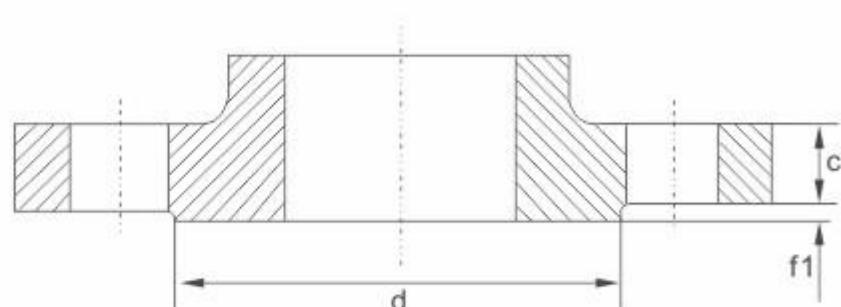
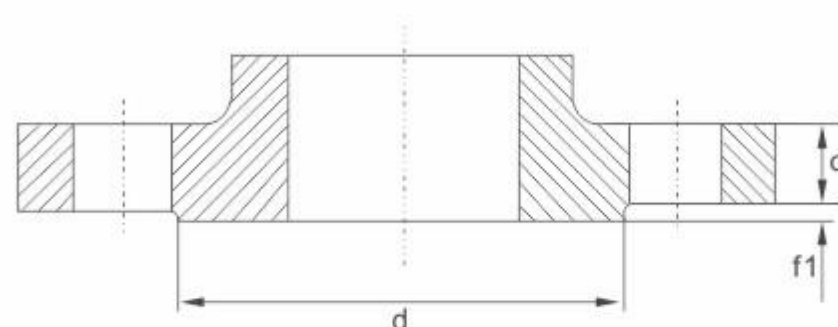
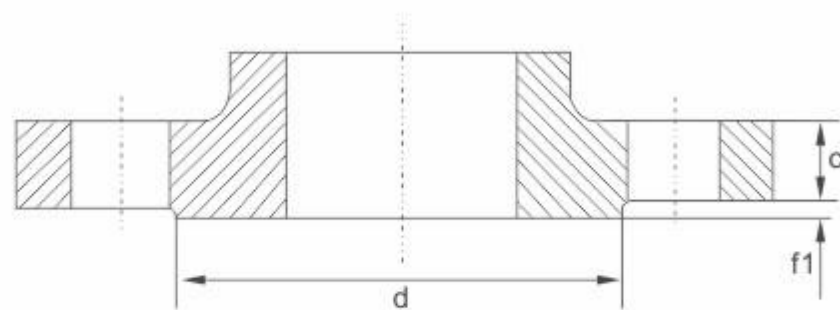


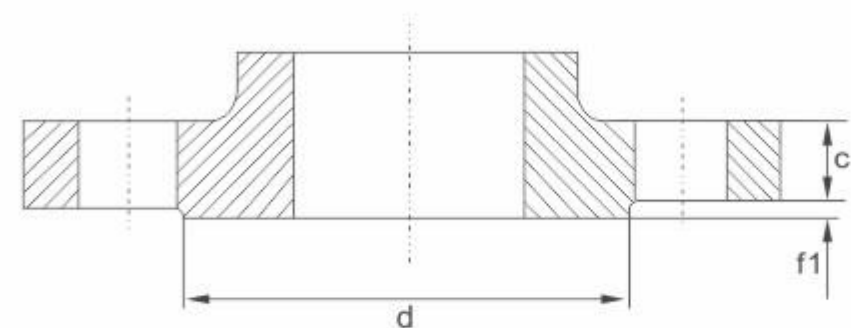
LARGE DIAMETER STEEL PIPE FLANGE


 $\leq$ Class300

 $\geq$ Class600

size		Nominal pressure				Platform height	
DN	NPS	Class150 (PN20)	Class300 (PN50)	Class600 (PN420)	Class900 (PN150)	Class300 (PN50)	Class600 (PN50)
		d				f1	f2
650	26	749	749	749	749	2	7
700	28	800	800	800	800		
750	30	857	857	857	857		
800	32	914	914	914	914		
850	34	965	965	965	965		
900	36	1022	1022	1022	1022		
950	38	1073	1209	1054	1099		
1000	40	1124	1086	1111	1162		
1050	42	1194	1137	1168	-		
1100	44	1245	1194	1226	-		
1150	46	1295	1245	1276	-		
1200	48	1359	1302	1334	-		
1250	50	1410	1359	1384	-		
1300	52	1461	1410	1435	-		
1350	54	1511	1467	1492	-		
1400	56	1575	1518	1543	-		
1450	58	1626	1575	1600	-		
1500	60	1676	1626	1657	-		



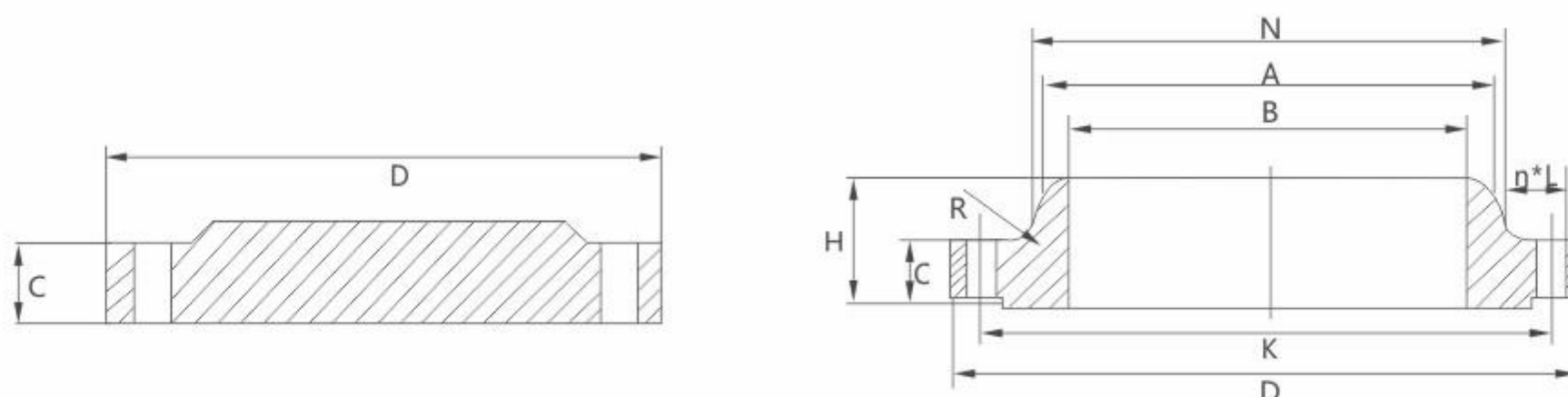
≤Class300



≥Class600

size		Nominal pressure				Platform height	
DN	NPS	Class150 (PN20)	Class300 (PN50)	Class600 (PN420)	Class900 (PN150)	Class300 (PN50)	Class600 (PN50)
		d				f1	f2
650	26	711	737	727	762	2	7
700	28	762	787	784	819		
750	30	813	845	841	876		
800	32	864	902	895	927		
850	34	921	953	953	991		
900	36	972	1010	1010	1029		
950	38	1022	1060	-	-		
1000	40	1080	1114	-	-		
1050	42	1130	1168	-	-		
1100	44	1181	1219	-	-		
1150	46	1235	1270	-	-		
1200	48	1289	1327	-	-		
1250	50	1340	1378	-	-		
1300	52	1391	1429	-	-		
1350	54	1441	1480	-	-		
1400	56	1492	1537	-	-		
1450	58	1543	1594	-	-		
1500	60	1600	1651	-	-		

