DID 80 standard roller chain
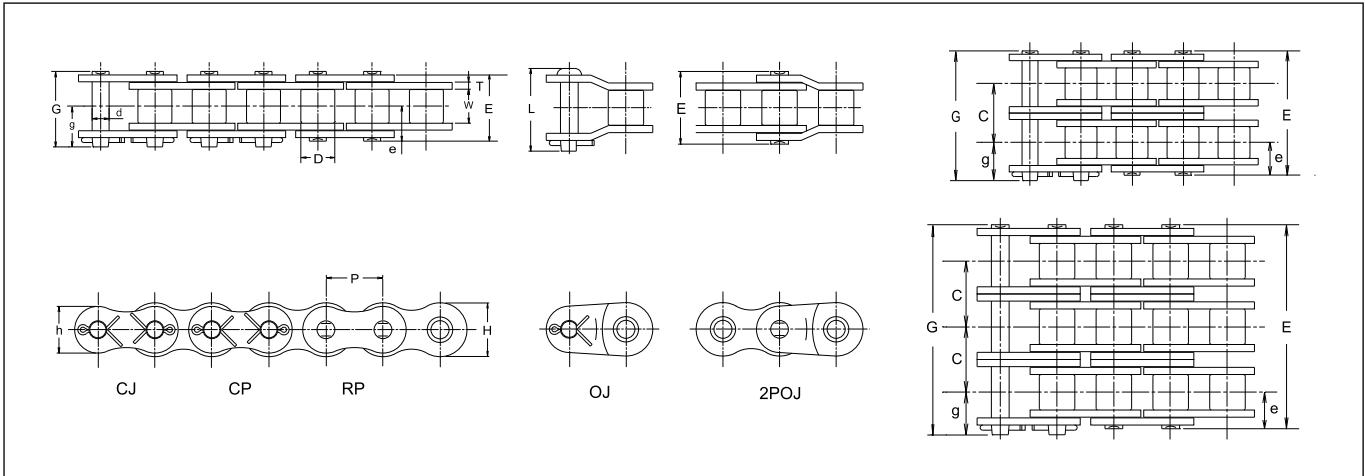
Dimensions

Unit (mm)

| Chain No. | | Pitch | Roller Link Width | Roller dia. | Pin | | | | | | Transverse Pitch | Plate | | | JIS Min. Tensile Strength | | DID Min. Tensile Strength | | DID Avg. Tensile Strength | | DID Max. Allowable Load | | Approx. Weight |
DID	JIS	P	W	D	d	E	G	L	e	g	C	T	H	h	kN	kgf	kN	kgf	kN	kgf	kN	kgf	(kg/m)
DID80	80					32.6	35.4	37.1							55.6	5,640	71.6	7,270	78.4	7,960	14.7	1,490	2.55
DID80-2	80-2					61.9	64.7	66.3							111.2	11,290	143	14,520	157	15,940	25	2,540	5.07
DID80-3	80-3	25.40	15.88	15.88	7.94	91.3	94.0	95.1	16.3	19.00	29.3	3.20	24.0	20.8	166.8	16,930	215	21,830	235	23,860	36.8	3,740	7.58
DID80-4	80-4					120.6	123.3	124.4							—	—	286	29,040	314	31,880	48.5	4,920	10.1
DID80-5	80-5					149.9	152.6	153.7							—	—	358	36,350	392	39,800	57.3	5,820	12.6

Note: The values of average tensile strength and Max. allowable tension are for chains.

Max. Kilowatt Ratings DID 80

Unit (kW)

