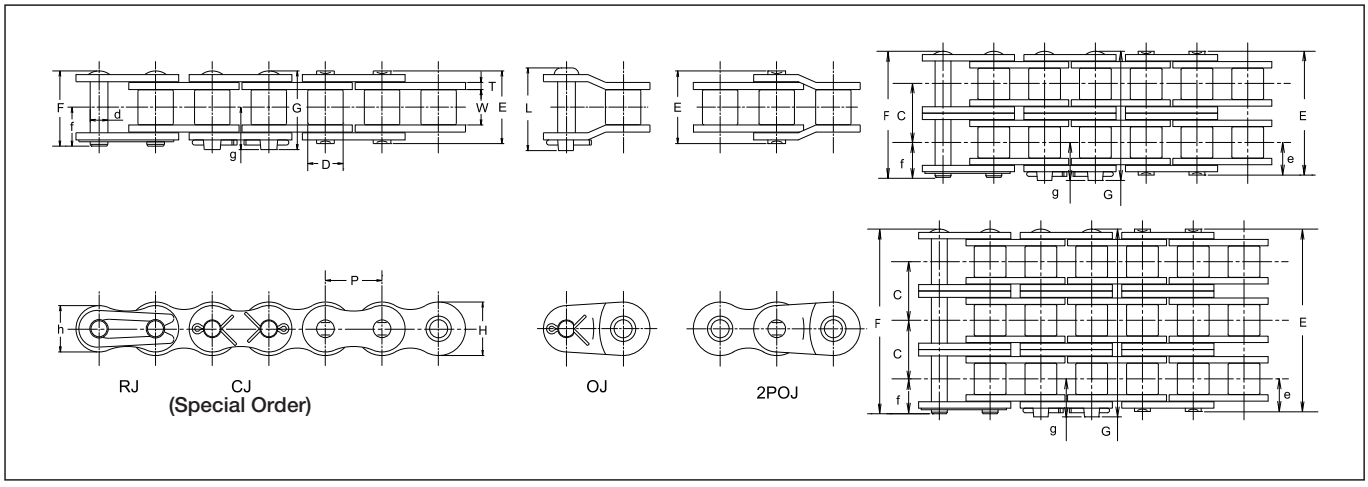
DID 40 standard roller chain



Dimensions

Unit (mm)

Chain No. DID	Chain No. JIS	Pitch P	Roller Link Width W	Roller dia. D	Pin d	Pin E	Pin F	Pin G	Pin L	Pin e	Pin f	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)
DID40	40					16.5	17.6	18.1	19.1								13.9	1,410	15.7	1,590	19.1	1,940	3.72	380	0.63
DID40-2	40-2					31.0	32.1	32.6	33.6								27.8	2,820	31.4	3,190	38.2	3,880	6.32	640	1.19
DID40-3	40-3	12.70	7.95	7.92	3.97	45.4	46.4	47.0	47.9	8.3	9.5	10.1	14.4	1.50	12.0	10.4	41.7	4,230	47.1	4,780	57.3	5,820	9.3	940	1.78
DID40-4	40-4					59.9	61.0	61.4	61.4								—	—	62.8	6,380	76.4	7,760	12.3	1,250	2.37
DID40-5	40-5					74.3	75.4	75.8	75.8								—	—	78.5	7,970	95.5	9,700	14.5	1,470	2.96

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

Max. Kilowatt Ratings DID 40

Unit (kW)

