



This diagram illustrates the arrangement but not necessarily the correct number of bolt holes.

Refer to the column “Bolting Number” in Table 18 for the actual number.

NOTE Dimensions  $N_1$  and  $N_3$  are measured at the intersection of the hub draft angle and the back face of the flange.

Figure 13 — Dimensions of PN 160 flanges

Table 18 — Dimensions of PN 160 flanges

Dimensions in millimetres

DN	Mating dimensions					Outside Diameter of neck A	Flange thickness			Centre portion G <sub>max</sub>	Length		Neck diameters		Corner radii R <sub>1</sub>	Wall Thickness (see 5.6.1) S	
	Outside diameter D	Diameter of bolt circle K	Diameter of bolt hole L	Bolting			C <sub>4</sub>	C <sub>2</sub>	C <sub>3</sub>		H <sub>2</sub>	H <sub>3</sub>	N <sub>1</sub>	N <sub>3</sub>			
						Flange type											
	05,11, 21					11 21 <sup>a</sup>	05	11	21	05	11	11	11	21	11	21	11
10	100	70	14	4	M12	17,2	20	20	20	—	45	6	32	40	4	4	2,0
15	105	75	14	4	M12	21,3	20	20	20	—	45	6	34	45	4	4	2,0
25	140	100	18	4	M16	33,7	24	24	24	—	58	8	52	61	4	4	2,9
40	170	125	22	4	M20	48,3	28	28	28	—	64	10	70	82	6	4	3,6
50	195	145	26	4	M24	60,3	30	30	30	—	75	10	90	96	6	4	4,0
65	220	170	26	8	M24	76,1	34	34	34	42	82	12	108	118	6	5	5,0
80	230	180	26	8	M24	88,9	36	36	36	55	86	12	120	128	8	5	6,3
100	265	210	30	8	M27	114,3	40	40	40	74	100	12	150	150	8	5	8,0
125	315	250	33	8	M30	139,7	44	44	44	98	115	14	180	184	8	6	10,0
150	355	290	33	12	M30	168,3	50	50	50	119	128	14	210	224	10	6	12,5
200	430	360	36	12	M33	219,1	62	60	60	168	140	16	278	288	10	8	16,0
250	515	430	42	12	M39	273,0	72	68	68	195	155	18	340	346	12	8	20,0
300	585	500	42	16	M39	323,9	84	78	78	235	175	18	400	414	12	10	22,2

<sup>a</sup> For flanges type 21 the outside hub diameter approximately corresponds to the outside pipe diameter and the nominal value dimensions A, N3 and R1 and their tolerances are included for guidance only.