

Watertight sliding doors

1. Scope This Japanese Industrial Standard specifies watertight sliding doors (hereinafter referred to as "sliding door") used in the doorway leading to shaft tunnel from engine room in ships and others.

Remarks: This standard makes reference to the following standards:

- JIS B 0205** - Metric coarse screw threads
- JIS B 0222** - 29° Trapezoidal screw threads
- JIS B 1181** - Hexagon nuts and hexagon thin nuts
- JIS G 3101** - Rolled steel for general structure
- JIS G 4051** - Carbon steel for machine structural use
- JIS G 5501** - Gray iron castings
- JIS H 5111** - Bronze castings

2. Classification The sliding doors shall be classified as given in **Table 1**.

Table 1

Class	Type	Material	Closing system	Maximum working pressure MPa
VCT-2	Vertical	Cast iron	Screwed block	0.020
VPT-5		Steel plate		0.049
VPT-12				0.118
HCG-2	Horizontal	Cast iron	Spur gear	0.020
HCC-2			Cylinder	
HPG-5		Steel plate	Spur gear	0.049
HPC-5			Cylinder	
HPG-12			Spur gear	0.118
HPC-12			Cylinder	

3. Construction, shape, dimensions and materials The construction, shape, dimensions and materials of the sliding door shall be as shown in **Figs. 1 to 13**, and shall conform to the following requirements.

- (1) Hexagon nuts shall conform to **JIS B 1181**.
- (2) Metric coarse screw threads shall conform to **JIS B 0205**, and 29° trapezoidal screw threads to **JIS B 0222**.

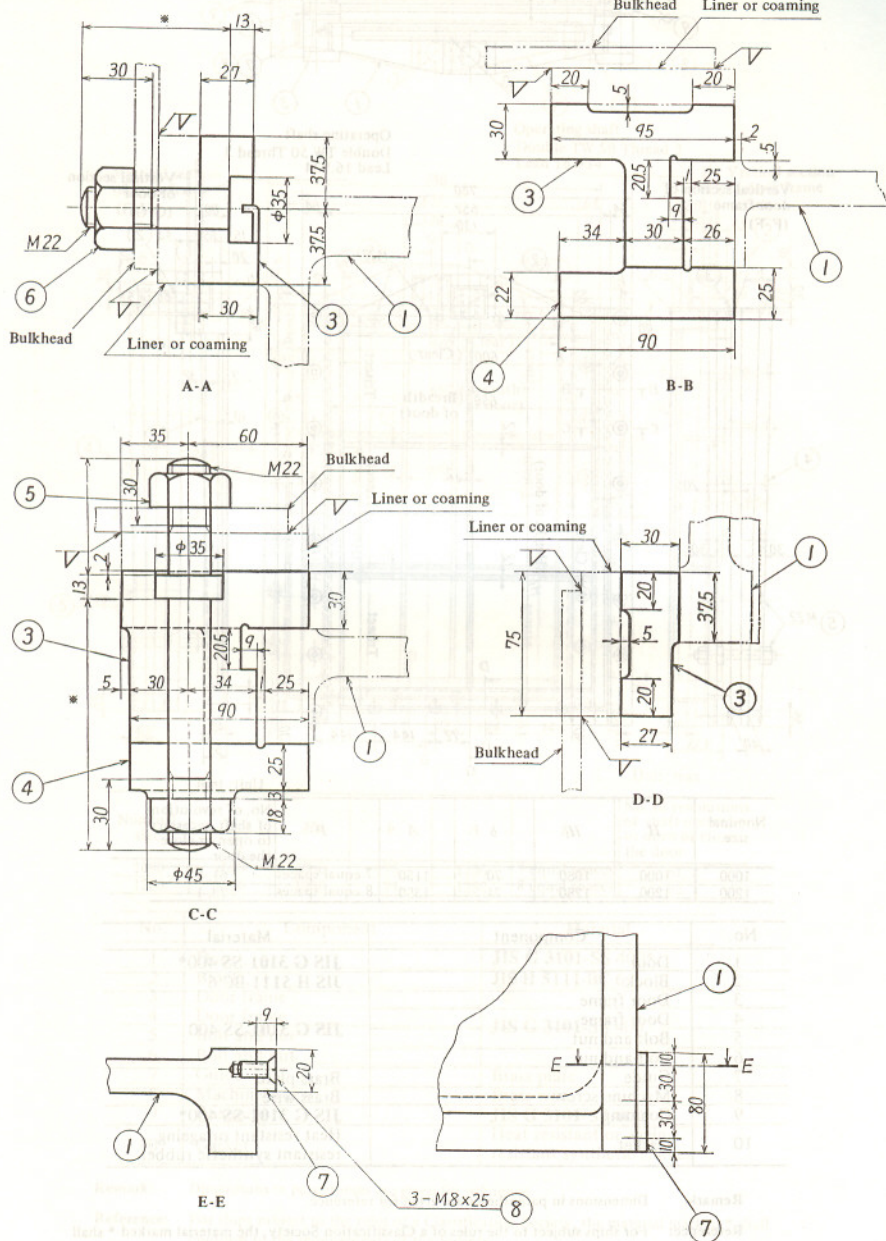
4. Hydraulic inspection The sliding doors shall be tested by suitable means under a hydraulic test pressure of maximum working pressure given in **Table 1** or the working pressure specified by purchaser and no leakage shall be found. The inspection may be omitted when both manufacturer and purchaser accepted.

