

# FUJIBON

## FILTER ELEMENTS

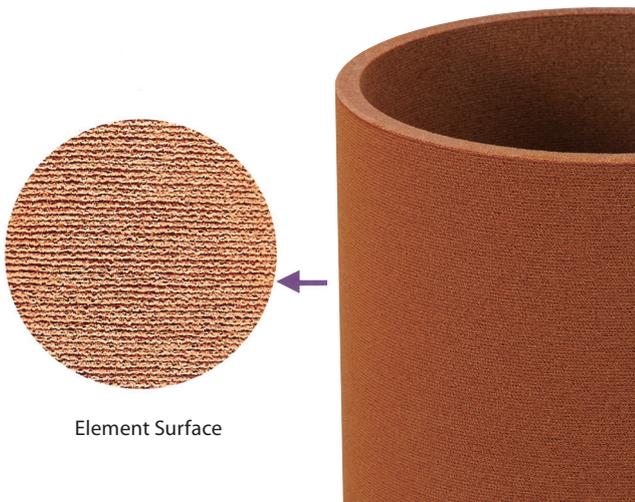
### Pleated Paper Wound Filter

- Uniform Airflow
- Line Filter
- Oil Mist Separator/Silencer
- Air Breather



# FUJIBON FILTER ELEMENTS

FUJIBON filter elements are cylindrical filters made of highly corrosion resistant helically wound cellulose ribbon. The ribbon is impregnated with phenolic resin and heat cured and fused to give a high strength structure. Filtration takes place as the filtrate flows through the innumerable minute gaps (pores) formed between the layers of ribbon. The numerous uniformly distributed pores run straight from the outer circumference to the center core, and flow through the cylindrical element can be from outside in or inside out so filtration can take place in either direction.



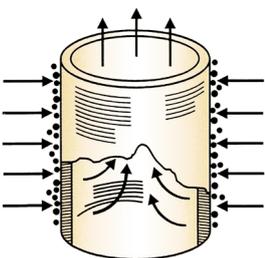
## Features

- Paper filters with great strength
- Excellent heat resistance
- Excellent corrosion and solvent resistance
- Uniform distribution of numerous pores running straight from the outer circumference to the center core
- Excellent flow characteristics
- Reasonable price ensure excellent economy
- Surface filtration gives easy cleaning

## Standard Specifications

- Material:** Phenolic resin impregnated cellulose  
**Configuration:** Cylindrical, Circular, Flat  
**Filtration rating:** 40 microns (Nominal)  
**Operating temperature:**  $-130^{\circ}\text{C}$  to  $+120^{\circ}\text{C}$   
 $+180^{\circ}\text{C}$  (Intermittent use)
- Size:**  
**Thickness:** 2.3, 4.6, 6.4, 12.7 mm  
**OD:** 10 to 300 mm (See separate table)  
**Length:** 10 to 500 mm (cut to user specifications)

## Filtration



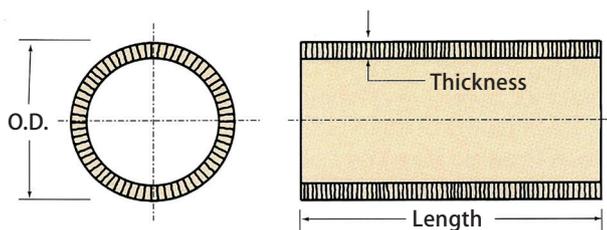
FUJIBON is a surface filtration type element. During filtration, the filtrate flows from outside in or from inside out. In either case, removed contaminants remain on the inlet surface of the element.

