

Filters



PRESSURE

Low 16 bar

Medium 50 bar

High 420 bar

FILTRATION

Pre-filters 3 to 25 µm

Super fine filters down to 0,01 µm

Sterile filters

MEDIA

GAS

- Air
- Nitrogen
- Oxygen
- Methane
- Biogas
- CO₂
- Argon
- Helium
- Hydrogen
- CNG

LIQUID

- Water
- Wine
- Beer
- Juices
- Emulsions

COMPRESSED AIR FILTERS

		Pressure	Capacity
AF	Aluminium compressed air filters	16 bar	60 - 2.760 Nm ³ /h
AF HT	Aluminium high temperature compressed air filters	10 bar	60 - 2.760 Nm ³ /h
AAF	Aluminium compressed air filters	16 bar	10 - 780 Nm ³ /h
CF	Aluminium compressed air filters	20 bar	72 - 2.760 Nm ³ /h
BF	Welded carbon steel compressed air filters	16 bar	1.680 - 31.400 Nm ³ /h
BF HP	High pressure welded carbon steel compressed air filters	25 bar	1.680 - 31.400 Nm ³ /h
WFIT	Welded stainless steel comp. air filters - threaded connections	14 bar	75 - 3.600 Nm ³ /h
WHFIT	High pressure stainless steel compressed air filters	50 bar	150 - 2.400 Nm ³ /h
WFIF	Welded stainless steel comp. air filters - flanged connections	14 bar	150 - 21.120 Nm ³ /h
WFIW	Welded stainless steel comp. air filters - welding end connections	14 bar	75 - 3.600 Nm ³ /h
P-VAC	Vacuum pump protection filters	20-2.000 mbar	7,5 - 345 Nm ³ /h
M-VAC	Medical vacuum filters	20-2.000 mbar	7,5 - 787 Nm ³ /h
AFs	Silicone free compressed air filters	16 bar	60 - 2.760 Nm ³ /h
HF	Cast aluminium high pressure compressed air filters	50 bar	71 - 2.760 Nm ³ /h
CHP	Carbon steel high pressure compressed air filters	100, 250, 420 bar	40 - 715 Nm ³ /h
IHP	Stainless steel high pressure compressed air filters	100, 250, 420 bar	40 - 715 Nm ³ /h
PF	Stainless steel process compressed air filters	14 bar	75 - 21.120 Nm ³ /h
HPF	High pressure stainless steel process compressed air filters	50 bar	150 - 2.400 Nm ³ /h
PFL	Stainless steel process filter for liquids	10 bar	3 - 600 l/min
SFL	Stainless steel sterile filters for liquids	10 bar	3 - 600 l/min
SF	Stainless steel sterile compressed air filters	10 bar	75 - 21.120 Nm ³ /h
SPF	Stainless steel sterile compressed air filters	14 bar	75 - 3.600 Nm ³ /h
AV	Stainless steel air venting filters		9 - 310 Nm ³ /h
MSS	Mobile steam sterilizer	1 to 3,6 bar	-

<p>AF</p> <p>Aluminium comp. air filters</p>  <p>16 bar</p>	<p>AF HT</p> <p>Aluminium high temperature compressed air filters</p>  <p>10 bar</p>	<p>AAF</p> <p>Aluminium comp. air filters</p>  <p>16 bar</p>	<p>CF</p> <p>Aluminium comp. air filters</p>  <p>20 bar</p>	<p>BF</p> <p>Welded carbon steel compressed air filters</p>  <p>16 bar</p>	<p>BF HP</p> <p>High pressure welded carbon steel compressed air filters</p>  <p>25 bar</p>	<p>WFIT</p> <p>Welded stainless steel comp. air filters - threaded connections</p>  <p>14 bar</p>	<p>WHFIT</p> <p>High pressure stainless steel compressed air filters</p>  <p>50 bar</p>
<p>WFIF</p> <p>Welded stainless steel comp. air filters - flanged connections</p>  <p>14 bar</p>	<p>WFIW</p> <p>Welded stainless steel comp. air filters - welding end connections</p>  <p>14 bar</p>	<p>P-VAC</p> <p>Vacuum pump protection filters</p>  <p>20-2000 mbar</p>	<p>M-VAC</p> <p>Medical vacuum filters</p>  <p>20-2000 mbar</p>	<p>AFs</p> <p>Silicone free compressed air filters</p>  <p>16 bar</p>	<p>HF</p> <p>Cast aluminium high pressure compressed air filters</p>  <p>50 bar</p>	<p>CHP</p> <p>Carbon steel high pressure compressed air filters</p>  <p>100, 250, 420 bar</p>	<p>IHP</p> <p>Stainless steel high pressure compressed air filters</p>  <p>100, 250, 420 bar</p>
<p>PF</p> <p>Stainless steel process compressed air filters</p>  <p>14 bar</p>	<p>HPF</p> <p>High pressure stainless steel process comp. air filters</p>  <p>50 bar</p>	<p>PFL</p> <p>Stainless steel process filter for liquids</p>  <p>10 bar</p>	<p>SFL</p> <p>Stainless steel sterile filters for liquids</p>  <p>10 bar</p>	<p>SF</p> <p>Stainless steel sterile compressed air filters</p>  <p>10 bar</p>	<p>SPF</p> <p>Stainless steel sterile compressed air filters</p>  <p>14 bar</p>	<p>AV</p> <p>Stainless steel air venting filters</p> 	<p>MSS</p> <p>Mobile steam sterilizer</p>  <p>1-3,6 bar</p>