| Type of Lubrication / No. of Teeth of Small Sprocket | Small Sprocket revolutions per minute (rpm) (See P132 for the details of type of lubrication A, B and C.) | | | | | | | | | | | | | | | | | | | | | | | | |
| | 20 | 50 | 100 | 200 | 300 | 400 | 500 | 700 | 900 | 1000 | 1200 | 1400 | 1500 | 1600 | 1800 | 2000 | 2200 | 2400 | 2600 | 2700 | 2800 | 3000 | 3200 | 3400 |
	A			B											C									
11	1.22	2.79	5.21	9.73	14.0	18.2	22.2	22.8	17.1	14.6	11.1	8.83	7.96	7.22	6.05	5.17	4.48	3.93	3.48	3.29	3.12	2.81	2.55	2.33
12	1.34	3.07	5.73	10.7	15.4	20.0	24.4	25.0	19.5	16.7	12.7	10.1	9.07	8.23	6.90	5.89	5.10	4.48	3.97	3.75	3.55	3.20	2.91	2.65
13	1.46	3.34	6.25	11.7	16.8	21.8	26.6	27.3	22.0	18.8	14.3	11.3	10.2	9.28	7.78	6.64	5.75	5.05	4.48	4.23	4.01	3.61	3.28	2.99
14	1.59	3.62	6.77	12.6	18.2	23.6	28.8	29.5	24.6	21.0	16.0	12.7	11.4	10.4	8.69	7.42	6.43	5.64	5.01	4.73	4.48	4.04	3.66	3.35
15	1.71	3.90	7.29	13.6	19.6	25.4	31.1	32.6	27.3	23.3	17.7	14.1	12.7	11.5	9.64	8.23	7.13	6.26	5.55	5.25	4.97	4.48	4.06	—
16	1.83	4.19	7.82	14.6	21.0	27.2	33.3	35.9	30.1	25.7	19.5	15.5	14.0	12.7	10.6	9.07	7.86	6.90	6.12	5.78	5.47	4.93	4.48	—
17	1.96	4.47	8.35	15.6	22.4	29.1	35.5	39.3	32.9	28.1	21.4	17.0	15.3	13.9	11.6	9.93	8.61	7.55	6.70	6.33	5.99	5.40	4.90	—
18	2.08	4.75	8.88	16.6	23.9	30.9	37.8	42.8	35.9	30.6	23.3	18.5	16.7	15.1	12.7	10.8	9.38	8.23	7.30	6.90	6.53	5.89	5.34	—
19	2.21	5.04	9.41	17.6	25.3	32.8	40.1	46.0	38.9	33.2	25.3	20.0	18.1	16.4	13.8	11.7	10.2	8.93	7.92	7.48	7.08	6.39	—	—
20	2.33	5.33	9.95	18.6	26.8	34.7	42.4	48.7	42.0	35.9	27.3	21.7	19.5	17.7	14.9	12.7	11.0	9.64	8.55	8.08	7.65	6.90	—	—
21	2.46	5.62	10.5	19.6	28.2	36.5	44.7	51.3	45.2	38.6	29.4	23.3	21.0	19.1	16.0	13.6	11.8	10.4	9.20	8.69	8.23	7.42	—	—
22	2.59	5.91	11.0	20.6	29.7	38.4	47.0	53.9	48.5	41.4	31.5	25.0	22.5	20.4	17.1	14.6	12.7	11.1	9.86	9.32	8.83	7.96	—	—
23	2.71	6.20	11.6	21.6	31.1	40.3	49.3	56.6	51.8	44.2	33.6	26.7	24.1	21.9	18.3	15.6	13.6	11.9	10.5	9.96	9.44	3.65	—	—
24	2.84	6.49	12.1	22.6	32.6	42.2	51.6	59.3	55.2	47.1	35.9	28.5	25.7	23.3	19.5	16.7	14.4	12.7	11.2	10.6	10.1	—	—	—
25	2.97	6.78	12.7	23.6	34.0	44.1	53.9	61.9	58.7	50.1	38.1	30.3	27.3	24.8	20.8	17.7	15.4	13.5	12.0	11.3	10.7	—	—	—
28	3.36	7.67	14.3	26.7	38.5	49.8	60.9	73.5	69.6	59.4	45.2	35.9	32.3	29.4	24.6	21.0	18.2	16.0	14.2	13.4	—	—	—	—
30	3.62	8.26	15.4	28.8	41.5	53.7	65.6	79.6	77.2	65.9	50.1	39.8	35.9	32.6	27.3	23.3	20.2	17.7	15.7	6.03	—	—	—	—
32	3.88	8.86	16.5	30.9	44.4	57.6	70.4	85.0	85.0	72.6	55.2	43.8	39.5	35.9	30.1	25.7	22.2	19.5	—	—	—	—	—	—
35	4.27	9.76	18.2	34.0	49.0	63.4	77.5	95.0	95.0	83.0	63.2	50.1	45.2	41.0	34.4	29.4	25.4	—	—	—	—	—	—	—
40	4.94	11.3	21.0	39.3	56.6	73.3	89.6	110	110	101	77.2	61.2	55.2	50.1	42	35.9	—	—	—	—	—	—	—	—
45	5.61	12.8	23.9	44.6	64.2	83.2	102	126	126	121	92.1	73.1	65.9	59.8	50.1	—	—	—	—	—	—	—	—	—

Note: 1. Values in the table above are for simplex chain only. For multiplex chains, please multiply the coefficient of multi-strand. (See "Chain Selection" on P120).
2. Consult us when the ratings beyond the dotted line to rightward.