

Ambient temperature: -20 to 80 °C

Operating pressure: 0 to 16 bar

Control pressure: 4 to 8 bar

Vacuum: 70 mbar (a)

Control function: NC | NO | DA

Nominal sizes: DN 6 to 65

Body configurations: 2/2-way body I T body

Connection types: Clamp I Spigot

ASME | DIN | EN | ISO Connection standards:

1.4435 (316L), forged material | 1.4435 (316L), block material Body materials:

Diaphragm materials: PTFE/EPDM

BSE/TSE | EAC | FDA | Oxygen | TA Luft (German Clean Air Act) | Conformities:

USP | Regulation (EC) No. 1935/2004 | Regulation (EC)

No. 2023/2006 | Regulation (EU) No. 10/2011



Product presentation

GEMÜ D41 diaphragm valve

GEMÜ D41 diaphragm valve with EasyLock technology

The safe valve of the future

FAST during assembly
EASY to handle
SAFE when used
EFFECTIVE in processes





Product presentation

GEMÜ D41 diaphragm valve

GEMÜ D41 diaphragm valve with EasyLock technology

The pneumatically operated GEMÜ D41 diaphragm valve is an additional version of the GEMÜ D40 diaphragm valve. All the advantages and features of this product can also be found in the GEMÜ D41. The subtle difference between the valves lies in their installation: GEMÜ D41 with EasyLock technology is installed entirely without loose components using a central gearbox.





Construction

GEMÜ D41 diaphragm valve

GEMÜ AD41 actuator

- Modular linear actuator
- All actuator parts (except seals and design elements) made from stainless steel
- AG1 AG6

- MG-A MG-E



- More reliable installation due to the central gearbox
- Even compression of the diaphragm
- No loose components

Valve body

- Body material: 1.4435 (316L), forged material | 1.4435 (316L), block material
 - Flow-optimized body geometry
- Up to 100% higher Kv values

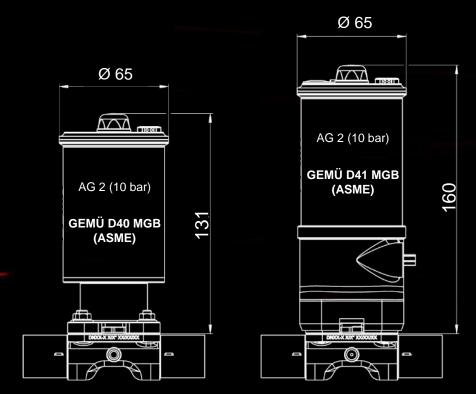




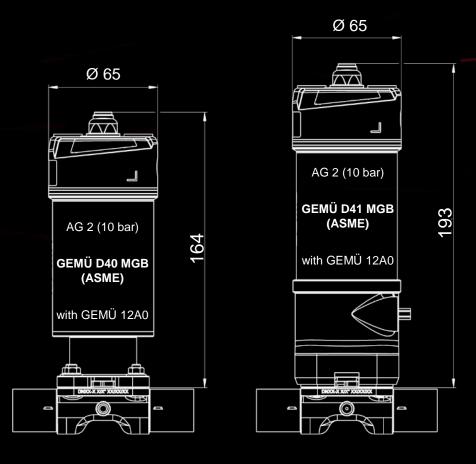
New diaphragm design with bayonet pin



Comparison of actuator dimensions | DN25



Without electrical position indicator



With electrical position indicator



GEMÜ D41

GEMÜ D41 diaphragm valve



GEMÜ D41

Easy installation & functional reliability due to EasyLock technology







Customer benefits and added value (1 of 2)

Diaphragm valve GEMÜ D41

Maintenance in seconds

Time saving:

Shorter maintenance times due to innovative EasyLock technology (quick-locking system with central gearbox, installation without loose components)

Cost reduction:

Minimized maintenance costs and downtimes enable higher system availability

Safety:

Reduced susceptibility to faults due to defined diaphragm compression and bayonet-pin diaphragm design



New membrane technology

Safety:

Increased system safety due to constant compression of the diaphragm without the need for retightening

Reliability:

Longer maintenance cycles and consistent compression increase system availability

Precision:

Improved control accuracy due to uniform Kvstroke characteristic and optimized unrolling behaviour

Cost optimization:

Reduced TCO and OpEx due to low-maintenance diaphragms



Customer benefits and added value (2 of 2)

Diaphragm valve GEMÜ D41

Optimized body design

- Energy efficiency:
 - Lower energy requirement during sterilization due to weight-optimized design, shorter cooling times reduce downtimes
- Gentle processing:
 - Flow-optimized design protects shear forcesensitive media and increases the yield of living cells
- Higher performance:
 Up to 100 % higher Kv values enable compact valve solutions



High flexibility

Simple automation:

Easy handling of the automation modules during installation, commissioning and use simplifies processes and reduces operating costs



Product introduction

Globe Valve GEMÜ S40

GEMÜ S40 globe valve in angle seat and straight seat design

The multi-variant valve of the future

EASY to handle
VISIBLE for inspection
FAST to install
EFFECTIVE in the process





Product introduction

Globe Valve GEMÜ S40

A wide variety of GEMÜ S40 globe valves

The pneumatically operated GEMÜ S40 globe valve is suitable for use in industrial applications. Wear parts can be replaced easily using standard interfaces, and the control air connectors, which are accessible from above, mean that the actuator does not need to be aligned.





