



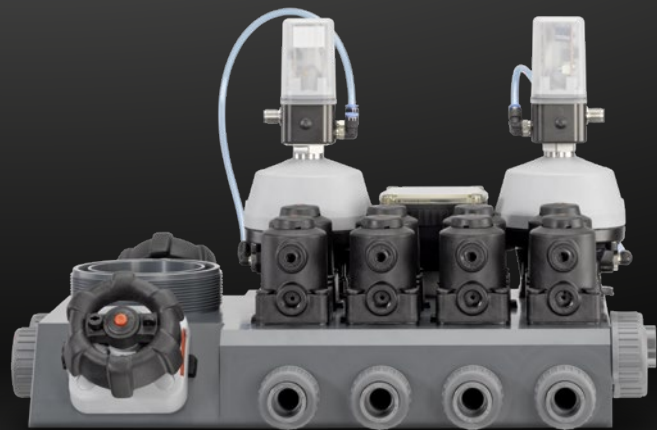
GEMÜ 687



GEMÜ R690



GEMÜ 805



sample configuration of  
plastic multi-port valve GEMÜ M-Block

## Valve solutions for industrial applications

### Areas of Application

- Industrial water treatment
- Mechanical engineering and processing industry
- Power generation and environmental engineering
- Chemical engineering

### Features

- Depending on diameter and materials of construction, up to 10 bar operating pressure and 100 °C operating temperature
- Good flow characteristics
- All mechanical components are located outside the media wetted area. The working medium only comes into contact with the inner valve body and diaphragm surfaces
- Suitable for higher cycle duties

## GEMÜ R677

### Manually operated diaphragm valve

The GEMÜ R677 2/2-way diaphragm valve has a low maintenance plastic bonnet and is manually operated. An integral optical position indicator is standard. The High-Flow valve body provides compact dimensions at high flow rates.

#### Technical specifications

- **Media temperature\*:**  
-10 to 80 °C
- **Operating pressure\*:**  
0 to 10 bar
- **Nominal sizes\*:**  
DN 15 to 100
- **Connection types:**  
Flange | Spigot | Union end
- **Body materials:**  
ABS | Inliner PP-H, grey / outliner PP, reinforced |  
Inliner PVDF/outliner PP, reinforced | PP, reinforced |  
PVC-U, grey | PVDF
- **Diaphragm materials:**  
EPDM | FKM | NBR | PTFE/EPDM

\* depending on version and/or operating parameters



## GEMÜ R690

### Pneumatically operated diaphragm valve

The GEMÜ R690 2/2-way diaphragm valve has a low maintenance membrane actuator and is pneumatically operated. Normally Closed (NC), Normally Open (NO) and Double Acting (DA) control functions are available. The High-Flow valve body provides compact dimensions at high flow rates.

#### Technical specifications

- **Media temperature\*:**  
-10 to 80 °C
- **Operating pressure\*:**  
0 to 10 bar
- **Nominal sizes\*:**  
DN 15 to 100
- **Connection types:**  
Flange | Spigot | Union end
- **Body materials:**  
ABS | Inliner PP-H, grey / outliner PP, reinforced |  
Inliner PVDF/outliner PP, reinforced | PP, reinforced |  
PVC-U, grey | PVDF
- **Diaphragm materials:**  
EPDM | FKM | NBR | PTFE/EPDM

\* depending on version and/or operating parameters



# GEMÜ 687

## Pneumatically operated diaphragm valve

The GEMÜ 687 2/2-way diaphragm valve has a low maintenance plastic membrane actuator and is pneumatically operated. The valve has a metal distance piece. Normally Closed (NC), Normally Open (NO) and Double Acting (DA) control functions are available.

