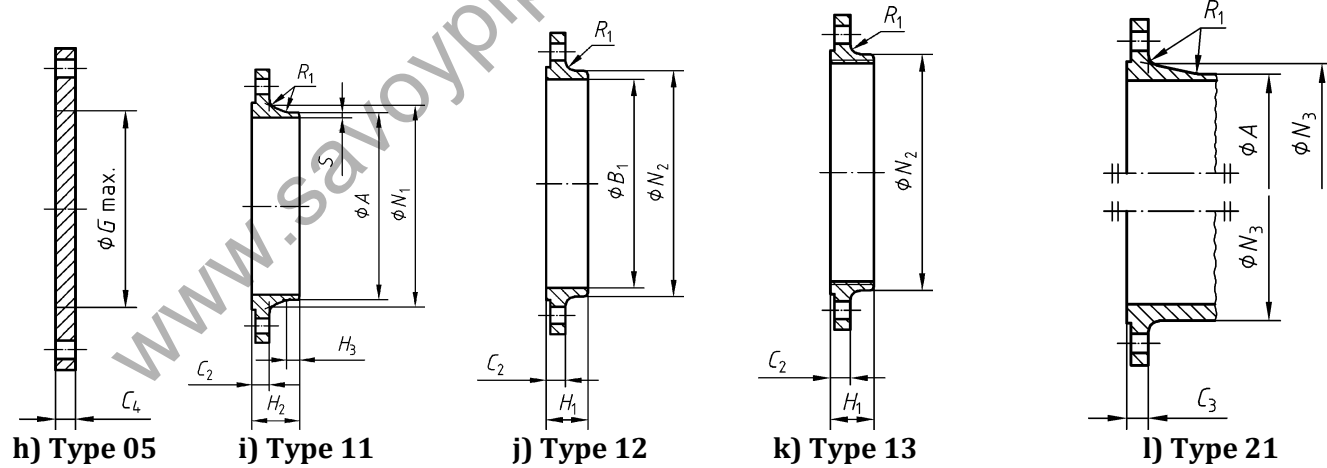


This diagram illustrates the arrangement but not necessarily the correct number of bolt holes. Refer to the column "Bolting Number" in Table 11 for the actual number.



- NOTE 1 Dimensions  $N_1$ ,  $N_2$  and  $N_3$  are measured at the intersection of the hub draft angle and the back face of the flange.
- NOTE 2 For dimension  $d_1$ , see Table 8.
- NOTE 3 For dimensions  $G_{max}$  refer to NOTE 1 of 5.6.1.
- NOTE 4 Type 33; lapped pipe end without determination of thickness and height.

Figure 6 — Dimensions of PN 6 flanges

Table 11 — Dimensions of PN 6 flanges

Dimensions in millimetres

DN	Mating dimensions					Outside diameter of neck A	Bore diameters		Flange thickness			Chamfer E	Collar 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			B <sub>1</sub>	B <sub>2</sub>	C <sub>1</sub>	C <sub>2</sub> C <sub>3</sub>	C <sub>4</sub>		F	G <sub>max</sub>	H <sub>1</sub>		H <sub>2</sub>	H <sub>3</sub>	H <sub>4</sub>	H <sub>5</sub>	N <sub>1</sub>	N <sub>2</sub>	N <sub>3</sub>	R <sub>1</sub>			S	
				Number	Size																							
Flange type																												
01, 02, 05, 11, 12, 13, 21						11 21 <sup>a</sup> 35 - 37	01 12 32	02	01 02	11 12 13 21	05	02	32	35	36	37	05	12 13	11	11	35	36	37	11	12 13	21	11 12 13 21	11, 35 to 37
10	75	50	11	4	M10	17,2	18,0	21	12	12	12	3	10	5	2	2,5	—	20	28	6	28	35	7	26	25	20	4	See Annex A
15	80	55	11	4	M10	21,3	22,0	25	12	12	12	3	10	5	2	2,5	—	20	30	6	30	38	7	30	30	26	4	
20	90	65	11	4	M10	26,9	27,5	31	14	14	14	4	10	6	2,5	3	—	24	32	6	32	40	8	38	40	34	4	
25	100	75	11	4	M10	33,7	34,5	38	14	14	14	4	10	7	2,5	3	—	24	35	6	35	40	10	42	50	44	4	
32	120	90	14	4	M12	42,4	43,5	46	16	14	14	5	10	8	3	3	—	26	35	6	35	42	12	55	60	54	6	
40	130	100	14	4	M12	48,3	49,5	53	16	14	14	5	10	8	3	3	—	26	38	7	38	45	15	62	70	64	6	
50	140	110	14	4	M12	60,3	61,5	65	16	14	14	5	12	8	3	3	—	28	38	8	38	45	20	74	80	74	6	
65	160	130	14	4	M12	76,1	77,5	81	16	14	14	6	12	8	3	3	55	32	38	9	38	45	20	88	100	94	6	
80	190	150	18	4	M16	88,9	90,5	94	18	16	16	6	12	10	3	3	70	34	42	10	42	50	25	102	110	110	8	
100	210	170	18	4	M16	114,3	116,0	120	18	16	16	6	14	10	4	4	90	40	45	10	45	52	25	130	130	130	8	
125	240	200	18	8	M16	139,7	141,5	145	20	18	18	6	14	10	4	4	115	44	48	10	48	55	25	155	160	160	8	
150	265	225	18	8	M16	168,3	170,5	174	20	18	18	6	14	10	5	4	140	44	48	12	48	55	25	184	185	182	10	
200	320	280	18	8	M16	219,1	221,5	226	22	20	20	6	16	11	5	5	190	44	55	15	55	62	30	236	240	238	10	
250	375	335	18	12	M16	273,0	276,5	281	24	22	22	8	18	12	8		235	44	60	15	60	68	—	290	295	284	12	
300	440	395	22	12	M20	323,9	327,5	333	24	22	22	8	18	12	8		285	44	62	15	62	68	—	342	355	342	12	

