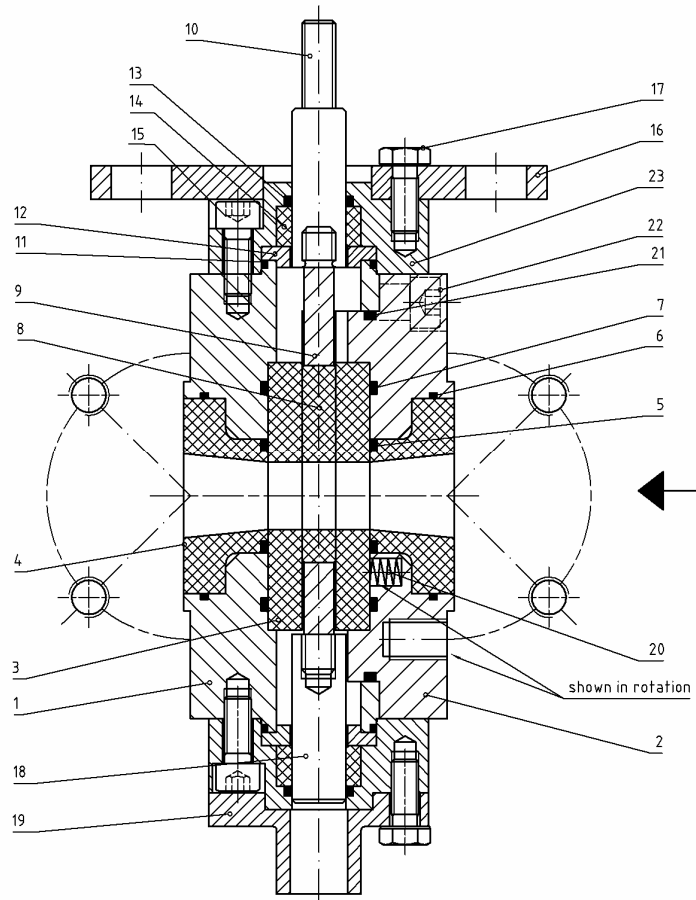


Technical Description

1 Assembly Sketch



2 Standard Part List

Item	Part Description	Material
1	Lower valve body	1.4301
2	Upper valve body	1.4301
3	Ceramic disk	SSiC
4	Ceramic sleeve	SSiC
5	O-Ring	Viton
6	O-Ring	Viton
7	O-Ring	Viton
8	Ceramic sliding Disk	SsiC
9	Adapter frame	1.4301
10	Stem	1.4301
11	O-Ring	Viton
12	Stop ring	1.4301

Item	Part Description	Material
13	O-Ring	Viton
14	Bushing	PTFE-Kohle
15	Allen bolt	A2-70
16	Flange	1.4301
17	Screw	A2-70
18	Pin	1.4301
19	Protection Ring	1.4301
20	Spring	1.4301
21	O-Ring	Viton
22	Allen bolt	A2-70
23	cover	1.4301

Material indicated is for standard type. See specific appendix (parts list) for other types.

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3 Operation

The sliding disk valve is a fully ceramic lined speciality valve for on / off and control application for severe (abrasive and corrosive) service.

This dead-space free valve is especially good for controlling small flows (30l/min...1m³/h).

The sliding disk valve basically consists of 3 ceramic disks, sealing against themselves. The middle disk (sliding disk) is moving vertically, while the other two are stationary.

Through different aperture profiles in the sliding disk (circle, triangle, slot), a specific control characteristic can be obtained. Springs are used for compression of the sealing system.

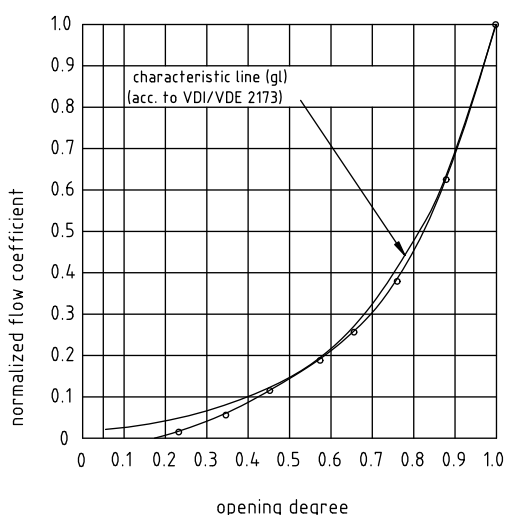
The medium is just in contact with ceramic components and gaskets. There fore no special material is necessary for the housing.

The product spectrum currently contains 3 sizes of valves: SSC15, SSC22 and SSC30. This valve type is applicable for a quantity range from 30 l/min to 40 l/min with nominal diameters ranging from DN 10 to DN 65. Depending on the size operating pressures up to 100 bar are approved.

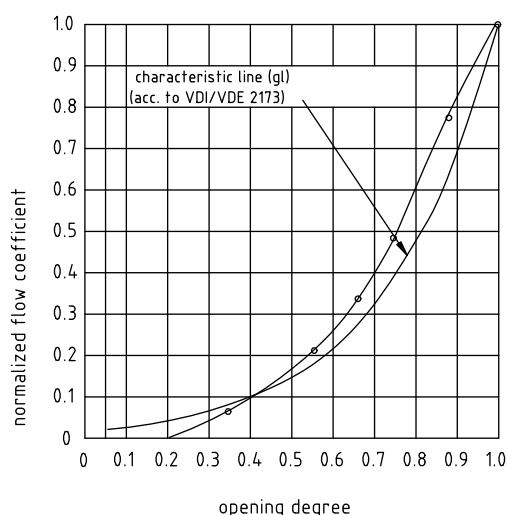
Standard connections are flange connections, alternatives are available upon request. Face-to-face dimensions are acc. to DIN EN 558-1 series 47. Longer face-to-face dimensions can be obtained by adding ceramic lines (or non-lined) spools.

Actuator : all standard models with vertical movement

4 Flow Charts



Nominal Diameter : DN 10 - 50
Disk bore : triangular
Characteristics : equal percentage



Nominal Diameter : DN 10 - 50
Disk bore : round
Characteristics : equal perc.

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