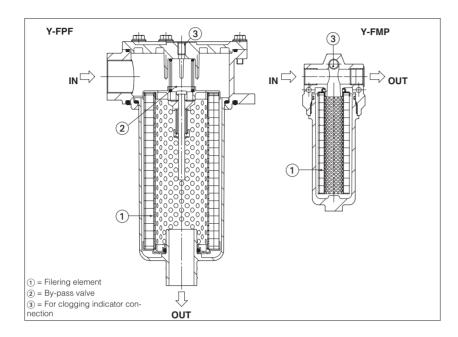


# Hydraulic Filter type Y-FPF, Y-FMP

return semi-immersed and pressure filters



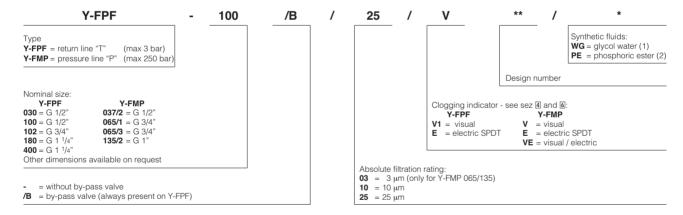
Y-FPF and Y-FMP filters have high filtering characteristics and are designed to be installed respectively on return lines and on pressure lines; they are suitable for hydraulic mineral oil or syntehetic fluids.

The filtering elements are made by inorganic microfibre with acrilic support and can be easily replaced.

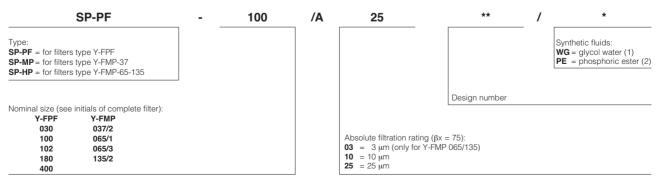
- They are available in different dimensions:
   type Y-FPF to be installed on the return line to the reservoir:
- from 1/2" Gas until 1 1/4" Gas. type Y-FMP to be installed on the medium pressure line: from 1/2" Gas until 1" Gas.

Y-FPF and Y-FMP filters are provided with visual or electrical clogging indicators 3.

### 1 MODEL CODE



### 2 MODEL CODE FOR SPARE CARTRIDGES



- For glycol water it is better to use filters with a filtration rating not lower than 25 μm.
   For phosphoric ester, consult our technical office and specify the kind of fluid.

### 3.1 Y-FPF

They have to be installed on the return line to tank.

The cartridge is made by inorganic microfibre with acrylic support and when it is installed it cannot be cleaned but it must be replaced. The substitution can be easily made after removing the closing cover.

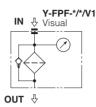
The collapse pressure of the filtering elements is 3 bar.

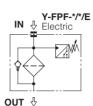
They are equipped with a by-pass valve with opening pressure of 1,75 bar ±10%. The by-pass valve is incorporated into the cartridge.

They are delivered with visual or electrical indicator.
The visual indicator shows the clogging of the cartridge through the reaching of red sector on the pressure gauge.
The electric indicator (see section (a) and (b) consists of a mini-switch which opens and closes an electrical contact when the pressure reaches the fixed setting level (1,3 bar).

Fluid temperature : -20°C ÷+70°C.

Hydraulic symbols





Model		Y-FPF- 030/10	Y-FPF- 030/25	Y-FPF- 100/10	Y-FPF- 100/25	Y-FPF- 102/10	Y-FPF- 102/25	Y-FPF- 180/10	Y-FPF- 180/25	Y-FPF- 400/10	Y-FPF- 400/25	
Max. recommended flow (Δp~0,4 bar)	[l/min]	21	30	35	65	45	125	185	300	170	300	
Max. inlet pressure	[bar]		3									
Δp max	[bar]	3										

### 3.2 Y-FMP

They have to be installed on the pressure line in order to protect the components on the circuit. The cartridge is made by inorganic microfibre with acrylic support and when it is installed it cannot be cleaned but it must be replaced. The substitution can be easily made after unscrewing the filter case. The collapse pressure of filtering elements is 20 bar.

The but appeared to filtering elements is 20 bar.

The by-pass valve, if present, has an opening pressure about 6 bar The are delivered with visual, electrical or visual/electric indicator.