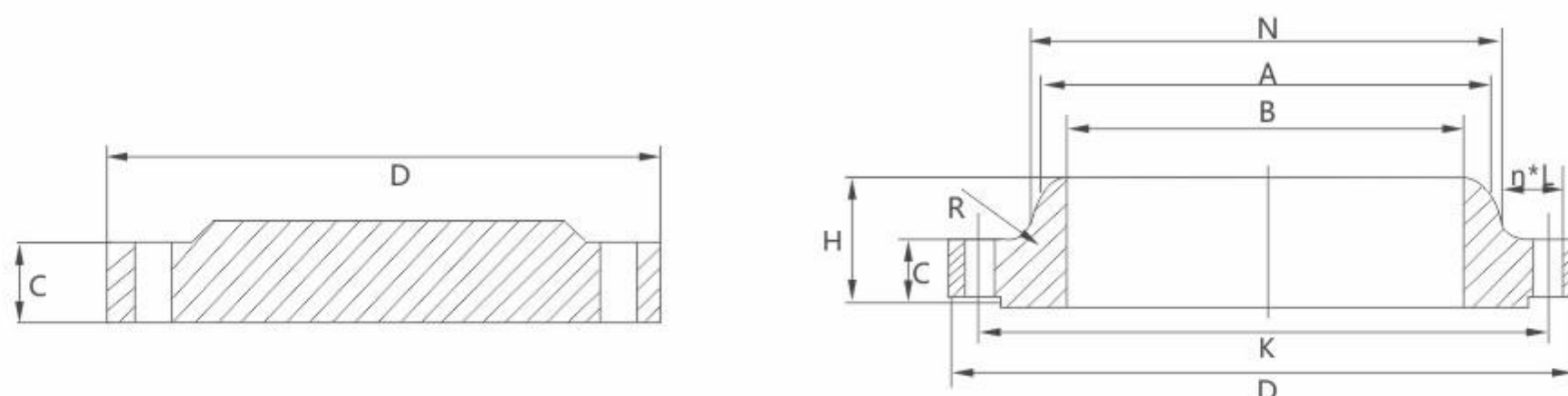
LARGE DIAMETER STEEL PIPE FLANGES AND FLANGE COVERS (A SERIES)



Class150(PN20)

size		Outer diameter of welding end	Connection size						Thickness		Francois Inside diameter	Flange neck		Francois Altitude
DN	NPS		A	D	K	L	n	Th	C	C		N	R	
650	26	660.4		870	806.4	36	24	M33	66.7	66.7	与 钢 管 内 径 一 致	676	10	119
700	28	711.2		925	863.6	36	28	M33	69.9	69.9		727	11	124
750	30	762.0		985	914.4	36	28	M33	73.1	73.1		781	11	135
800	32	812.8		1060	977.9	42	28	M39	79.4	79.4		832	11	143
850	34	863.6		1110	1028.7	42	32	M39	81.0	81.0		883	13	148
900	36	914.4		1170	1085.8	42	32	M39	88.9	88.9		933	13	156
950	38	965.2		1240	1149.4	42	32	M39	85.8	85.8		991	13	156
1000	40	1016.0		1290	1200.2	42	36	M39	88.9	88.9		1041	13	162
1050	42	1066.8		1345	1257.3	42	36	M39	95.3	95.3		1092	13	170
1100	44	1117.6		1405	1314.4	42	40	M39	100.1	100.1		1143	13	176
1150	46	1168.4		1455	1365.2	42	40	M39	101.6	101.6		1197	13	184
1200	48	1219.2		1510	1422.4	42	44	M39	106.4	106.4		1248	13	191
1250	50	1270.0		1570	1479.6	48	44	M45	109.6	109.6		1302	13	202
1300	52	1320.8		1625	1536.7	48	44	M45	114.3	114.3		1353	13	208
1350	54	1371.6		1685	1593.8	48	44	M45	119.1	119.1		1403	13	214
1400	56	1422.4		1745	1651.0	48	48	M45	122.3	122.3		1457	13	227
1450	58	1473.2		1805	1708.2	48	48	M45	127.0	127.0		1508	13	233
1500	60	1524.0		1855	1759.0	48	52	M45	130.2	130.2		1559	13	238

LARGE DIAMETER STEEL PIPE FLANGES AND FLANGE COVERS (A SERIES)



Class300(PN50)

size		Outer diameter of welding end	Connection size					Thickness		Francois Inside diameter	Flange neck		Francois Altitude
DN	NPS	A	D	K	L	n	Th	C	C	B	N	R	H
650	26	660.4	970	876.3	45	28	M42	77.8	82.6	与 钢 管 内 径 一 致	721	10	183
700	28	711.2	1035	939.8	45	28	M42	84.2	88.9		775	11	195
750	30	762.0	1090	997.0	48	28	M45	90.5	93.7		827	11	208
800	32	812.8	1150	1054.1	51	28	M48	96.9	98.5		881	11	221
850	34	863.6	1205	1104.9	51	28	M48	100.1	103.2		937	13	230
900	36	914.4	1270	1168.4	55	32	M52	103.2	109.6		991	13	240
950	38	965.2	1170	1092.2	42	32	M39	106.4	106.4		994	13	179
1000	40	1016.0	1240	1155.7	45	32	M42	112.8	112.8		1048	13	192
1050	42	1066.8	1290	1206.5	45	32	M42	117.5	117.5		1099	13	198
1100	44	1117.6	1355	1263.6	48	32	M45	122.3	122.3		1149	13	205
1150	46	1168.4	1415	1320.8	51	28	M48	127.0	127.0		1203	13	214
1200	48	1219.2	1465	1371.6	51	32	M48	131.8	131.8		1254	13	222
1250	50	1270.0	1530	1428.8	55	32	M52	138.2	138.2		1305	13	230
1300	52	1320.8	1580	1479.6	55	32	M52	142.9	142.9		1356	13	237
1350	54	1371.6	1660	1549.4	60	28	M56	150.9	150.9		1410	13	251
1400	56	1422.4	1710	1600.2	60	28	M56	152.4	152.4		1464	13	259
1450	58	1473.2	1760	1651.0	60	32	M56	157.2	157.2		1514	13	265
1500	60	1524.0	1810	1701.8	60	32	M56	162.0	162.0		1565	13	271



LARGE DIAMETER STEEL PIPE FLANGES AND FLANGE COVERS (A SERIES)

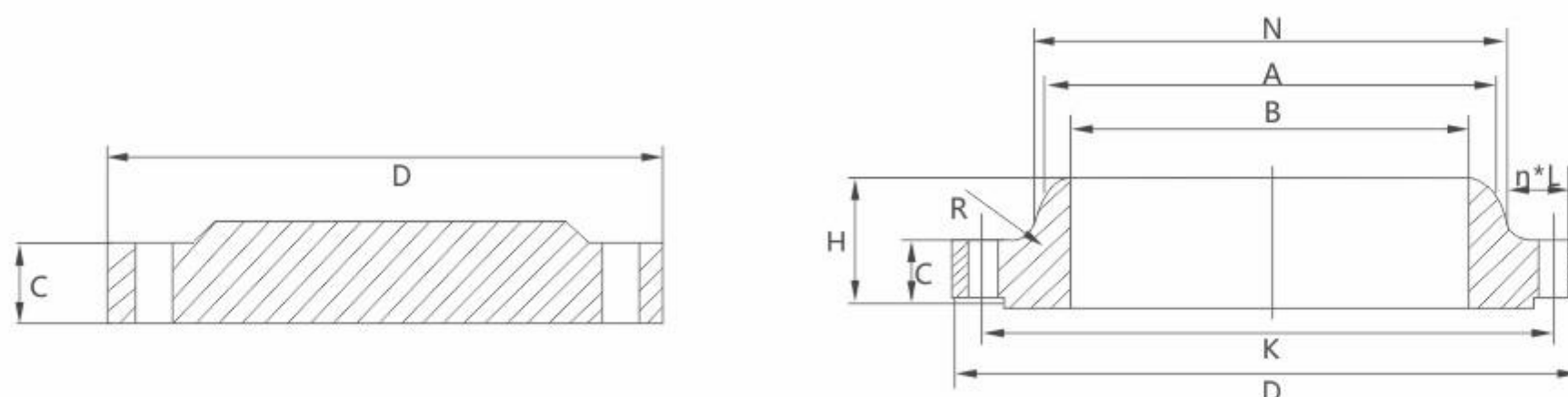
Class600(PN110)

size		Outer diameter of welding end	Connection size					Thickness		Francois Inside diameter	Flange neck		Francois Altitude
DN	NPS	A	D	K	L	n	Th	C	C	B	N	R	H
650	26	660.4	1015	914.4	51	28	M48	108.0	125.5	与 钢 管 内 径 一 致	748	13	222
700	28	711.2	1075	965.2	55	28	M52	111.2	131.8		803	13	235
750	30	762.0	1130	1022.4	55	28	M52	114.3	139.7		862	13	248
800	32	812.8	1195	1079.5	60	28	M56	117.5	147.7		918	13	260
850	34	863.6	1245	1130.3	60	28	M56	120.7	154.0		973	14	270
900	36	914.4	1315	1193.8	68	28	M64	123.9	162.0		1032	14	283
950	38	965.2	1270	1162.0	60	28	M56	152.4	155.0		1022	14	254
1000	40	1016.0	1320	1212.8	60	32	M56	158.8	162.0		1073	14	264
1050	42	1066.8	1405	1282.7	68	28	M64	168.3	171.5		1127	14	279
1100	44	1117.6	1455	1333.5	68	32	M64	173.1	177.8		1181	14	289
1150	46	1168.4	1510	1390.6	68	32	M64	179.4	185.8		1235	14	300
1200	48	1219.2	1595	1460.5	74	32	M70	189.0	195.3		1289	14	316
1250	50	1270.0	1670	1524.0	80	28	M76	196.9	203.2		1343	14	329
1300	52	1320.8	1720	1574.8	80	32	M76	203.2	209.6		1394	14	337
1350	54	1371.6	1780	1632.0	80	32	M76	209.6	217.5		1448	14	349
1400	56	1422.4	1855	1695.4	86	32	M82	217.5	225.5		1502	16	362
1450	58	1473.2	1905	1746.2	86	32	M82	222.3	231.8		1553	16	370
1500	60	1524.0	1995	1822.4	94	28	M90	233.4	242.9		1610	17	389

