OXOPOR
Porous sintered bronze filter element

Oxopor porous sintered bronze filter elements are specifically designed to be used for oxygen gas filtration. The highly oxidative nature of oxygen gas requires strict attention and compliance with safety standards.
Oxopor filter elements are manufactured from non-sparking materials. Oxopor filter elements are constructed from porous sintered bronze filter media, which is supported by a reinforced AISI 316L wedge-wire central core. Oxopor elements have a recommended maximum differential pressure of 64 bar (with collapse pressure exceeding 100 bar). The end caps are machined from solid brass.
Joining of all parts is achieved through TIG welding. After final assembly Oxopor filter elements are thoroughly cleaned to completely remove combustible substances.
In order to satisfy stringent quality control standards an integrity test is conducted on 100% of Oxopor elements.

FILTRATION RATINGS

The standard Oxopor filter element has a filtration rating of 20 micron absolute, equivalent to 5 micron nominal, with other filtration ratings available upon request.

APPLICATIONS

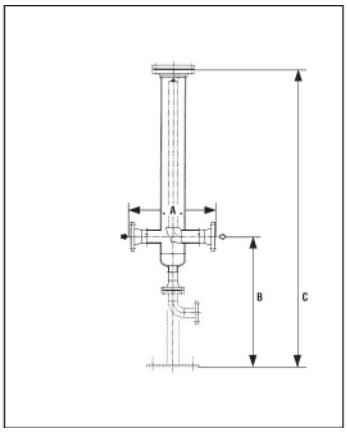
- Refineries
- Petrochemicals
- Oxygen pipelines
- Other high purity industrial gasses

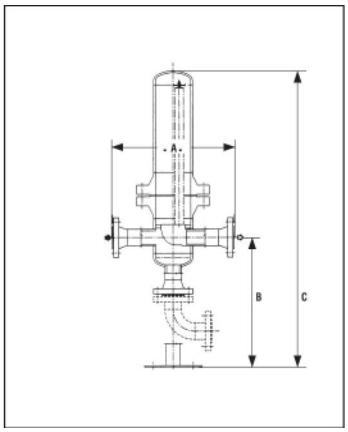
TECHNICAL SPECIFICATION

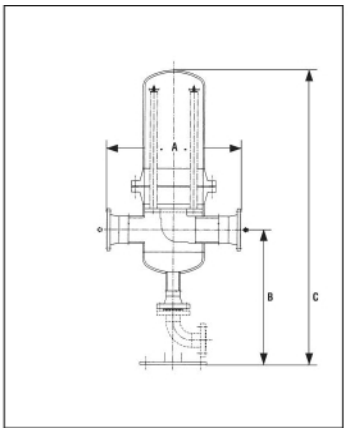
- Filter media: porous sintered bronze
- Central core: S.S. 316L wedge wire
- End caps: solid brass
- Sintered bronze seam welding: TIG
- Sintered bronze to solid brass welding: TIG
- Absolute retention efficiency: > 99.9% at 20 micron
- Nominal retention efficiency: 98% at 5 micron

HOUSINGS

Oxopor filter elements must be installed in suitable housings. These housings are manufactured using the same philosophy of security and quality used for the Oxopor filter elements. Housings are built to PED, ASME or other code. Critical internal parts are manufactured in non-sparking bronze. All welds are subjected to either X-Ray or penetrating liquid tests. All housings undergo pressure testing. Housings are thoroughly cleaned to completely remove combustible substances, sealed and charged at low pressure with nitrogen to maintain cleanliness during transport and until installation.







CONFIGURATIONS AND RECOMMENDED OXYGEN FLOW RATE

DN	MODEL	MAX FLOW RATE m^3/h*	A mm.	B mm.	C mm.	FIG.
1"	FO-61-1-4750	35	560	120	720	1
2"	FO-62-1-4750	45	560	120	720	1
2"	FO-62-1-9500	90	560	480	1530	1
3"	FO-103-3-4750	135	600	600	1280	2
3"	FO-103-4-4750	180	600	600	1280	2
4"	FO-104-4-9500	360	850	750	1900	2
4"	FO-124-5-9500	410	950	750	1950	2
4"	FO-124-6-9500	500	950	750	1950	2
6"	FO-166-11-4750	500	1000	900	1700	2
6"	FO-166-11-9500	990	1000	900	2200	2
6"	FO-166-14-9500	1260	1000	900	2200	2
8"	FO-208-18-4750	810	1100	1100	1900	3
8"	FO-188-15-9500	1350	1100	1100	2400	3
8"	FO-208-18-9500	1730	1100	1100	2400	3
10"	FO-2010-19-9500	2000	1100	1200	2550	3
10"	FO-2410-24-9500	2700	1200	1250	2600	3
12"	FO-2612-40-9500	3800	1300	1250	2650	3
14"	FO-3214-60-9500	5400	1550	1350	2800	3

Suggested flow rates are effective to exercise condition of 40 bar and at the temperature of 20° C with pressure drop less than 0.1 bar

TECHNICAL SUPPORT

Bea Technologies S.p.A. manufactures a broad range of filtration products used with confidence and satisfaction by customers worldwide. Bea's technical experts are available to help customers select the best performing and most cost effective filter for their application.

Bea Technologies Spa Via Newton, 4 - 20016 Pero (Milano) ITALY
Tel +39 02 339271 FAX +39 02 3390713 e-mail: info@bea-italy.com
web: www.bea-italy.com