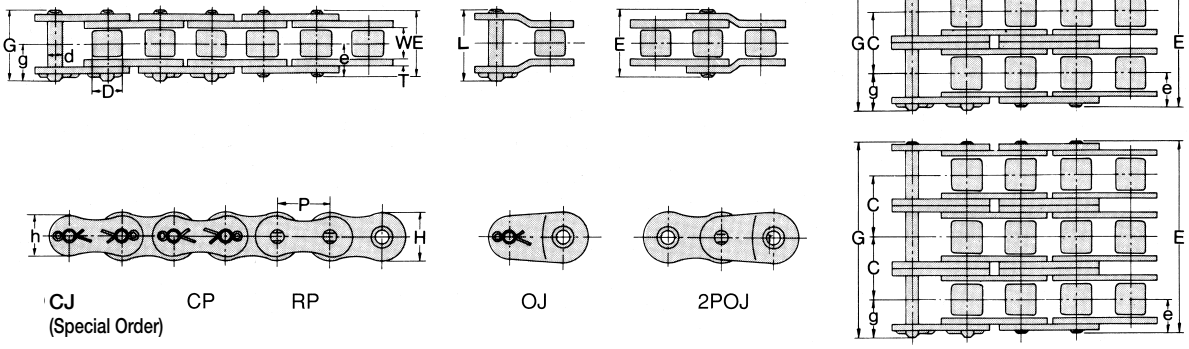
DID 80 standard roller chain



Dimensions

Unit (mm)

Chain No.		Pitch	Roller Link Width	Roller dia.	Pin						Transvers e Pitch	Plate			JIS Min. Tensile Strength		DID Min. Tensile Strength		DID Avg. Tensile Strength		DID Max. Allowable Load		Approx. Weight (kg/m)
DID	JIS	P	W	D	d	E	G	L	e	g	C	T	H	h	kN	kgf	kN	kgf	kN	kgf	kN	kgf	
DID80	80	25.40	15.88	15.88	7.94	32.5	35.5	37.1	16.3	19.25	29.3	3.20	24.1	20.8	61.2	6,240	71.59	7,300	78.4	8,000	14.7	1,500	2.55
DID80-2	80-2					61.8	64.7	66.3							122.4	12,480	143.1	14,600	156	16,000	25.0	2,550	5.07
DID80-3	80-3					91.3	94.0	95.1							183.6	18,720	214.7	21,900	235	24,000	36.7	3,750	7.58
DID80-4	80-4					120.6	123.3	124.4							244.8	24,960	286.3	29,200	313	32,000	48.5	4,950	10.1
DID80-5	80-5					149.9	152.6	153.7							306.0	31,200	357.9	36,500	392	40,000	57.3	5,850	12.6

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

Max. Kilowatt Ratings DID 80

Unit (kW)

No. of Teeth of Small Sprocket \ Type of Lubrication	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	1600	1800	2000	2200	2400	2600	2700	2800	3000	3200	3400	3600	3800
	A			B										C											
11	1.13	2.12	3.95	7.37	10.6	13.8	16.8	22.8	17.1	14.6	11.1	8.83	7.23	6.06	5.17	4.48	3.93	3.49	3.30	3.12	2.82	2.56	2.33		
12	1.25	2.33	4.34	8.10	11.7	15.1	18.5	25.0	19.5	16.7	12.7	10.1	8.24	6.90	5.89	5.11	4.48	3.98	3.76	3.56	3.21	2.91	2.66		
13	1.36	2.54	4.73	8.83	12.7	16.5	20.1	27.3	22.0	18.8	14.3	11.4	9.29	7.78	6.64	5.76	5.05	4.48	4.24	4.01	3.62	3.28	3.00		
14	1.47	2.75	5.13	9.56	13.8	17.9	21.8	29.5	24.6	21.0	16.0	12.7	10.4	8.70	7.43	6.44	5.65	5.01	4.73	4.48	4.04	3.67	3.35		
15	1.59	2.96	5.52	10.3	14.8	19.2	23.5	31.8	27.3	23.3	17.7	14.1	11.5	9.65	8.24	7.14	6.27	5.56	5.25	4.97	4.48	4.07			
16	1.70	3.17	5.92	11.1	15.9	20.6	25.2	34.1	30.1	25.7	19.5	15.5	12.7	10.6	9.07	7.86	6.90	6.12	5.78	5.48	4.94	4.48			
17	1.82	3.39	6.32	11.8	17.0	22.0	26.9	36.4	32.9	28.1	21.4	17.0	13.9	11.6	9.94	8.61	7.56	6.70	6.34	6.00	5.41	4.91			
18	1.93	3.60	6.72	12.6	18.1	23.4	28.6	38.7	35.9	30.6	23.3	18.5	15.1	12.7	10.8	9.38	8.24	7.30	6.90	6.54	5.89	5.35			
19	2.05	3.82	7.13	13.3	19.2	24.8	30.3	41.1	38.9	33.2	25.3	20.1	16.4	13.8	11.7	10.2	8.93	7.92	7.49	7.09	6.39				
20	2.16	4.04	7.33	14.1	20.3	26.2	32.1	43.4	42.0	35.9	27.3	21.7	17.7	14.9	12.7	11.0	9.65	8.55	8.08	7.65	6.90				
21	2.28	4.26	7.94	14.8	21.4	27.7	33.8	45.8	45.2	38.6	29.4	23.3	19.1	16.0	13.6	11.8	10.4	9.20	8.70	8.24	7.43				
22	2.40	4.48	8.35	15.6	22.5	29.1	35.6	48.1	48.5	41.4	31.5	25.0	20.4	17.1	14.6	12.7	11.1	9.87	9.33	8.83	7.96				
23	2.52	4.70	8.76	16.4	23.6	30.5	37.3	50.5	51.8	44.2	33.7	26.7	21.9	18.3	15.6	13.6	11.9	10.6	9.97	9.44	3.66				
24	2.63	4.92	9.17	17.1	24.7	31.9	39.1	52.9	55.2	47.2	35.9	28.5	23.3	19.5	16.7	14.5	12.7	11.3	10.6	10.1					
25	2.75	5.14	9.59	17.9	25.8	33.4	40.8	55.2	58.7	50.1	38.1	30.3	24.8	20.8	17.7	15.4	13.5	12.0	11.3	10.7					
28	3.11	5.81	10.8	20.2	29.1	37.7	46.1	62.4	69.6	59.4	45.2	35.9	29.4	24.6	21.0	18.2	16.0	14.2	13.4						
30	3.35	6.26	11.7	21.9	31.4	40.1	49.7	67.3	77.2	65.9	50.1	39.8	32.6	27.3	23.3	20.2	17.7	15.7	6.03						
32	3.59	6.71	12.5	23.4	33.6	43.6	53.3	72.1	85.0	72.6	55.2	43.8	35.9	30.1	25.7	22.2	19.5								
35	3.96	7.39	13.8	25.7	37.1	48.0	58.7	79.5	97.2	83.0	63.2	50.4	41.0	34.4	29.4	25.4									
40	4.57	8.54	15.9	29.7	42.8	55.5	67.8	91.8	115	101	77.2	61.2	50.1	42.0	35.9										
45	5.19	9.69	18.1	33.8	48.6	63.0	77.0	104	131	121	92.1	73.1	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.