Construction

Globe Valve GEMÜ S40

Spindle and adapter

- All wetted components made of stainless steel and PTFE
- Leakage hole for quick leakage detection
- Proven seat and spindle sealing concept with PTFE seals

Valve body

- Material: 1.4408 investment casting,
 1.4435 investment casting
 and EN-GJS-400-18-LT SG iron
- Functional surfaces with investment casting 1.4435 with surface qualities up to Ra ≤ 0.4µm possible
- Flow-optimized body geometry
- Straight or angled seat version availableLarge selection of connection types available



- Material: 1.4408 investment casting, 1.4435 investment casting and EN-GJS-400-18-LT SG iron
- Functional surfaces with investment casting 1.4435 with surface qualities up to Ra ≤ 0.4µm possible
- Flow-optimized body geometry
- Straight or angled seat version available
- Large selection of connection types available

Control valves available from 2025



GEMÜ S40

Customer benefits



GEMÜ S40

A versatile and durable globe valve for a wide range of applications.

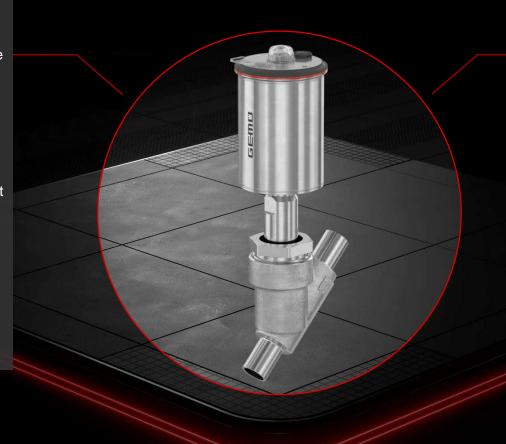


Customer benefits and added value (1 of 2)

Globe Valve GEMÜ S40

Precise drive gradation

- Variable actuator selection:
 More actuator sizes available, allowing more precise selection depending on operating data.
- Cost reduction:
 Use of smaller actuator sizes possible
- Space saving:
 Compact design enables more efficient plant planning



Durable, robust and easy to maintain

- Easy replacement of wearing parts:
 - Cost savings and sustainability through easy replacement of the sealing elements in contact with the media
- Easy component replacement:
 Shorter maintenance and downtimes throuth faster replacement of pre-assembled componets
- Cost reduction:
 Due to longer operating times and shorter maintenance times
- Effective protection:
 Optical postion indicator with transparent cap
 to prevent the ingress of dust and dirt

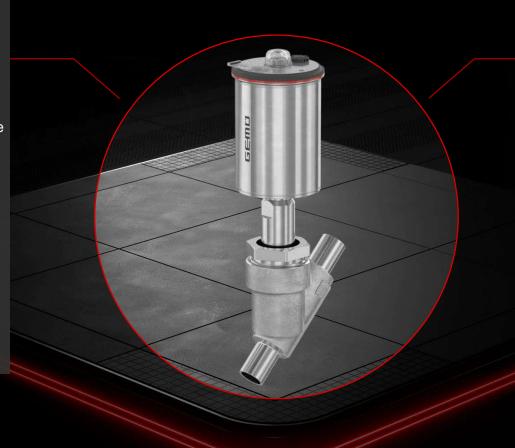


Customer benefits and added value (2 of 2)

Globe Valve GEMÜ S40

Compatible

- Reverse congruent:
 Existing valve bodies in the plant can be equipped with the new actuator technology
- Expandability:
 Easy mounting of additional components due to standardised interface
- Cost /variant reduction:
 Standardised add-on modules can be used for the entire product generation
- Variable actuator selection:
 Different actuator technologies adaptable to the same valve bodies for best fulfilment of the requirements



Ideal solution for control applications

- Optimal control chracteristics:
 Process optimization through better sliding properties due to the plastic piston liner
- Standardised interfaces:
 Quick and easy setting up of innovative automation modules
- Process flexibility:
 Various control characteristics adapted to the individual process available
- Cost savings:
 Due to optimized process, low wear and lower process costs





