

Filtration Technology



Industrial filter
Microfilter



Process filter



High-pressure filter

Dryer Technology



Refrigerated dryer
arctic star



Membrane dryer
sunsep W



Adsorption dryer
WVM



Adsorption dryer
KEN



Adsorption dryer
KM/KMA

Condensate Technology



Condensate drain
ecodrain LS

Condensate drain
ecodrain ED



Oil/water separator
ecosep SL

Emulsion
separating
unit aquafil

We reserve the right to make changes to the design and dimensions of all the products shown.

Filter elements



for compressed air and
 technical gases, suitable for
 ZANDER filter housings
 and housings of other filter
 manufacturers

ZANDER® Filter elements for compressed air and technical gases

ZANDER filter elements

The quality of filter elements has become more and more important with the rising standards in the purity of compressed air and technical gases, as well as an increase in environmental and energy awareness. ZANDER is one of the market leaders in the field of pre-, micro- and process filtration and a reliable partner for many industrial branches around the world. Decades of experience in the development and manufacture of compressed air and gas filters guarantee our customers top-quality products,

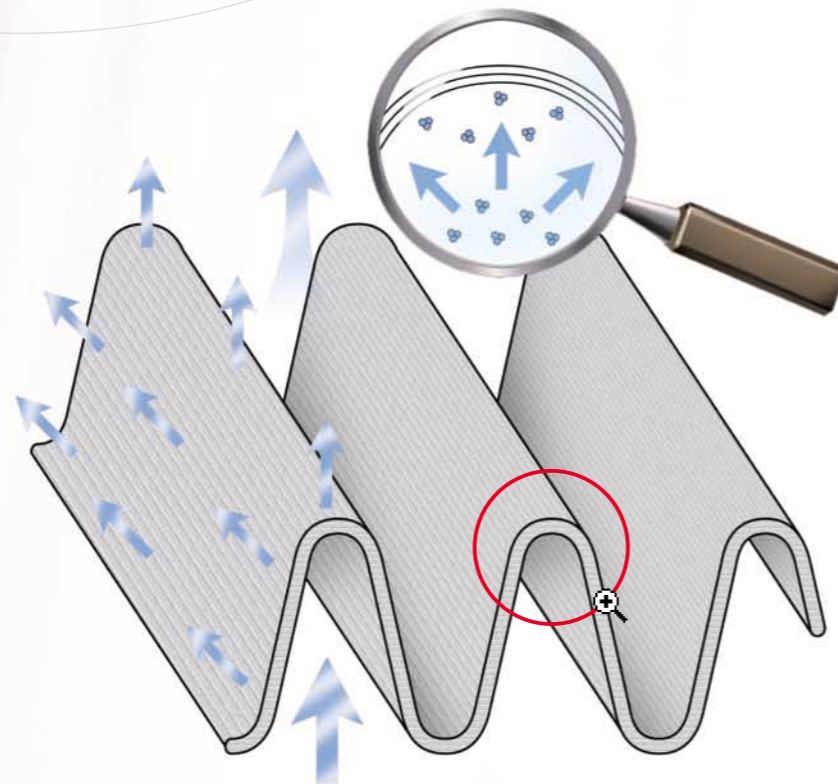
which at the end of the day have made our name for us in the market. It is this claim for top quality which particularly distinguishes our ZANDER filter elements clearly from many competitors' products. We would like to present these important features and our product range.



ZANDER pleating

Pleating is one of the production phases during the manufacture of our ZANDER filter elements, in which the heart of the filter, the so-called filter fleece, is "pleated" mechanically.

This means there is a significantly larger area available for the air or gas to flow through in comparison to wrapped filter elements. The area of the filter is many times larger than it would be without pleating.



Ultrafilter 80-series Process Filters

Steam and sterile filter elements

Steam filters 1µ				Steam filters 25µ				Sterile filters	
ZANDER		Ultrafilter		ZANDER		Ultrafilter	ZANDER	Ultrafilter	
80DS-R03/1	1µ	D-SS 3/1	1µ	80DS-R03/1	25µ	D-SS 3/1	25µ	80ST-R03/1	SRF 3/1
80DS-R03/1,5	1µ	D-SS 3/1,5	1µ	80DS-R03/1,5	25µ	D-SS 3/1,5	25µ	80ST-R03/1,5	SRF 3/1,5
80DS-R04/1,5	1µ	D-SS 4/1,5	1µ	80DS-R04/1,5	25µ	D-SS 4/1,5	25µ	80ST-R04/1,5	SRF 4/1,5
80DS-R04/2,5	1µ	D-SS 4/2,5	1µ	80DS-R04/2,5	25µ	D-SS 4/2,5	25µ	80ST-R04/2,5	SRF 4/2,5
80DS-R05/2,5	1µ	D-SS 5/2,5	1µ	80DS-R05/2,5	25µ	D-SS 5/2,5	25µ	80ST-R05/2,5	SRF 5/2,5
80DS-R05/3	1µ	D-SS 5/3	1µ	80DS-R05/3	25µ	D-SS 5/3	25µ	80ST-R05/3	SRF 5/3
80DS-R10/3	1µ	D-SS 10/3	1µ	80DS-R10/3	25µ	D-SS 10/3	25µ	80ST-R10/3	SRF 10/3
80DS-R15/3	1µ	D-SS 15/3	1µ	80DS-R15/3	25µ	D-SS 15/3	25µ	80ST-R15/3	SRF 15/3
80DS-R20/3	1µ	D-SS 20/3	1µ	80DS-R20/3	25µ	D-SS 20/3	25µ	80ST-R20/3	SRF 20/3
80DS-R30/3	1µ	D-SS 30/3	1µ	80DS-R30/3	25µ	D-SS 30/3	25µ	80ST-R30/3	SRF 30/3
80DS-R30/5	1µ	D-SS 30/5	1µ	80DS-R30/5	25µ	D-SS 30/5	25µ	80ST-R30/5	SRF 30/5

80DS-R_ 1µ/25µ - sinter metal cartridge with stainless steel end caps, welded, thread connection with one O-ring – VA 1.4404 - efficiency 1µ/25µ

80ST-R_ - wrapped borosilicate non-shedding fleece with Nomex supporting material, VA 1.4404 stainless steel end caps, thread connection with one O-ring - efficiency 0.01µ

Ultrafilter 90-series Process Filters

Steam and sterile filter elements

Steam filters 1µ				Steam filters 25µ				Sterile filters	
ZANDER		Ultrafilter		ZANDER		Ultrafilter	ZANDER	Ultrafilter	
90DS-R02/05	1µ	D-SS02/05	1µ	90DS-R02/05	25µ	D-SS02/05	25µ	90ST-R02/05	SRF 02/05
90DS-R02/10	1µ	D-SS02/10	1µ	90DS-R02/10	25µ	D-SS02/10	25µ	90ST-R02/10	SRF 02/10
90DS-R03/05	1µ	D-SS03/05	1µ	90DS-R03/05	25µ	D-SS03/05	25µ	90ST-R03/05	SRF 03/05
90DS-R03/10	1µ	D-SS03/10	1µ	90DS-R03/10	25µ	D-SS03/10	25µ	90ST-R03/10	SRF 03/10
90DS-R04/10	1µ	D-SS04/10	1µ	90DS-R04/10	25µ	D-SS04/10	25µ	90ST-R04/10	SRF 04/10
90DS-R04/20	1µ	D-SS04/20	1µ	90DS-R04/20	25µ	D-SS04/20	25µ	90ST-R04/20	SRF 04/20
90DS-R05/20	1µ	D-SS05/20	1µ	90DS-R05/20	25µ	D-SS05/20	25µ	90ST-R05/20	SRF 05/20
90DS-R05/25	1µ	D-SS05/25	1µ	90DS-R05/25	25µ	D-SS05/25	25µ	90ST-R05/25	SRF 05/25
90DS-R07/25	1µ	D-SS07/25	1µ	90DS-R07/25	25µ	D-SS07/25	25µ	90ST-R07/25	SRF 07/25
90DS-R07/30	1µ	D-SS07/30	1µ	90DS-R07/30	25µ	D-SS07/30	25µ	90ST-R07/30	SRF 07/30
90DS-R10/30	1µ	D-SS10/30	1µ	90DS-R10/30	25µ	D-SS10/30	25µ	90ST-R10/30	SRF 10/30
90DS-R15/30	1µ	D-SS15/30	1µ	90DS-R15/30	25µ	D-SS15/30	25µ	90ST-R15/30	SRF 15/30
90DS-R20/30	1µ	D-SS20/30	1µ	90DS-R20/30	25µ	D-SS20/30	25µ	90ST-R20/30	SRF 20/30
90DS-R30/30	1µ	D-SS30/30	1µ	90DS-R30/30	25µ	D-SS30/30	25µ	90ST-R30/30	SRF 30/30
90DS-R30/50	1µ	D-SS30/50	1µ	90DS-R30/50	25µ	D-SS30/50	25µ	90ST-R30/50	SRF 30/50

90PDS-R02/05	1µ	P-GS02/05	1µ	90PDS-R02/05	25µ	P-GS02/05	25µ	90PST-R02/05	P-SRF 02/05
90PDS-R02/10	1µ	P-GS02/10	1µ	90PDS-R02/10	25µ	P-GS02/10	25µ	90PST-R02/10	P-SRF 02/10
90PDS-R03/05	1µ	P-GS03/05	1µ	90PDS-R03/05	25µ	P-GS03/05	25µ	90PST-R03/05	P-SRF 03/05
90PDS-R03/10	1µ	P-GS03/10	1µ	90PDS-R03/10	25µ	P-GS03/10	25µ	90PST-R03/10	P-SRF 03/10
90PDS-R04/10	1µ	P-GS04/10	1µ	90PDS-R04/10	25µ	P-GS04/10	25µ	90PST-R04/10	P-SRF 04/10
90PDS-R04/20	1µ	P-GS04/20	1µ	90PDS-R04/20	25µ	P-GS04/20	25µ	90PST-R04/20	P-SRF 04/20
90PDS-R05/20	1µ	P-GS05/20	1µ	90PDS-R05/20	25µ	P-GS05/20	25µ	90PST-R05/20	P-SRF 05/20
90PDS-R05/25	1µ	P-GS05/25	1µ	90PDS-R05/25	25µ	P-GS05/25	25µ	90PST-R05/25	P-SRF 05/25
90PDS-R07/25	1µ	P-GS07/25	1µ	90PDS-R07/25	25µ	P-GS07/25	25µ	90PST-R07/25	P-SRF 07/25
90PDS-R07/30	1µ	P-GS07/30	1µ	90PDS-R07/30	25µ	P-GS07/30	25µ	90PST-R07/30	P-SRF 07/30
90PDS-R10/30	1µ	P-GS10/30	1µ	90PDS-R10/30	25µ	P-GS10/30	25µ	90PST-R10/30	P-SRF 10/30
90PDS-R15/30	1µ	P-GS15/30	1µ	90PDS-R15/30	25µ	P-GS15/30	25µ	90PST-R15/30	P-SRF 15/30
90PDS-R20/30	1µ	P-GS20/30	1µ	90PDS-R20/30	25µ	P-GS20/30	25µ	90PST-R20/30	P-SRF 20/30
90PDS-R30/30	1µ	P-GS30/30	1µ	90PDS-R30/30	25µ	P-GS30/30	25µ	90PST-R30/30	P-SRF 30/30
90PDS-R30/50	1µ	P-GS30/50	1µ	90PDS-R30/50	25µ	P-GS30/50	25µ	90PST-R30/50	P-SRF 30/50

