

LAMPIRAN

Tabel 1.6 Faktor-faktor koreksi daya yang akan ditransmisikan, f_c .

Daya yang akan ditransmisikan	f_c
Daya rata-rata yang diperlukan	1,2–2,0
Daya maksimum yang diperlukan	0,8–1,2
Daya normal	1,0–1,5

Type of weld	Bare electrode		Covered electrode	
	Steady load	Fatigue load	Steady load	Fatigue load
	kg/cm ²	kg/cm ²	kg/cm ²	kg/cm ²
1. Fillet welds (All types)	790	210	210	350
2. Butt welds				
Tension	900	350	1,100	550
Compression	1,000	350	1,250	550
Shear	550	210	700	350

Design dimensions of screw threads, bolts and nuts according to IS : 1362-1962 (Refer Fig. 10-1).

Designation (1)	Pitch mm (2)	Major or nominal diameter Nut and Bolt ($d - D$) mm (3)	Effective or pitch diameter Nut and Bolt (d_p) mm (4)	Minor or core- diameter (d_e) mm		Depth of thread (bolt) mm (7)	Stress area mm ² (8)
				Bolt (5)	Nut (6)		
Coarse series							
M 0.4	0.1	0.400	0.335	0.277	0.292	0.061	0.074
M 0.6	0.15	0.600	0.503	0.416	0.438	0.092	0.166
M 0.8	0.2	0.800	0.670	0.555	0.584	0.123	0.295
M 1	0.25	1.000	0.838	0.693	0.729	0.153	0.460
M 1.2	0.25	1.200	1.038	0.893	0.929	0.158	0.732
M 1.4	0.3	1.400	1.205	1.032	1.075	0.184	0.983
M 1.6	0.35	1.600	1.373	1.171	1.221	0.215	1.27
M 1.8	0.35	1.800	1.573	1.371	1.421	0.215	1.70
M 2	0.4	2.000	1.740	1.509	1.567	0.245	2.07
M 2.2	0.45	2.200	1.908	1.648	1.713	0.276	2.48
M 2.5	0.45	2.500	2.208	1.948	2.013	0.276	3.39
M 3	0.5	3.000	2.675	2.387	2.459	0.307	5.03
M 3.5	0.6	3.500	3.110	2.764	2.850	0.368	6.78
M 4	0.7	4.000	3.545	3.141	3.242	0.429	8.78

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
M 4.5	0.75	4.500	4.013	3.580	3.688	0.460	11.3
M 5	0.8	5.000	4.480	4.019	4.134	0.491	14.2
M 6	1	6.000	5.350	4.773	4.918	0.613	20.1
M 7	1	7.000	6.350	5.773	5.918	0.613	28.9
M 8	1.25	8.000	7.188	6.466	6.647	0.767	36.6
M 10	1.5	10.000	9.026	8.160	8.876	0.920	58.3
M 12	1.75	12.000	10.863	9.858	10.106	1.074	84.0
M 14	2	14.000	12.701	11.546	11.835	1.227	115
M 16	2	16.000	14.701	13.546	13.835	1.227	157
M 18	2.5	18.000	16.376	14.933	15.294	1.534	192
M 20	2.5	20.000	18.376	16.933	17.294	1.534	245
M 22	2.5	22.000	20.376	18.933	19.294	1.534	303
M 24	3	24.000	22.051	20.320	20.752	1.840	353
M 27	3	27.000	25.051	23.320	23.752	1.840	459
M 30	3.5	30.000	27.727	25.706	26.211	2.147	561
M 33	3.5	33.000	30.727	28.706	29.211	2.147	694
M 36	4	36.000	33.402	31.093	31.670	2.454	817
M 39	4	39.000	36.402	34.093	34.670	2.454	976
M 42	4.5	42.000	39.077	36.416	37.129	2.760	1,104
M 45	4.5	45.000	42.077	39.416	40.129	2.760	1,300
M 48	5	48.000	44.752	41.795	42.587	3.067	1,465
M 52	5	52.000	48.752	45.795	46.587	3.067	1,755
M 56	5.5	56.000	52.428	49.177	50.046	3.067	2,022
M 60	5.5	60.000	56.428	53.177	54.046	3.374	2,360

Nature of load	K_m	K_t
1. Stationary shafts		
(a) Gradually applied load	1.0	1.0
(b) Suddenly applied load	1.5 to 2.0	1.5 to 2.0
2. Rotating shafts		
(a) Gradually applied load	1.5	1.0
(b) Suddenly applied load with minor shock	1.5 to 2.0	1.5 to 2.0
(c) Suddenly applied load with major shock	2.0 to 3.0	1.5 to 3.0

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Tabel Koefisien gesakan

BIDANG KONTAK	NILAI KHAS KOEFSISIEN GESEKAN, μ	
	STATIK	KINETIK
Baja pada baja (kering)	0,6	0,4
Baja pada baja (berpelumas)	0,1	0,05
Teflon pada baja	0,04	0,04
Baja pada balbit (kering)	0,4	0,3
Baja pada balbit (berpelumas)	0,1	0,07
Kuningan pada baja (kering)	0,5	0,4
Sepatu rem pada besi tuang	0,4	0,3
Roda karet pada aspal yang mulus (kering)	0,9	0,8
Tali kawat pada puli besi	0,2	0,15
Tali rami pada logam	0,3	0,2
Logam pada es		0,02