5. Designation The sliding doors shall be designated by the title, or **JIS** number, nominal size and classification mark.

Example: Watertight sliding door, VCT-2-900 or **JIS F 2314 VCT-2-900**

Remarks: The dimensions marked with * are in mm.

Fig. 2 S-100 (mm)



Remark: The dimensions marked with * shall be determined as required by purchaser.

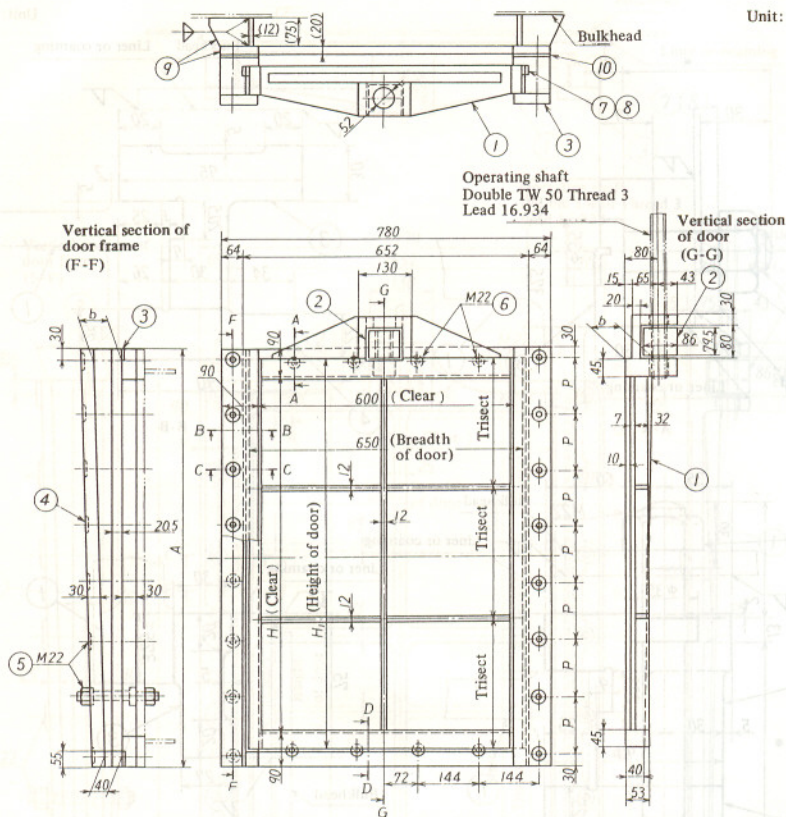
Fig. 2 Detail plan of VCT-2



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Unit: mm



Unit: mm

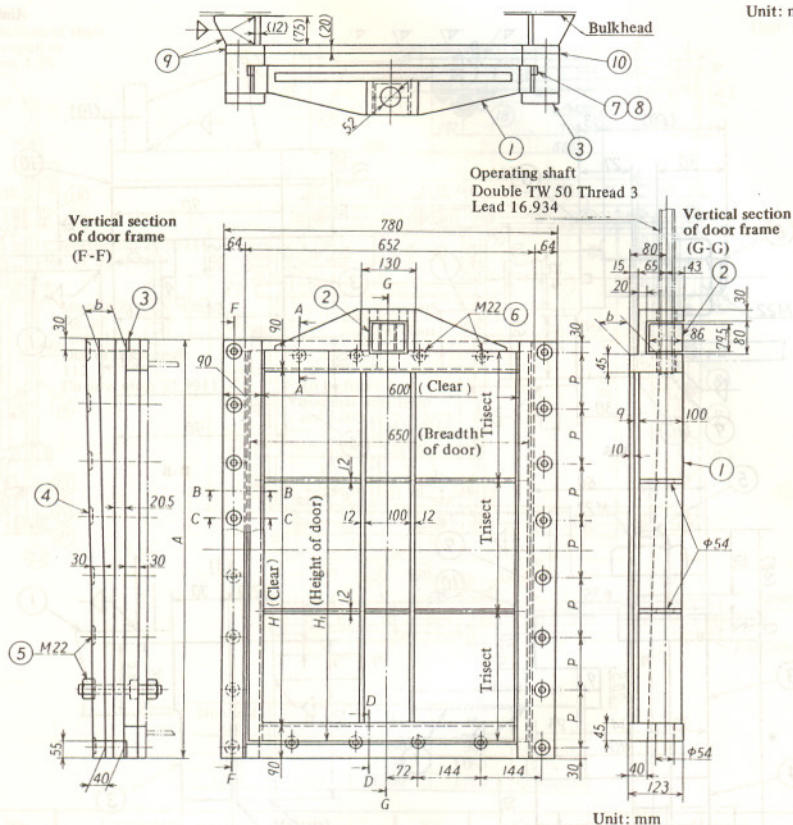
Nominal size	H	H ₁	b	A	P	No. of revolutions of shaft necessary to open or close the door
1000	1000	1080	70	1150	7 equal spaces	61, 2
1200	1200	1280	74	1350	8 equal spaces	73, 1

No.	Component	Material
1	Door	JIS G 3101-SS 400*
2	Block	JIS H 5111-BC 6
3	Door frame	JIS G 3101-SS 400
4	Door frame	
5	Bolt and nut	
6	Bolt and nut	Brass plate
7	Guide	
8	Machine screw	
9	Coaming	JIS G 3101-SS 400*
10	Gasket	Heat resistant or ageing resistant synthetic rubber

Remark: Dimensions in parentheses are given for reference.

Reference: For ships subject to the rules of a Classification Society, the material marked * shall conform to the requirements of the Society.

Fig. 3 VPT-5



Nominal size	H	H _i	b	A	P	No. of revolutions of shaft necessary to open or close the door
1000	1000	1080	70	1150	7 equal spaces	61.2
1200	1200	1280	74	1350	8 equal spaces	73.1

No.	Component	Material
1	Door	JIS G 3101-SS 400*
2	Block	JIS H 5111-BC 6
3	Door frame	JIS G 3101-SS 400
4	Door frame	
5	Bolt and nut	
6	Bolt and nut	Brass plate
7	Guide	
8	Machine screw	
9	Coaming	JIS G 3101-SS 400*
10	Gasket	Heat resistant or ageing resistant synthetic rubber

Remark: Dimensions in parentheses are given for reference.

Reference: For ships subject to the rules of a Classification Society, the material marked * shall conform to the requirements of the Society.

Fig. 4 VPT-12