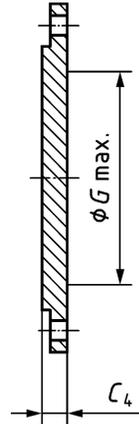
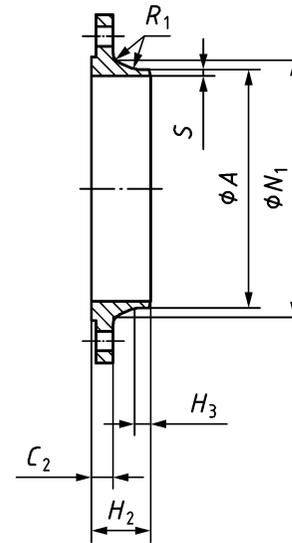


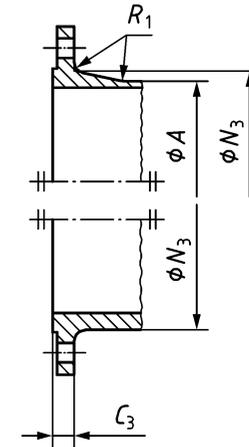
a)



b) Type 05



c) Type 11



d) Type 21

This diagram illustrates the arrangement but not necessarily the correct number of bolt holes. Refer to the column “Bolting Number” in Table 19 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 16 — Dimensions of PN 400 flanges

Table 21 — Dimensions of PN 400 flanges

Dimensions in millimetres

DN	Mating dimensions					Outside diameter of neck <i>A</i>	Flange thickness			Centre portion <i>G_{max}</i>	Length		Neck diameters		Corner radii <i>R₁</i>	Wall thickness (see 5.6.1) <i>S</i>	
	Outside diameter <i>D</i>	Diameter of bolt circle <i>K</i>	Diameter of bolt hole <i>L</i>	Bolting			<i>C₄</i>	<i>C₂</i>	<i>C₃</i>		<i>H₂</i>	<i>H₃</i>	<i>N₁</i>	<i>N₃</i>			
				Number	Size												
	Flange type																
	05, 11, 21					11 21 ^a	05	11	21	05	11	11	11	21	11	21	11
10	125	85	18	4	M16	17,2	28	28	28	—	65	8	48	48	4	4	3,6
15	145	100	22	4	M20	26,9	30	30	30	—	68	8	56	57	4	4	5,0
25	180	130	26	4	M24	42,4	38	38	38	—	90	10	82	81	4	5	7,1
40	220	165	30	4	M27	60,3	48	48	48	—	110	12	106	105	6	5	10,0
50	235	180	30	8	M27	76,1	52	52	52	—	120	15	120	120	6	6	12,5
65	290	225	33	8	M30	101,6	64	64	64	—	135	18	158	158	6	6	16,0
80	305	240	33	8	M30	114,3	68	68	68	—	150	20	174	174	8	8	17,5
100	370	295	39	8	M36	139,7	80	80	80	46	175	25	216	216	8	8	22,2
125	415	340	39	12	M36	193,7	92	92	92	58	200	30	258	259	8	10	30,0
150	475	390	42	12	M39	219,1	105	105	105	74	225	35	302	302	10	10	35,0
200	585	490	48	16	M45	273,0	130	130	130	120	280	40	388	388	10	10	40,0

^a 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.