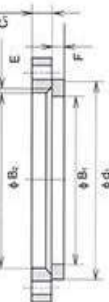


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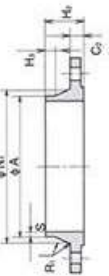
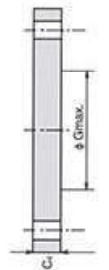
DIMENSIONS OF PN6 FLANGES

DIMENSIONS OF PN6 FLANGES

TYPE 02



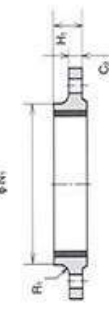
TYPE 05



TYPE 2



TYPE 12



DN	Outside diameter		Diameter of bolt circle	Diameter of bolt hole	Bolt number	Outside diameter of neck A	Bore diameters			Flange thickness				Chamber		Wall thickness	Color of shoulder	Diameter of Gmax
	B ₁	B ₂					C ₁	C ₂	C ₃	C ₄	E	F						
			Flange type															
01,02,05,11,12,13							01	02	01	02	11	12	13	05	02	11	32	05
10	75	50	11	4	17.2	18.0	21	12	12	12	12	12	12	12	3	2	10	-
15	80	55	11	4	21.3	22.0	25	12	12	12	12	12	12	12	3	2	10	-
20	90	65	11	4	26.9	27.5	31	14	14	14	14	14	14	4	4	2.3	10	-
25	100	75	11	4	33.7	34.5	38	14	14	14	14	14	14	4	4	2.6	10	-
32	120	90	14	4	42.4	43.5	46	16	14	14	14	14	14	5	5	2.6	10	-
40	130	100	14	4	48.3	49.5	53	16	14	14	14	14	14	5	5	2.6	10	-
50	140	110	14	4	60.3	61.5	65	16	14	14	14	14	14	5	5	2.9	12	-
65	160	130	14	4	76.1	77.5	81	16	14	14	14	14	14	6	6	2.9	12	55
80	190	150	18	4	88.9	90.5	94	18	16	16	16	16	16	6	6	3.2	12	70
100	210	170	18	4	114.3	116.0	120	18	16	16	16	16	16	6	6	3.6	14	90
125	240	200	18	8	139.7	141.5	145	20	18	18	18	18	18	6	6	4.0	14	115
150	265	225	18	8	168.3	170.5	174	20	18	18	18	18	18	6	6	4.5	14	140
200	320	280	18	8	219.1	221.5	226	22	20	20	20	20	20	6	6	6.3	16	190
250	375	335	18	12	273.0	276.5	281	24	22	22	22	22	22	8	8	6.3	18	235
300	440	395	22	12	323.9	327.5	333	24	22	22	22	22	22	8	8	7.1	18	285
350	490	445	22	12	355.6	359.5	365	26	22	22	22	22	22	8	8	7.1	18	330
400	540	495	22	16	406.4	411.0	416	28	22	22	22	22	22	8	8	7.1	20	380
450	595	550	22	16	457.0	462.0	467	30	22	22	22	22	22	8	8	7.1	20	425
500	645	600	22	20	508.0	513.5	519	30	24	24	24	24	24	8	8	7.1	22	475
600	755	705	26	20	610.0	616.5	622	32	30	30	30	30	30	8	8	7.1	22	575
700	860	810	26	24	711.0		721	40	30	40	40	40	40	4	4	8	-	
800	975	920	30	24	813.0		824	44	30	44	44	44	44	4	4	8	-	770
900	1075	1020	30	24	914.0		926	48	34	48	48	48	48	4	4	8	-	860
1000	1175	1120	30	28	1016.0		1028	52	38	52	52	52	52	4	4	8	-	960
1200	1405	1340	33	32	1219.0		1234	60	42	60	60	60	60	5	5	8.8	-	1160
1400	1630	1560	36	36	1422		-	72	56	68	-	8.8	-	8.8	-	1346	-	
1600	1830	1760	36	40	1626		-	80	63	76	-	10	-	10	-	1546	-	
1800	2045	1970	39	44	1829		-	88	69	84	-	11	-	11	-	1746	-	
2000	2265	2180	42	48	2032		-	96	74	92	-	12.5	-	12.5	-	1950	-	