Sectional model view

Globe Valve GEMÜ S40

Interface of the automation modules

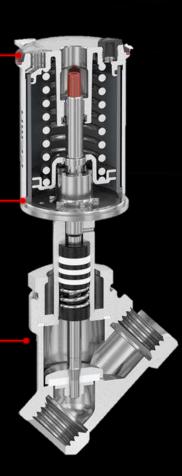
- Simple construction of electrical position indicators and controllers
- Control air connectors accessible on one side

Piston liner made from PPS

- Internal air supply
- Improved sliding properties of the piston

Standardized interfaces

- Simple replacement of wear parts thanks to the modular construction
- Replacement of actuators
- Compatible with current valve bodies

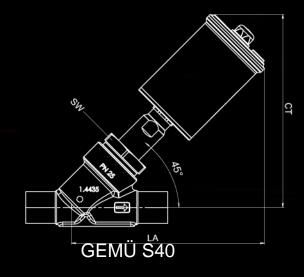


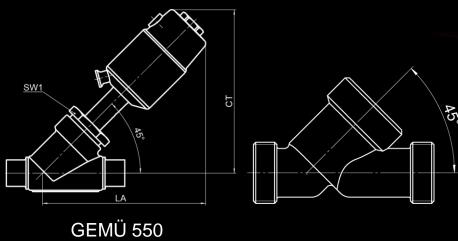


Dimensions comparison

Installation dimensions angled seat globe version S40 vs. 550

	Actuato	r size 1	Actuato	r size 2	Actuato	or size 3
CT/LA in mm	GEMÜ S40	GEMÜ 550	GEMÜ S40	GEMÜ 550	GEMÜ S40	GEMÜ 550
DN 8		134,0		171,0		
DN 10	138,0	134,0	155,0	171,0	160,5	
DN 15	142,0	137,0	158,5	174,0	163,6	
DN 20	146,5	143,0	164,0	180,0	196,5	198,0
DN 25	151,3		168,2	184,0	173,3	202,0
DN 32			175,7	192,0	180,7	210,0
DN 40				187,0	186,4	215,0
DN 50					194,7	223,0







GEMÜ S40

Actuator size comparison GEMÜ 550 vs. GEMÜ S40



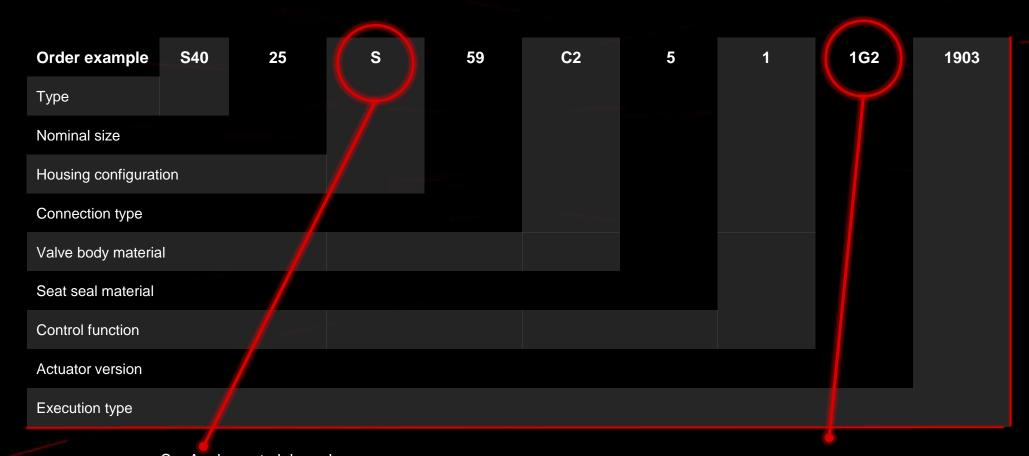
GEMÜ 550	GEMÜ S40		
1G1		1G1	
-		1G2	
2G1		1G3	
3G1		1G4	
4G1		1G5	
5G1		1G6	

- More variation options to be able to respond better to customer requirements
- We will be happy to support you with the conversion from GEMÜ 550 or GEMÜ 530 to the GEMÜ S40 and help you with the actuator selection.



