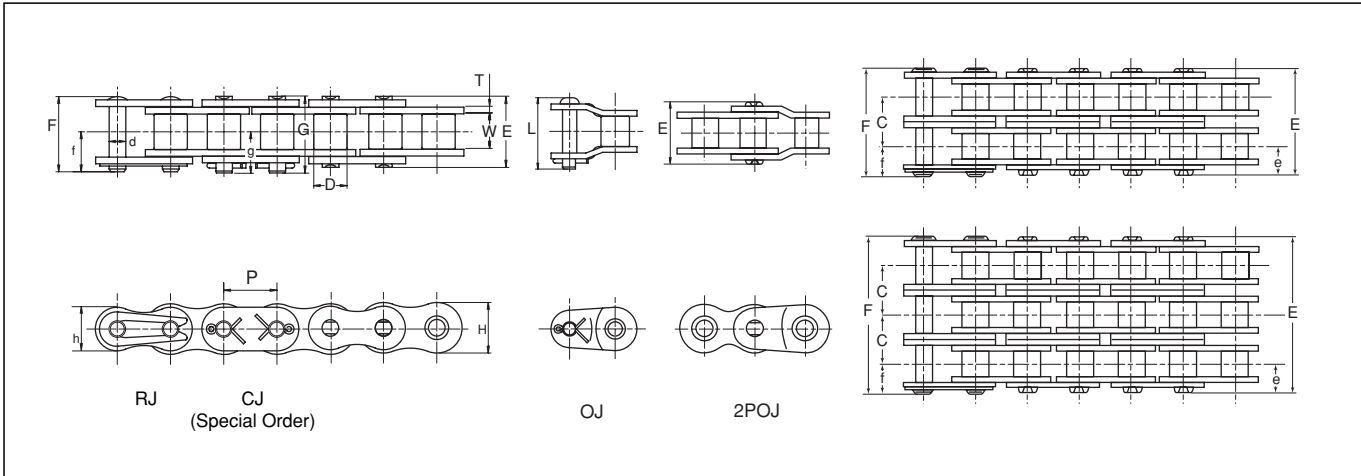


DID 40 standard roller chain

Roller Chains for Power Transmission
Standard Roller Chain



Dimensions

Unit (mm)

Chain No.		Pitch P	Roller Link Width W	Roller dia. D	Pin							Transverse Pitch C	Plate				JIS Min. Tensile Strength		DID Min. Tensile Strength		DID Avg. Tensile Strength		DID Max. Allowable Load		Approx. Weight (kg/m)
DID	JIS				d	E	F	G	L	e	f		g	T	H	h	kN	kgf	kN	kgf	kN	kgf	kN	kgf	
DID40	40				16.5	17.6	18.1	19.1									15.2	1,549	15.69	1,600	19.1	1,950	3.72	380	0.63
DID40-2	40-2				31.0	32.1	32.6	33.6									30.4	3,098	31.38	3,200	38.2	3,900	6.27	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	45.6	4,647	47.07	4,800	57.3	5,850	9.31	950	1.78
DID40-4	40-4					59.9	61.0	61.4	61.4								60.8	6,196	62.76	6,400	76.4	7,800	12.2	1,250	2.37
DID40-5	40-5					74.3	75.4	75.8	75.8								76.0	7,749	78.45	8,000	95.6	9,750	14.5	1,480	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	1800	2400	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	9000
	A			B						C										
11	0.20	0.70	1.30	1.88	2.71	3.51	3.48	2.26	1.62	1.28	1.05	0.88	0.75	0.65	0.57	0.51	0.45	0.41	0.37	
12	0.22	0.77	1.43	2.06	2.97	3.85	3.96	2.57	1.84	1.46	1.20	1.00	0.86	0.74	0.65	0.58	0.52	0.47	0.42	
13	0.24	0.84	1.56	2.25	3.24	4.20	4.47	2.90	2.08	1.65	1.35	1.13	0.97	0.84	0.73	0.65	0.58	0.53	0.48	
14	0.26	0.91	1.69	2.44	3.51	4.55	5.00	3.24	2.32	1.84	1.51	1.26	1.08	0.94	0.82	0.73	0.65	0.59	0.53	
15	0.28	0.98	1.82	2.63	3.78	4.90	5.54	3.60	2.57	2.04	1.67	1.40	1.20	1.04	0.91	0.81	0.72	0.65		
16	0.30	1.05	1.96	2.82	4.06	5.26	6.10	3.96	2.84	2.25	1.84	1.54	1.32	1.14	1.00	0.89	0.80	0.72		
17	0.32	1.12	2.09	3.01	4.33	5.61	6.68	4.34	3.11	2.47	2.02	1.69	1.44	1.25	1.10	0.97	0.87	0.79		
18	0.34	1.19	2.22	3.20	4.61	5.97	7.28	4.73	3.38	2.69	2.20	1.84	1.57	1.36	1.20	1.06	0.95	0.86		
19	0.36	1.26	2.35	3.39	4.89	6.33	7.90	5.13	3.67	2.91	2.38	2.00	1.71	1.48	1.30	1.15	1.03	0.93		
20	0.38	1.33	2.49	3.58	5.16	6.69	8.53	5.54	3.96	3.15	2.57	2.16	1.84	1.60	1.40	1.24	1.11	1.00		
21	0.40	1.41	2.62	3.78	5.44	7.05	9.18	5.96	4.27	3.38	2.77	2.32	1.98	1.72	1.51	1.34	1.20	1.08		
22	0.42	1.48	2.76	3.97	5.72	7.41	9.84	6.39	4.57	3.63	2.97	2.49	2.13	1.84	1.62	1.43	1.28			
23	0.45	1.55	2.89	4.17	6.00	7.78	10.5	6.83	4.89	3.88	3.18	2.66	2.27	1.97	1.73	1.53	1.37			
24	0.47	1.62	3.03	4.37	6.29	8.15	11.2	7.28	5.21	4.14	3.38	2.84	2.42	2.10	1.84	1.63	1.46			
25	0.49	1.70	3.17	4.56	6.57	8.51	11.9	7.74	5.54	4.40	3.60	3.02	2.57	2.23	1.96	1.74				
28	0.55	1.92	3.58	5.16	7.43	9.62	13.9	9.18	6.57	5.21	4.27	3.57	3.05	2.65	2.32	2.06				
30	0.59	2.07	3.86	5.55	8.00	10.4	14.9	10.2	7.28	5.78	4.73	3.96	3.38	2.93	2.57					
32	0.64	2.22	4.13	5.96	8.58	11.1	16.0	11.2	8.02	6.37	5.21	4.37	3.73	3.23	2.84					
35	0.70	2.44	4.55	6.56	9.45	12.2	17.6	12.8	9.18	7.28	5.96	5.00	4.27	3.70						
40	0.81	2.82	5.26	7.58	10.9	14.1	20.4	15.7	11.2	8.90	7.28	6.10	5.21							
45	0.92	3.20	5.98	8.61	12.4	16.1	23.1	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).