DN	Raised face		Length			Neck diameters			Corner radii		APPROXIMATE WEIGHT				
	d ₁	f ₁	H ₁	H ₂	H ₃	N ₁	N ₂	N ₃	R ₁	R ₂					
	Flange type														
	01,05,11,12,13	12	13	11	11	11	11	12	12	11	Type01	Type02	Type05	Type11	Type12
10	35	2	20	28	6	26	25	4	0.356	0.345	0.38	0.353	0.326	0.306	
15	40	2	20	30	6	30	30	4	0.402	0.388	0.438	0.408	0.373		
20	50	2	24	32	6	38	40	4	0.592	0.568	0.657	0.621	0.584		
25	60	2	24	35	6	42	50	4	0.719	0.688	0.821	0.762	0.729		
32	70	2	26	35	6	55	60	6	1.16	1.12	1.18	1.11	1.04		
40	80	3	28	38	7	62	70	6	1.35	1.29	1.39	1.26	1.20		
50	90	3	28	38	8	74	80	6	1.48	1.42	1.62	1.43	1.34		
65	110	3	32	38	9	88	100	6	1.85	1.76	2.14	1.77	1.83		
80	128	3	34	42	10	102	110	8	2.95	2.84	3.43	2.88	2.75		
100	148	3	40	45	10	130	130	8	3.26	3.10	4.22	3.41	3.30		
125	178	3	44	48	10	155	160	8	4.31	4.12	6.10	4.65	4.30		
150	202	3	44	48	12	184	185	10	4.76	4.53	7.51	5.50	4.63		
200	258	3	44	55	15	236	240	10	6.88	6.51	12.3	8.60	6.97		
250	312	3	44	60	15	290	295	12	8.92	8.32	18.5	11.7	9.13		
300	365	4	44	62	15	342	355	12	11.9	11.1	25.5	15.3	12.4		
350	415	4	-	62	15	385	-	12	16.8	15.9	31.8	20.3	-		
400	465	4	-	65	15	438	-	12	19.8	18.8	38.5	23.1	-		
450	520	4	-	65	15	492	-	12	24.6	23.3	51.2	27.0	-		
500	570	4	-	68	15	538	-	12	26.4	24.9	60.1	30.8	-		
600	670	5	-	70	16	640	-	12	34.8	33.0	103	44.0	-		
700	775	5	-	76	16	740	-	12	-	-	178	53.7	-		
800	880	5	-	76	16	842	-	12	-	-	252	64.4	-		
900	980	5	-	78	16	942	-	12	-	-	336	79.2	-		
1000	1080	5	-	82	16	1045	-	16	-	-	435	98.6	-		
1200	1295	5	-	104	20	1248	-	16	-	-	717	152	-		
1400	1510	5	-	114	20	1452	-	16	-	-	1094	246	-		
1600	1710	5	-	119	20	1655	-	16	-	-	1545	309	-		
1800	1920	5	-	133	20	1855	-	16	-	-	2131	400	-		
2000	2125	5	-	146	25	2058	-	16	-	-	2885	516	-		

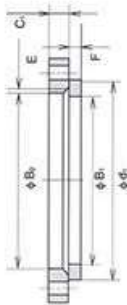
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DIMENSIONS OF PN16 FLANGES

