

## Filter Housing WSP

### DESCRIPTION

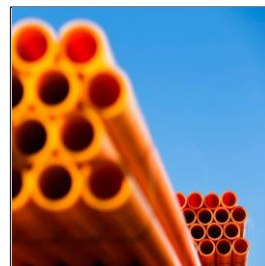
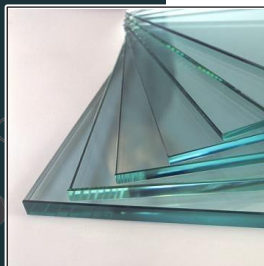
WSP filter housings have been specifically developed for applications in process industry, where the risk for corrosion of compressed air<sup>(1)</sup> system components is very high. To meet the required compressed air quality<sup>(3)</sup> appropriate filter element must be installed into filter housing. All components meet the FDA requirements for contact with food in accordance with the Code of Federal Regulations (CFR), title 21



### APPLICATIONS<sup>(2)</sup>

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

- <sup>(1)</sup> For any other technical gas please contact us.  
<sup>(2)</sup> WSP filter housing can be used in variety of applications. For applications not listed please contact us.  
<sup>(3)</sup> For oil removal, coalescing filter element must be installed and flow direction inside-out must be provided. General arrangement is filter head on top and filter bowl on bottom



## FILTER HOUSING RATING ACCORDING TO ISO8573-1

Solid particles	Water	Oil
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## TECHNICAL SPECIFICATION

Operating temperature	0 – 150 °C*	32 – 302 °F
Operating pressure	0 – 10 (12, 16) bar(g)	0 – 145 (174, 232) psi

\* Actual operating temperature depends on sealing material

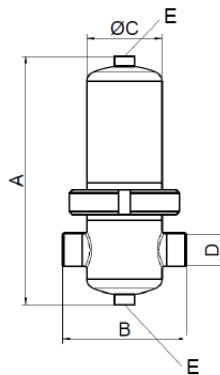
## MATERIALS

Housing material	Stainless steel (quality 1.4301; on request 1.4404)
Sealing	EPDM (Optional FKM or Silicone)
Housing finishes	Polished down to grade Ra 1.6
Lubricant	(Optional Shell cassida grease RLS 2)

## SIZES

Filter Housing	Conn. Size inch	Filter Element	Operating pressure	Flow Nm <sup>3</sup> /h	Dimensions (mm)				Volume l	Weight Kg
					A	B	C	E		
WSP7	¼"	EWSP7	16	80	202	116	76.1	¼"	0.71	1.8
WSP10	⅜"	EWSP10	16	110	232	120	76.1	¼"	0.84	2
WSP15	½"	EWSP15	16	160	230	125	76.1	¼"	0.84	2
WSP20	¾"	EWSP20	16	240	254	125	76.1	¼"	0.93	2.1
WSP25	1"	EWSP25	16	330	275	136	88.9	¼"	1.4	2.75
WSP30	1 ¼"	EWSP30	16	440	337	155	88.9	¼"	1.74	3.15
WSP40	1 ½"	EWSP40	16	635	386	180	114.3	¼"	3.4	4.5
WSP50	2"	EWSP50	16	935	457	180	114.3	¼"	4.1	5
WSP51	2"	EWSP51	16	1315	583	180	114.3	¼"	5.3	5.5
WSP65	2 ½"	EWSP65	16	1705	740	224	139.7	¼"	10.2	9.35
WSP75	3"	EWSP75	12	2490	1004	224	139.7	¼"	14	11
WSP76	3"	EWSP76	12	3730	1029	252	168.3	¼"	21	16.6
WSP100	DN 100	EWSP100	10	5220	986	410	219.1	1"	34	45.9
WSP101	DN 100	EWSP101	10	6840	1240	410	219.1	1"	43	46.75
WSP150	DN 150	EWSP150	10	9780	1311	480	273.0	1"	70	70.65
WSP151	DN 150	EWSP151	10	13610	1351	540	323.9	1"	103	80.8
WSP200	DN 200	EWSP200	10	17755	1496	660	406.4	1"	180	136
WSP201	DN 200	EWSP201	10	21425	1496	660	406.4	1"	180	136.5

Flow capacity at 7 bar(g), 20°C



## PRESSURE EQUIPMENT DIRECTIVE PED 97/23/CE (Fluid group 2)

WSP7 – WSP30	Not required
WSP40 – WSP75	Category 1, Module A
WSP76 – WSP150	Category 2, Module H
WSP151 – WSP201	Category 3, Module H

### CORRECTION FACTORS

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

CORRECTED CAPACITY = NOMINAL FLOW CAPACITY x C<sub>OP</sub>


#### 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 <sub>op</sub>	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

### MAINTENANCE

Replace filter element at least every 12 months or follow the instructions for specific filter element. Change the sealing when you disassemble filter housing. Once per year make a visual check of filter housing and make sure there is no visual damage.

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	<p>Our quality management system is certified by BUREAU VERITAS in conformity with ISO 9001:2008</p>	
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