DID 140 standard roller chain
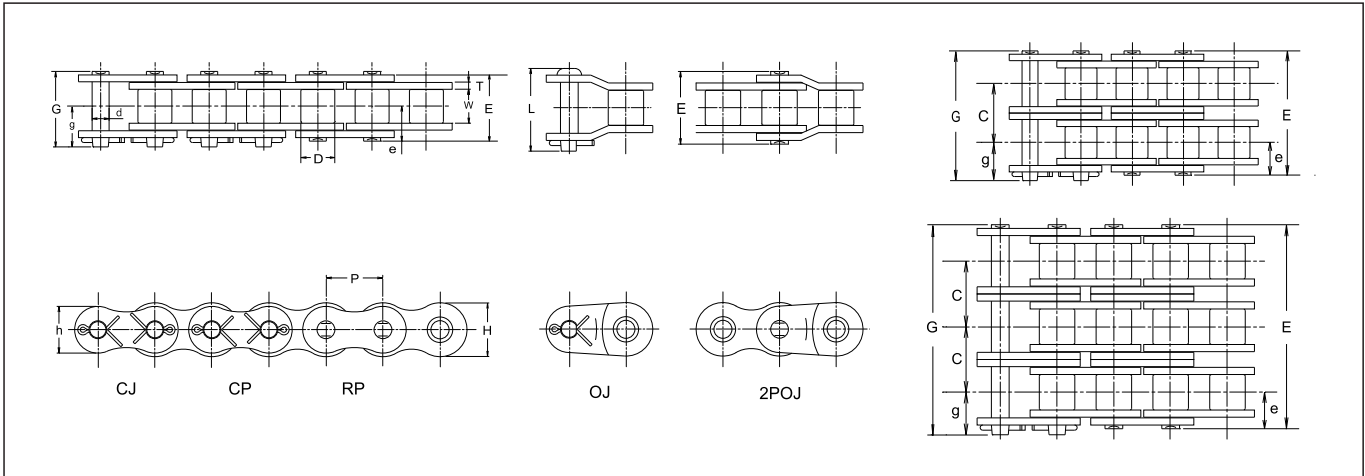
Dimensions

Unit (mm)

Chain No. DID	Chain No. JIS	Pitch P	Roller Link Width W	Roller dia. D	Pin d	Pin E	Pin G	Pin L	Pin e	Pin g	Transverse Pitch C	Plate T	Plate H	Plate h	JIS Min. Tensile Strength kN	JIS Min. Tensile Strength kgf	DID Min. Tensile Strength kN	DID Min. Tensile Strength kgf	DID Avg. Tensile Strength kN	DID Avg. Tensile Strength kgf	DID Max. Allowable Load kN	DID Max. Allowable Load kgf	Approx. Weight (kg/m)
DID140	140					53.6	58.4	59.6							170	17,260	193	19,590	215	21,830	40.2	4,080	7.11
DID140-2	140-2					102.6	107.4	108.6							340	34,520	386	39,190	430	43,650	68.3	6,930	14.1
DID140-3	140-3	44.45	25.40	25.40	12.71	151.5	156.3	157.5	26.8	31.7	48.9	5.60	41.9	36.3	510	51,780	579	58,780	645	65,480	101	10,250	21.1
DID140-4	140-4					200.5	205.3	206.5							—	—	772	78,380	860	87,310	133	13,500	28.1
DID140-5	140-5					249.4	254.2	255.4							—	—	965	97,970	1,075	109,140	157	15,940	34.9

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

Max. Kilowatt Ratings DID 140

Unit (kW)

Type of Lubrication

Small Sprocket revolutions per minute (rpm) (See P132 for the details of type of lubrication A, B and C.)

