

Ships' davits for general use

1. **Scope** This Japanese Industrial Standard specifies ships' davits of 4.9 to 19.6 kN safe working load for general use, employed in lifting drum, Suez search light, oil hose, provisions, accommodation ladder, etc.

Remark: This standard makes reference to the following standards:

- JIS B 1180 – Hexagon head bolts and hexagon head screws
- JIS B 2801 – Shackles (ADP ISO 2415:1987)
- JIS F 3906 – Ships' chainlets
- JIS F 3907 – Ships' S rings for chainlet
- JIS F 3908 – Ships' eye plates for chainlet
- JIS G 3101 – Rolled steels for general structures
- JIS G 3454 – Carbon steel pipes for pressure service
- JIS G 4051 – Carbon steel for machine structural use
- JIS G 4303 – Stainless steel bars
- JIS H 3250 – Copper and copper alloy rods and bars
- JIS H 5111 – Bronze castings

2. **Construction, Shape and Dimensions** The construction, shape and dimensions shall be as shown in Fig. 1 to 5.

3. **Materials** The materials shall be as given in Table 1:

10-3015	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000
15-3015	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000	
20-3015	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000		
25-3015	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000			
30-3015	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000				
35-3015	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000					
40-3015	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000						
45-3015	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000							
50-3015	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000								
55-3015	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000									
60-3015	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000										
65-3015	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000											
70-3015	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000												
75-3015	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000													
80-3015	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000														
85-3015	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000															
90-3015	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000																

Table 1

No.	Component	Material
1	Body	JIS G 3101 – SS 400
2	Heel piece	JIS G 4051 – S 25 C
3	Eye plate	
4	Patch	
5	Eye for guy	JIS G 3101 – SS 400
6	Stand	
7	Socket	
8	Frame	Steel plate
9	Roller	JIS H 5111 – BC 6 or JIS H 3250 – C 3771 BD
10	Roller pin	JIS G 4303 – SUS 304
11	Check plate	Steel plate
12	Hexagon head bolt	Brass Bar
13	Eye plate	JIS G 3101 – SS 400
14	Stopper pin	JIS G 4303 – SUS 304
15	Chainlet	Brass wire or galvanized iron wire
16	S ring	Brass wire or galvanized iron wire
17	Eye plate for chainlet	Steel plate
18	Cleat	Steel plate and JIS G 3454 – STPG 370
19	Grease nipple	Brass

Remarks: 1. For stand, JIS G 3454 – STPG 370 or steel pipe of equal or superior strength may be used.
 2. Cleats shall be galvanized.
 3. Where applicable, the materials shall conform to the requirements of the Administration or the Classification Society.

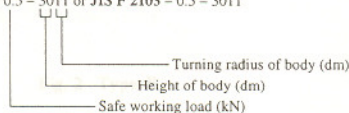
4. Tests and Inspection

4.1 **Visual Inspection** The davit shall be free from defects in appearance, and the welding shall be sound. The body shall be free from deflection as far as practicable and roller shall rotate smoothly.

4.2 **Other Inspection** Where applicable, tests and inspection shall be carried out in accordance with the requirements of the Administration or Classification society.

5. **Designation** The davits shall be designated by the title and nominal number. JIS number may be used in place of the title.

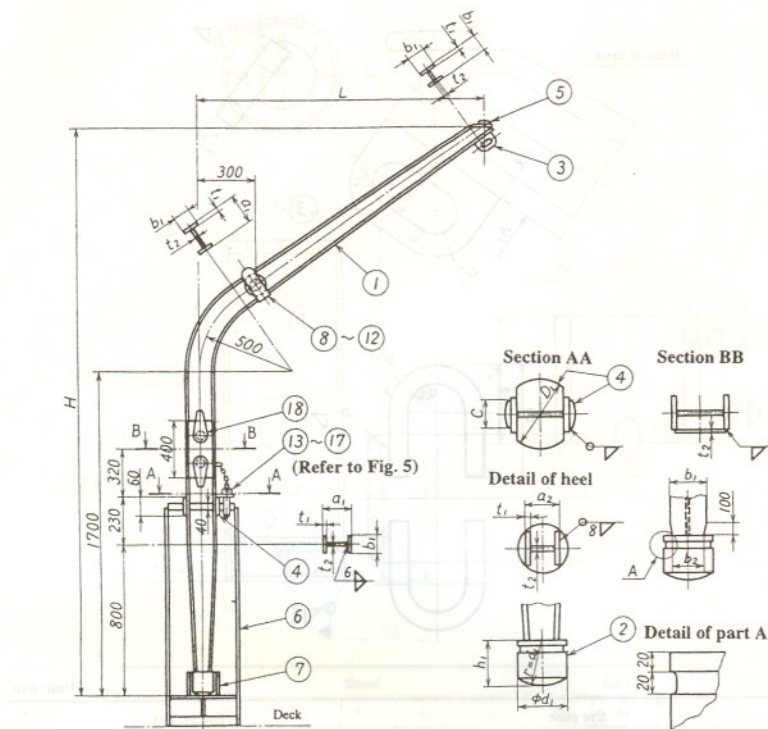
Examples: Ships' davit for general use 0.5 – 3011 or JIS F 2103 – 0.5 – 3011



6. **Marking** The davit shall be marked on readily visible part of the body or stand with the safe working load.

Example: S.W.L. 5 kN, S.W.L. 10 kN

Unit: mm



														Unit: mm	
Nominal No	Body								Patch		Heel piece		Safe working load	Reference	
	a_1	a_2	b_1	b_2	H	L	t_1	t_2	C	D_1	d_1	h_1	(kN)	Calculated mass (kg)	
5-3011	110	85	90	80	3000	1100	12	8	80	147	120	100	4.9	179	
5-3015	130					1500	14			167				198	
5-3020	140	100	100	90		2000	16	10	90	177	140	120		277	
10-3011						1100								252	
10-3015						1500								197	287
10-3020						2000								115	237
15-3015	190	130	125	110		1500	19	12	115	237	175	130	14.7	354	
15-3020	200	140	150	120		2000				140	257	190		150	464
15-4015	190	130	125	110	4000	1500				115	237	175		130	19.6
15-4020	200	140	150	120		2000				140	257	190	150	501	
20-3015					3000	1500				140	257	190	150	439	
20-3020	230	165	170	140		2000								160	
20-4015	200	140	150	120	4000	1500				140	257	190	150	483	
20-4020	230	165	170	140		2000				160	297	230	180	611	

Fig. 1