



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	
				Number	Size			C1	C2, C3	C4		G max (Note 2)	H1	H2	H3	N1	N2	d1		f1
				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	75	50	11	4	M10	17.2	18.0	12	12	12	—	20	28	6	26	25	35	2	4	
15	80	55	11	4	M10	21.3	22.0	12	12	12	—	20	30	6	30	30	40	2	4	
20	90	65	11	4	M10	26.9	27.5	14	14	14	—	24	32	6	38	40	50	2	4	
25	100	75	11	4	M10	33.7	34.5	14	14	14	—	24	35	6	42	50	60	2	4	
32	120	90	14	4	M12	42.4	43.5	16	14	14	—	26	35	6	55	60	70	2	6	
40	130	100	14	4	M12	48.3	49.5	16	14	14	—	26	38	7	62	70	80	3	6	
50	140	110	14	4	M12	60.3	61.5	16	14	14	—	28	38	8	74	80	90	3	6	
65*	160	130	14	4	M12	76.1	77.5	16	14	14	55	32	38	9	88	100	110	3	6	
80	190	150	18	4	M16	88.9	90.5	18	16	16	70	34	42	10	102	110	128	3	8	
100	210	170	18	4	M16	114.3	116.0	18	16	16	90	40	45	10	130	130	148	3	8	
125*	240	200	18	8	M16	139.7	141.5	20	18	18	115	44	48	10	155	160	178	3	8	
150	265	225	18	8	M16	168.3	170.5	20	18	18	140	44	48	12	184	185	202	3	10	
200	320	280	18	8	M16	219.1	221.5	22	20	20	190	44	55	15	236	240	258	3	10	
250	375	335	18	12	M16	273.0	276.5	24	22	22	235	44	60	15	290	295	312	3	12	
300	440	395	22	12	M20	323.9	327.5	24	22	22	285	44	62	15	342	355	365	4	12	
350	490	445	22	12	M20	355.6	359.5	26	22	22	330	—	62	15	385	—	415	4	12	
400	540	495	22	16	M20	406.4	411.0	28	22	22	380	—	65	15	438	—	465	4	12	
450	595	550	22	16	M20	457.0	462.0	30	22	24	425	—	65	15	492	—	520	4	12	
500	645	600	22	20	M20	508.0	513.5	30	24	24	475	—	68	15	538	—	570	4	12	
600	755	705	26	20	M24	610.0	616.5	32	30	30	575	—	70	16	640	—	670	5	12	
700	860	810	26	24	M24	711.0	Note 1	40	30	40	670	—	76	16	740	—	775	5	12	
800	975	920	30	24	M27	813.0	Note 1	44	30	44	770	—	76	16	842	—	880	5	12	
900	1075	1020	30	24	M27	914.0	Note 1	48	34	48	860	—	78	16	942	—	980	5	12	
1000	1175	1120	30	28	M27	1016.0	Note 1	52	38	52	960	—	82	16	1045	—	1080	5	16	
1200	1405	1340	33	32	M30	1219.0	Note 1	60	42	60	1160	—	104	20	1248	—	1295	5	16	
1400	1630	1560	36	36	M33	1422.0	Note 1	72	56	68	1346	—	114	20	1452	—	1510	5	16	
1600	1830	1760	36	40	M33	1626.0	Note 1	80	63	76	1546	—	119	20	1655	—	1710	5	16	
1800	2045	1970	39	44	M36	1829.0	Note 1	88	69	84	1746	—	133	20	1855	—	1920	5	16	
2000	2265	2180	42	48	M39	2032.0	Note 1	96	74	92	1950	—	146	25	2058	—	2125	5	16	
2200	2475	2390	42	52	M39	2235.0	—	—	81	—	—	—	154	25	2260	—	2335	5	18	
2400	2685	2600	42	56	M39	2438.0	—	—	87	—	—	—	168	25	2462	—	2545	5	18	
2600	2905	2810	48	60	M45	2620.0	—	—	91	—	—	—	175	25	2665	—	2750	5	18	
2800	3115	3020	48	64	M45	2820.0	—	—	101	—	—	—	188	30	2865	—	2960	5	18	
3000	3315	3220	48	68	M45	3020.0	—	—	102	—	—	—	192	30	3068	—	3160	5	18	
3200	3525	3430	48	72	M45	3220.0	—	—	106	—	—	—	202	30	3272	—	3370	5	20	
3400	3735	3640	48	76	M45	3420.0	—	—	110	—	—	—	214	35	3475	—	3580	5	20	
3600	3970	3860	56	80	M52	3620.0	—	—	124	—	—	—	229	35	3678	—	3790	5	20	