90DS-R_ -1µ/25µ - sinter metal cartridge with stainless steel end caps, welded, thread connection with two O-rings – VA 1.4404 - efficiency 1µ/25µ

90PDS-R_ -1µ/25µ - sinter metal cartridge with stainless steel end caps, welded, plug connection with two O-rings – VA 1.4404 - efficiency 1µ/25µ

90ST-R_ - wrapped borosilicate non-shedding fleece with Nomex supporting material, VA 1.4404 stainless steel end caps, thread connection with two O-rings - efficiency 0.01µ

90PST-R_ - wrapped borosilicate non-shedding fleece with Nomex supporting material, VA 1.4404 stainless steel end caps, plug connection with two O-rings - efficiency 0.01µ

Ultrafilter 90-series (pleated elements with reduced differential pressure)

Standard filter elements (filter elements with stainless steel expanded metal support and aluminium end caps, up to +60°C)

Pre-filters			General purpose filters		Oil removal filters			Activated carbon filters	
ZANDER	Ultrafilter		ZANDER	Ultrafilter	ZANDER	Ultrafilter	ZANDER	Ultrafilter	
90V-02/05	SB 02/05	PE 02/05	90Z-02/05	FF 02/05	90X-02/05	MF 02/05	SMF 02/05	90A-02/05	AK 02/05
90V-02/10	SB 02/10	PE 02/10	90Z-02/10	FF 02/10	90X-02/10	MF 02/10	SMF 02/10	90A-02/10	AK 02/10
90V-03/05	SB 03/05	PE 03/05	90Z-03/05	FF 03/05	90X-03/05	MF 03/05	SMF 03/05	90A-03/05	AK 03/05
90V-03/10	SB 03/10	PE 03/10	90Z-03/10	FF 03/10	90X-03/10	MF 03/10	SMF 03/10	90A-03/10	AK 03/10
90V-04/10	SB 04/10	PE 04/10	90Z-04/10	FF 04/10	90X-04/10	MF 04/10	SMF 04/10	90A-04/10	AK 04/10
90V-04/20	SB 04/20	PE 04/20	90Z-04/20	FF 04/20	90X-04/20	MF 04/20	SMF 04/20	90A-04/20	AK 04/20
90V-05/20	SB 05/20	PE 05/20	90Z-05/20	FF 05/20	90X-05/20	MF 05/20	SMF 05/20	90A-05/20	AK 05/20
90V-05/25	SB 05/25	PE 05/25	90Z-05/25	FF 05/25	90X-05/25	MF 05/25	SMF 05/25	90A-05/25	AK 05/25
90V-07/25	SB 07/25	PE 07/25	90Z-07/25	FF 07/25	90X-07/25	MF 07/25	SMF 07/25	90A-07/25	AK 07/25
90V-07/30	SB 07/30	PE 07/30	90Z-07/30	FF 07/30	90X-07/30	MF 07/30	SMF 07/30	90A-07/30	AK 07/30
90V-10/30	SB 10/30	PE 10/30	90Z-10/30	FF 10/30	90X-10/30	MF 10/30	SMF 10/30	90A-10/30	AK 10/30
90V-15/30	SB 15/30	PE 15/30	90Z-15/30	FF 15/30	90X-15/30	MF 15/30	SMF 15/30	90A-15/30	AK 15/30
90V-20/30	SB 20/30	PE 20/30	90Z-20/30	FF 20/30	90X-20/30	MF 20/30	SMF 20/30	90A-20/30	AK 20/30
90V-30/30	SB 30/30	PE 30/30	90Z-30/30	FF 30/30	90X-30/30	MF 30/30	SMF 30/30	90A-30/30	AK 30/30
90V-30/50	SB 30/50	PE 30/50	90Z-30/50	FF 30/50	90X-30/50	MF 30/50	SMF 30/50	90A-30/50	AK 30/50

V - filtration efficiency 99.99% based on 3µ - particle filter without draining layer - initial differential pressure dry 0.02 bar; wet: 0.07 bar
 Z - filtration efficiency 99.9999% based on 1µ - residual oil content ≤ 0.5 mg/m³ (1 bar a, 20°C) - initial differential pressure dry: 0.03 bar; wet: 0.15 bar
 X - filtration efficiency 99.99999% based on 0.01µ - residual oil content ≤ 0.01 mg/m³ (1 bar a, 20°C) - initial differential pressure dry 0.06 bar; wet: 0.20 bar
 A - residual oil content ≤ 0.003 mg/m³ (1 bar a, 20°C) at a max. input concentration of 0.01 mg/m³ (after x grade filter) - differential pressure 0.03 bar

Note: MF and SMF elements can be replaced by the ZANDER X element as a result of the reduced differential pressure due to the pleating technique

HTNX High Temperature Filter Elements

(Filter elements with stainless steel expanded metal support and aluminium end caps, high-temperature drainage, up to +120°C)

General purpose filters*		Oil removal filters*		
ZANDER	Ultrafilter	ZANDER	Ultrafilter	
90ZHTNX-02/10	FF 02/10 HTNX	90XHTNX-02/10	MF 02/10 HTNX	SMF 02/10 HTNX
90ZHTNX-03/05	FF 03/05 HTNX	90XHTNX-03/05	MF 03/05 HTNX	SMF 03/05 HTNX
90ZHTNX-03/10	FF 03/10 HTNX	90XHTNX-03/10	MF 03/10 HTNX	SMF 03/10 HTNX
90ZHTNX-04/10	FF 04/10 HTNX	90XHTNX-04/10	MF 04/10 HTNX	SMF 04/10 HTNX
90ZHTNX-04/20	FF 04/20 HTNX	90XHTNX-04/20	MF 04/20 HTNX	SMF 04/20 HTNX
90ZHTNX-05/20	FF 05/20 HTNX	90XHTNX-05/20	MF 05/20 HTNX	SMF 05/20 HTNX
90ZHTNX-05/25	FF 05/25 HTNX	90XHTNX-05/25	MF 05/25 HTNX	SMF 05/25 HTNX
90ZHTNX-07/25	FF 07/25 HTNX	90XHTNX-07/25	MF 07/25 HTNX	SMF 07/25 HTNX
90ZHTNX-07/30	FF 07/30 HTNX	90XHTNX-07/30	MF 07/30 HTNX	SMF 07/30 HTNX
90ZHTNX-10/30	FF 10/30 HTNX	90XHTNX-10/30	MF 10/30 HTNX	SMF 10/30 HTNX
90ZHTNX-12/30	FF 12/30 HTNX	90XHTNX-12/30	MF 12/30 HTNX	SMF 12/30 HTNX
90ZHTNX-15/30	FF 15/30 HTNX	90XHTNX-15/30	MF 15/30 HTNX	SMF 15/30 HTNX
90ZHTNX-20/30	FF 20/30 HTNX	90XHTNX-20/30	MF 20/30 HTNX	SMF 20/30 HTNX
90ZHTNX-30/30	FF 30/30 HTNX	90XHTNX-30/30	MF 30/30 HTNX	SMF 30/30 HTNX
90ZHTNX-30/50	FF 30/50 HTNX	90XHTNX-30/50	MF 30/50 HTNX	SMF 30/50 HTNX

ZHTNX - filtration efficiency 99.9999% based on 1µ - residual oil content ≤ 0.5 mg/m³ (1 bar a, 20°C) - initial differential pressure dry: 0.03 bar; wet: 0.20 bar - up to 120°C
 XHTNX - filtration efficiency 99.99999% based on 0.01µ - residual oil content ≤ 0.01 mg/m³ (1 bar a, 20°C) - initial differential pressure dry: 0.06 bar; wet: 0.25 bar - up to 120°C

*: optionally available as HTCR high temperature element with stainless steel end caps

Note: MF and SMF elements can be replaced by the ZANDER X element as a result of the reduced differential pressure due to the pleating technique

Paint-compatible Filter Elements (silicone-free)

(Filter elements with stainless steel expanded metal support and aluminium end caps, up to +80°C) correspond with the L025- and P025 specification for paint compatibility

General purpose filters		Oil removal filters		Activated carbon filters	
ZANDER	Ultrafilter	ZANDER	Ultrafilter	ZANDER	Ultrafilter
90ZPLV-02/05	FFP 02/05	90XPLV-02/05	SMFP 02/05	90ALV-02/05	AKP 02/05
90ZPLV-02/10	FFP 02/10	90XPLV-02/10	SMFP 02/10	90ALV-02/10	AKP 02/10
90ZPLV-03/05	FFP 03/05	90XPLV-03/05	SMFP 03/05	90ALV-03/05	AKP 03/05
90ZPLV-03/10	FFP 03/10	90XPLV-03/10	SMFP 03/10	90ALV-03/10	AKP 03/10
90ZPLV-04/10	FFP 04/10	90XPLV-04/10	SMFP 04/10	90ALV-04/10	AKP 04/10
90ZPLV-04/20	FFP 04/20	90XPLV-04/20	SMFP 04/20	90ALV-04/20	AKP 04/20
90ZPLV-05/20	FFP 05/20	90XPLV-05/20	SMFP 05/20	90ALV-05/20	AKP 05/20
90ZPLV-05/25	FFP 05/25	90XPLV-05/25	SMFP 05/25	90ALV-05/25	AKP 05/25
90ZPLV-07/25	FFP 07/25	90XPLV-07/25	SMFP 07/25	90ALV-07/25	AKP 07/25
90ZPLV-07/30	FFP 07/30	90XPLV-07/30	SMFP 07/30	90ALV-07/30	AKP 07/30
90ZPLV-10/30	FFP 10/30	90XPLV-10/30	SMFP 10/30	90ALV-10/30	AKP 10/30
90ZPLV-15/30	FFP 15/30	90XPLV-15/30	SMFP 15/30	90ALV-15/30	AKP 15/30
90ZPLV-20/30	FFP 20/30	90XPLV-20/30	SMFP 20/30	90ALV-20/30	AKP 20/30
90ZPLV-30/30	FFP 30/30	90XPLV-30/30	SMFP 30/30	90ALV-30/30	AKP 30/30
90ZPLV-30/50	FFP 30/50	90XPLV-30/50	SMFP 30/50	90ALV-30/50	AKP 30/50

ZPLV - filtration efficiency 99.9999% based on 1µ - residual oil content ≤ 0.5 mg/m³ (1 bar a, 20°C) - initial differential pressure dry 0.03 bar; wet: 0.10 bar - up to 80°C
 XPLV - filtration efficiency 99.99999% based on 0.01µ - residual oil content ≤ 0.01 mg/m³ (1 bar a, 20°C) - initial differential pressure dry 0.06 bar; wet: 0.15 bar - up to 80°C
 ALV - residual oil content ≤ 0.003 mg/m³ (1 bar a, 20°C) at a max. input concentration of 0.01 mg/m³ (after x grade filter) - differential pressure 0.03 bar - up to 60°C