## FUJIBON Filter Element Dimention Chart

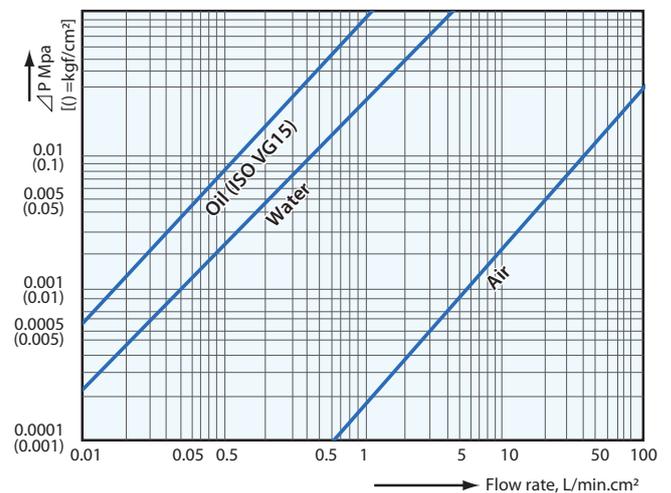
Code No.	O.D. (mm)	Tolerance (mm)
3R-7.5	12.0	± 0.4
3R-10	15.5	± 0.4
3R-11	17.5	± 0.4
3R-12	19.0	± 0.4
3R-14	22.2	± 0.4
3R-16	25.0	± 0.4
3R-17	27.0	± 0.4
3R-18	28.5	± 0.4
3R-19	30.2	± 0.4
3R-22	36.0	± 0.4
3R-28	44.5	± 0.5
6R-16	25.0	± 0.5
6R-18	28.5	± 0.5
6R-20	31.0	± 0.5
6R-22	34.0	± 0.5
6R-22.5	35.5	± 0.5
6R-24	38.0	± 0.5
6R-25	39.7	± 0.5
6R-28	44.5	± 0.5
6R-32	50.5	± 0.5
6R-35	55.6	± 0.8
6R-36	57.0	± 0.8
6R-38	60.0	± 0.8
6R-40	63.5	± 0.8
6R-42	66.5	± 0.8
6R-44	69.5	± 0.8
6R-48	76.0	± 0.8
6R-55	87.5	± 0.8
6R-60	95.0	± 0.8
6R-64	100.0	± 0.8
6R-78	124.0	± 1.0

Code No.	O.D. (mm)	Tolerance (mm)
8R-20	31.4	± 0.5
8R-32	50.6	± 0.5
8R-44	69.2	± 0.8
8R-74	117.5	± 1.0
8R-80	127.0	± 1.0
8R-90.5	143.5	± 1.5
8R-96	153.0	± 1.5
8R-126	200.0	± 2.0
8R-144	228.0	± 3.0
8R-184	292.4	± 3.0
8R-187.5	298.0	± 3.0
16R-82	130.0	± 1.0
16R-110	175.0	± 1.5
16R-117	185.0	± 2.0
16R-123	195.0	± 2.0
16R-144	228.0	± 3.0
16R-157	250.0	± 3.0
16R-177	281.0	± 3.0
16R-187	297.0	± 3.0
16R-189	300.0	± 3.0
16R-202	321.0	± 3.0

- Note: (1) Thickness of code No. 3R is = 2.4%  
 (2) Thickness of code No. 6R is = 4.6%  
 (3) Thickness of code No. 8R is = 6.4%  
 (4) Thickness of code No. 16R is = 12.7%  
 (5) Any desired length is available on request



## Flow Characteristics



# FUJIBON FILTER ELEMENTS

## Major Usage

### ● Line Filters

**Air Pressure Filters :** Protect equipment by removing contaminants

**Hydraulic Line Filters :** Keep pollution in hydraulic oil at low level

### ● Air Breathers

FUJIBON installed inside fuel and oil tanks prevents liquid pollution

### ● Support Structures

Support of structurally weak filtration media (filtration paper, membranes, activated carbon, glass fiber) and gives synergistic increase in filter effectiveness

### ● Oil Mist Separators, Silencers

Oil mist is effectively separated by the combination of FUJIBON uniform flow properties and glass wool, and noise is reduced