Order code

Globe Valve GEMÜ S40



S = Angle seat globe valve

G = Straight seat globe valve

1 = Spring set (standard)

G = Flow direction under the seat

2 = Actuator size



Features

Globe Valve GEMÜ S40



- Suitable as a shut-off function for gaseous, liquid and viscous media
- Robust stainless steel actuator resistant to corrosive ambient conditions
- No alignment of the actuator needed as the control air connectors are at the top
- Replaceable medium wetted sealing components
- Transparent cap and optical position indicator as standard
- Suitable for vacuum up to 10 mbar (a) as standard







Technical data & facts

Globe Valve GEMÜ S40



Media temperature: -10 to 185 °C

Ambient temperature: -10 to 80 °C

Operating pressure: 0 to 40 bar

Nominal sizes: DN 8 to 50

Body configurations: Straight seat | Angle seat

Connection standards: ANSI | ASME | BS | DIN | EN | ISO | JIS | NPT |

SMS

Connection types: Clamp | Flange | Threaded connection | Spigot

Body materials: 1.4408 investment casting material | 1.4435

investment casting material | 1.4435 block

material | EN-GJS-400-18-LT SG iron material

Seat seal material: PTFE

Conformities: ATEX | FDA | Regulation (EC) No. 1935/2004 |

Regulation (EC) No. 2023/2006 | Regulation

(EU) No. 10/2011



Product introduction

Tank bottom valve GEMÜ P40

Tank bottom valve GEMÜ P40 with PD-technology

The efficient valve of the future

FLEXIBLE in use RELIABLE in use SAFE in process OPTIMAL in design





Product introduction

Tank bottom valve GEMÜ P40

Tank bottom valve GEMÜ P40 with PD-technology

The pneumatically actuated GEMÜ P40 PD tank bottom valve is designed for use in sterile applications. The sealing concept of the valve is based on the GEMÜ PD technology consisting of a radial sealing PTFE diaphragm, whereby the actuator is hermetically separated from the medium.





Construction

Tank bottom valve GEMÜ P40

Valve body

- Body material: 1.4435 (316L), block material
- Draining optimized design of the valve body
- Four connection variants



Seat seal material: PTFE

Plug Diaphragm (PD)

- Specially developed and patented PD
- Seat sizes G, J, M, P,

Actuator GEMÜ AP40

- Modular linear actuator
- All actuator parts are made from stainless steel (except the seals and design elements)
- Actuator sizes: AG2, AG3, AG5, AG6





GEMÜ P40

Tank bottom valve GEMÜ P40



GEMÜ P40

Maximum efficiency & safety in your application



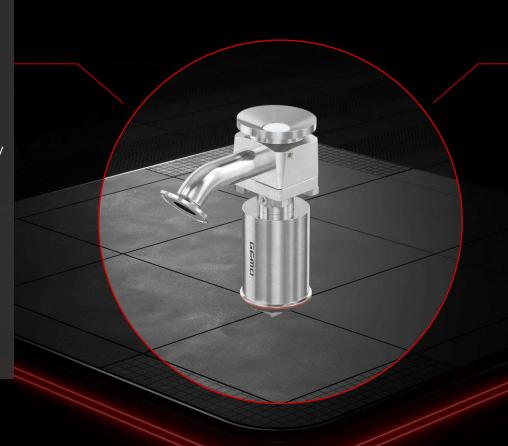


Customer benefits and added value (1 of 2)

Tank bottom valve GEMÜ P40

Process-safe design

- Product safety:
 - Homogeneous mixing of the product by avoiding sediment deposits at the bottom of the tank due to the optimized design
- Residue-free operation:
 Optimized drainage design of the valve body and PD minimizes the risk of contamination and promotes efficient product discharge
- Hygienic safety:
 PD design enables good cleanability regardless of the valve position



Innovative sealing concept

- Reliability:
 - Low-maintenance valve operation due to the patented PD developed specifically for tank bottom valves
- Time saving:
 - No time-consuming retightening of the valve required due to the dynamic sealing concept
- Cost optimization:
 - Reduced TCO and OpEx due to lowmaintenance and design-optimized sealing concept

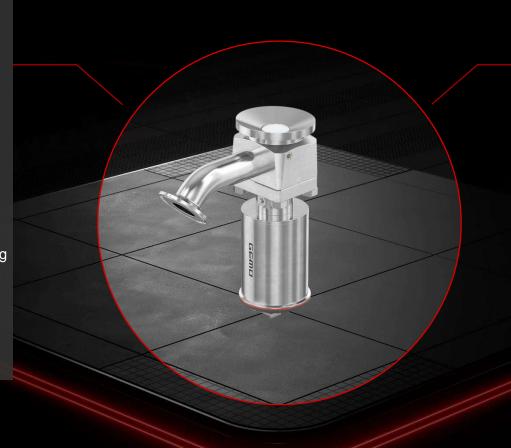


Customer benefits and added value (2 of 2)

Tank bottom valve GEMÜ P40

Flexible interfaces

- Simple system integration:
 Wide range of pipe adaptation options
 ensure uncomplicated integration into
 existing system structures
- Simple automation:
 Easy handling of the automation modules during installation, commissioning and use simplifies processes and reduces operating costs
- Individual adaptation:
 Application-specific configurations depending on the application and operating parameters guarantee optimum function and maximum efficiency



