### DISC SLIDE VALVE SSC

**MATERIALS / MATERIAL OPTIONS:**

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**FUNCTION:**

The SCC-type valve is a disc slide valve with a ceramic sealing system for open/close function and control tasks, for use in highly corrosive and extremely abrasive media. It is designed for extreme conditions, where either high switching frequencies and a long service life are required, or where severe abrasion occurs in the control position but dead space cannot be permitted inside the valve.

The functional principle is based on three floating ceramic discs that seal against each other. The middle disc shifts linearly. Different geometric shapes of disc apertures permit specific control characteristics. The two outer discs are stationary. Springs are used to compress the sealing system.

The medium only comes into contact with ceramic components and seals, so that special materials are not normally required for the housing.

**TYPICAL APPLICATION AREAS:**

- Waste incineration plants:
  - Dosing of HCl washing water (prewasher)
  - Dosed addition of lime milk to absorber (pH control, desulphurisation)

- Chemical industry:
  - Alternative to PTFE/PFA-lined valves, where medium is abrasive and/or tends to diffusion.
  - Alternative to valves made from special materials (e.g. Hastelloy, titanium, etc.)

**NOMINAL DIAMETER RANGE:**

- Flange connections: DN 10 (3/8”) to DN 80 (3”)
- Sizes: SSC 15, 22, and 30
- Maximum clear width: 27 mm (1 1/16”)
  \( k_{w} = 50 \ / \ c_{w} = 58 \)

**PRESSURE RANGE:**

- up to PN 40
- up to ANSI class 300

**OVERALL LENGTH:**

- according to EN 558-1 Series 47
- any other installation length is possible using supplementary sections

**OPTIONS:**

- With compression gland packing
- With sealing gas connection
- Various ceramics and sealing materials
- Approved for combustion plants with liquid fuels (DIN EN ISO 23553-5:2009-10)
- High temperature version (up to 450 °C / 842 °F)
- Light-Version (without sleeves, only for open/close function)

**TEMPERATURE RANGE:**

- Standard: -30 °C to +180 °C / -22 °F to +356 °F
- with Kalrez O-rings: up to 310 °C / 590 °F