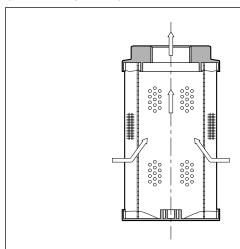




# FSI SUCTION FILTER FOR SUBMERGED MOUNTING SERIES 10

**Q** max (see performance ratings table)

### **OPERATING PRINCIPLE**



- FSI filters are filter elements which function being completely submerged in the tank. They are installed directly at the end of the pump suction line.
- They are aimed at protecting the pump from any possible gross contamination present inside the tank.
- The filter element is a metallic strainer with a 90 µm filtration degree, which grants a good pump protection without compromising the correct fluid supply.
- The filters are designed with a threaded BSP connection, available in the sizes from 3/8" to 3". They are supplied with a hexagonal shank, which allows the filter element to be connected by spanner to the pump suction line.

## **TECHNICAL SPECIFICATIONS**

Filter code	BSP port dimensions	Rated flow [I/min] ( <b>NOTE 1</b> )	Rated filtration degree [µm]
FSI-TB038	3/8"	9	
FSI-TB012	1/2"	14	
FSI-TB034	3/4"	25	
FSI-TB100	1"	45	
FSI-TB114	1 1⁄4"	75	90
FSI-TB112	1 ½"	100	
FSI-TB200	2 "	160	
FSI-TB212	2 ½"	250	
FSI-TB300	3"	350	

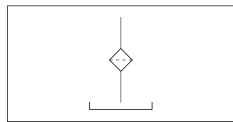
**NOTE 1**: The flow rates stated in the table correspond to a 0.02 bar pressure drop measured with mineral oil of viscosity 36 cSt at  $50^{\circ}\text{C}$ 

As for fluids whose viscosity degree at a specific operating pressure is different from 36 cSt, the real pressure drop has to be changed according to the following ratio:

real 
$$\Delta p$$
 value = 0.02 . real Q table Q . real viscosity degree (cSt) 36

The filter size has to be selected so that with the nominal flow rate the pressure drop is lower than 0.02 bar.

# HYDRAULIC SYMBOL

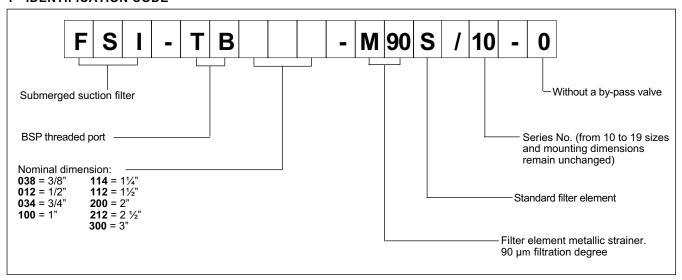


Collapsing differential pressure of the filter element	bar	1.0
Ambient temperature range	°C	-25 / <b>+</b> 50
Fluid temperature range	°C	-25 / <b>+110</b>
Fluid viscosity range	cSt	10 ÷ 400

95 100/110 ED 1/2



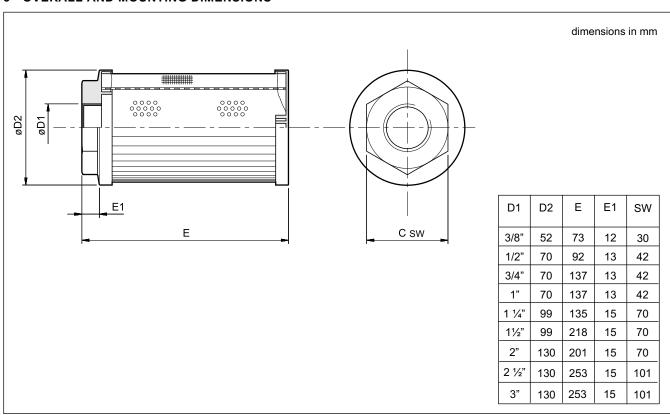
### 1 - IDENTIFICATION CODE



### 2 - HYDRAULIC FLUIDS

Use mineral oil-based hydraulic fluids HL or HM type, according to ISO 6743-4. Using fluids at temperatures higher than 80 °C causes a faster degradation of the fluid and of the seals characteristics. The fluid must be preserved in its physical and chemical characteristics.

### 3 - OVERALL AND MOUNTING DIMENSIONS





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