Standard filter elements

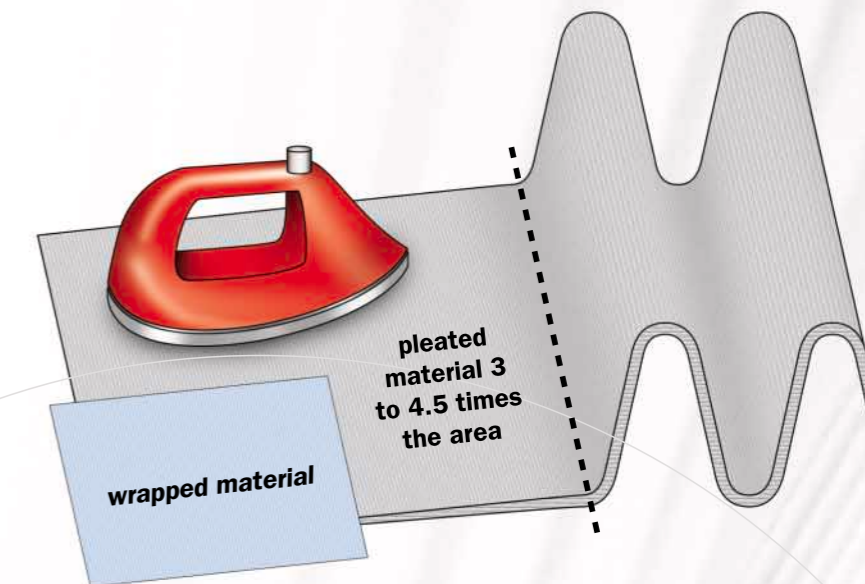


High temperature filter elements



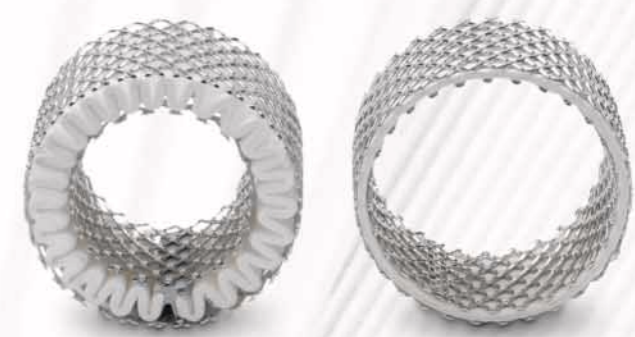
Paint-compatible filter elements

If pleated filter fleece were to be "ironed out" again, the area of the filter would be 3 to 4.5 times larger than the area of wrapped elements, depending on the type and size of the filter element.



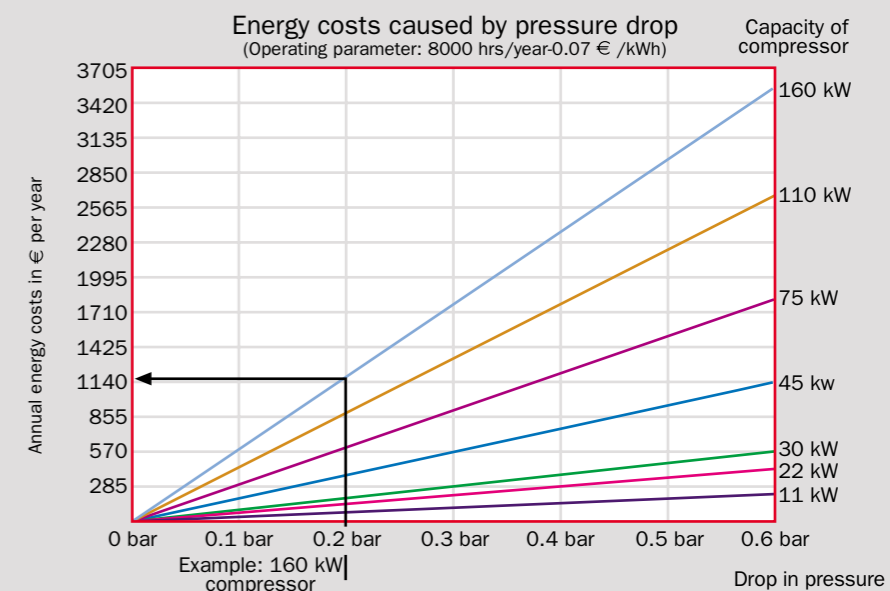
The advantages of pleated ZANDER filter elements are obvious. More filter area means:

- a lower velocity
- lower differential pressure
- better filtration efficiency
- higher dirt holding capacity
- longer service life
- lower operating costs



These advantages pay off quickly. Depending on the installed capacity, the annual potential saving per filter runs into thousands of Euro as a result of the lower differential pressure and the increased service life.

Ask one of our specialist dealers or our ZANDER sales representatives for advice about pleated ZANDER filter elements.

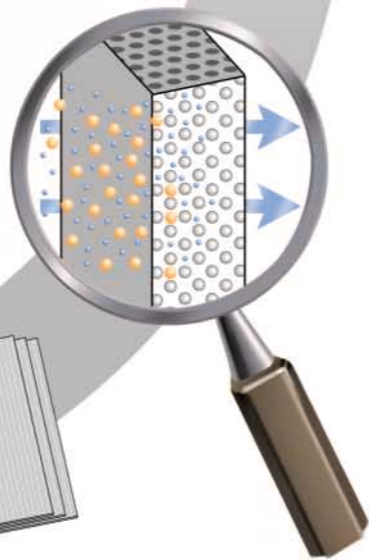


ZANDER® Filter elements for compressed air and technical gases

From the filter fleece to the filter element

At the heart of ZANDER filter elements is the pleated and multi-layered filter fleece made from a non-shedding material with a void volume of up to 96%, which is surrounded by an additional filter and supporting material. The pleated filter fleece is manufactured mechanically, giving it a constantly high quality standard. Impurities in the form of particulates or residual moisture (aerosols) are trapped by the filter fleece using several filtration mechanisms and are hence

removed from the air or gas flow. The result is an extremely efficiently filtered and purified air or gas flow. The supporting body of a ZANDER filter element consists of high-support stainless steel expanded metal support with large apertures and end caps made of plastic or optionally of aluminium or stainless steel.



- 1 top end cap with sealing ring
- 2 stainless steel expanded metal support
- 3 pleated filter fleece with integrated drainage layer
- 4 bottom end cap

Anybody can claim anything... we supply the proof



To prove our claims, we have had the quality and performance of our filter elements inspected and validated by an independent institute. In-house, ZANDER's high quality standards are guaranteed by a TQM Quality Management System and the DIN EN ISO 9001

certification. For additional information please request our "Validation of ZANDER compressed air filters" brochure or the respective validation certificates.

Ultrafilter 80-series (pleated elements with reduced differential pressure)

Standard filter elements (filter elements with stainless steel expanded metal support and aluminium end caps, up to +60°C)

Pre-filters			General purpose filters			Oil removal filters			Activated carbon filters	
ZANDER	Ultrafilter		ZANDER	Ultrafilter		ZANDER	Ultrafilter		ZANDER	Ultrafilter
80V-03/1	V-SB3/1	V-PE3/1	80Z-03/1	FF3/1		80X-03/1	MF3/1	SMF3/1	80A-03/1	AK3/1
80V-03/1,5	V-SB3/1,5	V-PE3/1,5	80Z-03/1,5	FF3/1,5		80X-03/1,5	MF3/1,5	SMF3/1,5	80A-03/1,5	AK3/1,5
80V-04/1,5	V-SB4/1,5	V-PE4/1,5	80Z-04/1,5	FF4/1,5		80X-04/1,5	MF4/1,5	SMF4/1,5	80A-04/1,5	AK4/1,5
80V-04/2,5	V-SB4/2,5	V-PE4/2,5	80Z-04/2,5	FF4/2,5		80X-04/2,5	MF4/2,5	SMF4/2,5	80A-04/2,5	AK4/2,5
80V-05/2,5	V-SB5/2,5	V-PE5/2,5	80Z-05/2,5	FF5/2,5		80X-05/2,5	MF5/2,5	SMF5/2,5	80A-05/2,5	AK5/2,5
80V-05/3	V-SB5/3	V-PE5/3	80Z-05/3	FF5/3		80X-05/3	MF5/3	SMF5/3	80A-05/3	AK5/3
80V-07/3	V-SB7/3	V-PE7/3	80Z-07/3	FF7/3		80X-07/3	MF7/3	SMF7/3	80A-07/3	AK7/3
80V-10/3	V-SB10/3	V-PE10/3	80Z-10/3	FF10/3		80X-10/3	MF10/3	SMF10/3	80A-10/3	AK10/3
80V-12/3	V-SB12/3	V-PE12/3	80Z-12/3	FF12/3		80X-12/3	MF12/3	SMF12/3	80A-12/3	AK12/3
80V-15/3	V-SB15/3	V-PE15/3	80Z-15/3	FF15/3		80X-15/3	MF15/3	SMF15/3	80A-15/3	AK15/3
80V-20/3	V-SB20/3	V-PE20/3	80Z-20/3	FF20/3		80X-20/3	MF20/3	SMF20/3	80A-20/3	AK20/3
80V-30/3	V-SB30/3	V-PE30/3	80Z-30/3	FF30/3		80X-30/3	MF30/3	SMF30/3	80A-30/3	AK30/3
80V-30/5	V-SB30/5	V-PE30/5	80Z-30/5	FF30/5		80X-30/5	MF30/5	SMF30/5	80A-30/5	AK30/5

V - filtration efficiency 99.99% based on 3µ - particle filter without draining layer - initial differential pressure dry 0.02 bar; wet: 0.07 bar
 Z - filtration efficiency 99.9999% based on 1µ - residual oil content ≤ 0.5 mg/m³ (1 bar a, 20°C) - initial differential pressure dry: 0.03 bar; wet: 0.15 bar
 X - filtration efficiency 99.9999% based on 0.01µ - residual oil content ≤ 0.01 mg/m³ (1 bar a, 20°C) - initial differential pressure dry 0.06 bar; wet: 0.20 bar
 A - residual oil content ≤ 0.003 mg/m³ (1 bar a, 20°C) at a max. input concentration of 0.01 mg/m³ (after x grade filter) - differential pressure 0.03 bar

Note: MF and SMF elements can be replaced by the ZANDER X element as a result of the reduced differential pressure due to the pleating technique

HTNX High Temperature Filter Elements

(filter elements with stainless steel expanded metal support and aluminium end caps, high-temperature drainage, up to +120°C)