The visual indicator shows the clogging of the cartridge through the appearance of a red sector.

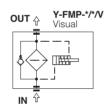
The electric and visual/electrical indicator (see section 

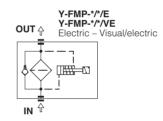
and 

onesists of a mini-switch which opens and closes an electrical contact when the differential pressure in the filter reaches the fixed level (5 bar ±10%).

Fluid temperature : -20°C ÷+70°C.

Hydraulic symbols

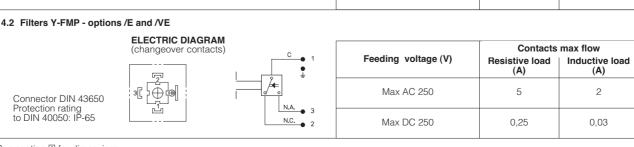




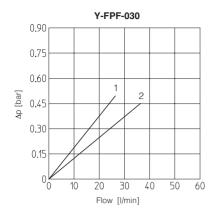
Model		Y-FMP- 037/2/10	Y-FMP- 037/2/25	Y-FMP- 065/1/03	Y-FMP- 065/1/10	Y-FMP- 065/1/25	Y-FMP- 065/3/03	Y-FMP- 065/3/10	Y-FMP- 065/3/25	Y-FMP- 135/2/03	Y-FMP- 135/2/10	Y-FMP- 135/2/25
Max. recommended flow (Δp~1,25 bar)	[l/min]	60	75	18	35	50	35	75	90	100	140	160
Max. inlet pressure	[bar]	110		250								
Δp max	[bar]	20										

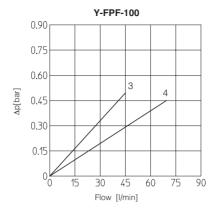
## 4 ELECTRICAL CLOGGING INDICATORS

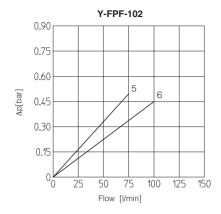
### 4.1 Y-FPF filters, option /E **ELECTRIC DIAGRAM** Contacts max flow (changeover contacts) Feeding voltage (V) Resistive load Inductive load (A) Max AC 250 5 1 Connector DIN 43650 Protection rating to DIN 40050: IP-65 N.C. Max DC 30 4 3

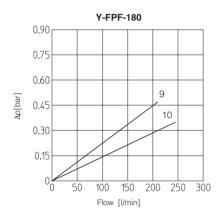


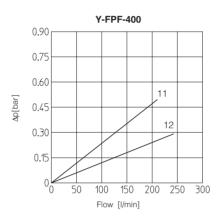
### 5 DIAGRAMS based on fluid viscosity of 30 mm²/sec at 40°C

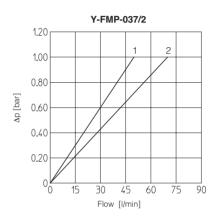


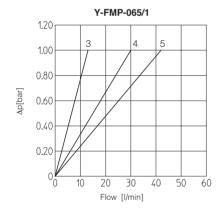


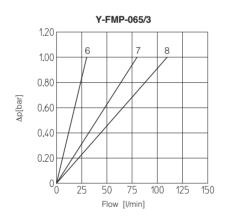


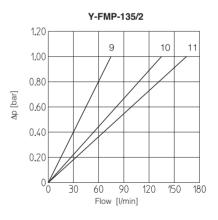












### Y-FPF

- = Y-FPF-030/10
- = Y-FPF-030/25
- = Y-FPF-100/10
- = Y-FPF-100/25
- = Y-FPF-102/10
- = Y-FPF-102/25
- 9 = Y-FPF-180/10
- = Y-FPF-180/25
- = Y-FPF-400/10 = Y-FPF-400/25

### Y-FMP

- 1 = Y-FMP-037/2/10
- = Y-FMP-037/2/25
- = Y-FMP-065/1/03
- = Y-FMP-065/1/10
- = Y-FMP-065/1/25
- = Y-FMP-065/3/03 = Y-FMP-065/3/10
- = Y-FMP-065/3/25
- = Y-FMP-135/2/03
- = Y-FMP-135/2/03 = Y-FMP-135/2/10
- = Y-FMP-135/2/25

## 6 DIMENSIONS [mm]

