

**Specification | GEMÜ regulating cones for globe valves**

Customer/Project \_\_\_\_\_ Contact person \_\_\_\_\_

Date \_\_\_\_\_ Phone \_\_\_\_\_

Contact person (GEMÜ) \_\_\_\_\_ E-mail \_\_\_\_\_

**Technical requirements**Medium <sup>1)</sup>

| Requirement characteristic         | 1st operating point<br>maximum flow | 2nd operating point<br>medium flow | 3rd operating point<br>minimum flow |
|------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|
| Media temperature <sup>4)</sup>    |                                     |                                    |                                     |
| Inlet pressure                     |                                     |                                    |                                     |
| Outlet pressure                    |                                     |                                    |                                     |
| <b>Flow rate <sup>2,3)</sup></b>   |                                     |                                    |                                     |
| in [m <sup>3</sup> /h] for liquids |                                     |                                    |                                     |
| for gases <sup>6)</sup>            |                                     |                                    |                                     |
| in [kg/h] for steam                |                                     |                                    |                                     |

| Operation       | Manual    |                       |                      |                           |                    |                               |
|-----------------|-----------|-----------------------|----------------------|---------------------------|--------------------|-------------------------------|
|                 | Pneumatic | Control function      | NC (normally closed) | NO (normally open)        | DA (double acting) | Double acting (normally open) |
|                 | Motorized | Voltage               | 24 V DC              | Other                     |                    |                               |
| Control fitting |           | Set value information | 0-10 V               | 0/4-20 mA                 |                    |                               |
|                 | Feature   |                       | linear               | modified equal-percentage |                    |                               |

| Valve body | Type                              |      |       |
|------------|-----------------------------------|------|-------|
|            | Required valve DN                 |      |       |
|            | Max. operating pressure (bar)     |      |       |
|            | Ambient temperature <sup>4)</sup> |      |       |
|            | Max. media temperature            |      |       |
|            | Connection type                   |      |       |
|            | Body material                     |      |       |
|            | Seat seal <sup>7)</sup>           | PTFE | Other |
|            | Control pressure                  | min  | max   |

## 1) Liquid or gas?

For media other than water or air, it is useful to give data for the density and viscosity of the medium (with unit of measurement). Otherwise we will assume data for standard conditions.

## 2) For steam especially, the minimum or maximum flow rate should be assigned to the appropriate inlet or outlet pressure. The temperature of the medium should also be taken into account.

3) GEMÜ recommends a positioning ratio of 1 : 10 (e.g. minimal flow rate is 10 m<sup>3</sup>/h and the maximum flow rate is 100 m<sup>3</sup>/h). Please note that the valve only controls reliably from a flow of about 10% of the max. Kv value on account of the valve opening behaviour. Other positioning ratios are possible on request or in the selection of standard regulating cones.

4) The media temperature range must be specified for steam applications. T = 20 °C is assumed unless specified otherwise.

5) This data is not absolutely necessary. A room temperature of 20 °C is assumed unless specified otherwise.

6) Basis: standard conditions 0 °C, 1013.25 mbar. If conditions differ, please specify them.

7) The seat seal is made of PTFE as standard. For regulating needles with a Kv value between 0.1 and 1.0 m<sup>3</sup>/h, only a metal seal is possible. Other materials possible on request.

The technical details of each enquiry must be checked by GEMÜ.

Comment: