

OXOPOR

Oxygen gas filtration

Oxygen gas is a combusive agent par excellence and, under specific operating conditions, the strong and rapid oxydation phenomena can originate spontaneous combustion of internal and external materials. High gas pressures and velocities, commonly used for gas transfer applications in petrochemical and steel plants, increase the risk of disastrous events with serious personal injuries and explosions.

Bea Technologies has developed OXOPOR filter elements and FO housings specifically designed for the use of gaseous oxygen. The filter element consists of a sintered bronze filter media wound around a stainless steel core suitable to support high differential pressures. The circumferential and longitudinal welds are made by electrowelding process. The OXOPOR filter elements are 100% controlled to ensure integrity and cleanliness.



APPLICATIONS

- Steel plants
- Petrochemical plants
- Oxygen pipe line
- Air separation plants

Materials

Filter media:	sintered bronze
Core:	AISI 316 L
End caps:	copper alloy

Finishing

The product is completely degreased for Oxygen use

Models

Performance

OXOPOR 9500	20 µm @ 99.9% - 5 µm @ 98%
OXOPOR 4750	Max differential pressure : 60bar

HOUSINGS

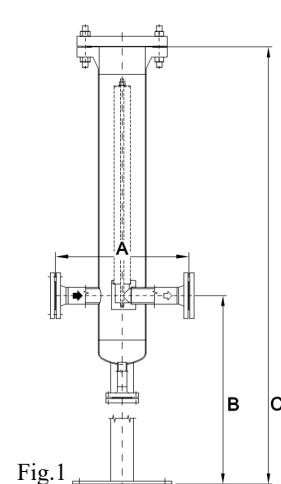
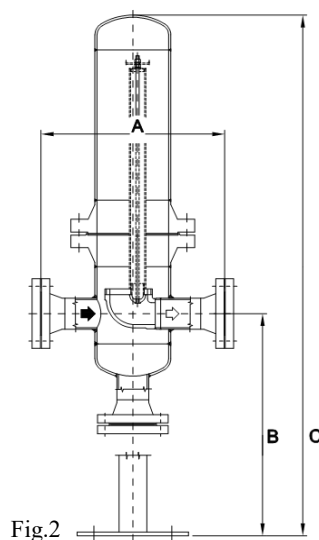
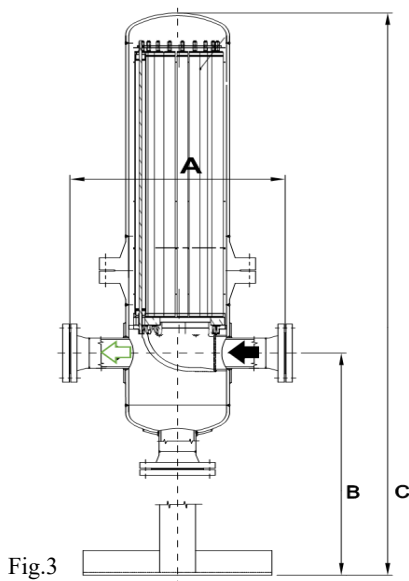
The FO housings are designed to fit OXOPOR filter elements and are built with specific materials for oxygen use; the zone subject to impact are made with anti-spark materials. Special construction features ensure electrical continuity and meet high cleanliness standards.

Pressure vessel is designed to comply a manufactures codes; additional no destructive tests are foreseen by Bea Technologies to increase safety of use. All housings undergo degreasing process to eliminate any residual combustibile substances and are filled with nitrogen to maintain cleanliness until installation.

SELECTION TABLE

Models	Connections DN	Flow rate m ³ /h*	Nominal dimension			Fig.
			A mm.	B mm.	C mm.	
FO-61-1-4750	25	35	560	120	720	1
FO-62-1-4750	50	45	560	120	720	1
FO-62-1-9500	50	90	560	480	1530	1
FO-103-3-4750	80	135	600	600	1280	2
FO-103-4-4750	80	180	600	600	1280	2
FO-104-4-9500	100	360	850	750	1900	2
FO-124-5-9500	100	410	950	750	1950	2
FO-124-6-9500	100	500	950	750	1950	2
FO-186-11-4750	150	500	1000	1050	1700	2
FO-186-11-9500	150	990	1000	1050	2200	2
FO-186-14-9500	150	1260	1000	1050	2200	2
FO-208-18-4750	200	810	1100	1100	1900	3
FO-188-15-9500	200	1350	1100	1100	2400	3
FO-208-18-9500	200	1730	1100	1100	2400	3
FO-2010-19-9500	250	2000	1100	1200	2550	3
FO-2410-24-9500	250	2700	1200	1250	2600	3
FO-2612-40-9500	300	3800	1300	1250	2650	3
FO-3214-60-9500	350	5400	1550	1350	2800	3

* Compressed at 40 bar and 20 °C; pressure drop lower than 0.1 bar



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The data are informative and subject to change without notice. User is responsible for determining whether the product is fit for particular purpose and suitable for User's method of application.