



SIZE		DISC PROTRUSION		FLANGE THICKNESS			BOLTING LENGTH (L)		
DN	NPS	X	Y	EN 1092 PN 10	EN 1092 PN 16	ASME B16.5 CL 150	PN 10	PN 16	CL 150
40	1½"	-	-	18	18	-	60	60	-
50	2"	-	-	18	18	19.1	65	65	2"
65	2½"	-	-	18	18	22.4	70	70	2¼"
80	3"	-	-	20	20	23.9	70	70	2¼"
100	4"	-	-	20	20	23.9	70	70	2¼"
125	5"	-	-	22	22	23.9	75	75	2½"
150	6"	53	5	22	22	25.4	75	75	2¾"
200	8"	130	24	24	24	28.5	80	80	2¾"
250	10"	188	43	26	26	30.3	90	90	3"
300	12"	242	61	26	28	31.8	90	100	3"
350	14"	277	73	26	30	35.1	90	100	3¼"
400	16"	320	85	26	32	36.6	100	110	3¼"
450	18"	376	107	28	40	39.7	100	110	3½"
500	20"	429	129	28	44	43.0	100	110	4"
550	22"	480	145	-	-	-	-	-	-
600	24"	522	160	28	54	47.8	110	120	4"
650	26"	575	180	-	-	-	-	-	-
700	28"	621	197	30	36	-	110	130	-
750	30"	665	210	-	-	-	-	-	-
800	32"	719	234	32	38	-	120	140	-
900	36"	823	278	34	40	-	120	140	-
1000	40"	897	288	34	42	-	130	150	-
1200	48"	1089	358	38	48	-	150	170	-
1400	56"	1281	428	42	52	-	160	180	-
1500	60"	1360	443	-	-	-	-	-	-
1600	64"	1469	493	46	58	-	160	180	-
1800	72"	1642	550	50	62	-	170	190	-
2000	80"	1822	606	54	66	-	170	200	-

FLANGE BOLTING LENGTH

The table shows the calculated bolt lengths for ISO PN and ASME flanges, based on the following assumptions:

- flange thickness of a steel welding neck flange according EN 1092 and ASME B16.5;
- use of hexagon head cap screws, two spacers and a nut;
- standard available bolt lengths.

Important: Only as guideline, any deviation requires recalculation of the bolt length.