Convenient assembly

Time saving:

Shorter maintenance times and downtimes due to proven screw connection concept with only 4 nuts

Cost reduction:

Minimized maintenance and downtime costs due to fast system availability

Safety:

Reduced susceptibility to faults during maintenance and installation due to a defined stop and simple replacement of the fastening elements if necessary



Special features of the construction

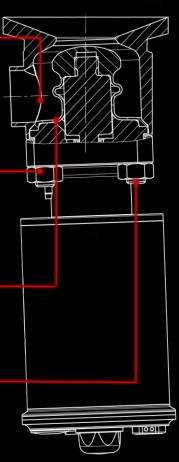
Tank bottom valve GEMÜ P40

Draining optimized design of the valve body (with integrated slopw)

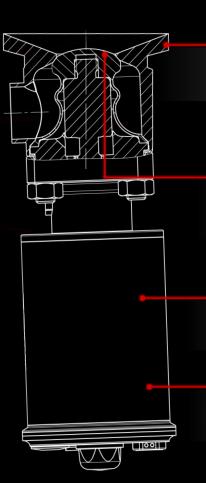
Reliable screw connection concept (simple replacement of the fastening elements)

Draining optimized design of the PD (without hold-up volume in open and in closed position)

Simple actuator mounting on block (no retightening required)



Open position



Compact construction of the valve body

Optimized construction of the tank-side (to avoid possible sediment settling)

CIP/SIP-capable and autoclavable

All outer surfaces Ra ≤ 0.8 µm (valve body and actuator)

Closed position



Connection types

Tank bottom valve GEMÜ P40



Possible connection types

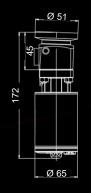
spigot with clamp bend, spigot without adaption, spigot with pipe, spigot with pipe bend (suitable for orbital welding)

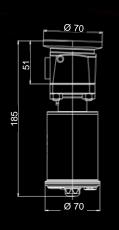


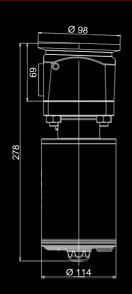
Dimensions

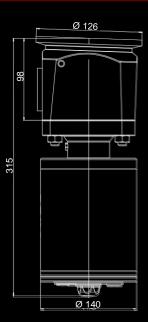
Tank bottom valve GEMÜ P40

GEMÜ P40							
Seat size	G	J	М	Р			
Actuator size	2	3	5	6			
Nominal size*	DN 06 - DN 20	DN 15 - DN 25	DN 25 - DN 40	DN 40 - DN 65			









^{*}Allocation of nominal diameter to seat size depending on pipe standard



Comparison

Tank bottom valve GEMÜ P40

GEMÜ P40

New GEM tank bottom valve with PD-technology













GEMÜ 650 BAV

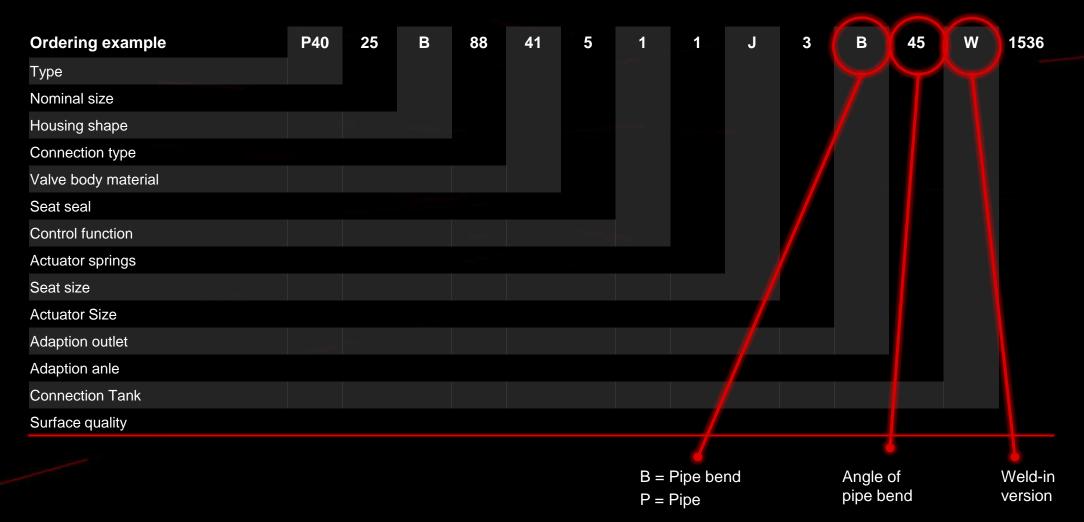
Proven GEMÜ tank bottom valve with diaphragm as sealing technology





