



DN	Outside Diameter	Diameter of bolt circle	Diameter of bolt hole	Bolting		Outside dia. of neck	Bore diameter	Flange Thickness			Diameter of shoulder	Length			Neck diameters		Raised Face	Corner radii	
	D	K	L	Number	Size	A	B1	C1	C2, C3	C4	G max	H1	H2	H3	N1	N2	d1	f1	R1
	01, 05, 11,12,13					11	01, 12	01,	11, 12, 13,	05	05	12, 13	11	11	11	12, 13			11, 12, 13
10	90	60	14	4	M12	17.2	18.0	14	16	16	—	22	35	6	28	30	40	2	4
15	95	65	14	4	M12	21.3	22.0	14	16	16	—	22	38	6	32	35	45	2	4
20	105	75	14	4	M12	26.9	27.5	16	18	18	—	26	40	6	40	45	58	2	4
25	115	85	14	4	M12	33.7	34.5	16	18	18	—	28	40	6	46	52	68	2	4
32	140	100	18	4	M16	42.4	43.5	18	18	18	—	30	42	6	56	60	78	2	6
40	150	110	18	4	M16	48.3	49.5	18	18	18	—	32	45	7	64	70	88	3	6
50	165	125	18	4	M16	60.3	61.5	20	18	18	—	28	45	8	74	84	102	3	6
65*	185	145	18	8	M16	76.1	77.5	20	18	18	55	32	45	10	92	104	122	3	6
80	200	160	18	8	M16	88.9	90.5	20	20	20	70	34	50	10	105	118	138	3	6
100	220	180	18	8	M16	114.3	116.0	22	20	20	90	40	52	12	131	140	158	3	8
125*	250	210	18	8	M16	139.7	141.5	22	22	22	115	44	55	12	156	168	188	3	8
150	285	240	22	8	M20	168.3	170.5	24	22	22	140	44	55	12	184	195	212	3	10
200	340	295	22	8	M20	219.1	221.5	24	24	24	190	44	62	16	234	246	268	3	10
250	395	350	22	12	M20	273.0	276.5	26	26	26	235	46	68	16	292	298	320	3	12
300	445	400	22	12	M20	323.9	327.5	26	26	26	285	46	68	16	342	350	370	4	12
350	505	460	22	16	M20	355.6	359.5	30	26	26	330	53	68	16	385	400	430	4	12
400	565	515	26	16	M24	406.4	411.0	32	26	26	380	57	72	16	440	456	482	4	12
450	615	565	26	20	M24	457.0	462.0	36	28	28	425	63	72	16	488	502	532	4	12
500	670	620	26	20	M24	508.0	513.5	38	28	28	475	67	75	16	542	559	585	4	12
600	780	725	30	20	M27	610.0	616.5	42	30	34	575	75	82	18	642	658	685	5	12
700	895	840	30	24	M27	711.0	b	50	35	38	670	—	85	18	746	—	800	5	12
800	1015	950	33	24	M30	813.0	b	56	38	48	770	—	96	18	850	—	905	5	12
900	1115	1050	33	28	M30	914.0	b	62	38	50	860	—	99	20	950	—	1005	5	12
1000	1230	1160	36	28	M33	1016.0	b	70	44	54	960	—	105	20	1052	—	1110	5	16
1200	1455	1380	39	32	M36	1219.0	b	83	55	66	1160	—	132	25	1256	—	1330	5	16
1400	1675	1590	42	36	M39	1422.0	—	b	65	—	—	—	143	25	1460	—	1535	5	16
1600	1915	1820	48	40	M45	1626.0	—	b	75	—	—	—	159	25	1666	—	1760	5	16
1800	2115	2020	48	44	M45	1829.0	—	b	85	—	—	—	175	30	1868	—	1960	5	16
2000	2325	2230	48	48	M45	2032.0	—	b	90	—	—	—	186	30	2072	—	2170	5	16
2200	2550	2440	56	52	M52	2235.0	—	b	100	—	—	—	202	35	2275	—	2370	5	18
2400	2760	2650	56	56	M52	2438.0	—	b	110	—	—	—	218	35	2478	—	2570	5	18
2600	2960	2850	56	60	M52	2620.0	—	b	110	—	—	—	224	40	2680	—	2780	5	18
2800	3180	3070	56	64	M52	2820.0	—	b	124	—	—	—	244	40	2882	—	3000	5	18
3000	3405	3290	62	68	M56	3020.0	—	b	132	—	—	—	257	45	3085	—	3210	5	18