

# MESSA

**Long service life**

**Low pressure drop**

**High quality components**

**Maximum operational reliability**



**COMPRESSED AIR FILTERS ELEMENTS**



# A NEW CONCEPT IN FILTER PERFORMANCE



## Advanced Element Designs

Messa filter elements are designed to ensure performance and long service life. The five designs are engineered for specific applications commonly found in compressed air systems.

**Stainless steel inner and outer supports for max. element strength.**

No danger of corrosion - large openings ensure low differential pressure drop and high throughput.

**High efficiency borosilicate glass microfiber filter media.**

Low differential pressure drop; high throughput.

**PVC impregnated reticulated foam sock.**

Blew polyurethane foam sock up to 80 °C. Resistant to attack by acidic, mineral and synthetic lubricants.

**End cap is durable and non-corrosive glass filled nylon or aluminium which is attached to the element with a multi part urethan resin.**

Filter Grade	Air Quality
<b>GRADE P</b>	<b>Pre-Filtration</b> Smaller than 5 micron are fine particles such as dust and particulary oil aerosols which must be filtered out by a fine filter.
<b>GRADE G</b>	<b>General Purpose Protection</b> For the removal at particles down to 1 micron including coalesced liquid water and oil, providing a maximum remaining oil aerosol content of 0.5 mg/m <sup>3</sup> @ 21°C
<b>GRADE H</b>	<b>High Efficiency Oil Removal Filtration</b> For the removal at particles down to 0.01 micron including water and oil aerosols, providing a maximum remaining oil aerosol content of 0.01 mg/m <sup>3</sup> @ 21°C (Precede with grade G filter)
<b>GRADE D</b>	<b>Dust Filtration</b> For the removal of dust particles down to 0.01 micron.
<b>GRADE C</b>	<b>Activated Carbon Filtration</b> For the removal of oil vapour and hydrocarbon odours giving a maximum remaining oil content of 0.003 mg/m <sup>3</sup> @ 21°C (Precede with grade H filter)

## Application Examples

### General Purpose Protection

+ P + G > ISO 8573.1 Class: 2,-,3

Pre-Filtration for refrigeration type air dryers  
Pre-Filtration for grade H filters, Low cost automation, Large pneumatic tools, Vacuum pump pre-filter

### Oil Free Compressed Air Applications

+ P + G + H > ISO 8573.1 Class: 1,-,2

Pre-Filtration for adsorption type air dryers (oil free), Fine pneumatic tools, Robotics, Spray painting, Air conveying, Temperature control systems, Air motors

### Critical Applications

+ P + G + H + C > ISO 8573.1 Class: 1,-,1

Breathing air, Film processing, Advance pneumatics, Cosmetic products, Hospital, Food industry, Breweries productions

### Reduced Dewpoint System

+ P + G + + H + C > ISO 8573.1 Class: 1,4,1

### Low Dewpoint System

+ P + G + H + + D + C > ISO 8573.1  
Class: 1,1,1 @ -70°C  
Class: 1,2,1 @ -40°C  
Class: 1,3,1 @ -20°C

## ISO 8573.1 QUALITY CLASSES

Quality Class	DIRT Particle size in micron	WATER Pressure Dewpoint °C (ppm vol.) @ 7 bar g	OIL (Including vapour) mg / m <sup>3</sup>
1	0.1	-70 (0.3)	0.01
2	1	- 40 (16)	0.1
3	5	- 20 (128)	1
4	15	+ 3 (940)	5
5	40	+ 7 (1240)	25
6	-	+ 10 (1500)	-

Compressor    Refrigerated type dryer    Adsorption type dryer

## TECHNICAL DATA

GRADE	P	G	H	D	C
Initial pressure drop (dry) mbar	30	80	100	40	200
Initial pressure drop (wet) mbar	80	140	200	90	N.A.
Element change mbar	700	700	700	700	-
Min/Max Working Temperature °C	2/65	2/65	2/65	2/65	2/30

**MESSA also offers a wide range of alternative elements suitable for other makes of housing**

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