Order code

Tank bottom valve GEMÜ P40





Features

Tank bottom valve GEMÜ P40



- Suitable for use in hygienic and aseptic processes (CIP/SIP-capable and autoclavable)
- Quick, safe and easy actuator installation
- Low maintenance thanks to PD sealing technology, no retightening required
- Draining-optimized design of the PD and compact design of the valve body
- Converging design of the tank-side to prevent potential sediment deposits
- Visual position indicator and sight glass as standard
- Simple modular expansion possible with future-oriented automation components
- Vacuum-compatible up to 70 mbar (a) as standard







Technical specifications

Tank bottom valve GEMÜ P40



Media temperature: -20 to 160 °C

Ambient temperature: -20 to 80 °C

System pressure: 0 to 6 bar

Control pressure: 5 to 8 bar

Vacuum: 70mbar (a)

Control function:NC | NO | DA

Nominal sizes: DN 15 to 65

Body configurations: Tank bottom valve body

Connection types: Clamp I Pipe bend I spigot

Connection standards: ASME | DIN | EN | ISO | SMS

Body materials: 1.4435 (316L), block material

Seat seal materials: PTFE

Conformities: 3A I ATEX I FDA I USP I VO (EG) Nr.

1935/2004 I VO (EG) Nr. 2023/2006 I

VO (EU) Nr. 10/2011



Product introduction

GEMÜ 12A0 position indicator

Position indicator GEMÜ 12A0

The intelligent position indicator

DIGITAL networking
AUTOMATED in use
ELECTRICAL control
INTELLIGENT process management





Product introduction

Position indicator GEMÜ 12A0

Position indicator GEMÜ 12A0

As an automation module, the GEMÜ 12A0 electrical position indicator is compatible with all pneumatically operated process valves with linear actuator of the new platform generation, regardless of actuator size and control function.