Class900(PN150)

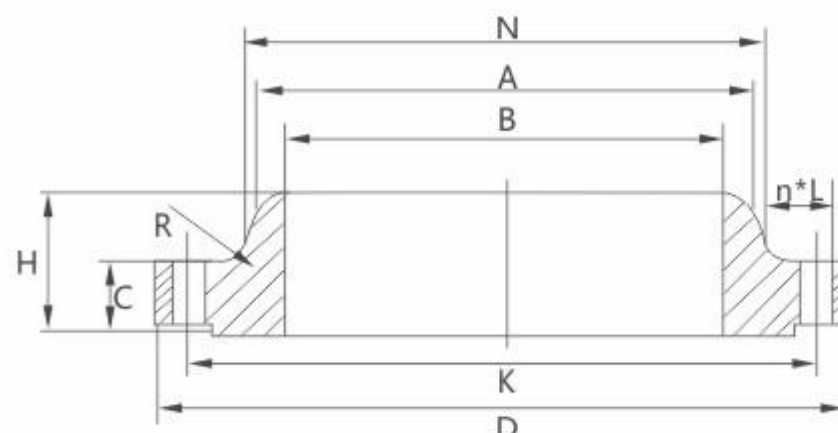
size		Outer diameter of welding end	Connection size					Thickness		Francois Inside diameter	Flange neck		Francois Altitude
DN	NPS	A	D	K	L	n	Th	C	C	B	N	R	H
650	26	660.4	1085	952.5	74	20	M70	139.7	160.4	与 钢 管 内 径 一 致	775	11	286
700	28	711.2	1170	1022.4	80	20	M76	142.9	171.5		832	13	298
750	30	762.0	1230	1085.9	80	20	M76	149.3	182.6		889	13	311
800	32	812.8	1315	1155.7	86	20	M82	158.8	193.7		946	13	330
850	34	863.6	1395	1225.6	94	20	M90	165.1	204.8		1006	14	349
900	36	914.4	1460	1289.1	94	20	M90	171.5	214.4		1064	14	362
950	38	965.2	1460	1289.1	94	20	M90	190.5	215.9		1073	19	352
1000	40	1016.0	1510	1339.9	94	24	M90	196.9	223.9		1127	21	364

LARGE DIAMETER STEEL PIPE FLANGES AND FLANGE COVERS (B SERIES)



size		Outer diameter of welding end	Connection size					Thickness		Francois Inside diameter	Flange neck		Francois Altitude
DN	NPS	A	D	K	L	n	Th	C	C	B	N	R	H
Class150(PN20)													
650	26	661.9	785	744.5	22	36	M20	39.8	43.0		684	10	87
700	28	712.7	835	795.3	22	40	M20	43.0	46.2		735	10	94
750	30	763.5	885	846.1	22	44	M20	43.0	49.3		787	10	98
800	32	814.3	940	900.1	22	48	M20	44.6	52.5		840	10	106
850	34	865.1	1005	957.3	26	40	M24	47.7	55.7		892	10	109
900	36	915.9	1055	1009.6	26	44	M24	50.9	57.3		945	10	116
950	38	968.2	1125	1070.0	30	40	M27	52.5	62.0		997	10	122
1000	40	1019.0	1175	1120.8	30	44	M27	54.1	65.2		1049	10	127
1050	42	1069.8	1225	1171.6	30	48	M27	57.3	66.8		1102	11	132
1100	44	1120.6	1275	1222.4	30	52	M27	58.9	70.0		1153	11	135
1150	46	1171.4	1340	1284.3	33	40	M30	60.4	73.1		1205	11	143
1200	48	1222.2	1390	1335.1	33	44	M30	63.6	76.3		1257	11	148
1250	50	1273.0	1445	1385.9	33	48	M30	66.8	79.5		1308	11	152
1300	52	1323.8	1495	1436.7	33	52	M30	68.4	82.7		1360	11	156
1350	54	1374.6	1550	1492.2	33	56	M30	70.0	85.8		1413	11	160
1400	56	1425.4	1600	1543.0	33	60	M30	71.6	89.0		1465	14	165
1450	58	1476.2	1675	1611.3	36	48	M33	73.1	91.9		1516	14	173
1500	60	1527.0	1725	1662.1	36	52	M33	74.7	95.4		1570	14	178

LARGE DIAMETER STEEL PIPE FLANGES AND FLANGE COVERS (B SERIES)

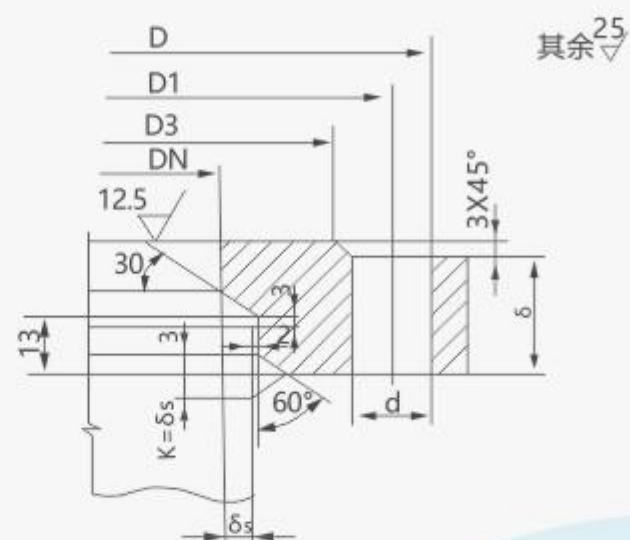


size		Outer diameter of welding end	Connection size					Thickness		Francois Inside diameter	Flange neck		Francois Altitude
DN	NPS	A	D	K	L	n	Th	C	C	B	N	R	H
Class300(PN50)													
650	26	665.2	865	803.3	36	32	M33	87.4	87.4	与 钢 管 内 径 一 致	702	14	143
700	28	716.0	920	857.2	36	36	M33	87.4	87.4		756	14	148
750	30	768.4	990	920.8	39	36	M36X3	92.1	92.1		813	14	156
800	32	819.2	1055	977.9	42	32	M39X3	101.6	101.6		864	16	167
850	34	870.0	1110	1031.9	42	36	M39X3	101.6	101.6		918	16	171
900	36	920.8	1170	1089.0	45	32	M42X3	101.6	101.6		965	16	179
950	38	971.6	1220	1139.8	45	36	M42X3	109.6	109.6		1016	16	191
1000	40	1022.4	1275	1190.6	45	40	M42X3	114.3	114.3		1067	16	197
1050	42	1074.7	1335	1244.6	48	36	M45X3	117.5	117.5		1118	16	203
1100	44	1125.5	1385	1295.4	48	40	M45X3	125.5	125.5		1173	16	213
1150	46	1176.3	1460	1365.2	51	36	M48X3	127.0	128.6		1229	16	221
1200	48	1227.1	1510	1416.0	51	40	M48X3	127.0	133.4		1278	16	222
1250	50	1277.9	1560	1466.8	51	44	M48X3	136.6	138.2		1330	16	233
1300	52	1328.7	1615	1517.6	51	48	M48X3	141.3	142.6		1383	16	241
1350	54	1379.5	1675	1578.0	51	48	M48X3	145.0	147.7		1435	16	238
1400	56	1430.3	1765	1651.0	60	36	M56X3	152.4	155.4		1494	17	267
1450	58	1481.1	1825	1712.9	60	40	M56X3	152.4	160.4	1548	17	273	
1500	60	1557.3	1880	1763.7	60	40	M56X3	149.3	165.1	1599	17	270	
Class600(PN110)													
650	26	660.4	890	806.4	45	28	M42X3	111.2	111.3	与 钢 管 内 径 一 致	698	13	181
700	28	711.2	950	863.6	48	28	M45X3	115.9	115.9		752	13	190
750	30	762.0	1020	927.1	51	28	M48X3	125.5	127.0		806	13	205
800	32	812.8	1085	984.2	55	28	M52X3	130.2	134.9		860	13	216
850	34	863.6	1160	1054.1	60	24	M56X3	141.3	144.2		914	14	233
900	36	914.4	1215	1104.9	60	28	M56X3	146.1	150.9		968	14	243
Class900(PN150)													
650	26	660.4	1020	901.7	68	20	M64X3	135.0	154.0	与 钢 管 内 径 一 致	743	11	259
700	28	711.2	1105	971.6	74	20	M70X3	147.7	166.7		797	13	276
750	30	762.0	1180	1035.0	80	20	M76X3	155.6	176.1		851	13	289
800	32	812.8	1240	1092.2	80	20	M76X3	160.4	186.0		908	13	303
850	34	863.6	1315	1155.7	86	20	M82X3	171.5	195.0		962	14	319
900	36	914.4	1345	1200.2	80	24	M76X3	173.1	201.7		1016	14	325