No. of Teeth of Small Sprocket	10	25	50	100	150	200	250	300	350	400	450	500	550	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1650
	A			B											C										
11	2.93	6.69	12.5	23.3	33.6	43.5	53.2	62.6	72.0	72.7	72.7	64.7	56.1	49.3	39.1	32.0	26.8	22.9	19.8	17.4	15.4	13.8	12.5	11.3	10.8
12	3.22	7.35	13.7	25.6	36.9	47.8	58.4	68.8	79.0	79.9	79.9	73.8	63.9	56.1	44.5	36.4	30.5	26.1	22.6	19.8	17.6	15.7	14.2	12.9	12.3
13	3.51	8.01	15.0	27.9	40.2	52.1	63.7	75.0	86.2	87.1	87.1	83.2	72.1	63.3	50.2	41.1	34.4	29.4	25.5	22.4	19.8	17.8	16.0	14.5	—
14	3.80	8.68	16.2	30.2	43.5	56.4	69.0	81.3	93.4	94.4	94.4	93.0	80.6	70.7	56.1	45.9	38.5	32.9	28.5	25.0	22.2	19.8	17.9	16.2	—
15	4.10	9.35	17.5	32.6	46.9	60.8	74.3	87.6	101	103	103	103	89.4	78.4	62.2	50.9	42.7	36.4	31.6	27.7	24.6	22.0	19.8	5.75	—
16	4.39	10.0	18.7	34.9	50.3	65.2	79.7	93.9	108	114	114	114	98.4	86.4	68.6	56.1	47.0	40.2	34.8	30.5	27.1	24.2	21.9	—	—
17	4.69	10.7	20.0	37.3	53.7	69.6	85.1	100	115	124	124	124	108	94.6	75.1	61.5	51.5	44.0	38.1	33.5	29.7	26.5	23.9	—	—
18	4.99	11.4	21.3	39.7	57.1	74.0	90.5	107	122	136	136	136	117	103	81.8	67.0	56.1	47.9	41.5	36.4	32.3	28.9	26.1	—	—
19	5.29	12.1	22.5	42.0	60.6	78.5	95.9	113	130	144	144	144	127	112	88.7	72.6	60.9	52.0	45.0	39.5	35.1	31.4	28.3	—	—
20	5.59	12.8	23.8	44.4	64.0	82.9	101	119	137	152	152	152	138	121	95.8	78.4	65.7	56.1	48.6	42.7	37.9	33.9	5.68	—	—
21	5.89	13.5	25.1	46.8	67.5	87.4	107	126	145	161	161	161	148	130	103	84.4	70.7	60.4	52.3	45.9	40.7	36.4	—	—	—
22	6.20	14.1	26.4	49.3	71.0	91.9	112	132	152	169	169	169	159	139	111	90.5	75.8	64.7	56.1	49.3	43.7	39.1	—	—	—
23	6.50	14.8	27.7	51.7	74.4	96.4	118	139	160	177	177	177	170	149	118	96.7	81.1	69.2	60.0	52.6	46.7	41.8	—	—	—
24	6.81	15.5	29.0	54.1	77.9	101	123	145	167	186	186	186	181	159	126	103	86.4	73.8	63.9	56.1	49.8	44.2	—	—	—
25	7.11	16.2	30.3	56.6	81.5	106	129	152	175	194	194	194	192	169	134	110	91.9	78.4	68.0	59.7	52.9	15.5	—	—	—
30	8.66	19.8	36.9	68.9	99.2	128	157	185	213	240	253	253	253	222	176	144	121	103	89.4	—	—	—	—	—	—
32	9.29	21.2	39.6	73.8	106	138	168	198	228	257	276	276	276	244	194	159	133	114	98.4	—	—	—	—	—	—
35	10.2	23.4	43.6	81.3	117	152	186	219	251	283	304	304	304	280	222	182	152	130	—	—	—	—	—	—	—
40	11.8	27.0	50.3	94.0	135	175	214	253	290	327	351	351	351	342	271	222	—	—	—	—	—	—	—	—	—
45	13.4	30.6	57.2	107	154	199	243	287	329	372	408	408	408	408	323	—	—	—	—	—	—	—	—	—	—

Note: 1. Values in the table above are for simplex chains 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.