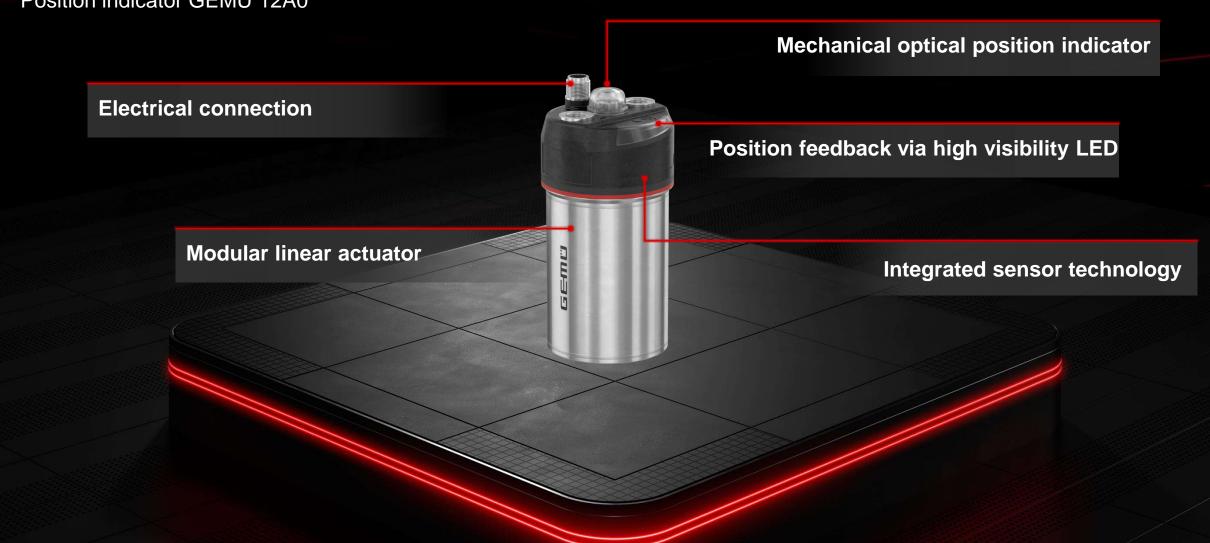


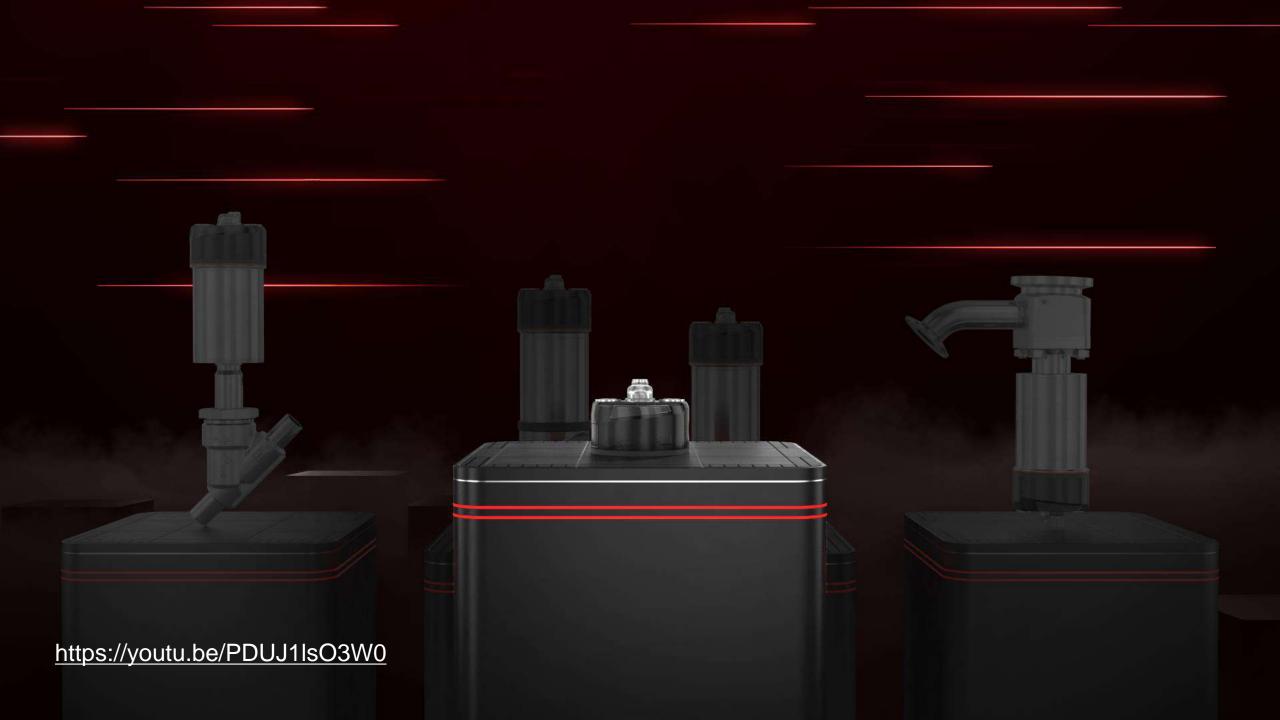




Construction

Position indicator GEMÜ 12A0







Customer benefits and added values (1 of 2)

Position indicator GEMÜ 12A0

Compact and robust design

- Space-saving: Space-optimised and efficient plant planning due to compact device dimensions.
- Optimised cleaning:
 Easier cleaning and guaranteed hygienic conditions due to low dead space design and integrated control air duct.
- Increased product life:
 Guaranteed fail-safe operation due to robust design and wear-free, non-contact position detection.
- Improved plant aesthetics:
 Attractive, professional and high-quality appearance due to integrated mounting parts and high-quality surfaces.



Intuitive operating concept

Clear valve status:
 Clear valve status due to mechanical position indicator and electronic status and position

indicator.

- Simple on-site operation:

 The GEMÜ App enables parameterisation and error diagnostics directly on the device.
- Accessible documentation:
 The GEMÜ App makes it possible to retrieve required documents such as data sheets and operating instructions directly on site.
- Efficient plant connection: Seamless integration into system control due to standardized, modern IO-Link and ASi-5 communication interfaces.



Customer benefits and added values (2 of 2)

Position indicator GEMÜ 12A0

Simple installation, commissioning and maintenance

- Reduced assembly time:
 Fast and reliable assembly due to standardised mounting parts without a specific mounting kit.
- Fast and reliable commissioning: Self-initialisation function ensures fast and reliable commissioning without special product know-how.
- Fast error analysis:
 Simple error detection due to recommended actions in the GEMÜ App.
- Increased process reliability:
 No re-initialisation required due to automatic readjustment of the end positions.



Condition Monitoring

- Increased process reliability and cost efficiency:
 - Avoidance of plant downtimes due to integrated sensor technology as the basis for predictive maintenance.
- Reduction of maintenance cycles:
 Optimisation of maintenance cycles through predictive maintenance planning.
- Increased product life:
 Increased product life by detecting anomalies that can lead to defects in the position transmitter and valve.
- Reduction in device diversity:

 Reduction in additional, external sensors due to

compact sensor integration in the position indicator.



