



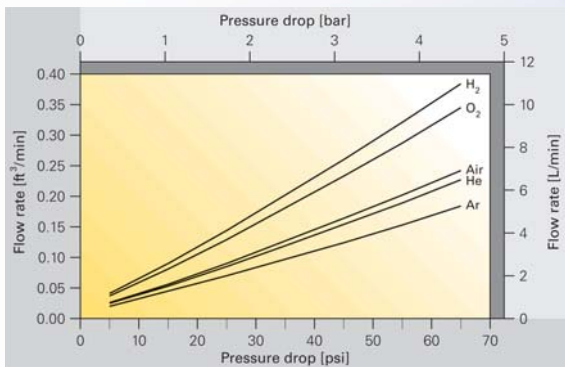
GKN SIKA-B / SIKA-R...AX



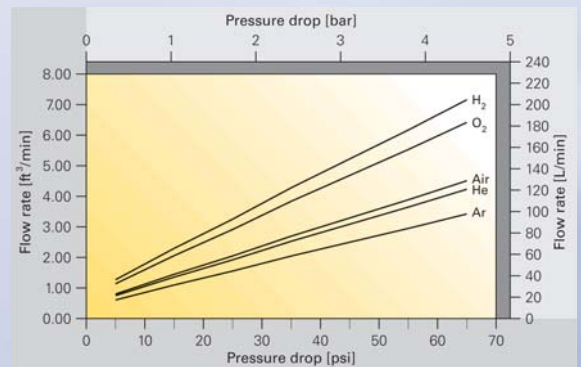
Flow restrictors & sensor protection

Advantages:

- long life time
- flow rates calibrated according customers request
- easy installation
- pore sizes 1 – 100 µm available
- FDA save 316L version available
- customized design possible



Flow rate for 5 µm restrictor



Flow rate for 20 µm restrictor

Materials and products

| Material | Name | Mat.-No. | SIKA- | | | | Fe | Cr | Ni | C | Mo | Miscellany | Max. Temperature °C | | Keyword |
|-----------------------|----------------------------|----------------|------------|----|----|-----|-----------|-----------|-----------|--------|-----------|---|---------------------|------------------------------|--|
| | | | R... IS | AX | AS | FIL | | | | | | | B | Reducing | |
| High alloyed material | AISI 304 L | 1.4306 | x | x | x | | Bal. | 18.0-20.0 | 8.0-12.0 | <=0.03 | 0.5 | N<=0.1 | 600 | 500 | Standard for food application |
| | AISI 316 L | 1.4404 | x | x | x | | Bal. | 16.0-18.0 | 10.0-14.0 | <=0.03 | 2.0-3.0 | N<=0.1 | 540 380 | 400 320 | |
| | AISI 904 L | 1.4539 | x | x | x | | Bal. | 19.0-21.0 | 24.0-26.0 | <=0.02 | 4.0-5.0 | N<=0.15 Cu 1.2-2.0 | 600 | 500 | Resistant against sulphuric acid, phosphoric and hydrochloric acid |
| | AISI 310 | 1.4841 | x | | | x | Bal. | 24.0-26.0 | 19.0-22.0 | <=0.25 | - | - | 800 | 600 | Heat resistant |
| | FeCrAl | 1.4767 Mod. | | | | x | Bal. | 19.0-22.0 | - | <0.10 | - | Al 5.0-6.5 with rare earth elements | unfit | 1000 | |
| Nickel based alloys* | Hastelloy C 22 | 2.4602 | x | | | | 2.0-6.0 | 20.0-22.5 | Bal. | <0.02 | 12.0-14.5 | W 2.0-3.5, Co 2.5 | 650 | 650 | Corrosion resistant with various aggressive media. Duration application at > 400 °C possible |
| | Hastelloy C 276 | 2.4819 | x | x | | | 4.0-7.0 | 14.0-16.0 | Bal. | <0.02 | 15.0-17.0 | W 3.0-4.5 | 650 | 650 | |
| | Hastelloy X | 2.4665 | x | x | | | 17.0-20.0 | 20.5-23.0 | Bal. | <0.15 | 8.0-10.0 | Co 0.5-2.5 W 0.2-1.0 | 930 | 800 | |
| | Inconel 600 | 2.4816 | x | x | x | | 6.0-10.0 | 14.0-17.0 | >=72.0 | <0.15 | - | - | 700 | 600 | Resistant against Cl-containing media |
| | Inconel 625 | 2.4856 | x | | x | | <=5.00 | 20.0-23.0 | >=58.0 | <0.10 | 8.0-10.0 | Nb 3.15-4.15 | 650 | 650 | |
| | Monel 400 | 2.4360 | x | x | x | | <2.0 | - | >=63.0 | <0.30 | - | Cu 28.0-34.0 | 500 | 500 | |
| Bronze | CuSn 11 | 2.1052 | | | | | - | - | - | - | - | - | 300 | 250 | Typically used for hydraulic & pneumatic |
| Titanium** | Ti | - | x | x | | | - | - | - | - | Ti > 99 % | 500 | 500 | Medicine, acid, electrolysis | |
| Other | Other materials on request | | | | | | | | | | | | | | |

* Nickel based AX-products only after consultation. Not all dimensions feasible. **Not all raw materials are in stock.
Typical Iron or Nickel elements e.g. Si, Mn, P, S according to the literature.



SIKA-R.../S

- Made of sintered metal powder (a variety of alloys are used, depending on requirement)
- Filter grades from 0.5 - 200 µm
- Suitable for use up to 950 °C
- Seamless up to 1500 mm in length and up to 300 mm in diameter



SIKA-FIL

- Stainless steel fibers
- 60 - 90 % porosity
- Filter grades from 1 - 100 µm
- Used mainly in gas filtration with high gas velocities



SIKA-R...AX

- Axial pressed filters made of metal powder (A variety of alloys are used, depending upon requirement)
- Filter grades between 0.5 and 200 µm
- Used mainly in gas and liquid filtration



SIKA-R...B

- Gravity sintered filters made of bronze
- Filter grades between 8 and 200 µm
- Used mainly in pneumatic - hydraulic application and polymer filtration
- Best for shapes



SIKA...AS

- Asymmetric designed powder / powder composite, consisting of a support and a thin filter active layer of the SAME alloy
- Used in catalyst recovery and cross flow application



SIKA- Modules

- Customer designed elements with fitting
- Used mainly for sensor protection and flow resistors
- Welding constructions