

Shipbuilding – Can water filters

1. Scope This Japanese Industrial Standard specifies can water filters (hereinafter referred to as “water filter”) used for water pipelines in ship.

2. Reference standards The following standards form part of the requirements of this standard when quoted. The latest editions (including supplements) of these standards shall be applied.

JIS B 0205-1	ISO general purpose metric screw threads – Part 1: Basic profile
JIS B 0205-2	ISO general purpose metric screw threads – Part 2: General plan
JIS B 0205-3	ISO general purpose metric screw threads – Part 3: Dimensions selected for the screws applied
JIS B 0205-4	ISO general purpose metric screw threads – Part 4: Standard dimensions
JIS B 2239	Cast iron pipe flanges
JIS F 7102	Shipbuilding – Piping system in machinery space –Application for gaskets and packings
JIS F 7200	Shipbuilding – General rules for inspection of strainers
JIS G 3101	Rolled steel for general structure
JIS G 4051	Carbon steel for machine structural use
JIS G 4303	Stainless steel bars
JIS G 4304	Hot rolled stainless steel plates, sheets and strip
JIS G 4801	Spring steel
JIS G 5501	Gray iron castings
JIS G 5502	Spheroidal graphite iron castings
JIS H 3250	Copper and copper alloy rods and bars
JIS H 3260	Copper and copper alloy wires
JIS H 5120	Copper and copper alloy castings

3. Relation between fluid condition and maximum working pressure The fluid condition and the maximum working pressure shall be 0.2 MPa at normal temperature.

4. Classification The water filters shall be classified into Types S, LA, LB, LC and LD according to their direction of flow. The strainer cylinders shall be classified into 4mm and 8mm in diameter.

5. Construction, shape and dimensions The construction, shape and dimensions shall be as shown in **Tables 1** and **2**. The permissible deviation of body thickness “*a*” shall, as a rule, be within $-10 \sim +15\%$, but when the calculated value is below 1mm, the permissible deviation shall be 1mm.

6. Materials The materials shall be as follows.

- a) The materials of body and cover shall be in accordance with **JIS G 5501** – FC 200.
- b) The materials used for other parts shall, as a rule, be as shown in **Figs. 1** and **2**.

7. **Test and inspection** The water filters shall be subjected to the following items of inspection a) to f) in accordance with JIS F 7200.

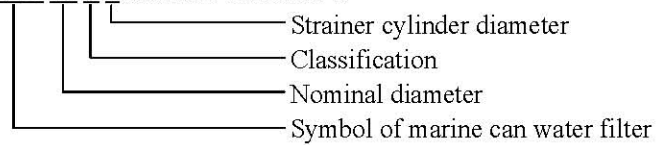
- a) Material inspection
- b) Welding inspection
- c) Visual inspection
- d) Dimensional inspection
- e) Assembly inspection
- f) Hydraulic inspection Test pressure shall be 0.3 MPa.

8. **Designation** The water filter shall be designated by the title, nominal diameter and classification or symbol. JIS number may be used in place of the title.

Example: For a water filter of nominal diameter 25mm and Type S, having the strainer cylinder diameter of 8mm:

Marine Can Water Filter 25S cylinder diameter 8 or

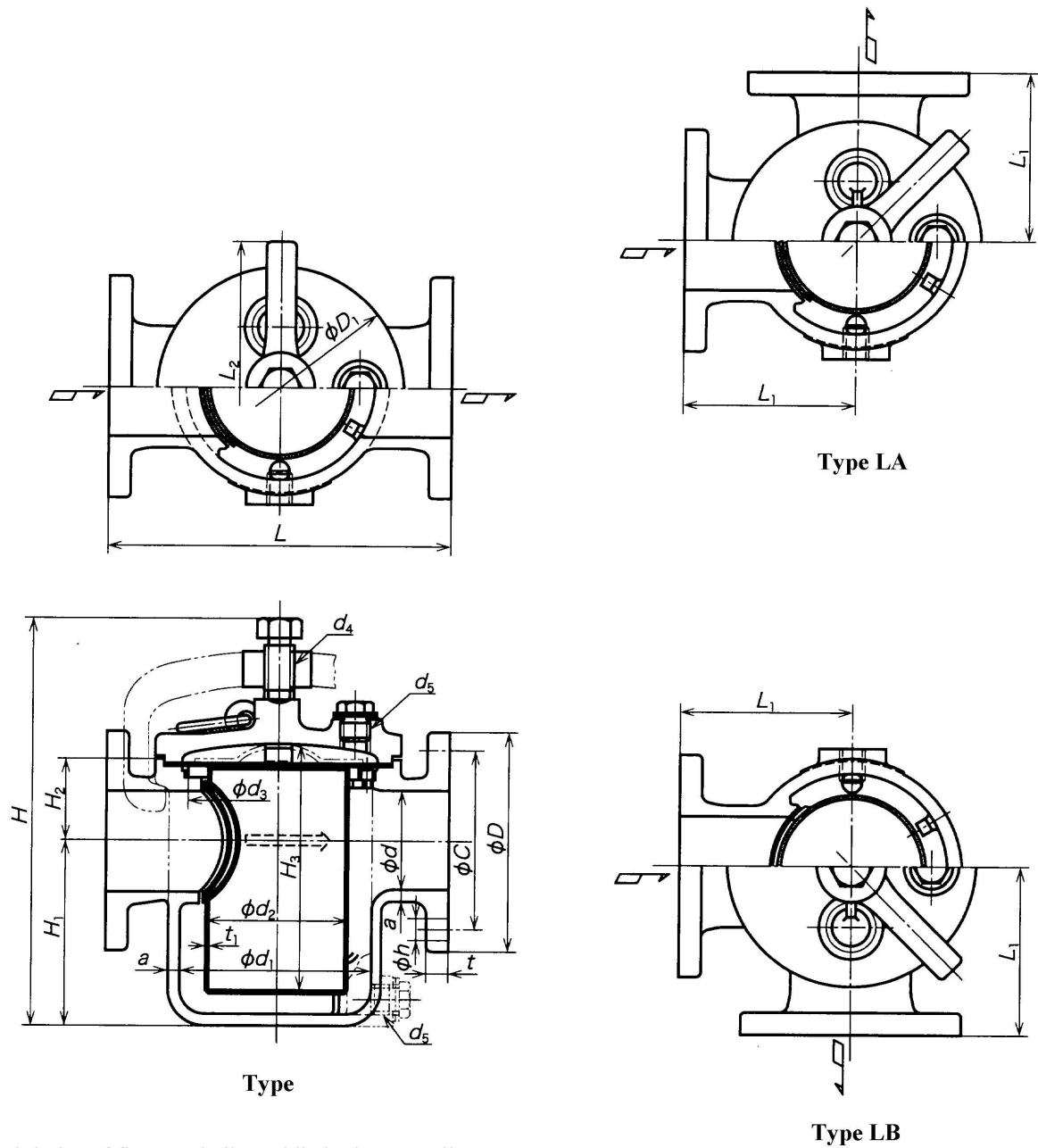
FWT 25 S 8 or JIS F 7121-25S-8



9. **Marking** The following particulars shall be marked on the body surface

- a) Nominal diameter
- Example:** 25
- b) Arrowhead indicating the direction of flow
- c) Manufacturer's name or mark
- d) Year and month of manufacture

Table 1: Construction, shape and dimensions (for nominal dia. 25 - 100mm)



Bolt holes of flanges shall straddle body center lines.