### Technical specifications

- **Media temperature\*:**  
-20 to 120 °C
- **Operating pressure\*:**  
0 to 10 bar
- **Nominal sizes\*:**  
DN 10 to 100
- **Connection types:**  
Clamp | Flange | Spigot | Threaded connection
- **Connection standards:** ANSI | ASME | BS | DIN | EN | ISO | JIS | NPT | SMS
- **Body materials:**  
1.4408, investment casting material, PFA lined |  
EN-GJS-400-18-LT (GGG 40.3), PFA lined |  
EN-GJS-400-18-LT (GGG 40.3), PP lined |  
EN-GJS-400-18-LT, hard rubber lined | others on request
- **Diaphragm materials:**  
EPDM | FKM | PTFE

\* depending on version and/or operating parameters



# GEMÜ 800, GEMÜ 850

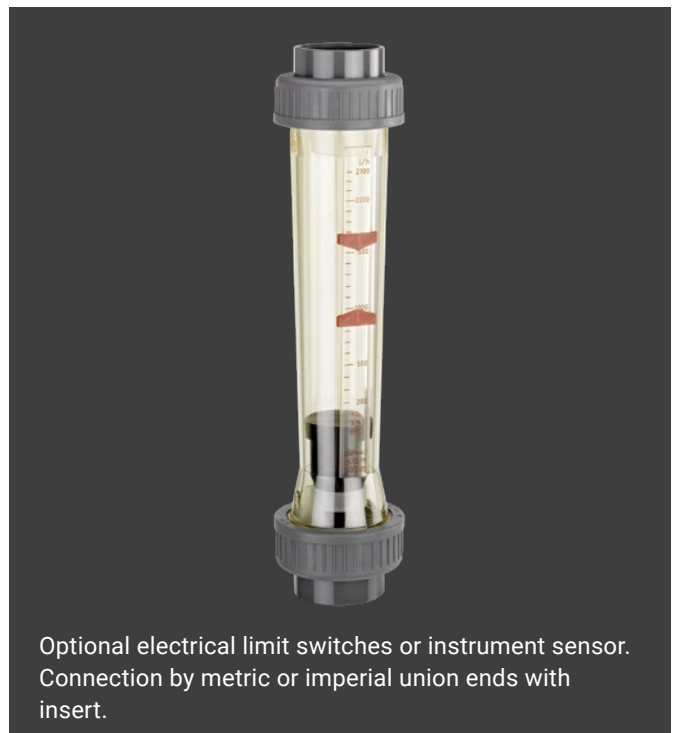
## Variable area flowmeters

The GEMÜ 800/850 flowmeters operate according to the variable area principle and have a transparent metering tube. The scale printed onto the metering tube is suited to the medium. Dovetail sections moulded onto the metering tube allow for easy mounting of adjustable visual flow indicators, limit switches and a continuous readout transmitter.

### Technical specifications

- **Variable area principle:**  
For corrosive, inert, gaseous and liquid media.  
Corrosion resistant and robust
- **Connection types:**  
Flange | Spigot | Union end
- **Measuring range\*:**  
From 0.5 l/h to 33.000 l/h for liquids  
and 0.2 Nm³/h to 450.0 Nm³/h for air
- **Media temperature\*:**  
-20 to 120 °C
- **Operating pressure\*:**  
0 to 15 bar
- **Nominal sizes\*:**  
DN 20 to 65

\* depending on version and/or operating parameters



Optional electrical limit switches or instrument sensor.  
Connection by metric or imperial union ends with insert.

# GEMÜ M-Block

## Plastic multi-port valves

Less space required for installation, less connections mean less installation time, less connections reduce risk of leaks.

### Features

- Individual, customized and flexible design
- Very compact design, manufactured with several valve seats from a single block of material
- Fewer fittings, welds or solvent cemented joints → fewer potential leakage points
- Lower assembly and installation costs
- Low hold-up volume, smaller wetted area
- GEMÜ modular system with high-quality components (actuators, diaphragms, valve bodies, position indicators, positioner or process controllers) synchronized with each other
- Nominal pressure PN 6 or PN 10 (depending on connection type)

### Technical specifications

- **Nominal sizes\*:**  
DN 6 to 50
- **Media temp.\*:**  
-10 to 80 °C
- **Ambient temp.\*:**  
-10 to 50 °C
- **Operating pressure\*:**  
0 to 10 bar
- **Connection types:**  
Clamp | spigot | threaded socket | union end
- **Valve body materials:**  
PP-H | PVC-U | PVDF | other materials on request

\* depending on version and/or operating parameters