Portfolio integration

Position indicator GEMÜ 12A0

GEMÜ 12A0



BG 2 + Adapter



BG 2

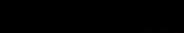


BG 3















AG 4 AG 5



AG 6







AG 2 AG 3



AG 1





Valve adaption GEMÜ D40

13.01.2025

GEMÜ D41 GEMÜ P40

GEMÜ S40



Sensors

Position indicator GEMÜ 12A0

Control pressure sensor

- Monitors: Compressed air supply for the actuator
- Benefits: Quickly performs diagnostics as to whether there is sufficient compressed air and how high the pressure is
- Advantage: Warning if the pressure is too high or too low – ensures the plant's stability

Acceleration sensor

- Monitors: Installation position of the device
- **Benefits:** Verification that the installation position is correct and detects changes or deviations
- Advantage: Ensures the specified angle of rotation for self-draining, early detection of loose joints to the piping

Acceleration sensor

- Monitors: Vibrations and movements in all three axes
- Benefits: Performs diagnostics of vibrations or water hammers
- Advantage: Optimization of the plant by analyzing the motion data

Temperature sensor

- Monitors: Internal temperature of the housing
- Benefits: Prevention of overheating by internal or external causes
- Advantage: Protection against overheating and icing, and premature fault detection.



Sensors

Position indicator GEMÜ 12A0

Sensor for internal pressure in the body

- Monitors: Ambient pressure in the body
- Benefits: Detects internal leaks, e.g. during air porting
- Advantage: Early warning of leaks that could lead to failures

Voltage monitor

- Monitors: Supply voltage
- **Benefits:** Ensure that the device is correctly supplied with power (24 V ± 10%)
- Advantage: Avoidance of operational interruptions due to voltage issues

Current sensor

- Monitors: Current consumption
- **Benefits:** Detection of electrical faults due to increased current consumption
- Advantage: Early detection of component faults to prevent failures

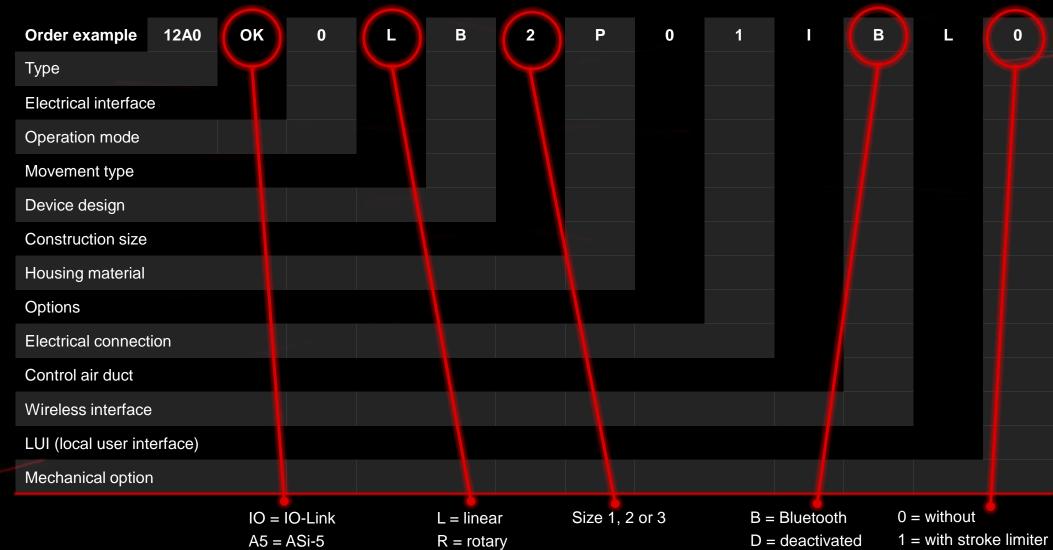
Air humidity sensor

- **Monitors:** Air pressure in the body
- **Benefits:** Prevention of damage due to condensation or moisture ingress
- Advantage: Early detection of the ingress of moisture due to the body not being closed correctly or damaged



Order code

Position indicator GEMÜ 12A0





Product features

Position indicator GEMÜ 12A0



- IO-Link and ASi-5 communication and parameterisation interface
- Self-initialisation function through autonomous end position detection
- Condition monitoring through integrated sensors
- Local configuration and status diagnostics via GEMÜ App
- Contactless and wear-free position detection via Hall sensors
- Electrical and mechanical position indicator and extended diagnostic message
 via high visibility LED
- Standardized mounting kit with integrated pilot air duct and pilot pressure detection







Technical data of size 2

Position indicator GEMÜ 12A0





Ambient temperature: -20 to 60 °C

Supply voltage:
 24 V DC / according to ASi bus voltage

Electrical connection: 5pin M12

Protection class: IP 65, IP 67, NEMA4X

Communication: IO-Link inkl. SIO-Modus (24V), ASi-5,

Bluetooth

Planned conformities: ATEX (Zone 2) | IECEx (Zone 2) |

NEC (C1D2) | UL

Compatible actuators: Linear actuators | part-turn actuators

Compatible mode: Single-acting | double-acting

Control pressure: max. 10 bar





LEAP INTO THE FUTURE

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