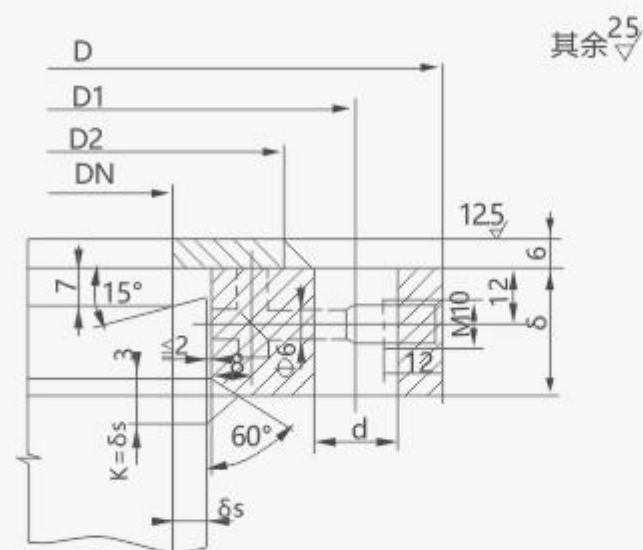
size		Class150		Class300		Class600		Class900	
DN	NPS	Francois	Flange cover	Francois	Flange cover	Francois	Flange cover	Francois	Flange cover
650	26	136.2	318.8	274.7	489.5	426.8	798.6	692.4	1165
700	28	156.7	378.2	338.3	597.1	481.3	935.7	821.8	1442.9
750	30	181.6	445.9	395	700.6	549.4	1100.1	962.5	1706.2
800	32	229.3	561.6	456.3	815	624.3	1296.7	1155.5	2061.7
850	34	245.2	628.4	519.9	938.9	699.2	1469.6	1348.4	2463
900	36	290.6	761	578.9	1106	774.1	1726.2	1541.4	2818.9
950	38	326.9	825.9	315.6	908.5	667.4	1545.5	1536.8	2838.9
1000	40	351.9	926.2	381.4	1080.6	740.1	1742.5	1643.5	3150.8
1050	42	404.1	1081	431.3	1220.4	921.7	2081.6	-	-
1100	44	449.5	1233.6	479	1397.9	980.7	2317.7	-	-
1150	46	481.3	1344.3	560.7	1588.6	1094.2	2614.2	-	-
1200	48	538	1520	626.6	1768.8	1296.2	3058.6	-	-
1250	50	576.6	1687.1	694.7	2016.7	1511.9	3493.6	-	-
1300	52	640.2	1886.9	753.7	2227.4	1616.3	3825.5	-	-
1350	54	719.6	2106.2	930.7	2580.6	1779.7	4237.2	-	-
1400	56	799.1	2330	978.4	2768.5	1943.2	4780.2	-	-
1450	58	869.5	2576.5	1030.6	3027.8	2106.6	5182	-	-
1500	60	928.5	2794	1121.4	3302.4	2270	5951.1		

size		Class150		Class300		Class600		Class900	
DN	NPS	Francois	Flange cover	Francois	Flange cover	Francois	Flange cover	Francois	Flange cover
650	26	54.5	169.4	181.6	411.8	249.7	542.1	476.7	991.6
700	28	63.6	206.2	204.3	464.5	295.1	647.9	690.1	1254
750	30	68.1	246.6	249.7	567.1	367.8	818.2	826.3	1513.7
800	32	77.2	294.2	310.99	706.5	431.3	980.2	937.6	1754.8
850	34	95.4	355.5	340.5	780.5	547.1	1200.9	1112.3	2077.6
900	36	109	404.1	381.4	872.2	608.4	1368	1144.1	2253.3
950	38	131.7	494.5	415.5	1024.7	-	-	-	-
1000	40	140.8	566.2	449.5	1157.3	-	-	-	-
1050	42	156.7	632.5	515.3	1305.8	-	-	-	-
1100	44	168	716.9	560.7	1500.2	-	-	-	-
1150	46	197.5	828.1	667.4	1709.8	-	-	-	-
1200	48	218	928.5	715.1	1899.1	-	-	-	-
1250	50	236.1	1037	776.4	2101.6	-	-	-	-
1300	52	249.7	1168.6	835.4	2313.6	-	-	-	-
1350	54	281.5	1293	899	2577.9	-	-	-	-
1400	56	295.1	1427.4	1178.2	3015.5	-	-	-	-
1450	58	354.2	1616.3	1257.6	3335.6	-	-	-	-
1500	60	385.9	1776.6	1303	3623	-	-	-	-

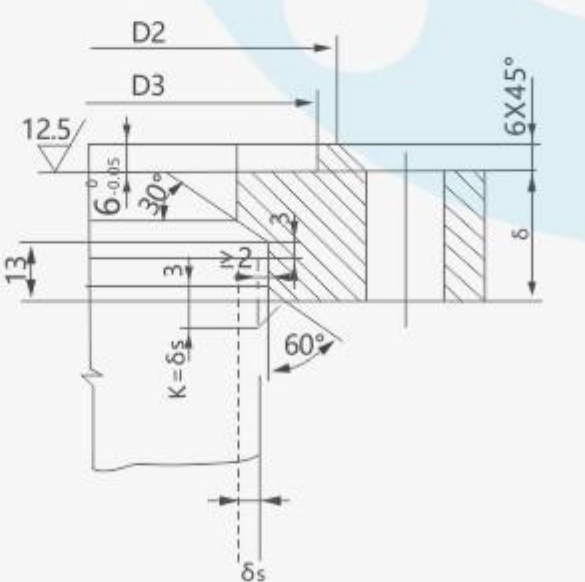
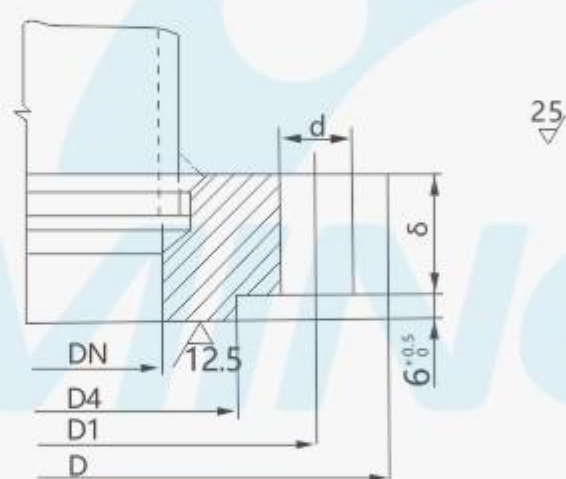
A-TYPE FLAT WELDING FLANGE