Type of Lubrication / No. of Teeth of Small Sprocket	Small sprocket rpm (Refer to P132 for the details of lubrication A, B and C.) 50	200	400	600	900	1200	1500	1800	2400	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000
	A			**B**										**C**						
11	0.34	1.21	2.25	3.25	4.68	5.07	4.57	3.47	2.25	1.61	1.28	1.05	0.88	0.75	0.65	0.57	0.50	0.45	0.40	0.37
12	0.38	1.33	2.48	3.57	5.15	5.67	5.21	3.96	2.57	1.84	1.46	1.19	1.00	0.85	0.74	0.65	0.57	0.51	0.46	0.42
13	0.41	1.45	2.70	3.89	5.61	6.18	5.87	4.46	2.90	2.07	1.64	1.34	1.13	0.96	0.83	0.73	0.65	0.58	0.52	0.47
14	0.45	1.57	2.93	4.22	6.08	6.70	6.56	4.99	3.24	2.32	1.84	1.50	1.26	1.07	0.93	0.82	0.72	0.65	0.58	0.53
15	0.48	1.69	3.15	4.55	6.55	7.21	7.21	5.54	3.59	2.57	2.04	1.67	1.40	1.19	1.03	0.91	0.80	0.72	0.65	—
16	0.52	1.81	3.38	4.87	7.02	7.74	7.74	6.10	3.96	2.83	2.25	1.84	1.54	1.31	1.14	1.00	0.88	0.79	0.71	—
17	0.55	1.93	3.61	5.20	7.50	8.26	8.26	6.68	4.34	3.10	2.46	2.01	1.69	1.44	1.25	1.09	0.97	0.87	0.78	—
18	0.59	2.06	3.84	5.54	7.98	8.79	8.79	7.28	4.73	3.38	2.68	2.19	1.84	1.57	1.36	1.19	1.06	0.94	0.85	—
19	0.62	2.18	4.07	5.87	8.46	9.43	9.43	7.89	5.12	3.67	2.91	2.38	1.99	1.70	1.47	1.29	1.15	1.02	0.92	—
20	0.66	2.30	4.31	6.20	8.94	10.2	10.2	8.52	5.54	3.96	3.14	2.57	2.15	1.84	1.59	1.40	1.24	1.11	1.00	—
21	0.69	2.43	4.54	6.54	9.42	11.0	11.0	9.17	5.96	4.26	3.38	2.77	2.32	1.98	1.71	1.50	1.33	1.19	—	—
22	0.73	2.56	4.77	6.88	9.91	11.7	11.7	9.84	6.39	4.57	3.62	2.97	2.48	2.12	1.84	1.61	1.43	1.28	—	—
23	0.77	2.68	5.01	7.22	10.4	12.6	12.6	10.5	6.83	4.88	3.87	3.17	2.66	2.27	1.96	1.72	1.53	1.37	—	—
24	0.80	2.81	5.24	7.55	10.9	13.4	13.4	11.2	7.28	5.21	4.13	3.38	2.83	2.42	2.09	1.84	1.63	1.46	—	—
25	0.84	2.93	5.48	7.90	11.4	14.1	14.1	11.9	7.74	5.54	4.39	3.59	3.01	2.57	2.23	1.95	1.73	—	—	—
28	0.95	3.32	6.19	8.92	12.9	16.0	16.0	14.1	9.17	6.56	5.21	4.26	3.57	3.05	2.64	2.32	2.05	—	—	—
30	1.02	3.57	6.67	9.61	13.9	17.2	17.2	15.7	10.2	7.28	5.77	4.73	3.96	3.38	2.93	2.57	—	—	—	—
32	1.10	3.83	7.16	10.3	14.9	18.4	18.4	17.3	11.2	8.02	6.36	5.21	4.36	3.72	3.23	2.83	—	—	—	—
35	1.21	4.22	7.88	11.4	16.4	20.7	20.7	19.7	12.8	9.17	7.28	5.96	4.99	4.26	3.69	—	—	—	—	—
40	1.40	4.88	9.11	13.1	18.9	24.1	24.1	24.1	15.7	11.2	8.89	7.28	6.10	5.21	—	—	—	—	—	—
45	1.59	5.54	10.3	14.9	21.5	27.4	27.4	27.4	18.7	13.4	10.6	8.69	7.28	—	—	—	—	—	—	—

Note: Values in the above table are for simplex chain only. For multiplex chains, please multiply the coefficient of multi-strand. (See "Chain Selection" on P120).