General purpose filters*		Oil removal filters*	
ZANDER	Ultrafilter	ZANDER	Ultrafilter
80ZHTNX-03/1,5	FF3/1 HTNX	80XHTNX-03/1,5	MF3/1 HTNX SMF3/1 HTNX
80ZHTNX-03/1,5	FF3/1,5 HTNX	80XHTNX-03/1,5	MF3/1,5 HTNX SMF3/1,5 HTNX
80ZHTNX-04/1,5	FF4/1,5 HTNX	80XHTNX-04/1,5	MF4/1,5 HTNX SMF4/1,5 HTNX
80ZHTNX-04/2,5	FF4/2,5 HTNX	80XHTNX-04/2,5	MF4/2,5 HTNX SMF4/2,5 HTNX
80ZHTNX-05/2,5	FF5/2,5 HTNX	80XHTNX-05/2,5	MF5/2,5 HTNX SMF5/2,5 HTNX
80ZHTNX-05/3	FF5/3 HTNX	80XHTNX-05/3	MF5/3 HTNX SMF5/3 HTNX
80ZHTNX-07/3	FF7/3 HTNX	80XHTNX-07/3	MF7/3 HTNX SMF7/3 HTNX
80ZHTNX-10/3	FF10/3 HTNX	80XHTNX-10/3	MF10/3 HTNX SMF10/3 HTNX
80ZHTNX-12/3	FF12/3 HTNX	80XHTNX-12/3	MF12/3 HTNX SMF12/3 HTNX
80ZHTNX-15/3	FF15/3 HTNX	80XHTNX-15/3	MF15/3 HTNX SMF15/3 HTNX
80ZHTNX-20/3	FF20/3 HTNX	80XHTNX-20/3	MF20/3 HTNX SMF20/3 HTNX
80ZHTNX-30/3	FF30/3 HTNX	80XHTNX-30/3	MF30/3 HTNX SMF30/3 HTNX
80ZHTNX-30/5	FF30/5 HTNX	80XHTNX-30/5	MF30/5 HTNX SMF30/5 HTNX

ZHTNX - filtration efficiency 99.9999% based on 1µ - residual oil content ≤ 0.5 mg/m³ (1 bar a, 20°C) - initial differential pressure dry: 0.03 bar; wet: 0.20 bar - up to 120°C
 XHTNX - filtration efficiency 99.9999% based on 0.01µ - residual oil content ≤ 0.01 mg/m³ (1 bar a, 20°C) - initial differential pressure dry: 0.06 bar; wet: 0.25 bar - up to 120°C

*: optionally available as HPCR high temperature element with stainless steel end caps
Note: MF and SMF elements can be replaced by the ZANDER X element as a result of the reduced differential pressure due to the pleating technique

Paint-compatible Filter Elements (silicone-free)

(filter elements with stainless steel expanded metal support and aluminium end caps, up to +80°C) correspond with the L025- and P025 specification for paint compatibility

General purpose filters		Oil removal filters		Activated carbon filters	
ZANDER	Ultrafilter	ZANDER	Ultrafilter	ZANDER	Ultrafilter
80ZPLV-03/1	FFP3/1	80XPLV-03/1	SMFP3/1	80ALV-03/1	AKP3/1
80ZPLV-03/1,5	FFP3/1,5	80XPLV-03/1,5	SMFP3/1,5	80ALV-03/1,5	AKP3/1,5
80ZPLV-04/1,5	FFP4/1,5	80XPLV-04/1,5	SMFP4/1,5	80ALV-04/1,5	AKP4/1,5
80ZPLV-04/2,5	FFP4/2,5	80XPLV-04/2,5	SMFP4/2,5	80ALV-04/2,5	AKP4/2,5
80ZPLV-05/2,5	FFP5/2,5	80XPLV-05/2,5	SMFP5/2,5	80ALV-05/2,5	AKP5/2,5
80ZPLV-05/3	FFP5/3	80XPLV-05/3	SMFP5/3	80ALV-05/3	AKP5/3
80ZPLV-07/3	FFP7/3	80XPLV-07/3	SMFP7/3	80ALV-07/3	AKP7/3
80ZPLV-10/3	FFP10/3	80XPLV-10/3	SMFP10/3	80ALV-10/3	AKP10/3
80ZPLV-12/3	FFP12/3	80XPLV-12/3	SMFP12/3	80ALV-12/3	AKP12/3
80ZPLV-15/3	FFP15/3	80XPLV-15/3	SMFP15/3	80ALV-15/3	AKP15/3
80ZPLV-20/3	FFP20/3	80XPLV-20/3	SMFP20/3	80ALV-20/3	AKP20/3
80ZPLV-30/3	FFP30/3	80XPLV-30/3	SMFP30/3	80ALV-30/3	AKP30/3
80ZPLV-30/5	FFP30/5	80XPLV-30/5	SMFP30/5	80ALV-30/5	AKP30/5

ZPLV - filtration efficiency 99.9999% based on 1µ - residual oil content ≤ 0.5 mg/m³ (1 bar a, 20°C) - initial differential pressure dry 0.03 bar; wet: 0.10 bar - up to 80°C
 XPLV - filtration efficiency 99.9999% based on 0.01µ - residual oil content ≤ 0.01 mg/m³ (1 bar a, 20°C) - initial differential pressure dry 0.06 bar; wet: 0.15 bar - up to 80°C
 ALV - residual oil content ≤ 0.003 mg/m³ (1 bar a, 20°C) at a max. input concentration of 0.01 mg/m³ (after x grade filter) - differential pressure 0.03 bar - up to 60°C



Standard filter elements



High temperature filter elements



Paint-compatible filter elements

KAESER up to 1991 (pleated elements with reduced differential pressure)

Standard filter elements (filter elements with stainless steel expanded metal support and plastic end caps (except for 5075 aluminium end caps), up to +80°C

Pre-filters			Oil removal filters			Activated carbon filters		
ZANDER	KAESER		ZANDER	KAESER		ZANDER	KAESER	
1050V	1050V	9.2100.0	1050XP	1050X	9.2125.0	1050A	1050A	9.2150.0
1070V	1070V	9.2101.0	1070XP	1070X	9.2126.0	1070A	1070A	9.2151.0
1140V	1140V	9.2102.0	1140XP	1140X	9.2127.0	1140A	1140A	9.2152.0
2010V	2010V	9.2103.0	2010XP	2010X	9.2128.0	2010A	2010A	9.2153.0
2020V	2020V	9.2104.0	2020XP	2020X	9.2129.0	2020A	2020A	9.2154.0
2030V	2030V	9.2105.0	2030XP	2030X	9.2130.0	2030A	2030A	9.2155.0
2050V	2050V	9.2106.0	2050XP	2050X	9.2131.0	2050A	2050A	9.2156.0
3050V	3050V	9.2107.0	3050XP	3050X	9.2132.0	3050A	3050A	9.2157.0
3075V	3075V	9.2108.0	3075XP	3075X	9.2133.0	3075A	3075A	9.2158.0
5075V	5075V	9.2109.0	5075XP	5075X	9.2134.0	5075A	5075A	9.2159.0

V - filtration efficiency 99.99% based on 3µ - particle filter without draining layer - initial differential pressure dry 0.02 bar; wet: 0.07 bar
 X - filtration efficiency 99.9999% based on 0.01µ - residual oil content ≤ 0.01 mg/m³ (1 bar a, 20°C) - initial differential pressure dry 0.06 bar; wet: 0.15 bar
 A - residual oil content ≤ 0.003 mg/m³ (1 bar a, 20°C) at a max. input concentration of 0.01 mg/m³ (after x grade filter) - differential pressure 0.03 bar

KAESER from 1991 to 2000 (pleated elements with reduced differential pressure)

Standard filter elements (filter elements with stainless steel expanded metal support and aluminium end caps, up to +60°C)

Pre-filters			Oil removal filters			Activated carbon filters		
ZANDER	KAESER		ZANDER	KAESER		ZANDER	KAESER	
90V-02/05	02/05V	9.2122.0	90X-02/05	02/05X	9.2147.0	90A-02/05	02/05A	9.2172.0
90V-03/05	03/05V	9.2123.0	90X-03/05	03/05X	9.2148.0	90A-03/05	03/05A	9.2173.0
90V-03/10	03/10V	9.2111.0	90X-03/10	03/10X	9.2136.0	90A-03/10	03/10A	9.2161.0
90V-04/10	04/10V	9.2124.0	90X-04/10	04/10X	9.2149.0	90A-04/10	04/10A	9.2174.0
90V-04/20	04/20V	9.2112.0	90X-04/20	04/20X	9.2137.0	90A-04/20	04/20A	9.2162.0
90V-05/20	05/20V	9.2113.0	90X-05/20	05/20X	9.2138.0	90A-05/20	05/20A	9.2163.0
90V-05/25	05/25V	9.2114.0	90X-05/25	05/25X	9.2139.0	90A-05/25	05/25A	9.2164.0
90V-07/25	07/25V	9.2115.0	90X-07/25	07/25X	9.2140.0	90A-07/25	07/25A	9.2165.0
90V-07/30	07/30V	9.2116.0	90X-07/30	07/30X	9.2141.0	90A-07/30	07/30A	9.2166.0
90V-10/30	10/30V	9.2117.0	90X-10/30	10/30X	9.2142.0	90A-10/30	10/30A	9.2167.0
90V-15/30	15/30V	9.2118.0	90X-15/30	15/30X	9.2143.0	90A-15/30	15/30A	9.2168.0
90V-20/30	20/30V	9.2119.0	90X-20/30	20/30X	9.2144.0	90A-20/30	20/30A	9.2169.0
90V-30/30	30/30V	9.2120.0	90X-30/30	30/30X	9.2145.0	90A-30/30	30/30A	9.2170.0
90V-30/50	30/50V	9.2121.0	90X-30/50	30/50X	9.2146.0	90A-30/50	30/50A	9.2171.0

V - filtration efficiency 99.99% based on 3µ - particle filter without draining layer - initial differential pressure dry 0.02 bar; wet: 0.07 bar
 X - filtration efficiency 99.9999% based on 0.01µ - residual oil content ≤ 0.01 mg/m³ (1 bar a, 20°C) - initial differential pressure dry 0.06 bar; wet: 0.20 bar
 A - residual oil content ≤ 0.003 mg/m³ (1 bar a, 20°C) at a max. input concentration of 0.01 mg/m³ (after x grade filter) - differential pressure 0.03 bar

KAESER from 2000 (pleated elements with reduced differential pressure)

Standard filter elements (filter elements with stainless steel expanded metal support and aluminium end caps, up to +60°C)

