

Applications

- Filling processes in hygienic and aseptic plants in the pharmaceutical, biotechnology, food and beverage industries
- All types of media for filling machines (vacuum, liquid, gaseous)
- · Suitable for media containing oil and fat

Features

- High Kv values through innovative sealing geometry
- Simple and fast servicing thanks to cartridge spare parts system
- Resistant sealing from modified PTFE (TFM[™]) no retightening required
- High number of switching cycles (over 10 million) with freely programmable fill speed



Pneumatically operated filling valve GEMÜ F40

Description

The 2/2-way filling valve GEMÜ F40 is designed for filling processes in aseptic and hygienic areas of application. The "Normally closed" and "Normally open" control functions are available.

Actuator features

- · Compact design due to control air connector at the top
- Stroke limiter, positioner and position indicator optionally available
- · Control pressure 6 bar
- · ATEX version optionally available
- · Only one assembly tool required

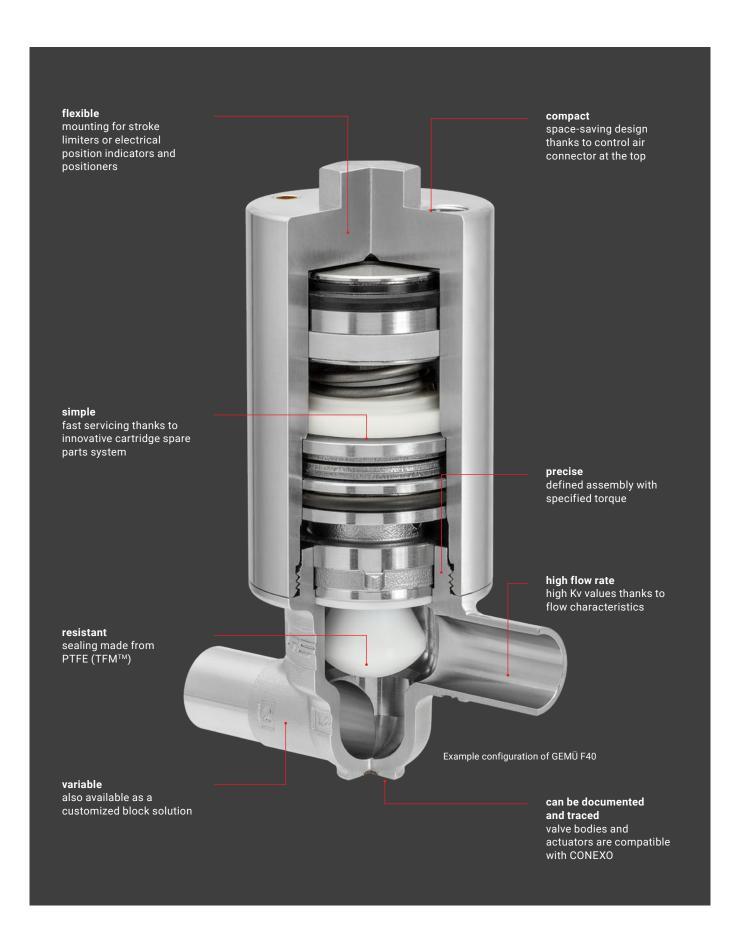
Application examples

- · Filling of liquid and viscous media
- · Pre-evacuation, gas injection, inert gas injection overlay
- Offers washing functions for the removal of broken glass in filling systems
- Filling pressure control
- Duration and cycle programs for sanitizing the filling machine
- · Filling of fibrous or pulp containing media
- · CIP/SIP and autoclavable processes





Construction



Technical information

Technical specifications

· Nominal sizes:

DN 8 to 25

· Connection types:

Butt weld spigots, clamps

· Body materials:

Stainless steel 1.4435/316L (investment casting), 1.4435/316L (block material)

· Surface finish:

Ra \leq 0.8 μ m (investment casting);

Ra ≤ 0.4 µm, electropolished (block material)

· Seal materials:

Modified PTFE (TFM™)

Operating pressure*:

0 to 7 bar

· Approvals:

FDA, USP Class VI

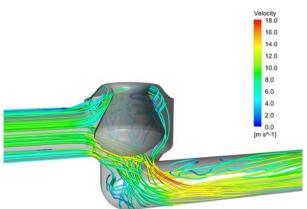
Servicing - fast and simple

- · Quick-lock connector system
- · Innovative cartridge spare parts system
- · No retightening of the seal

PD Technology

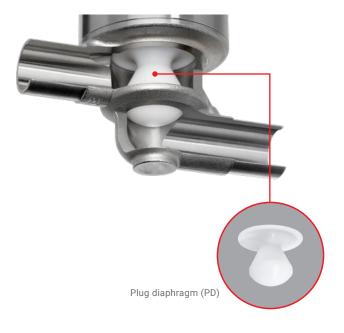
- Unique sealing concept with highly resistant plug PTFE diaphragms (TFM™)
- Hermetic separation of the actuator from the medium flow
- Significantly reduced deadleg in comparison with bellows
- · Effective cleanability
- Won the ACHEMA Innovation Award 2018 in the "Valves/seals" category





Flow animation





 $^{^{\}star}$ Depending on version and/or operating parameters

Motorized filling valve GEMÜ F60 servoDrive

Description

The motorized 2/2-way filling valve GEMÜ F60 servoDrive is designed for extremely precise and fast filling processes in aseptic and hygienic areas of application. The valve enables activation in real-time, ultra-quick load cycles and high flow rates.

Actuator features

- Actuator speeds of up to 200 mm/s can be implemented
- Extremely high positioning accuracy (approx. \pm 20 μ m), at a repeatability of up to \pm 10 μ m
- Freely programmable filling speeds over the filling time for adaptation to diverse media, container geometries, etc.
- · Maximum flexibility since any fill curves can be realized
- · Can be used for positioning and process control
- · Can be integrated into bus and control environments
- · Stainless steel version in IP69K

Application examples

- · Filling of fibrous or pulp containing media
- · Filling of medicines using a linear filler
- · Aseptic filling in cleanrooms and isolators





