



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 (Notes)	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	12	M20	219.1	221.5	26	24	24	190	44	62	16	235	246	268	3	10
250	405	355	26	12	M24	273.0	276.5	29	26	26	235	46	70	16	292	298	320	3	12
300	460	410	26	12	M24	323.9	327.5	32	28	28	285	46	78	16	344	350	378	4	12
350	520	470	26	16	M24	355.6	359.0	35	30	30	330	57	82	16	390	400	438	4	12
400	580	525	30	16	M27	406.4	411.0	38	32	32	380	63	85	16	445	456	490	4	12
450	640	585	30	20	M27	457.0	462.0	42	34	40	425	68	83	16	490	502	550	4	12
500	715	650	33	20	M30	508.0	513.5	46	36	44	475	73	84	16	548	559	610	4	12
600	840	770	36	20	M33	610.0	616.5	55	40	54	575	83	88	18	670	658	725	5	12
700	910	840	36	24	M33	711.0	C	63	40	58	670	83	104	18	755	760	795	5	12
800	1025	950	39	24	M36	813.0	C	74	41	62	770	90	108	20	855	864	900	5	12
900	1125	1050	39	28	M36	914.0	C	82	48	64	860	94	118	20	955	968	1000	5	12
1000	1255	1170	42	28	M39	1016.0	C	90	59	68	960	100	137	22	1058	1072	1115	5	16
1200	1485	1390	48	32	M45	1219.0	—	C	78	—	1160	—	160	30	1262	—	1330	5	16
1400	1685	1590	48	36	M45	1422.0	—	C	84	—	1346	—	177	30	1465	—	1530	5	16
1600	1930	1820	56	40	M52	1626.0	—	C	102	—	1546	—	204	35	1668	—	1750	5	16
1800	2130	2020	56	44	M52	1829.0	—	C	110	—	1746	—	218	35	1870	—	1950	5	16
2000	2345	2230	62	48	M56	2032.0	—	C	124	—	1950	—	238	40	2072	—	2150	5	16