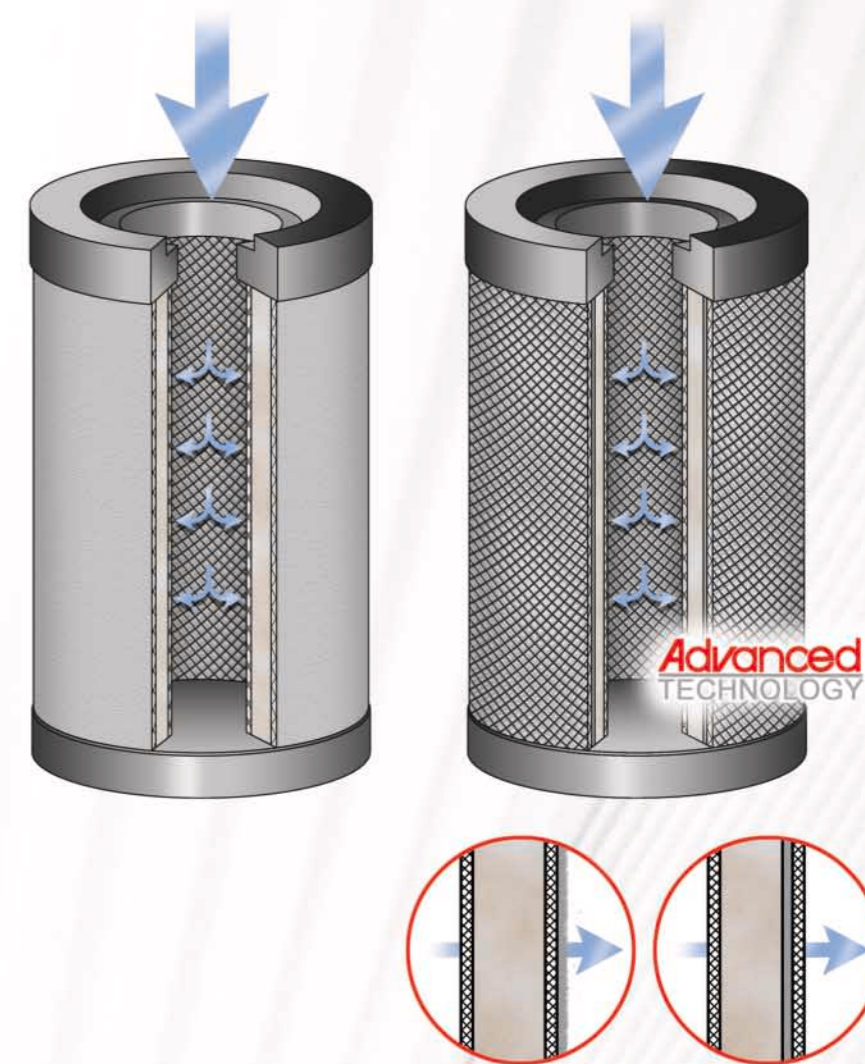
Pre-filters			Pre-/General purpose filters			General purpose filters		
ZANDER	KAESER		ZANDER	KAESER		ZANDER	KAESER	
HK012V	E-B-6	9.4812.0	HK012Z	E-C-6	9.4824.0	HK012Z	E-D-6	9.4836.0
HK016V	E-B-10	9.4813.0	HK016Z	E-C-10	9.4825.0	HK016Z	E-D-10	9.4837.0
HK020V	E-B-18	9.4814.0	HK020Z	E-C-18	9.4826.0	HK020Z	E-D-18	9.4838.0
HK024V	E-B-28	9.4815.0	HK024Z	E-C-28	9.4827.0	HK024Z	E-D-28	9.4839.0
HK028V	E-B-48	9.4816.0	HK028Z	E-C-48	9.4828.0	HK028Z	E-D-48	9.4840.0
HK032V	E-B-71	9.4817.0	HK032Z	E-C-71	9.4829.0	HK032Z	E-D-71	9.4841.0
HK036V	E-B-107	9.4818.0	HK036Z	E-C-107	9.4830.0	HK036Z	E-D-107	9.4842.0
HK040V	E-B-138	9.4819.0	HK040Z	E-C-138	9.4831.0	HK040Z	E-D-138	9.4843.0
HK044V	E-B-177	9.4820.0	HK044Z	E-C-177	9.4832.0	HK044Z	E-D-177	9.4844.0
HK048V	E-B-221	9.4821.0	HK048Z	E-C-221	9.4833.0	HK048Z	E-D-221	9.4845.0
HK052V	E-B-185	9.4822.0	HK052Z	E-C-185	9.4834.0	HK052Z	E-D-185	9.4846.0
HK054V	E-B-283	9.4823.0	HK054Z	E-C-283	9.4835.0	HK054Z	E-D-283	9.4847.0

Oil removal filters			Super fine filters			Activated carbon filters		
ZANDER	KAESER		ZANDER	KAESER		ZANDER	KAESER	
HK012X	E-E-6	9.4860.0	HK012X4	E-F-6	9.4872.0	HK012A	E-G-6	9.4884.0
HK016X	E-E-10	9.4861.0	HK016X4	E-F-10	9.4873.0	HK016A	E-G-10	9.4885.0
HK020X	E-E-18	9.4862.0	HK020X4	E-F-18	9.4874.0	HK020A	E-G-18	9.4886.0
HK024X	E-E-28	9.4863.0	HK024X4	E-F-28	9.4875.0	HK024A	E-G-28	9.4887.0
HK028X	E-E-48	9.4864.0	HK028X4	E-F-48	9.4876.0	HK028A	E-G-48	9.4888.0
HK032X	E-E-71	9.4865.0	HK032X4	E-F-71	9.4877.0	HK032A	E-G-71	9.4889.0
HK036X	E-E-107	9.4866.0	HK036X4	E-F-107	9.4878.0	HK036A	E-G-107	9.4890.0
HK040X	E-E-138	9.4867.0	HK040X4	E-F-138	9.4879.0	HK040A	E-G-138	9.4891.0
HK044X	E-E-177	9.4868.0	HK044X4	E-F-177	9.4880.0	HK044A	E-G-177	9.4892.0
HK048X	E-E-221	9.4869.0	HK048X4	E-F-221	9.4881.0	HK048A	E-G-221	9.4893.0
HK052X	E-E-185	9.4870.0	HK052X4	E-F-185	9.4882.0	HK052A	E-G-185	9.4894.0
HK054X	E-E-283	9.4871.0	HK054X4	E-F-283	9.4883.0	HK054A	E-G-283	9.4895.0

V - filtration efficiency 99.99% based on 3µ - particle filter without draining layer - initial differential pressure dry 0.02 bar; wet: 0.07 bar
 Z - filtration efficiency 99.9999% based on 1µ - residual oil content ≤ 0.5 mg/m³ (1 bar a, 20°C) - initial differential pressure dry: 0.03 bar; wet: 0.15 bar
 X - filtration efficiency 99.9999% based on 0.01µ - residual oil content ≤ 0.01 mg/m³ (1 bar a, 20°C) - initial differential pressure dry 0.06 bar; wet: 0.20 bar
 X4 - filtration efficiency ≥ 99.9999% based on 0.01µ - residual oil content ≤ 0.001 mg/m³ (1 bar a, 20°C) - initial differential pressure dry 0.12 bar; wet: 0.30 bar
 A - residual oil content ≤ 0.003 mg/m³ (1 bar a, 20°C) at a max. input concentration of 0.01 mg/m³ (after x grade filter) - differential pressure 0.03 bar

ZANDER ADVANCED technology

Instead of a foam sock (draining layer) on the outside of the filter element, ZANDER is using a new filter material for the ADVANCED technology that makes it possible to integrate the draining layer directly into the pleated ZANDER filter fleece. The draining layer behind the outer support is thus protected and secured. ZANDER ADVANCED technology gets round the problem of outer foam socks becoming brittle from chemicals, ageing or excessive thermal strain. This innovative filter material is also non-ageing, has few particulates of its own and offers improved draining results thanks to the larger surface produced by pleating. Filter elements using ZANDER ADVANCED technology are available for all existing ZANDER housings.



ZANDER High ADVANCED filter elements

The results achieved using the ZANDER ADVANCED technology motivated us to break through the barriers of micro-filtration with the development of super fine filter elements. Result: the new ZANDER High ADVANCED filter



element with a residual oil content of less than 0.001 mg/m³. And thanks to our pleating technology, a gratifyingly low differential pressure and a long service life can be achieved even at this highly efficient level of filtration.

Pre-, General Purpose-, Oil Removal-, Super Fine Filter Elements



Housings	V Pre-filters	ZP General purpose filters	XP Oil removal filters	XP4 Super fine filter
G2	1030 V	1030 ZP	1030 XP	1030 XP4
G3	1050 V	1050 ZP	1050 XP	1050 XP4
G5	1070 V	1070 ZP	1070 XP	1070 XP4
G7	1140 V	1140 ZP	1140 XP	1140 XP4
G9	2010 V	2010 ZP	2010 XP	2010 XP4
G11	2020 V	2020 ZP	2020 XP	2020 XP4
G12	2030 V	2030 ZP	2030 XP	2030 XP4
G13	2050 V	2050 ZP	2050 XP	2050 XP4
G14	3050 V	3050 ZP	3050 XP	3050 XP4
G17	3075 V	3075 ZP	3075 XP	3075 XP4
G18	5060 V	5060 ZP	5060 XP	5060 XP4
G19	5075 V	5075 ZP	5075 XP	5075 XP4



V - filtration efficiency 99.99% based on 3µ - particle filter without draining layer - initial differential pressure dry 0.02 bar; wet: 0.07 bar
 ZP - filtration efficiency 99.9999% based on 1µ - residual oil content ≤ 0.5 mg/m³ (1 bar a, 20°C) - initial differential pressure dry 0.03 bar; wet: 0.10 bar
 XP - filtration efficiency 99.99999% based on 0.01µ - residual oil content ≤ 0.01 mg/m³ (1 bar a, 20°C) - initial differential pressure dry 0.06 bar; wet: 0.15 bar
 XP4 - filtration efficiency ≥ 99.99999% based on 0.01µ - residual oil content ≤ 0.001 mg/m³ (1 bar a, 20°C) - initial differential pressure dry 0.12 bar; wet: 0.28 bar

Filter elements with stainless steel expanded metal support and plastic end caps (except for types 5060 and 5075 which have aluminium end caps), up to +80°C
Filter elements optionally available with aluminium or stainless steel (VA1.4305) end caps

Activated Carbon Filter Elements and Cartridges

Housings	A Activated carbon filters	KTA Activated carbon cartridges
G2	1030 A	
G3	1050 A	KT 1012 A
G5	1070 A	KT 1012 A
G7	1140 A	KT 1019 A
G9	2010 A	KT 2016 A
G11	2020 A	KT 2023 A
G12	2030 A	KT 2033 A
G13	2050 A	KT 2053 A
G14	3050 A	
G17	3075 A	
G18	5060 A	
G19	5075 A	



A - residual oil content ≤ 0.003 mg/m³ (1 bar a, 20°C) at a max. input concentration of 0.01 mg/m³ (after x grade filter) - differential pressure 0.03 bar
 KTA - residual oil content ≤ 0.003 mg/m³ (1 bar a, 20°C) at a max. input concentration of 0.01 mg/m³ (after x grade filter) - differential pressure depending on size

Filter elements with stainless steel expanded metal support and plastic end caps (except for types 5060 and 5075 with aluminium end caps), up to +60°C
 Cartridges made of aluminium with filter fleeces at the input and output, up to +60°C
Filter elements optionally available with aluminium or stainless steel (VA1.4305) end caps

HTNX/HTCR High Temperature Filter Elements

Housings	ZHT General purpose filters	XHT Oil removal filters	ZHC General purpose filters	XHC Oil removal filters
G2	1030 ZHTNX	1030 XHTNX	1030 ZHTCR	1030 XHTCR
G3	1050 ZHTNX	1050 XHTNX	1050 ZHTCR	1050 XHTCR
G5	1070 ZHTNX	1070 XHTNX	1070 ZHTCR	1070 XHTCR
G7	1140 ZHTNX	1140 XHTNX	1140 ZHTCR	1140 XHTCR
G9	2010 ZHTNX	2010 XHTNX	2010 ZHTCR	2010 XHTCR
G11	2020 ZHTNX	2020 XHTNX	2020 ZHTCR	2020 XHTCR
G12	2030 ZHTNX	2030 XHTNX	2030 ZHTCR	2030 XHTCR
G13	2050 ZHTNX	2050 XHTNX	2050 ZHTCR	2050 XHTCR
G14	3050 ZHTNX	3050 XHTNX	3050 ZHTCR	3050 XHTCR
G17	3075 ZHTNX	3075 XHTNX	3075 ZHTCR	3075 XHTCR
G18	5060 ZHTNX	5060 XHTNX	5060 ZHTCR	5060 XHTCR
G19	5075 ZHTNX	5075 XHTNX	5075 ZHTCR	5075 XHTCR