DN	Mating dimensions					Outside diameter of neck A	Bore diameters		Flange thickness			Chamfer E	Collar 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			B <sub>1</sub>	B <sub>2</sub>	C <sub>1</sub>	C <sub>2</sub> C <sub>3</sub>	C <sub>4</sub>		F	G <sub>max</sub>	H <sub>1</sub>		H <sub>2</sub>	H <sub>3</sub>	H <sub>4</sub>	H <sub>5</sub>	N <sub>1</sub>	N <sub>2</sub>	N <sub>3</sub>					
				Number	Size																							
Flange type																												
01, 02, 05, 11, 12, 13, 21						11 21 <sup>a</sup> 35 - 37	01 12 32	02	01 02	11 12 13 21	05	02	32	35	36	37	05	12 13	11	11	35	36	37	11	12 13	21	11 12 13 21	11, 35 to 37
350	490	445	22	12	M20	355,6	359,5	365	26	22	22	8	18	13	8	—	330	—	62	15	62	68	—	385	—	392	12	See Annex A
400	540	495	22	16	M20	406,4	411,0	416	28	22	22	8	20	14	8	—	380	—	65	15	65	72	—	438	—	442	12	
450	595	550	22	16	M20	457,0	462,0	467	30	22	24	8	20	15	8	—	425	—	65	15	72	72	—	492	—	494	12	
500	645	600	22	20	M20	508,0	513,5	519	30	24	24	8	22	16	8	—	475	—	68	15	75	75	—	538	—	544	12	
600	755	705	26	20	M24	610,0	616,5	622	32	30	30	8	22	16	—	—	575	—	70	16	70	—	—	640	—	642	12	
700	860	810	26	24	M24	711,0	b	721	40	30	40	4	—	16	—	—	670	—	76	16	70	—	—	740	—	746	12	
800	975	920	30	24	M27	813,0		824	44	30	44	4	—	16	—	—	770	—	76	16	70	—	—	842	—	850	12	
900	1 075	1 020	30	24	M27	914,0		926	48	34	48	4	—	16	—	—	860	—	78	16	70	—	—	942	—	950	12	
1 000	1 175	1 120	30	28	M27	1 016,0		1 028	52	38	52	4	—	18	—	—	960	—	82	16	70	—	—	1 045	—	1 050	16	
1 200	1 405	1 340	33	32	M30	1 219,0		1 234	60	42	60	5	—	20	—	—	1 160	—	104	20	90	—	—	1 248	—	1 264	16	
1 400	1 630	1 560	36	36	M33	1 422,0		—	72	56	68	—	—	—	—	—	1 346	—	114	20	—	—	—	1 452	—	1 480	16	
1 600	1 830	1 760	36	40	M33	1 626,0		—	80	63	76	—	—	—	—	—	1 546	—	119	20	—	—	—	1 655	—	1 680	16	
1 800	2 045	1 970	39	44	M36	1 829,0		—	88	69	84	—	—	—	—	—	1 746	—	133	20	—	—	—	1 855	—	1 878	16	
2 000	2 265	2 180	42	48	M39	2 032,0		—	96	74	92	—	—	—	—	—	1 950	—	146	25	—	—	—	2 058	—	2 082	16	

DN	Mating dimensions					Outside diameter of neck A	Bore diameters		Flange thickness			Chamfer E	Collar thickness F	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			B <sub>1</sub>	B <sub>2</sub>	C <sub>1</sub>	C <sub>2</sub> C <sub>3</sub>	C <sub>4</sub>				H <sub>1</sub>	H <sub>2</sub>	H <sub>3</sub>	H <sub>4</sub>	H <sub>5</sub>	N <sub>1</sub>	N <sub>2</sub>	N <sub>3</sub>						
				Number	Size																							
Flange type																												
01, 02, 05, 11, 12, 13, 21						11 21 <sup>a</sup> 35 - 37	01 12 32	02	01 02	11 12 13 21	05	02	32	35	36	37	05	12 13	11	11	35	36	37	11	12 13	21	11 12 13 21	11, 35 to 37
2 200	2 475	2 390	42	52	M39	2 235,0	—	—	—	81	—	—	—	—	—	—	—	—	15 4	25	—	—	—	2 260	—	—	18	
2 400	2 685	2 600	42	56	M39	2 438,0	—	—	—	87	—	—	—	—	—	—	—	—	16 8	25	—	—	—	2 462	—	—	18	
2 600	2 905	2 810	48	60	M45	2 620,0	—	—	—	91	—	—	—	—	—	—	—	—	17 5	25	—	—	—	2 665	—	—	18	
2 800	3 115	3 020	48	64	M45	2 820,0	—	—	—	101	—	—	—	—	—	—	—	—	18 8	30	—	—	—	2 865	—	—	18	
3 000	3 315	3 220	48	68	M45	3 020,0	—	—	—	102	—	—	—	—	—	—	—	—	19 2	30	—	—	—	3 068	—	—	18	
3 200	3 525	3 430	48	72	M45	3 220,0	—	—	—	106	—	—	—	—	—	—	—	—	20 2	30	—	—	—	3 272	—	—	20	
3 400	3 735	3 640	48	76	M45	3 420,0	—	—	—	110	—	—	—	—	—	—	—	—	21 4	35	—	—	—	3 475	—	—	20	
3 600	3 970	3 860	56	80	M52	3 620,0	—	—	—	124	—	—	—	—	—	—	—	—	22 9	35	—	—	—	3 678	—	—	20	

<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.

<sup>b</sup> To be specified by the purchaser.