send an E-mail

Reference no.

Specification | GEMÜ regulating cones for globe valves

Customer/Project _____ Contact person _____

Date _____ Phone _____

Contact person (GEMÜ) _____ E-mail _____

Technical requirements

Medium [1]

Requirement characteristic	1st operating point maximum flow	2nd operating point medium flow	3rd operating point minimum flow
Media temperature [4]	°C	°C	°C
Inlet pressure	bar(g)	bar(g)	bar(g)
Outlet pressure	bar(g)	bar(g)	bar(g)
Flow rate [2]			
in [m³/h] for liquids	m³/h	m³/h	m³/h
for gases [4]	Nm³/h	Nm³/h	Nm³/h
in [kg/h] for steam	kg/h	kg/h	kg/h

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

Valve body	**Type**					
	Required valve DN					
	Max. operating pressure (bar)					
	Ambient temperature [3]					
	Max. media temperature					
	Connection type					
	Body material					
	Seat seal [5]	○ PTFE	○ Other			
	Control pressure		min		max	
	Surface	○ not defined	○ 0,8µm	○ 0,6µm	○ 0,4µm	○ e-polished
Further requirements		○ ATEX	○ Oxygen	○ FDA	○ USP Class 6	○ 1935/2004

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) GEMÜ recommends a positioning ratio of 1 : 10 (e.g. minimal flow rate is 10 m³/h and the maximum flow rate is 100 m³/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.

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

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

5) The seat seal is made of PTFE as standard.
For regulating needles with a Kv value between 0.1 and 1.0 m³/h, only a metal seal is possible. Other materials possible on request.

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

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