ZHTNX/ZHTCR - filtration efficiency 99.9999% based on 1µ - residual oil content ≤ 0.5 mg/m³ (1 bar a, 20°C) - initial differential pressure dry: 0.03 bar; wet: 0.20 bar
 XHTNX/XHTCR - filtration efficiency 99.99999% based on 0.01µ - residual oil content ≤ 0.01 mg/m³ (1 bar a, 20°C) - initial differential pressure dry: 0.06 bar; wet: 0.25 bar

HTNX (High Temperature Nomex): filter elements with stainless steel expanded metal support and aluminium end caps, high temperature drainage, up to +120°C
 HTCR (High Temperature Chemical Resistance): filter elements with stainless steel expanded metal support and stainless steel end caps (VA1.4305), high temperature drainage, up to +120°C

HANKISON HF-series (pleated elements with reduced differential pressure)

Standard filter elements (filter elements with stainless steel expanded metal support and aluminium end caps, up to +60°C)

Pre-filters		General purpose filters		Oil removal filters		Super fine filters		Activated carbon filters	
ZANDER	HANKISON	ZANDER	HANKISON	ZANDER	HANKISON	ZANDER	HANKISON	ZANDER	HANKISON
HK012V	E9-12	HK012Z	E7-12	HK012X	E5-12	HK012X4	E3-12	HK012A	E1-12
HK016V	E9-16	HK016Z	E7-16	HK016X	E5-16	HK016X4	E3-16	HK016A	E1-16
HK020V	E9-20	HK020Z	E7-20	HK020X	E5-20	HK020X4	E3-20	HK020A	E1-20
HK024V	E9-24	HK024Z	E7-24	HK024X	E5-24	HK024X4	E3-24	HK024A	E1-24
HK028V	E9-28	HK028Z	E7-28	HK028X	E5-28	HK028X4	E3-28	HK028A	E1-28
HK032V	E9-32	HK032Z	E7-32	HK032X	E5-32	HK032X4	E3-32	HK032A	E1-32
HK036V	E9-36	HK036Z	E7-36	HK036X	E5-36	HK036X4	E3-36	HK036A	E1-36
HK040V	E9-40	HK040Z	E7-40	HK040X	E5-40	HK040X4	E3-40	HK040A	E1-40
HK044V	E9-44	HK044Z	E7-44	HK044X	E5-44	HK044X4	E3-44	HK044A	E1-44
HK048V	E9-48	HK048Z	E7-48	HK048X	E5-48	HK048X4	E3-48	HK048A	E1-48
HK052V	E9-PV	HK052Z	E7-PV	HK052X	E5-PV	HK052X4	E3-PV	HK052A	E1-PV
HK054V	E9-54	HK054Z	E7-54	HK054X	E5-54	HK054X4	E3-54	HK054A	E1-54

V - filtration efficiency 99.99% based on 3µ - particle filter without draining layer - initial differential pressure dry 0.02 bar; wet: 0.07 bar
 Z - filtration efficiency 99.9999% based on 1µ - residual oil content ≤ 0.5 mg/m³ (1 bar a, 20°C) - initial differential pressure dry 0.03 bar; wet: 0.15 bar
 X - filtration efficiency 99.99999% based on 0.01µ - residual oil content ≤ 0.01 mg/m³ (1 bar a, 20°C) - initial differential pressure dry 0.06 bar; wet: 0.20 bar
 X4 - ≥ filtration efficiency 99.99999% based on 0.01µ - residual oil content ≤ 0.001 mg/m³ (1 bar a, 20°C) - initial differential pressure dry 0.12 bar; wet: 0.30 bar
 A - residual oil content ≤ 0.003 mg/m³ (1 bar a, 20°C) at a max. input concentration of 0.01 mg/m³ (after x grade filter) - differential pressure 0.03 bar

Hiross hyperfilter series (original Hiross wrapped elements without pleating)

Standard filter elements (filter elements with stainless steel expanded metal support and plastic end caps, up to +60°C)

Pre-filters Hiross				General purpose filters Hiross			
ZANDER	Hiross	Hiross	Hiross	ZANDER	Hiross	Hiross	Hiross
HR010V	Q010	Q006	Q004	HR010Z	P010	P006	P004
HR016V	Q016	Q009	Q007	HR016Z	P016	P009	P007
HR022V	Q022	Q020	Q015	HR022Z	P022	P020	P015
HR030V	Q030	Q024	Q024	HR030Z	P030	P024	P024
HR045V	Q045	Q035	Q035	HR045Z	P045	P035	P035
HR072V	Q072	Q060	Q060	HR072Z	P072	P060	P060
HR135V	Q135	Q110	Q090	HR135Z	P135	P110	P090
HR205V	Q205	Q151	Q120	HR205Z	P205	P151	P120
HR250V	Q250	Q180	Q150	HR250Z	P250	P180	P150
HR260V	Q260	Q200	-	HR260Z	P260	P200	-
HR280V	Q280	Q280	Q240	HR280Z	P280	P280	P240

V - filtration efficiency 99.99% based on 3µ - particle filter without draining layer - initial differential pressure: 0.07 bar
 Z - filtration efficiency 99.9999% based on 1µ - residual oil content ≤ 0.5 mg/m³ (1 bar a, 20°C) - initial differential pressure: 0.07 bar

Oil removal filters				Activated carbon filters			
ZANDER	Hiross	Hiross	Hiross	ZANDER	Hiross	Hiross	Hiross
HR010X	S010	S006	S004	HR010A	C010	C006	C004
HR016X	S016	S009	S007	HR016A	C016	C009	C007
HR022X	S022	S020	S015	HR022A	C022	C020	C015
HR030X	S030	S024	S024	HR030A	C030	C024	C024
HR045X	S045	S035	S035	HR045A	C045	C035	C035
HR072X	S072	S060	S060	HR072A	C072	C060	C060
HR135X	S135	S110	S090	HR135A	C135	C110	C090
HR205X	S205	S151	S120	HR205A	C205	C151	C120
HR250X	S250	S180	S150	HR250A	C250	C180	C150
HR260X	S260	S200	-	HR260A	C260	C200	-
HR280X	S280	S280	S240	HR280A	C280	C280	C240

X - filtration efficiency 99.99999% based on 0.01µ - residual oil content ≤ 0.01 mg/m³ (1 bar a, 20°C) - initial differential pressure: 0.10 bar
 A - residual oil content ≤ 0.003 mg/m³ (1 bar a, 20°C) at a max. input concentration of 0.01 mg/m³ (after x grade filter) - differential pressure: 0.07 bar

domnick-hunter Process Filters

Steam and sterile filter elements

Process filter elements for domnick-hunter VBA-housing series

Steam filters 1µ		Steam filters 25µ		Steam filters 1µ		Sterile filters	
ZANDER	dh	ZANDER	dh	ZANDER	dh	ZANDER	dh
D09T 1µm	ZCSSB-001T	D09T 25µm	ZCSSB-025T	ZCHS-BT	ZCHSB-001T	HB09T	ZCHB-BT
D13T 1µm	ZCSSA-001T	D13T 25µm	ZCSSA-025T	ZCHS-AT	ZCHSA-001T	HB13T	ZCHB-AT
D14T 1µm	ZCSS1-001C	D14T 25µm	ZCSS1-025C	ZCHS-1C	ZCHS1-001C	HB14T	ZCHB-1C
D18T 1µm	ZCSS2-001C	D18T 25µm	ZCSS2-025C	ZCHS-2C	ZCHS2-001C	HB18T	ZCHB-2C
D19T 1µm	ZCSS3-001C	D19T 25µm	ZCSS3-025C	ZCHS-3C	ZCHS3-001C	HB19T	ZCHB-3C
				DPL19	DPL19		
				DPL20	DPL20		

D_T 1µm – sinter metal cartridge with stainless steel end caps – VA 1.4404 - efficiency 1µ - initial differential pressure 100 mbar (at a nominal capacity of 134°C saturated steam)

D_T 25µm - sinter metal cartridge with stainless steel end caps – VA 1.4404 - efficiency 25µ - initial differential pressure 100 mbar (at a nominal capacity of 134°C saturated steam)

ZCHS/DPL – pleated stainless steel mesh with stainless steel end caps – VA 1.4404 – efficiency 1µ - initial differential pressure 25 mbar (at a nominal capacity of 134°C saturated steam)

HB_T – PTFE impregnated hydrophobic non-shedding mesh, pleated, with polypropylene supporting body – fineness 0,01µ - initial differential pressure 100 mbar

domnick-hunter Process Filters

Steam and sterile filter elements

Process filter elements for Ultrafilter housings

Steam filters 1µ		Steam filters 25µ		Sterile filters	
ZANDER	dh	ZANDER	dh	ZANDER	dh
80DS-R03/1 1µ	ZP 3/1 UR	80DS-R03/1 25µ	ZS 3/1 UR	80ST-R03/1	ME 3/1
80DS-R03/1,5 1µ	ZP 3/1,5 UR	80DS-R03/1,5 25µ	ZS 3/1,5 UR	80ST-R03/1,5	ME 3/1,5
80DS-R04/1,5 1µ	ZP 4/1,5 UR	80DS-R04/1,5 25µ	ZS 4/1,5 UR	80ST-R04/1,5	ME 4/1,5
80DS-R04/2,5 1µ	ZP 4/2,5 UR	80DS-R04/2,5 25µ	ZS 4/2,5 UR	80ST-R04/2,5	ME 4/2,5
80DS-R05/2,5 1µ	ZP 5/2,5 UR	80DS-R05/2,5 25µ	ZS 5/2,5 UR	80ST-R05/2,5	ME 5/2,5
80DS-R05/3 1µ	ZP 5/3 UR	80DS-R05/3 25µ	ZS 5/3 UR	80ST-R05/3	ME 5/3
80DS-R10/3 1µ	ZP 10/3 UR	80DS-R10/3 25µ	ZS 10/3 UR	80ST-R10/3	ME 10/3
80DS-R15/3 1µ	ZP 15/3 UR	80DS-R15/3 25µ	ZS 15/3 UR	80ST-R15/3	ME 15/3
80DS-R20/3 1µ	ZP 20/3 UR	80DS-R20/3 25µ	ZS 20/3 UR	80ST-R20/3	ME 20/3
80DS-R30/3 1µ	ZP 30/3 UR	80DS-R30/3 25µ	ZS 30/3 UR	80ST-R30/3	ME 30/3
80DS-R30/5 1µ	ZP 30/5 UR	80DS-R30/5 25µ	ZS 30/5 UR	80ST-R30/5	ME 30/5