Filter elements



COMPRESSED AIR QUALITY CLASSES ACCORDING TO ISO 8573-1

CLASS	SOLID PARTICLES			HUMIDITY AND LIQUID WATER		OIL	
	Maximum number of particles per cubic meter as a function of particle size, $d^{(2)}$			Pressure dew point		Concentration of total oil ⁽²⁾ (liquid, aerosol and vapor)	
	$0,1 \mu\text{m} < d \leq 0,5 \mu\text{m}$	$0,5 \mu\text{m} < d \leq 1,0 \mu\text{m}$	$1,0 \mu\text{m} < d \leq 5,0 \mu\text{m}$	°C	°F	mg/m ³	ppm/w/w
0	As specified by the equipment user or supplier and more stringent than class 1						
1	≤ 20.000	≤ 400	≤ 10	≤ -70	-94	$\leq 0,01$	$\leq 0,008$
2	≤ 400.000	≤ 6.000	≤ 100	≤ -40	-40	$\leq 0,1$	$\leq 0,08$
3	Not specified	≤ 90.000	≤ 1.000	≤ -20	-4	≤ 1	$\leq 0,8$
4	Not specified	Not specified	≤ 10.000	$\leq +3$	38	≤ 5	≤ 4
5	Not specified	Not specified	≤ 100.000	$\leq +7$	45	Not specified	Not specified
6				$\leq \pm 10$	50		
	Mass concentration ⁽²⁾ - C_p			LIQUID WATER CONTENT ⁽²⁾ - C_w			
	mg/m ³			g/m ³			
6	$0 < C_p \leq 5$					Not specified	Not specified
7	$5 < C_p \leq 10$			$C_w \leq 0,5$		Not specified	Not specified
8	Not specified			$0,5 \leq C_w \leq 5$		Not specified	Not specified
9	Not specified					Not specified	Not specified
X	$C_p > 10$					> 5	> 4

⁽¹⁾ To qualify for a class designation, each size range and particle number within a class shall be met.

⁽²⁾ At reference conditions: air temperature of 20° C, absolute air pressure of 100 kPa (1 bar), 0 relative water vapour pressure.

<p>B</p> <p>Sintered bronze</p>  <p>15 µm</p>	<p>P</p> <p>Prefilter</p>  <p>3 µm</p>	<p>R</p> <p>Prefilter</p>  <p>1 µm</p>	<p>M</p> <p>Microfilter</p>  <p>0,1 µm</p>	<p>S</p> <p>Microfilter</p>  <p>0,01 µm</p>	<p>A</p> <p>Activated carbon filter</p>  <p>0,01 µm</p>
<p>A²</p> <p>Adsorption (activated carbon)</p>  <p>0,1 µm</p>	<p>H²</p> <p>Catalyst (hopcalite)</p>  <p>0,1 µm</p>	<p>MS²</p> <p>Molecular sieve</p>  <p>0,1 µm</p>	<p>PI</p> <p>Prefilter</p>  <p>1; 20 µm</p>	<p>PIW</p> <p>Prefilter</p>  <p>1; 20 µm</p>	<p>PN</p> <p>Prefilter</p>  <p>5; 25 µm</p>
<p>PP</p> <p>Prefilter</p>  <p>3 µm</p>	<p>PR</p> <p>Prefilter</p>  <p>1 µm</p>	<p>PM</p> <p>Microfilter</p>  <p>0,1 µm</p>	<p>PS</p> <p>Microfilter</p>  <p>0,01 µm</p>	<p>PA</p> <p>Activated carbon filter</p>  <p>0,1 µm</p>	<p>VSF</p> <p>Sterile filters</p>  <p>Sterile</p>