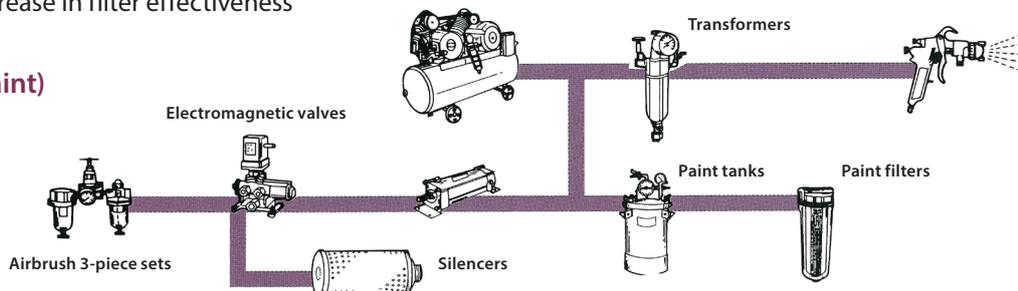
### ● Uniform Airflow

Used for cooling and heating due to the uniform airflow created by the uniform distribution of pores

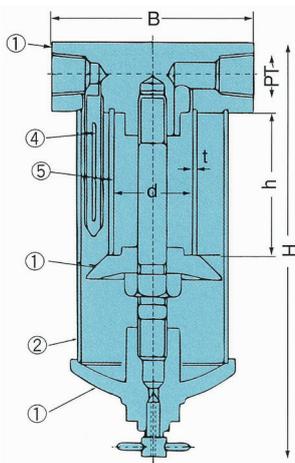
### ● Paint Rollers (Coating Rollers)

Used for paint coat finishing due to uniform water retention properties

## Examples of Use(Paint)



## Applications



### Operating Conditions

Max Operating Pressure : 1Mpa (10kgf/cm<sup>2</sup>G)  
Max Operating Temperature :110°C

### Specifications

- ①Body AC
- ②Outer Cage A1/SUS 304 /Panlight
- ③Packing NBR or Neopren
- ④Jet Pipe Only fitted in case of air
- ⑤Elements FUJIBON FUJIPLATE

Main Dimensions						Air	Water
Model	d	h	B	H	PT	Flow rate/(Min.)	Flow rate/(Min.)
FAF-44-8 FOF-44-8	35	40	80	165	1/4	100 ~ 300	2 ~ 8
FAF-66-10(15) FOF-66-10(15)	35	60	80	170	3/8(1/2)	150 ~ 450	4 ~ 16
FAF-110-10(15) FOF-110-10(15)	40	90	110	235	3/8(1/2)	300 ~ 950	6 ~ 25
FAF-220-15(20) FOF-220-15(20)	40	180	110	315	1/2(3/4)	500 ~ 1500	10 ~ 45
FAF-280-25(32) FOF-280-25(32)	40	220	110	370	1(1 1/4)	700 ~ 2000	15 ~ 60
FAF-450-25(92) FOF-450-25(92)	40	360	110	510	1(1 1/4)	1000 ~ 3000	20 ~ 90
FAF-660-40(50) FOF-660-40(50)	70	300	140	405	1 1/2(2)	1500 ~ 4500	30 ~ 180

Mini Air Breather FAB-20	
Model	Connection
FAB-20-8	PT 1/4
FAB-20-10	PT 3/8
FAB20-15	PT 1/2

Air Breather FAB					
Model	Connection	D	L	ℓ	
FAB-30-15	PT 1/2	53	61	28	
FAB-50-20	PT 3/4	65	74	33	
FAB-90-25	PT1	85	78	46	
FAB150-40	PT1 1/2	120	114	55	
FAB150-50	PT2	120	121	55	

Mini Air Breather FAB-20						
Model	d	D <sub>∅</sub>	L	ℓ	P <sub>∅</sub>	
SAB-30	Filter Opening Dia 30	56	34	44	48	
SAB-40	Filter Opening Dia 40	65	34	69	57	
SAB-50	Filter Opening Dia 50	80	38	135	75	



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