90DS-R02/05 1µ	ZP 02/05 UI	90DS-R02/05 25µ	ZS 02/05 UI	90ST-R02/05	MER 02/05
90DS-R02/10 1µ	ZP 02/10 UI	90DS-R02/10 25µ	ZS 02/10 UI	90ST-R02/10	MER 02/10
90DS-R03/05 1µ	ZP 03/05 UI	90DS-R03/05 25µ	ZS 03/05 UI	90ST-R03/05	MER 03/05
90DS-R03/10 1µ	ZP 03/10 UI	90DS-R03/10 25µ	ZS 03/10 UI	90ST-R03/10	MER 03/10
90DS-R04/10 1µ	ZP 04/10 UI	90DS-R04/10 25µ	ZS 04/10 UI	90ST-R04/10	MER 04/10
90DS-R04/20 1µ	ZP 04/20 UI	90DS-R04/20 25µ	ZS 04/20 UI	90ST-R04/20	MER 04/20
90DS-R05/20 1µ	ZP 05/20 UI	90DS-R05/20 25µ	ZS 05/20 UI	90ST-R05/20	MER 05/20
90DS-R05/25 1µ	ZP 05/25 UI	90DS-R05/25 25µ	ZS 05/25 UI	90ST-R05/25	MER 05/25
90DS-R07/25 1µ	ZP 07/25 UI	90DS-R07/25 25µ	ZS 07/25 UI	90ST-R07/25	MER 07/25
90DS-R07/30 1µ	ZP 07/30 UI	90DS-R07/30 25µ	ZS 07/30 UI	90ST-R07/30	MER 07/30
90DS-R10/30 1µ	ZP 10/30 UI	90DS-R10/30 25µ	ZS 10/30 UI	90ST-R10/30	MER 10/30
90DS-R15/30 1µ	ZP 15/30 UI	90DS-R15/30 25µ	ZS 15/30 UI	90ST-R15/30	MER 15/30
90DS-R20/30 1µ	ZP 20/30 UI	90DS-R20/30 25µ	ZS 20/30 UI	90ST-R20/30	MER 20/30
90DS-R30/30 1µ	ZP 30/30 UI	90DS-R30/30 25µ	ZS 30/30 UI	90ST-R30/30	MER 30/30
90DS-R30/50 1µ	ZP 30/50 UI	90DS-R30/50 25µ	ZS 30/50 UI	90ST-R30/50	MER 30/50

90PDS-R02/05 1µ	ZP 02/05 UP	90PDS-R02/05 25µ	ZS 02/05 UP	90PST-R02/05	ME 02/05
90PDS-R02/10 1µ	ZP 02/10 UP	90PDS-R02/10 25µ	ZS 02/10 UP	90PST-R02/10	ME 02/10
90PDS-R03/05 1µ	ZP 03/05 UP	90PDS-R03/05 25µ	ZS 03/05 UP	90PST-R03/05	ME 03/05
90PDS-R03/10 1µ	ZP 03/10 UP	90PDS-R03/10 25µ	ZS 03/10 UP	90PST-R03/10	ME 03/10
90PDS-R04/10 1µ	ZP 04/10 UP	90PDS-R04/10 25µ	ZS 04/10 UP	90PST-R04/10	ME 04/10
90PDS-R04/20 1µ	ZP 04/20 UP	90PDS-R04/20 25µ	ZS 04/20 UP	90PST-R04/20	ME 04/20
90PDS-R05/20 1µ	ZP 05/20 UP	90PDS-R05/20 25µ	ZS 05/20 UP	90PST-R05/20	ME 05/20
90PDS-R05/25 1µ	ZP 05/25 UP	90PDS-R05/25 25µ	ZS 05/25 UP	90PST-R05/25	ME 05/25
90PDS-R07/25 1µ	ZP 07/25 UP	90PDS-R07/25 25µ	ZS 07/25 UP	90PST-R07/25	ME 07/25
90PDS-R07/30 1µ	ZP 07/30 UP	90PDS-R07/30 25µ	ZS 07/30 UP	90PST-R07/30	ME 07/30
90PDS-R10/30 1µ	ZP 10/30 UP	90PDS-R10/30 25µ	ZS 10/30 UP	90PST-R10/30	ME 10/30
90PDS-R15/30 1µ	ZP 15/30 UP	90PDS-R15/30 25µ	ZS 15/30 UP	90PST-R15/30	ME 15/30
90PDS-R20/30 1µ	ZP 20/30 UP	90PDS-R20/30 25µ	ZS 20/30 UP	90PST-R20/30	ME 20/30
90PDS-R30/30 1µ	ZP 30/30 UP	90PDS-R30/30 25µ	ZS 30/30 UP	90PST-R30/30	ME 30/30
90PDS-R30/50 1µ	ZP 30/50 UP	90PDS-R30/50 25µ	ZS 30/50 UP	90PST-R30/50	ME 30/50

80DS-R_1µ/25µ - sinter metal cartridge with stainless steel end caps, welded, thread connection with one O-ring – VA 1.4404 - efficiency 1µ/25µ

90DS-R_1µ/25µ - sinter metal cartridge with stainless steel end caps, welded, thread connection with two O-rings – VA 1.4404 - efficiency 1µ/25µ

90PDS-R_1µ/25µ - sinter metal cartridge with stainless steel end caps, welded, plug connection with two O-rings – VA 1.4404 - efficiency 1µ/25µ

80ST-R_ wrapped borosilicate non-shedding fleece with Nomex supporting material, VA 1.4404 stainless steel end caps, thread connection with one O-ring - efficiency 0.01µ

90ST-R_ wrapped borosilicate non-shedding fleece with Nomex supporting material, VA 1.4404 stainless steel end caps, thread connection with two O-rings - efficiency 0.01µ

90PST-R_ wrapped borosilicate non-shedding fleece with Nomex supporting material, VA 1.4404 stainless steel end caps, plug connection with two O-rings - efficiency 0.01µ

Paint-compatible Filter Elements (silicone-free)

Housing	VLV Pre-filters	ZPLV General purpose filters	XPLV Oil removal filters	ALV Activated carbon filters
G3	1050 VLV	1050 ZPLV	1050 XPLV	1050 ALV
G5	1070 VLV	1070 ZPLV	1070 XPLV	1070 ALV
G7	1140 VLV	1140 ZPLV	1140 XPLV	1140 ALV
G9	2010 VLV	2010 ZPLV	2010 XPLV	2010 ALV
G11	2020 VLV	2020 ZPLV	2020 XPLV	2020 ALV
G12	2030 VLV	2030 ZPLV	2030 XPLV	2030 ALV
G13	2050 VLV	2050 ZPLV	2050 XPLV	2050 ALV
G14	3050 VLV	3050 ZPLV	3050 XPLV	3050 ALV
G17	3075 VLV	3075 ZPLV	3075 XPLV	3075 ALV
G18	5060 VLV	5060 ZPLV	5060 XPLV	5060 ALV
G19	5075 VLV	5075 ZPLV	5075 XPLV	5075 ALV



VLV - filtration efficiency 99.99% based on 3µ - particle filter without draining layer - initial differential pressure dry 0.02 bar; wet: 0.07 bar

ZPLV - filtration efficiency 99.9999% based on 1µ - residual oil content ≤ 0.5 mg/m³ (1 bar a, 20°C) - initial differential pressure dry 0.03 bar; wet: 0.10 bar

XPLV - filtration efficiency 99.99999% based on 0.01µ - residual oil content ≤ 0.01 mg/m³ (1 bar a, 20°C) - initial differential pressure dry 0.06 bar; wet: 0.15 bar

ALV - residual oil content ≤ 0.003 mg/m³ (1 bar a, 20°C) at a max. input concentration of 0.01 mg/m³ (after x grade filter) - differential pressure 0.03 bar

Filter elements with stainless steel expanded metal support and plastic end caps (except for types 5060 and 5075 which have aluminium end caps), specially cleaned, up to +80°C

Paint-compatible filter elements from ZANDER correspond with the LO25- and PO25-specification for use in paint-compatible areas.

Pre-, General Purpose-, Oil Removal-, Active Carbon, Steam and Sterile Filter Elements for ZANDER Process Filter Housing S-series

Housings	V Pre-filters	ZP General purpose filters	XP Oil removal filters	A Active carbon filters
S02	V 09 T	ZP 09 T	XP 09 T	A 09 T
S05	V 09 T	ZP 09 T	XP 09 T	A 09 T
S07	V 09 T	ZP 09 T	XP 09 T	A 09 T
S09	V 09 T	ZP 09 T	XP 09 T	A 09 T
S11	V 13 T	ZP 13 T	XP 13 T	A 13 T
S12	V 13 T	ZP 13 T	XP 13 T	A 13 T
S13	V 13 T	ZP 13 T	XP 13 T	A 13 T
S14	V 14 T	ZP 14 T	XP 14 T	A 14 T
S15	V 18 T	ZP 18 T	XP 18 T	A 18 T
S18	V 18 T	ZP 18 T	XP 18 T	A 18 T
S19	V 19 T	ZP 19 T	XP 19 T	A 19 T



Housings	D 1µm Sinter steam filters	D 25µm Sinter steam filters	HS/DPL 1µm Mesh steam filters	HB Sterile filters
S02	D 09T 1µm	D 09T 25µm	ZCHS-BT	HB 09 T
S05	D 09T 1µm	D 09T 25µm	ZCHS-BT	HB 09 T
S07	D 09T 1µm	D 09T 25µm	ZCHS-BT	HB 09 T
S09	D 09T 1µm	D 09T 25µm	ZCHS-BT	HB 09 T
S11	D 13T 1µm	D 13T 25µm	ZCHS-AT	HB 13 T
S12	D 13T 1µm	D 13T 25µm	ZCHS-AT	HB 13 T
S13	D 13T 1µm	D 13T 25µm	ZCHS-AT	HB 13 T
S14	D 14T 1µm	D 14T 25µm	ZCHS-1C	HB 14 T
S15	D 18T 1µm	D 18T 25µm	ZCHS-2C	HB 18 T
S18	D 18T 1µm	D 18T 25µm	ZCHS-2C	HB 18 T
S19	D 19T 1µm	D 19T 25µm	ZCHS-3C	HB 19 T
DG19			DPL19	
DG20			DPL20	



V_T - filtration efficiency 99.99% based on 3µ - particle filter without draining layer - initial differential pressure dry 0.02 bar; wet: 0.07 bar

ZP_T - filtration efficiency 99.9999% based on 1µ - residual oil content ≤ 0.5 mg/m³ (1 bar a, 20°C) - initial differential pressure dry 0.03 bar; wet: 0.10 bar

XP_T - filtration efficiency 99.99999% based on 0.01µ - residual oil content ≤ 0.01 mg/m³ (1 bar a, 20°C) - initial differential pressure dry 0.09 bar; wet: 0.22 bar

A_T - residual oil content ≤ 0.003 mg/m³ (1 bar a, 20°C) at a max. input concentration of 0.01 mg/m³ (after x grade filter) - differential pressure 0.03 bar

D_T 1µm - sinter metal cartridge with stainless steel end caps – VA 1.4404 - efficiency 1µ - initial differential pressure 0.10 bar (at a nominal capacity of 134°C saturated steam)

D_T 25µm - sinter metal cartridge with stainless steel end caps – VA 1.4404 - efficiency 25µ - initial differential pressure 0.10 bar (at a nominal capacity of 134°C saturated steam)

ZCHS/DPL - pleated stainless steel fibre mesh with stainless steel end caps – VA 1.4404 - efficiency 1µ - initial differential pressure 0.025 bar (at a nominal capacity of 134°C saturated steam)

HB_T - PTFE impregnated hydrophobic non-shedding fleece, pleated, with polypropylene supporting body - fineness 0.01µ - initial differential pressure 0.10 bar

Filter Elements for ZANDER Flange Filters F17 to F200

Housings	F17	F19	F20	F30	F40	F60	F80	F100	F120	F160	F200
Quantity	1	1	2	3	4	6	8	10	12	16	20
Filter element	3075	5075	3075	3075	3075	3075	3075	3075	3075	3075	3075

