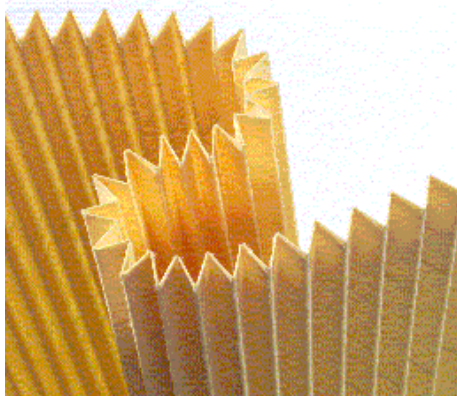


ZANDER V grade filters are designed as high-capacity surface filters for coarse separation within the prefiltration range of Microfilters. They separate liquid and solid particles up to a size of 3 µm with a filtration efficiency of up to 99.99% from compressed air and gas streams.

The core of the filter is the pleated and coated filter fabric of impregnated microfibre with 75% void volume. The filter fabric is machine-produced and therefore of a consistently high quality. The machine pleating ensures that more than four times the filter surface is available compared with a wrapped element of the same size. The enlargement of the filter surface achieved by pleating results in a reduction of flow rate through the filter fabric, and therefore in a reduction of differential pressure with simultaneous improvement of dirt holding capacity and separation behaviour.



The filter element cylinders consists of high-quality stainless-steel mesh with large perforations and plastic or optional aluminium or stainless steel endcaps.

Basic technical data:

| | V |
|-------------------------------------------|----------------------|
| Filtration efficiency | 99.99% ^{*1} |
| MPPS filtration level | --- |
| Residual oil content | --- |
| Differential pressure^{*2} | 20 mbar |

^{*1}: in relation to particle size 3µ

^{*2}: differential pressure in new state, dry, at nominal capacity.

Capacity^{*3}:

| Model | Nominal |
|-------------|-----------|
| 1030 | 30 m³/h |
| 1050 | 50 m³/h |
| 1070 | 70 m³/h |
| 1140 | 100 m³/h |
| 2010 | 180 m³/h |
| 2020 | 300 m³/h |
| 2030 | 470 m³/h |
| 2050 | 700 m³/h |
| 3050 | 940 m³/h |
| 3075 | 1450 m³/h |
| 5060 | 1940 m³/h |
| 5075 | 2400 m³/h |

^{*3}: capacity calculated at 1 bar absolute and 20°C at 7 bar working pressure



Filter elements V-series





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Specification V series

Materials used

| | |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Filter fabric | microfibre fabric, coated |
| Drainage layer | --- |
| Rib mesh | Stainless steel VA 1.4306 |
| Endcaps | plastic endcaps polyamide modified, glass-fibre-reinforced (up to size 3075), optional aluminium (size 5060, 5075 standard) or stainless steel VA 1.4305 |
| Sealing materials | NBR (Perbunan), optional FBM (Viton) |
| Bonding materials | Polyurethane adhesive, solvent-free |

Temperature range

| | |
|----------------------|----------------|
| Nominal | +1°C to +80°C |
| Maximum (short-term) | +1°C to +100°C |

Differential pressures at nominal capacity

V

| | |
|-----------------------------------------------------|---------------|
| Differential pressure in new state dry ¹ | 0.02 bar |
| Differential pressure saturated ² | 0.07 bar |
| Bursting pressure filter element | approx. 5 bar |

*1: measured at 7 bar working pressure with model 1050 as example

*2: impact of test aerosols after 60 minutes with an inlet concentration of >20 mg/m³, measured at 7 bar working pressure, model 1050

Filtration efficiency

V

| | |
|---------------------------------------------------------------------------------------------|--------------|
| Filtration efficiency at nominal capacity | 99.99% (3µm) |
| MPPS filtration efficiency at nominal capacity | --- |
| Residual oil content at nominal capacity and an input concentration of 20 mg/m ³ | --- |

Direction of flow

| | |
|------------------------------------|-------------------------------------------------------------|
| Filtration of coarse contamination | from outside to inside |
| Filtration fine contamination | from outside to inside (standard) or from inside to outside |

Capacity calculated at 1 bar absolute and 20°C at 7 bar working pressure

| Model | Nominal |
|-------|------------------------|
| 1030 | 30 m ³ /h |
| 1050 | 50 m ³ /h |
| 1070 | 70 m ³ /h |
| 1140 | 100 m ³ /h |
| 2010 | 180 m ³ /h |
| 2020 | 300 m ³ /h |
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Production / quality assurance

Development, manufacture and quality assurance in accordance with DIN EN ISO9001, supplemented by ZANDER's own TQM (Total Quality Management)