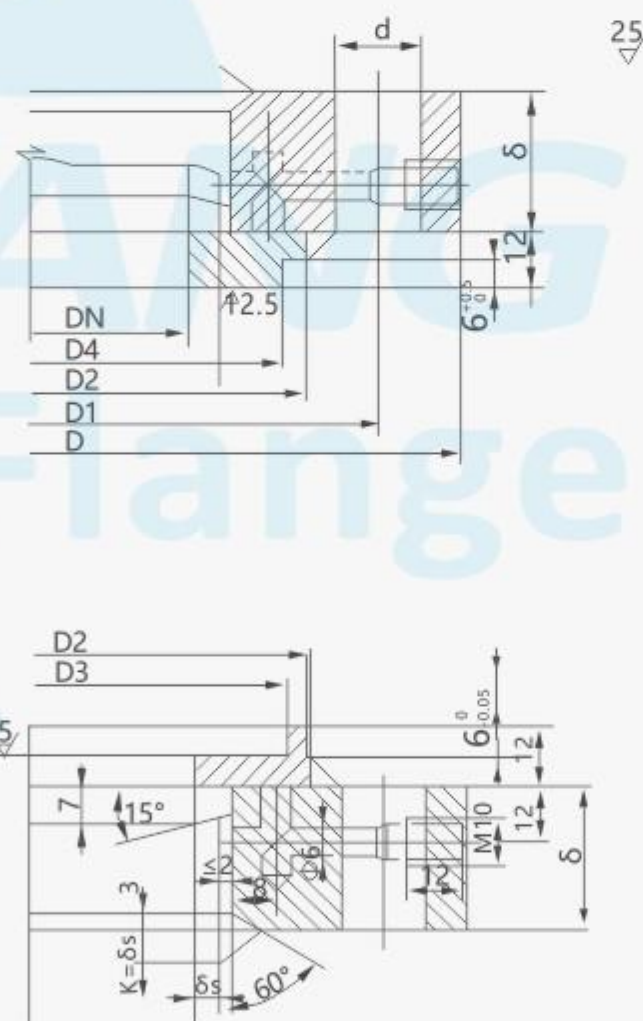
Flat sealing face flange



Lining ring flat sealing surface
NB/T 47021-2012(JB/T 4701)



Concave and convex sealing face flange



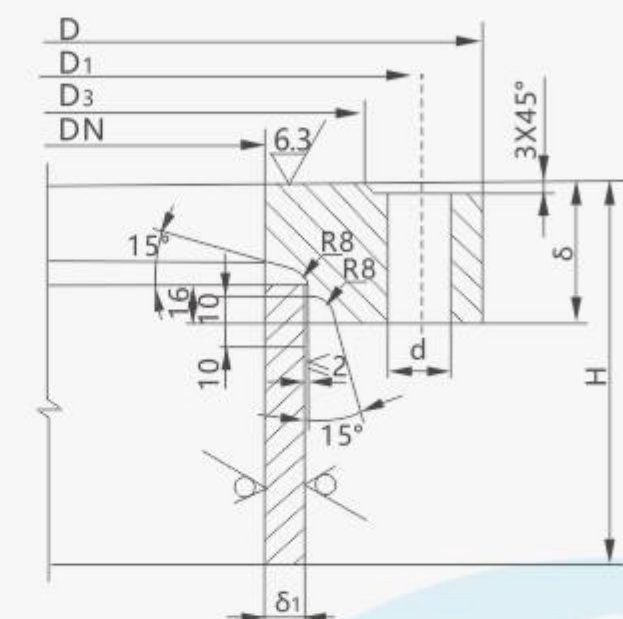
Liner ring concave and convex sealing surface
NB/T 47021-2012(JB/T 4701)

A-TYPE FLAT WELDING FLANGE

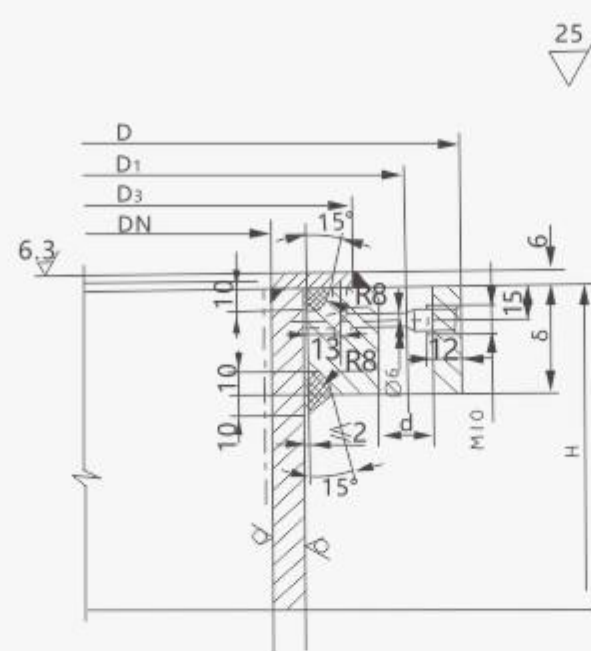
(mm)

DN	Connection size							Stud	
	D	D1	D2	D3	D4	δ	d	Specification	Quantity
PN=0.25MPa									
700	815	780	750	740	737	36	18	M16	28
800	915	880	850	840	837	36	18	M16	32
900	1015	980	950	940	937	40	18	M16	36
1000	1130	1090	1055	1045	1042	40	23	M20	32
1100	1230	1190	1150	1141	1138	40	23	M20	32
1200	1330	1290	1255	1241	1238	44	23	M20	36
1300	1430	1390	1355	1341	1338	46	23	M20	40
1400	1530	1490	1455	1441	1438	46	23	M20	40
1500	1630	1590	1555	1541	1538	48	23	M20	44
1600	1730	1690	1655	1641	1638	50	23	M20	48
1700	1830	1790	1755	1741	1738	52	23	M20	52
1800	1930	1890	1855	1841	1838	55	23	M20	52
1900	2030	1990	1955	1941	1938	56	23	M20	56
2000	2130	2090	2055	2041	2038	60	23	M20	60
PN=0.6MPa									
450	565	530	500	490	487	30	18	M16	20
500	615	580	550	540	537	30	18	M16	20
550	665	630	600	590	587	32	18	M16	24
600	715	680	650	640	637	32	18	M16	24
650	765	730	700	690	687	36	18	M16	28
700	830	790	755	745	742	36	23	M20	24
800	930	890	855	845	842	40	23	M20	24
900	1030	990	955	945	942	44	23	M20	32
1000	1130	1090	1055	1045	1042	48	23	M20	36
1100	1230	1190	1155	1141	1138	55	23	M20	44
1200	1330	1290	1255	1241	1238	60	23	M20	52
PN=1.0MPa									
300	415	380	350	340	337	26	18	M16	16
350	465	430	400	390	387	26	18	M16	16
400	515	480	450	440	437	30	18	M16	20
450	565	530	500	490	487	34	18	M16	24
500	630	590	555	545	542	34	23	M20	20
550	680	640	605	595	592	38	23	M20	24
600	730	690	655	645	642	40	23	M20	24
650	780	740	705	695	692	44	23	M20	28
700	830	790	755	745	742	46	23	M20	32
800	930	890	855	845	842	54	23	M20	40
900	1030	990	955	945	942	60	23	M20	48
PN=1.6MPa									
300	430	390	355	345	312	30	23	M20	16
350	480	440	405	395	392	32	23	M20	16
400	530	490	455	445	442	36	23	M20	20
450	580	540	505	495	492	40	23	M20	24
500	630	590	555	545	542	44	23	M20	28
550	680	640	605	595	592	50	23	M20	36
600	730	690	655	645	642	64	23	M20	40
650	780	740	705	695	692	58	23	M20	44

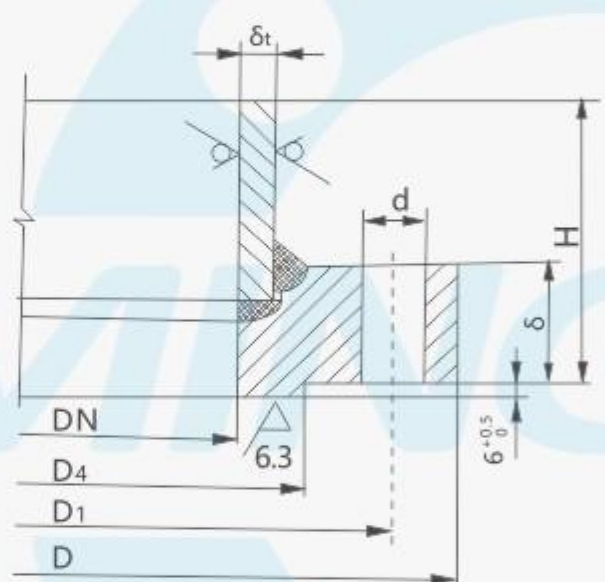
TYPE B FLAT WELDING FLANGE NB/T47022-2012(JB/T 4702-2010)



