

FILTER ELEMENT OZA ST-R

(Particulate + Bacteria removal + Sterile)

DESCRIPTION

OZA ST-R filter elements have been developed for high-efficient sterile filtration of compressed air, process air and technical gasses. Depth filter media made of borosilicate glass microfibers assures high-efficient removal of sub-micron particles down to 0,01 μ m including microorganisms (bacteria). Filter media is rigidly held between two stainless steel cylinders and encapsulated between stainless steel end-caps. The result is filter element with exceptional strength assuring high-efficient filtration and allowing large number of sterilization cycles.



APPLICATIONS

- Packing industry
- Biotechnology
- Breweries
- Chemical industry
- Diaries
- Fermentation processes
- Food & beverage industry
- Pharmaceutical industry
- Hospitals

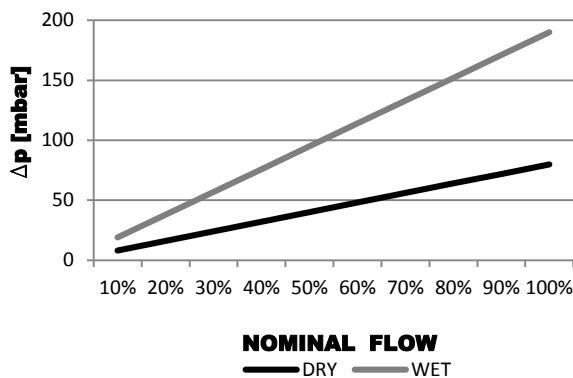
FILTER ELEMENT RATING ACCORDING TO ISO8573-1

Solid particles	Water	Oil
Class 1	-	-

Validated according to ISO12500-3

TECHNICAL SPECIFICATION

Operating temperature	-20 / +150°C	-4 / +302 °F
Short duration temperature limit (max 15min)	200 °C	392 °F
Differential pressure (dry)	80 mbar	1,160 PSI
Differential pressure (wet)	190 mbar	2,756 PSI
Particle retention (nominal)	99,9999% (0,01 μ m)	
Manufactured without use of binders or other chemical additives		✓
100% integrity tested (DOP test)		✓
All components meet the FDA requirements for contact with food in accordance with the Code of Federal Regulations (CFR), title 21		✓



MATERIALS

Filter media	Borosilicate micro fibers
Support (inner-outer)	Stainless Steel 1.4301
Bonding	Silicone
Endcaps	Stainless Steel 1.4301
Sealing	Silicone

SIZES

FILTER ELEMENT SIZE	DIMENSIONS [mm]
OZA 1080 ST-R	Ø=53; H=74
OZA 1160 ST-R	Ø=53; H=150
OZA 2016 ST-R	Ø=76; H=142
OZA 2026 ST-R	Ø=76; H=242
OZA 2038 ST-R	Ø=76; H=352
OZA 2055 ST-R	Ø=76; H=487
OZA 3055 ST-R	Ø=93; H=501
OZA 3080 ST-R	Ø=93; H=751

Ø=Diameter; H=height

CORRECTION FACTORS

To calculate the correct capacity of a given filter based on actual operating conditions, multiply the nominal flow capacity by the appropriate correction factor(s).

CORRECTED CAPACITY = NOMINAL FLOW CAPACITY x C_{OP}

OPERATING PRESSURE

[bar]	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
[psi]	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
C _{OP}	0,38	0,5	0,63	0,75	0,88	1	1,13	1,25	1,38	1,50	1,63	1,75	1,88	2,00	2,13

STERILIZATION (saturated steam)

Cumulative steaming time:

- 121°C/250°F, Sterilization 30min, Heating and cooling 30min (100 cycles)
- 132°C/270°F, Sterilization 20min, Heating and cooling 40min (100 cycles)
- 143°C/290°F, Sterilization 10min, Heating and cooling 50min (100 cycles)


MAINTENANCE

Replace filter element when first of following criteria is reached:

- twelve months in operation
- as required by application
- prescribed number of sterilisation cycles

Please note that all OZA ST-R (sterile) filter elements are delivered unsterile in unsterile packaging! Please sterilize the filter elements before first use if needed for the application.

INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE

	Our quality management system is certified by BUREAU VERITAS in conformity with ISO 9001:2008 Reg. number: 200285
---	--