ALUP (pleated elements with reduced differential pressure)

Standard filter elements (filter elements with stainless steel expanded metal support and aluminium end caps, up to +60°C)

Pre-filters		General purpose filters		Oil removal filters		Activated carbon filters	
ZANDER	ALUP	ZANDER	ALUP	ZANDER	ALUP	ZANDER	ALUP
80V-03/1	VA3/1	80X-03/1	MA3/1	80X-03/1	SA3/1	80A-03/1	AK3/1
80V-03/1,5	VA3/1,5	80X-03/1,5	MA3/1,5	80X-03/1,5	SA3/1,5	80A-03/1,5	AK3/1,5
80V-04/1,5	VA4/1,5	80X-04/1,5	MA4/1,5	80X-04/1,5	SA4/1,5	80A-04/1,5	AK4/1,5
80V-04/2,5	VA4/2,5	80X-04/2,5	MA4/2,5	80X-04/2,5	SA4/2,5	80A-04/2,5	AK4/2,5
80V-05/2,5	VA5/2,5	80X-05/2,5	MA5/2,5	80X-05/2,5	SA5/2,5	80A-05/2,5	AK5/2,5
80V-05/3	VA5/3	80X-05/3	MA5/3	80X-05/3	SA5/3	80A-05/3	AK5/3
80V-10/3	VA10/3	80X-10/3	MA10/3	80X-10/3	SA10/3	80A-10/3	AK10/3
80V-15/3	VA15/3	80X-15/3	MA15/3	80X-15/3	SA15/3	80A-15/3	AK15/3
80V-20/3	VA20/3	80X-20/3	MA20/3	80X-20/3	SA20/3	80A-20/3	AK20/3
80V-30/3	VA30/3	80X-30/3	MA30/3	80X-30/3	SA30/3	80A-30/3	AK30/3
80V-30/5	VA30/5	80X-30/5	MA30/5	80X-30/5	SA30/5	80A-30/5	AK30/5

V - filtration efficiency 99.99% based on 3µ - particle filter without draining layer - initial differential pressure dry 0.02 bar; wet: 0.07 bar

X - filtration efficiency 99.99999% based on 0.01µ - residual oil content ≤ 0.01 mg/m³ (1 bar a, 20°C) - initial differential pressure dry 0.06 bar; wet: 0.20 barA - residual oil content ≤ 0.003 mg/m³ (1 bar a, 20°C) at a max. input concentration of 0.01 mg/m³ (after x grade filter) - differential pressure 0.03 bar**Note: MA and SA elements can be replaced by the ZANDER X element as a result of the reduced differential pressure due to the pleating technique****ALUP** (pleated elements with reduced differential pressure)

Standard filter elements (filter elements with stainless steel expanded metal support and plastic end caps) (except for type 5060, 5070 aluminium end caps), up to +80°C

Pre-filters		General purpose filters		Oil removal filters		Activated carbon filters	
ZANDER	ALUP	ZANDER	ALUP	ZANDER	ALUP	ZANDER	ALUP
1030V	VA1030	1030XP	MA1030	1030XP	SA1030	1030A	AK1030
1050V	VA1050	1050XP	MA1050	1050XP	SA1050	1050A	AK1050
1070V	VA1070	1070XP	MA1070	1070XP	SA1070	1070A	AK1070
1140V	VA1140	1140XP	MA1140	1140XP	SA1140	1140A	AK1140
2010V	VA2010	2010XP	MA2010	2010XP	SA2010	2010A	AK2010
2020V	VA2020	2020XP	MA2020	2020XP	SA2020	2020A	AK2020
2030V	VA2030	2030XP	MA2030	2030XP	SA2030	2030A	AK2030
2050V	VA2050	2050XP	MA2050	2050XP	SA2050	2050A	AK2050
3050V	VA3050	3050XP	MA3050	3050XP	SA3050	3050A	AK3050
3075V	VA3075	3075XP	MA3075	3075XP	SA3075	3075A	AK3075
5060V	VA5060	5060XP	MA5060	5060XP	SA5060	5060A	AK5060
5075V	VA5075	5075XP	MA5075	5075XP	SA5075	5075A	AK5075

V - filtration efficiency 99.99% based on 3µ - particle filter without draining layer - initial differential pressure dry 0.02 bar; wet: 0.07 bar

X - filtration efficiency 99.99999% based on 0.01µ - residual oil content ≤ 0.01 mg/m³ (1 bar a, 20°C) - initial differential pressure dry 0.06 bar; wet: 0.15 barA - residual oil content ≤ 0.003 mg/m³ (1 bar a, 20°C) at a max. input concentration of 0.01 mg/m³ (after x grade filter) - differential pressure 0.03 bar**Note: MA and SA elements can be replaced by the ZANDER X element as a result of the reduced differential pressure due to the pleating technique****Atlas-Copco DD/PD/QD series** (pleated elements with reduced differential pressure)

Standard filter elements (filter elements with stainless steel expanded metal support and aluminium end caps) (except for 220-660 plastic end caps), up to +60°C

General purpose filters		Oil removal filters		Activated carbon filters				
ZANDER	Atlas-Copco	ZANDER	Atlas-Copco	ZANDER	Atlas-Copco			
D009Z	2901-0190-00	1202-6255-02	D009X	2901-0195-00	1202-6255-01	D006AC	2901-0201-00	1202-6264-00
D017Z	2901-0191-00	1202-6257-02	D017X	2901-0196-00	1202-6257-01	D013AC	2901-0202-00	1202-6281-01
D030Z	2901-0234-00	1202-6257-04	D030X	2901-0233-00	1202-6257-03	D025AC	2901-0203-00	1202-6268-01
D058Z	2901-0192-00	1202-6259-02	D058X	2901-0197-00	1202-6259-01	D040AC	2901-0204-00	1202-6281-02
D145Z	2901-0193-00	1202-6259-04	D145X	2901-0198-00	1202-6259-03	D065AC	2901-0235-00	1202-6268-02
D220Z	2901-0194-00	1202-6262-02	D220X	2901-0199-00	1202-6262-01	D085AC	2901-0205-00	1202-6268-03
D330Z	2901-0322-00	1202-6262-04	D330X	2901-0323-00	1202-6262-03	D220A	2901-0206-00	1202-626A3-01
D430Z	2906-0212-00	1202-8573-02	D430X	2906-0214-00	1202-8573-01	D330A	2901-0324-00	1202-6263-02
D620Z	2906-0213-00	1202-6273-02	D620X	2906-0215-00	1202-6273-01	D430A	2906-0216-00	1202-8572-00
						D620A	2906-0217-00	1202-6274-00

Z - filtration efficiency 99.9999% based on 1µ - residual oil content ≤ 0.5 mg/m³ (1 bar a, 20°C) - initial differential pressure dry 0.03 bar; wet: 0.15 barX - filtration efficiency 99.99999% based on 0.01µ - residual oil content ≤ 0.01 mg/m³ (1 bar a, 20°C) - initial differential pressure dry 0.06 bar; wet: 0.20 barA - residual oil content ≤ 0.003 mg/m³ (1 bar a, 20°C) at a max. input concentration of 0.01 mg/m³ (after x grade filter) - differential pressure 0.03 bar**domnick-hunter housings** (pleated elements with reduced differential pressure)

Standard filter elements (filter elements with stainless steel expanded metal support and aluminium end caps (except for 220-660 plastic end caps), up to +60°C)

ZANDER	Pre-filters domnick hunter				
D009V	K009PF	K006PF	E006PF		
D017V	K017PF	K013PF	E013PF		
D030V	K030PF	K025PF	E025PF		
D058V	K058PF	K040PF	E040PF		
D145V	K145PF	K085PF	E085PF		
D220V	K220PF	K195PF	E195PF	E120PF	E100PF
D330V	K330PF	K295PF	E295PF	E250PF	E200PF
D430V	K430PF	K400PF	E400PF		
D620V	K620PF	K500PF	E500PF	E360PF	E300PF



ZANDER	General purpose filters domnick hunter					
D009Z	K009AO	K006AO	E006AO			
D017Z	K017AO	K013AO	E013AO	E007AO	E007AO	
D030Z	K030AO	K025AO	E025AO	E011AO	E011AO	
D058Z	K058AO	K040AO	E040AO	E035AO	E035AO	
D145Z	K145AO	K085AO	E085AO	E060AO	E060AO	
D220Z	K220AO	K195AO	E195AO	E120AO	E100AO	C12MSDB
D330Z	K330AO	K295AO	E295AO	E250AO	E200AO	C24MSDB
D430Z	K430AO	K400AO	E400AO			
D620Z	K620AO	K500AO	E500AO	E360AO	E300AO	C245MSD



ZANDER	Oil removal filters domnick hunter					
D009X	K009AA	K006AA	E006AA			
D017X	K017AA	K013AA	E013AA	E007AA	E007AA	
D030X	K030AA	K025AA	E025AA	E011AA	E011AA	
D058X	K058AA	K040AA	E040AA	E035AA	E035AA	
D145X	K145AA	K085AA	E085AA	E060AA	E060AA	
D220X	K220AA	K195AA	E195AA	E120AA	E100AA	C12DB
D330X	K330AA	K295AA	E295AA	E250AA	E200AA	C24DB
D430X	K430AA	K400AA	E400AA			
D620X	K620AA	K500AA	E500AA	E360AA	E300AA	C245DB



ZANDER	Activated carbon elements domnick hunter					
D009A	K009ACS	K006ACS	E006ACP			
D017A	K017ACS	K013ACS	E013ACP			
D030A	K030ACS	K025ACS	E025ACP			
D058A	K058ACS	K040ACS	E040ACP			
D145A	K145ACS	K085ACS	E085ACP			
D220A	K220ACS	K195ACS	E195ACP	E120AC	E100AC	C12ACDB
D330A	K330ACS	K295ACS	E295ACP	E250AC	E200AC	C24ACDB
D430A	K430ACS	K400ACS	E400ACP			
D620A	K620ACS	K500ACS	E500ACP	E360AC	E300AC	C245ACD



ZANDER	Activated carbon cartridges domnick hunter				
D006AC	K006AC	K006AC	E006AC		
D013AC	K013AC	K013AC	E013AC		
D025AC	K025AC	K025AC	E025AC		
D040AC	K040AC	K040AC	E040AC		
D065AC	K065AC	K065AC	E065AC		
D085AC	K085AC	K085AC	E085AC		



V - filtration efficiency 99.99% based on 3µ - particle filter without draining layer - initial differential pressure dry 0.02 bar; wet: 0.07 bar

Z - filtration efficiency 99.9999% based on 1µ - residual oil content ≤ 0.5 mg/m³ (1 bar a, 20°C) - initial differential pressure dry 0.03 bar; wet: 0.15 barX - filtration efficiency 99.99999% based on 0.01µ - residual oil content ≤ 0.01 mg/m³ (1 bar a, 20°C) - initial differential pressure dry 0.06 bar; wet: 0.20 barA - residual oil content ≤ 0.003 mg/m³ (1 bar a, 20°C) at a max. input concentration of 0.01 mg/m³ (after x grade filter) - differential pressure 0.03 barAC - residual oil content ≤ 0.003 mg/m³ (1 bar a, 20°C) at a max. input concentration of 0.01 mg/m³ (after x grade filter) - differential pressure depending on size