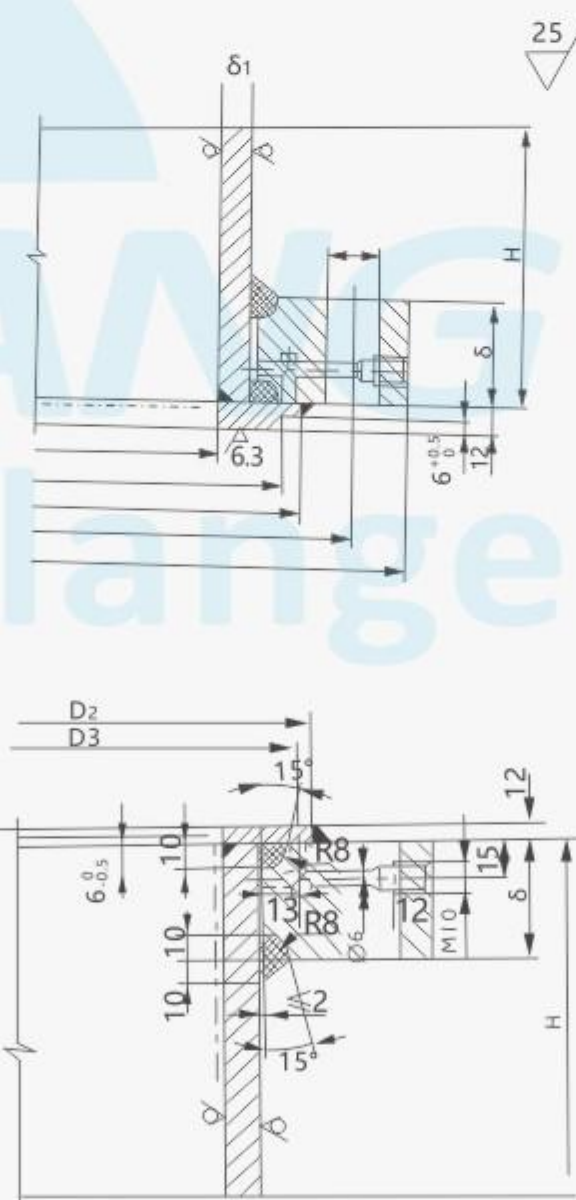
Flat sealing face flange



Lining ring flat sealing surface
NB/T 47022-2012(JB/T 4702)



Concave and convex sealing face flange



Liner ring concave and convex sealing surface
NB/T 47022-2012(JB/T 4702)

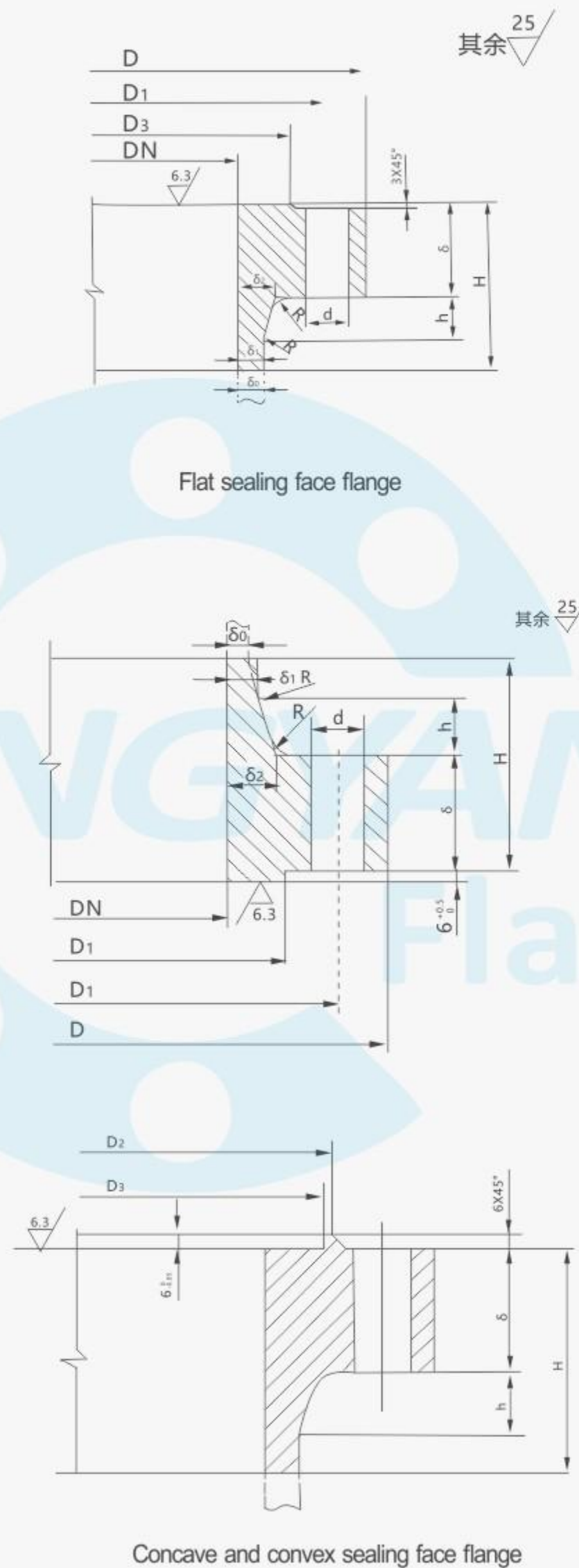
(NB/T 47022-2012)

TYPE B FLAT WELDING FLANGE SIZE (NB/T 47022-2012)

(mm)

DN	Connection size											Stud	
	D	D1	D2	D3	D4	δ	H	δ ₁	a	a ₁	d	Specification	Quantity
PN=0.25MPa													
2600	2760	2715	2676	2656	2653	96	345	16	21	18	27	M24	72
2800	2960	2915	2876	2856	2853	102	350	16	21	18	27	M24	80
3000	3160	3115	3076	3056	3053	104	355	16	21	18	27	M24	84
PN=0.6MPa													
1300	1468	1415	1376	1356	1353	70	270	16	21	18	27	M24	36
1400	1560	1515	1476	1456	1453	72	270	16	21	18	27	M24	40
1500	1660	1615	1576	1556	1553	74	270	16	21	18	27	M24	40
1600	1760	1715	1676	1656	1653	76	275	16	21	18	27	M24	44
1700	1860	1815	1776	1756	1753	78	280	16	21	18	27	M24	48
1800	1960	1915	1876	1856	1853	80	280	16	21	18	27	M24	52
1900	2060	2015	1976	1956	1953	84	285	16	21	18	27	M24	56
2000	2160	2115	2076	2056	2053	87	285	16	21	18	27	M24	60
2200	2360	2315	2276	2256	2253	90	340	16	21	18	27	M24	64
2400	2560	2515	2476	2456	2453	92	340	16	21	18	27	M24	68
PN=1.0MPa													
100	1140	1100	1065	1055	1052	62	260	12	17	14	23	M20	40
1100	1260	1215	1176	1156	1153	64	265	16	21	18	27	M24	32
1200	1360	1315	1276	1256	1253	66	265	16	21	18	27	M24	36
1300	1460	1415	1379	1356	1353	70	270	16	21	18	27	M24	40
1400	1560	1515	1476	1456	1453	74	270	16	21	18	27	M24	44
1500	1660	1615	1576	1556	1553	78	275	16	21	18	27	M24	48
1600	1760	1715	1676	1656	1653	82	280	16	21	18	27	M24	52
1700	1860	1815	1776	1756	1753	88	280	16	21	18	27	M24	56
1800	1960	1915	1876	1856	1853	94	290	16	21	18	27	M24	60
PN=1.6MPa													
700	860	815	776	766	763	46	200	16	21	18	27	M24	24
800	960	915	876	866	863	48	200	16	21	18	27	M24	24
900	1060	1015	976	966	963	56	205	16	21	18	27	M24	28
1000	1160	1115	1076	1066	1063	66	260	16	21	18	27	M24	32
1100	1260	1215	1176	1156	1153	76	270	16	21	18	27	M24	36
1200	1360	1315	1276	1256	1253	85	280	16	21	18	27	M24	40
1300	1460	1415	1376	1356	1353	94	290	16	21	18	27	M24	44
1400	1560	1515	1476	1456	1453	103	295	16	21	18	27	M24	52

NB/T47023-2012(JB/T 4703-2000) LONG NECK BUTT WELDING FLANGE



(JB/T4703-2000)

(mm)

