Diaphragm Valve Type 604 / 605

Packs a punch

The full-plastic diaphragm valve 604 / 605 with integrated pneumatic actuator from GF Piping Systems ensures best flow performance in compact design. With this corrosion free valve we offer an additional product with the most economic price-performance ratio which is suitable for many applications.

**Easy installation and operation**
- The compact design enables installation in limited spaces
- No re-torquing needed due to full plastic design without metal parts and screws
- Radially dismountable due to true unions
- Maintenance free
- Same installation length as all GF diaphragm valves and market standard valves
- Integrated optical position feedback
- QR-Code on valve leads to online available product documents

**Best flow performance**
- Linear flow characteristic for simple valve control
- Optimized flow geometry with soft transitions and radii doubles the flow rate
- Suitable for media with low number of particles/solids

**Applications**
- Chemical Process Industry
- Dosing
- Water Treatment

**High safety**
- Uniform temperature expansion of plastic/plastic connection prevents leakages
- High chemical resistance due to large material range

**High Flexibility**
- Operation options: FC, FO, DA
- Diaphragms available in PTFE, FKM, EPDM for neutral and aggressive media
- Various connection options with true union or spigot version
- Available Standards: Metric, ASTM, BS, JIS
- Best quality and reliability for high number of cycles
- Long lifetime
Technical Data

**Dimension**  
DN 15 (1/2")

**Pressure Rating**  
PN 6

**Body**  
PVC-U / CPVC (Polyvinylchlorid)  
PP-H (Polypropylen)  
PVDF (Polyvinylidenfluorid)  
Other materials on request

**Diaphragms**  
PTFE with EPDM Backing Diaphragm  
PTFE with FKM Backing Diaphragm  
EPDM  
FKM

**Valve Housing**  
PP-GF (orange)

**Connections**  
**Type 604:**  
Body with true union connection to match all standard GF unions and end-connections

**Type 605:**  
Body with cementing resp. welding spigots

Available on request:  
Various inserts from the GF range

**Mounting**  
Threaded inserts for safe mounting on valve body

**Flow**  
Double flow rate compared to a typical diaphragm valve

**Standards**  
ISO 9393  
EN 12266

Pressure-Temperature Diagram

The following Pressure-Temperature Diagram is based on a lifetime of 25 years with water or similar media.

### Diaphragm Valve Type 604 / 605

<table>
<thead>
<tr>
<th>DN</th>
<th>d</th>
<th>inch</th>
<th>Kv 100 l/min</th>
<th>Cv 100 m³/h</th>
<th>gpm</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>20</td>
<td>1/2&quot;</td>
<td>125</td>
<td>7,5</td>
<td>0,55</td>
</tr>
</tbody>
</table>

**Kv Values**

KV 100 at pressure differential p = 1 bar  
CV 100 at pressure differential p = 1 psi

### Features

- Springs for different functionalities available
- Index plate for identification of diaphragm and housing position

The technical data are not binding. They neither constitute expressly warranted characteristics nor guaranteed properties nor a guaranteed durability. They are subject to modification. Our General Terms of Sale apply.

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