Compensates for changes in pressure and volume
The GEMÜ 652 pulsation damper

Areas of application

- Water hammer
- Pressure surges
- Change in volume due to temperature fluctuations

Features

- Pre-defined compensation volume
- Defined pressure range
- CIP/SIP capable
- Autoclave capability, depending on version
- Suitable for inert and corrosive liquid and gaseous media
- Valve bodies and diaphragms available in various materials and designs
- Compact design (ideal when space is at a premium)

Description

The GEMÜ 652 pulsation damper is designed for use with liquid and gaseous media in sterile areas of application. In many production plants, unwanted pressure surges arise which are generated by switching on pumps or quickly switching valves, for example. In addition, pressure surges may cause unwanted momentary opening of shut-off valves, thus contaminating media. Likewise, an increased pressure may arise in the medium pipe due to thermal expansion of the medium. This can cause damage to plant components such as filters, sensors or piping. As a solution to this, GEMÜ has developed the pulsation damper GEMÜ 652, which is based on proven diaphragm valve technology and is designed so that it releases a volume in a particular pre-defined pressure surge area, and consequently absorbs and compensates for the pressure surge. The valve body is open in-line with flow direction, and not intended to shut off the medium.

Technical data

- **Media temperature:**
  -10 to 100 °C
- **Sterilization temperature:**
  Max. 150 °C
- **Ambient temperature:**
  0 to 60 °C
- **Operating pressure:**
  0 to 10 bar
- **Nominal sizes:**
  DN 15 to 80
- **Body configuration:**
  2/2-way body | Others on request
- **Connection types:**
  Spigots | Others on request
- **Connection standards:**
  ANSI | ASME | BS | DIN | EN | ISO | JIS | SMS
- **Body materials:**
  1.4435 (316L), forged material | 1.4435 (BN2), forged material | 1.4539 (904L), forged material | others on request
- **Diaphragm materials:**
  EPDM | PTFE/EPDM
- **Conformities:**
  BSE/TSE | EAC | FDA | USP | Regulation (EC) No. 1935/2004 | Regulation (EC) No. 2023/2006 | Regulation (EC) No. 10/2011
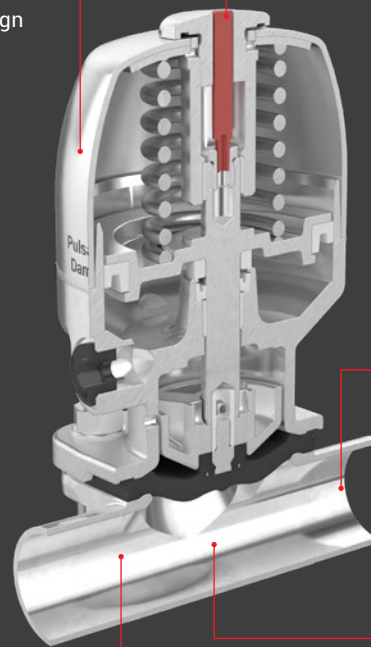
Technical data dependent on the respective configuration – see datasheet.

Tried and tested
Reliable actuator design

Versatile
Various add-on components can be fitted

Universal
Multitude of connection types available

Aseptic
Sterilization temperature max. 150 °C

Free
No shut off of the medium

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