DN	Connection size														Stud		Butt simplified
	D	D1	D2	D3	D4	δ	H	h	a	a1	δ ₁	δ ₂	D	d	Specification	Quantity	δ ₀
PN=0.6MPa																	
1300	1460	1415	1376	1356	1353	60	125	35	21	18	16	26	12	27	M24	40	12
1400	1560	1515	1476	1456	1453	62	135	40	21	18	16	26	12	27	M24	44	12
1500	1660	1615	1576	1556	1553	64	140	40	21	18	16	26	12	27	M24	48	12
1600	1760	1715	1676	1656	1653	66	145	40	21	18	16	26	12	27	M24	52	12
1700	1860	1815	1776	1756	1753	70	150	40	21	18	16	26	12	27	M24	52	12
1800	1960	1915	1876	1856	1853	70	150	40	21	18	16	26	12	27	M24	52	14
1900	2060	2015	1976	1956	1953	74	150	40	21	18	16	26	12	27	M24	56	14
2000	2160	2115	2076	2056	2053	76	150	40	21	18	16	26	12	27	M24	60	14
2100	2275	2225	2176	2156	2153	88	155	50	21	18	16	26	12	27	M24	60	16
2200	2375	2325	2276	2256	2253	96	165	50	21	18	16	26	12	27	M24	64	16
2300	2480	2430	2376	2356	2353	100	170	50	21	18	16	26	12	27	M24	68	18
2400	2590	2535	2476	2456	2453	104	175	50	21	18	16	26	12	27	M27	56	18
2500	2695	2640	2576	2556	2553	106	175	50	21	18	16	26	12	27	M27	60	20
2600	2795	2740	2676	2656	2653	110	180	50	21	18	16	26	12	27	M27	64	20
PN=1.0MPa																	
300	440	400	365	355	352	30	85	25	17	14	12	22	12	23	M20	16	4
350	490	450	415	405	402	32	90	25	17	14	12	22	12	23	M20	16	4
400	540	500	465	455	452	34	95	25	17	14	12	22	12	23	M20	20	4
450	590	550	515	505	502	34	95	25	17	14	12	22	12	23	M20	20	6
500	640	600	565	555	552	38	100	25	17	14	12	22	12	23	M20	24	6
550	690	650	615	605	602	40	100	25	17	14	12	22	12	23	M20	24	6
600	740	700	665	655	652	44	105	25	17	14	12	22	12	23	M20	28	6
650	790	750	715	705	702	46	105	25	17	14	12	22	12	23	M20	28	8
700	840	800	765	755	752	50	105	25	17	14	12	22	12	23	M20	32	8
800	940	900	865	855	852	50	105	25	17	14	12	22	12	23	M20	32	8
900	1040	1000	965	955	952	54	110	25	17	14	12	22	12	23	M20	36	10
1000	1140	1100	1065	1055	1052	56	110	25	17	16	12	22	12	23	M20	40	10
1100	1260	1215	1176	1156	1153	56	120	35	21	18	16	26	12	27	M24	32	12
1200	1360	1315	1276	1256	1253	56	125	35	21	18	16	26	12	27	M24	36	12
1300	1460	1415	1376	1356	1353	60	130	35	21	18	16	26	12	27	M24	40	12
1400	1560	1515	1476	1456	1453	62	140	40	21	18	16	26	12	27	M24	44	12
1500	1660	1615	1476	1556	1553	64	140	40	21	18	16	26	12	27	M24	48	12
1600	1760	1715	1676	1656	1653	70	145	40	21	18	16	26	12	27	M24	52	12
1700	1870	1815	1776	1756	1753	76	150	40	21	18	18	26	12	30	M27	56	12
1800	1970	1915	1876	1856	1853	80	150	40	21	18	18	26	12	30	M27	56	14
1900	2095	2040	1998	1978	1973	86	155	40	21	18	20	32	15	30	M27	56	16
2000	2195	2140	2098	2078	2075	94	165	40	21	18	20	32	15	30	M27	60	16
2100	2295	2240	2198	2178	2175	102	190	50	21	18	20	32	15	30	M27	60	16



(JB/T4703-2000)

(mm)

DN	Connection size														Stud		Butt simplified
	D	D1	D2	D3	D4	δ	H	h	a	a1	δ ₁	δ ₂	D	d	Specification	Quantity	δ _o
PN=1.0MPa																	
2200	2395	2340	2298	2278	2275	112	200	50	21	18	20	32	15	30	M27	64	16
2300	2515	2455	2398	2378	2375	120	210	50	21	18	22	34	15	33	M30	60	18
2400	2615	2555	2498	2478	2475	128	215	50	21	18	22	34	15	33	M30	64	18
2500	2720	2660	2598	2578	2575	130	215	50	21	18	24	36	15	33	M30	68	20
2600	2820	2760	2698	2678	2675	136	220	50	21	18	24	36	15	33	M30	72	20
PN=1.6MPa																	
300	440	400	365	355	352	30	85	25	17	14	12	22	12	23	M20	16	6
350	490	450	415	405	402	32	90	25	17	14	12	22	12	23	M20	16	6
400	540	500	465	455	452	34	95	25	17	14	12	22	12	23	M20	20	6
450	590	550	515	505	502	34	95	25	17	14	12	22	12	23	M20	20	8
500	640	600	565	555	552	38	100	25	17	14	12	22	12	23	M20	24	8
550	690	650	615	605	602	40	100	25	17	14	12	22	12	23	M20	24	8
600	740	700	665	655	652	44	105	25	17	14	12	22	12	23	M20	28	10
650	790	750	715	705	702	46	105	25	17	14	12	22	12	23	M20	28	10
700	860	815	776	766	763	46	115	35	21	18	16	26	12	27	M24	24	10
800	960	915	876	866	863	48	115	35	21	18	16	26	12	27	M24	24	12
900	1060	1015	976	966	963	52	115	35	21	18	16	26	12	27	M24	28	12
1000	1160	1115	1076	1066	1063	56	120	35	21	18	16	26	12	27	M24	32	12
1100	1260	1215	1176	1156	1153	62	125	40	21	18	16	26	12	27	M24	36	14
1200	1360	1315	1276	1256	1253	64	130	40	21	18	16	26	12	27	M24	40	14
1300	1460	1415	1376	1356	1353	74	140	40	21	18	16	26	12	27	M24	44	14
1400	1560	1515	1476	1456	1453	84	150	40	21	18	16	32	12	27	M24	52	14
1500	1695	1640	1598	1578	1575	84	155	42	21	18	20	32	15	30	M27	48	16
1600	1795	1740	1698	1678	1675	86	165	48	21	18	20	32	15	30	M27	52	16
1700	1895	1840	1798	1778	1775	86	165	48	21	18	22	32	15	30	M27	56	18
1800	1995	1940	1898	1878	1875	94	170	48	21	18	22	32	15	30	M27	64	18
1900	2115	2055	2010	1990	1987	94	185	56	26	23	24	36	15	33	M30	56	20
2000	2215	2155	2110	2090	2087	102	190	56	26	23	24	36	15	33	M30	64	20
2100	2340	2270	2210	2190	2187	116	215	68	26	23	26	38	15	39	M36	56	22
2200	2440	2370	2310	2290	2287	130	230	68	26	23	26	38	15	39	M36	60	22
2300	2540	2470	2410	2390	2387	142	245	68	26	23	26	38	15	39	M36	64	22
2400	2650	2575	2510	2490	2487	150	250	68	26	23	28	40	15	39	M36	68	24
2500	2775	2690	2610	2590	2587	168	275	74	26	23	28	40	15	45	M42	60	24
2600	2875	2790	2710	2690	2687	180	290	74	26	23	28	40	15	45	M42	64	24
PN=2.5MPa																	
300	440	400	365	355	352	32	85	25	17	14	12	22	12	23	M20	16	6
350	490	450	415	405	402	32	90	25	17	14	12	22	12	23	M20	16	6
400	540	500	465	455	452	36	95	25	17	14	12	22	12	23	M20	20	8

(JB/T4703-2000)

(mm)

