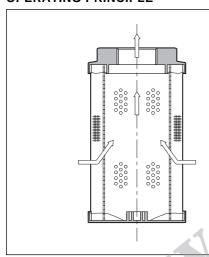




# FSI SUCTION FILTER FOR SUBMERGED MOUNTING SERIES 10

**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 [l/min] (note 1)	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 1/2"	100		
FSI-TB200	2 "	160		
FSI-TB212	2 1/2"	250		
FSI-TB300	3"	350		

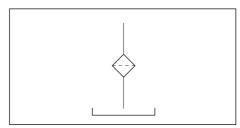
Note 1: The flow rates stated in the table correspond to a 0.02 bar pressure drop measured with mineral oil of viscosity 36 cSt at  $50^{\circ}\text{C}$ 

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 .  $\frac{\text{real Q}}{\text{table Q}}$  .  $\frac{\text{real viscosity degree (cSt)}}{36}$ 

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



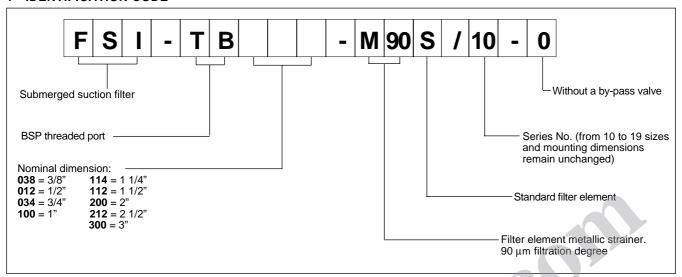
Collapsing differential pressure of the filter element	bar	1.0
Ambient temperature range	°C	−25 ÷ +50
Fluid temperature range	°C	−25 ÷ +110
Fluid viscosity range	cSt	2.8 ÷ 380

95 100/198 ED



FSI SERIES 10

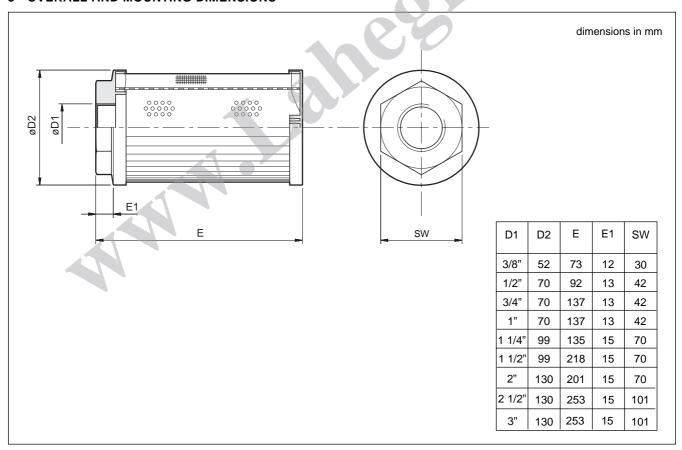
### 1 - IDENTIFICATION CODE



### 2 - HYDRAULIC FLUIDS

Use mineral oil-based hydraulic fluids type HL and HLP according to ISO 6743/4. For use with other types of fluids such as HFA, HFB, HFC, HFD, please consult our technical department.

### 3 - OVERALL AND MOUNTING DIMENSIONS





# **DUPLOMATIC OLEODINAMICA SpA**

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