DN	Connection size														Stud		Butt simplified
	D	D1	D2	D3	D4	δ	H	h	a	a1	δ ₁	δ ₂	D	d	Specification	Quantity	δ ₀
PN=2.5MPa																	
450	590	550	515	505	502	36	95	25	17	14	12	22	12	23	M20	20	8
500	660	615	576	566	563	40	105	35	21	18	16	26	12	27	M24	20	10
550	710	665	626	616	613	40	105	35	21	18	16	26	12	27	M24	20	10
600	760	715	676	666	663	42	110	35	21	18	16	26	12	27	M24	24	10
650	810	765	726	716	713	46	115	35	21	18	16	26	12	27	M24	24	10
700	860	815	776	766	763	50	120	35	21	18	16	26	12	27	M24	28	10
800	960	915	876	866	863	58	125	35	21	18	16	26	12	27	M24	32	12
900	1095	1040	998	988	985	60	145	42	21	18	20	32	15	30	M27	32	12
1000	1195	1140	1098	1088	1085	68	155	42	21	18	20	32	15	30	M27	36	14
1100	1295	1240	1198	1178	1175	72	165	42	21	18	22	32	15	30	M27	40	14
1200	1395	1340	1298	1278	1275	84	185	48	21	18	22	32	15	30	M27	48	14
1300	1495	1440	1398	1378	1375	88	185	48	21	18	22	32	15	30	M27	56	16
1400	1595	1540	1498	1478	1475	100	195	48	21	18	22	32	15	30	M27	60	16
1500	1715	1655	1610	1590	1587	102	200	56	26	23	24	36	15	33	M30	60	18
1600	1815	1755	1710	1690	1687	112	210	56	26	23	24	36	15	33	M30	64	20
1700	1950	1880	1829	1809	1806	112	230	64	26	23	28	42	18	39	M36	52	20
1800	2050	1980	1929	1909	1906	122	235	64	26	23	28	42	18	39	M36	56	22
1900	2150	2080	2029	2009	2006	132	235	64	26	23	28	42	18	39	M36	64	24
2000	2250	2180	2129	2109	2106	144	245	64	26	23	28	42	18	39	M36	68	24
2100	2390	2305	2229	2209	2206	158	270	72	26	23	32	48	18	45	M42	64	26
2200	2490	2405	2329	2309	2306	172	295	80	26	23	32	48	18	45	M42	78	26
2300	2590	2505	2429	2409	2406	182	315	86	26	23	32	48	18	45	M42	72	26
2400	2720	2620	2529	2509	2506	190	320	86	26	23	34	50	18	52	M48	60	28
2500	2820	2720	2629	2609	2606	200	355	90	26	23	34	50	18	52	M48	64	28
2600	2920	2820	2729	2709	2706	210	355	96	26	23	34	50	18	52	M48	68	28
PN=4.0MPa																	
300	460	415	376	366	363	40	105	35	21	18	16	26	12	27	M24	16	8
350	510	465	426	416	413	42	110	35	21	18	16	26	12	27	M24	16	8
400	560	515	476	466	463	42	110	35	21	18	16	26	12	27	M24	20	12
450	610	565	526	516	513	46	110	35	21	18	16	26	12	27	M24	20	12
500	660	615	576	566	563	46	110	35	21	18	16	26	12	27	M24	24	12
550	710	665	626	616	613	52	115	35	21	18	16	26	12	27	M24	28	12
600	760	715	676	666	663	58	120	35	21	18	16	26	12	27	M24	32	12
650	845	790	748	738	735	60	135	42	21	18	20	32	15	30	M27	28	14
700	895	840	798	788	785	64	140	42	21	18	20	32	15	30	M27	32	14
800	995	940	898	888	885	70	150	42	21	18	22	32	15	30	M27	40	16
900	1115	1055	1010	1000	997	86	170	42	26	23	24	36	15	33	M30	40	16



(JB/T4703-2000)

(mm)

DN	Connection size														Stud		Butt simplified
	D	D1	D2	D3	D4	δ	H	h	a	a1	δ ₁	δ ₂	D	d	Specification	Quantity	δ ₀
PN=4.0MPa																	
1000	1215	1155	1110	1100	1097	100	175	42	26	23	24	36	15	33	M30	48	18
1100	1350	1280	1229	1209	1206	104	195	48	26	23	28	42	18	39	M36	40	20
1200	1450	1380	1329	1309	1306	120	205	48	26	23	28	42	18	39	M36	44	22
1300	1550	1480	1429	1409	1406	126	220	56	26	23	28	42	18	39	M36	52	22
1400	1650	1580	1529	1509	1506	130	235	64	26	23	28	42	18	39	M36	60	22
1500	1750	1680	1629	1609	1606	144	250	64	26	23	28	42	18	39	M36	64	22
1600	1850	1780	1729	1709	1706	158	265	64	26	23	28	42	18	39	M36	68	22
1700	1990	1905	1829	1809	1806	176	290	74	26	23	32	48	18	45	M42	60	26
1800	2110	2015	1929	1909	1906	196	310	74	26	23	32	48	18	52	M48	56	26
1900	2215	2120	2029	2009	2006	210	325	74	26	23	34	50	18	52	M48	64	28
2000	2315	2220	2129	2129	2106	222	340	74	26	23	34	50	18	52	M48	68	28
PN=6.4MPa																	
300	460	415	376	366	363	46	110	35	21	18	16	26	12	27	M24	16	8
350	510	465	426	416	413	48	115	35	21	18	16	26	12	27	M24	20	8
400	560	515	476	466	463	56	120	35	21	18	16	26	12	27	M24	24	12
450	645	590	548	538	535	60	130	36	21	18	20	32	15	30	M27	24	12
500	695	640	598	588	585	68	140	36	21	18	20	32	15	30	M27	28	12
550	745	690	648	638	635	78	150	36	21	18	20	32	15	30	M27	32	12
600	815	755	710	700	697	82	160	42	26	23	22	36	15	33	M30	32	14
650	865	825	760	750	747	92	165	42	26	23	22	36	15	33	M30	36	16
700	950	880	829	819	816	92	185	48	26	23	26	42	18/	39	M36	32	18
800	1050	980	929	919	916	112	200	48	26	23	26	42	18	39	M36	36	18
900	1195	1110	1029	1019	1016	132	230	58	26	23	30	48	18	45	M42	36	22
1000	1295	1210	1129	1119	1116	146	245	58	26	23	32	50	18	45	M42	40	24
1100	1420	1325	1229	1219	1216	160	265	66	26	23	34	52	18	52	M48	40	26
1200	1520	1425	1329	1319	1316	176	275	66	26	23	34	52	18	52	M48	44	28

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PLATE FLAT WELDED STEEL PIPE LARGE DIAMETER FLANGE

PN6

Specification	Outside diameter	Inside Diameter A	Inside Diameter B	Total thickness	Step	Pitch of bolts	Hole number	Aperture
600	755	616.5	634	32	670X5	705	20	26
700	860	715	724	40	775X5	810	24	26
800	975	817	824	44	880X5	920	24	30
900	1075	918	924	48	980X5	1020	24	30
1000	1175	1020	1024	52	1080X5	1120	28	30
1200	1405	1223	1224	60	1295X5	1340	32	33
1400	1630	1426	1424	72(68)	1510X5	1560	36	36
1600	1830	1630	1624	80(76)	1710X5	1760	40	36
1800	2045	1833	1824	88(84)	1920X5	1970	44	39
2000	2265	2036	2024	96(92)	2125X5	2180	48	42

PN10

Specification	Outside diameter	Inside Diameter A	Inside Diameter B	Total thickness	Step	Pitch of bolts	Hole number	Aperture
600	780	616.5	636	42	685X5	725	20	30
700	895	715	724	50	800X5	840	24	30
800	1015	817	824	56	905X5	950	24	33
900	1115	918	924	62	1005X5	1050	28	33
1000	1230	1020	1024	70	1110X5	1160	28	36
1200	1455	1223	1224	83	1330X5	1380	32	39
1400	1675	1426	1424	90	1535X5	1590	36	42
1600	1915	1630	1624	100	1760X5	1820	40	48
1800	2115	1833	1824	110	1960X5	2020	44	48
2000	2325	2036	2024	120	2170X5	2230	48	48



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PLATE FLAT WELDED STEEL PIPE LARGE DIAMETER FLANGE

PN16

Specification	Outside diameter	Inside Diameter A	Inside Diameter B	Total thickness	Step	Pitch of bolts	Hole number	Aperture
600	840	616.5	636	55	725X5	770	20	36
700	910	715	724	63	795X5	840	24	36
800	1025	817	824	74	900X5	950	24	39
900	1125	918	924	82	1000X5	1050	28	39
1000	1255	1020	1024	90	1115X5	1170	28	42
1200	1485	1223	1224	95	1330X5	1390	32	48
1400	1685	1426	1424	103	1530X5	1590	36	48
1600	1930	1630	1627	115	1750X5	1820	40	56
1800	2130	1833	1824	126	1950X5	2020	44	56
2000	2345	2036	2024	138	2150X5	2230	48	62

PN25

Specification	Outside diameter	Inside Diameter A	Inside Diameter B	Total thickness	Step	Pitch of bolts	Hole number	Aperture
200	360	221.5	222	32	278X3	310	12	26
250	425	276.5	276	35	335X3	370	12	30
300	485	327.5	328	38	395X4	430	16	30
350	555	359.5	381	42	450X4	490	16	33
400	620	411	430	48	505X4	550	16	36
450	670	462	485	54	555X4	600	20	36
500	730	513.5	535	58	615X4	660	20	36
600	845	616.5	636	68	720X5	770	20	39
700	960	715	724	85	820X5	875	24	42
800	1085	817	824	95	930X5	990	24	48