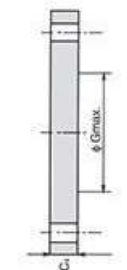
TYPE 01



TYPE 02



TYPE 05

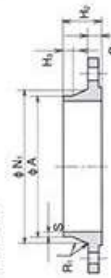


DN	Diameter of bolt circle	Diameter of bolt hole	Bolt number	Outside diameter of neck A	Flange type										Bore diameters		Flange thickness		Chamber	Wall thickness shoulder	Collar Thickness	Diameter Gmax
	01,02,05,11,12,13	11	01 12	02	01 02								11 12,13		05	02	11	S	F	05		
					B ₁	B ₂	C ₁	C ₂	C ₁	C ₂	E	S										
10	90	60	14	4	17.2	18.0	21	14	16	16	3	2	12	-	-	-	-	-	-			
15	95	65	14	4	21.3	22.0	25	14	16	16	3	2	12	-	-	-	-	-	-			
20	105	75	14	4	28.9	27.5	31	16	18	18	4	2.3	14	-	-	-	-	-	-			
25	115	85	14	4	33.7	34.5	38	16	18	18	4	2.6	14	-	-	-	-	-	-			
32	140	100	18	4	42.4	43.5	47	18	18	18	5	2.6	14	-	-	-	-	-	-			
40	150	110	18	4	48.3	49.5	53	18	18	18	5	2.6	14	-	-	-	-	-	-			
50	165	125	18	4	60.3	61.5	65	20	18	18	5	2.9	16	-	-	-	-	-	-			
65	185	145	18	8	76.1	77.5	81	20	18	18	6	2.9	16	55	-	-	-	-	-			
80	200	160	18	8	88.9	90.5	94	20	20	20	6	3.2	16	70	-	-	-	-	-			
100	220	180	18	8	114.3	116.0	120	22	20	20	6	3.6	18	90	-	-	-	-	-			
125	250	210	18	8	139.7	141.5	145	22	22	22	6	4.0	18	115	-	-	-	-	-			
150	285	240	22	8	168.3	170.5	174	24	22	22	6	4.5	20	140	-	-	-	-	-			
200	340	295	22	12	219.1	221.5	226	26	24	24	6	6.3	20	190	-	-	-	-	-			
250	405	355	26	12	273.0	276.5	281	29	26	26	8	6.3	22	235	-	-	-	-	-			
300	460	410	26	12	323.9	327.5	333	32	28	28	8	7.1	24	285	-	-	-	-	-			
350	520	470	26	16	365.6	369.5	365	35	30	30	8	8.0	26	330	-	-	-	-	-			
400	580	525	30	16	406.4	411.0	416	38	32	32	8	8.0	28	380	-	-	-	-	-			
450	640	585	30	20	457.0	462.0	467	42	34	40	8	8.8	30	425	-	-	-	-	-			
500	715	650	33	20	508.0	513.5	519	46	36	44	8	8.8	32	475	-	-	-	-	-			
600	840	770	36	20	610.0	616.5	622	55	40	54	8	10.0	32	575	-	-	-	-	-			
700	910	840	36	24	711.0			721	63	40	58	8	10.0	-	670	-	-	-	-			
800	1025	950	39	24	813.0			824	74	41	62	8	12.5	-	770	-	-	-	-			
900	1125	1050	39	28	914.0	To be specified by the purchaser		926	82	48	64	8	12.5	-	860	-	-	-	-			
1000	1255	1170	42	28	1016.0			1030	90	59	68	8	12.5	-	960	-	-	-	-			
1200	1485	1390	48	32	1219			-	-	78	-	-	14.2	-	1160	-	-	-	-			
1400	1685	1590	48	36	1422			-	-	84	-	-	16	-	1346	-	-	-	-			
1600	1930	1820	56	40	1626			-	-	102	-	-	17.5	-	1546	-	-	-	-			
1800	2130	2020	56	44	1829			-	-	110	-	-	20	-	1746	-	-	-	-			
2000	2345	2230	62	48	2032			-	-	124	-	-	22	-	1950	-	-	-	-			

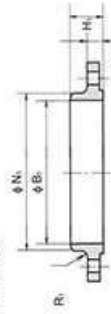
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DIMENSIONS OF PN16 FLANGES

TWO 44



TYPE 42



TYPE 40



DN	Raised face		Length			Neck diameters			Corner radii		APPROXIMATE WEIGHT				
	d ₁	f ₁	H ₁	H ₂	H ₃	N ₁	N ₂	R ₁	R ₂						
Flange type															
01,05,11,12,13											Type01	Type02	Type05	Type11	Type12
10	40	2	22	35	6	28	30	4	0.604	0.591	0.722	0.678	0.646		
15	45	2	22	38	6	32	35	4	0.670	0.654	0.813	0.768	0.722		
20	56	2	26	40	6	40	45	4	0.836	0.809	1.14	1.09	1.04		
25	68	2	28	40	6	46	52	4	1.11	1.08	1.38	1.3	1.25		
32	78	2	30	42	6	56	60	6	1.82	1.77	2.03	1.91	1.81		
40	88	3	32	45	7	64	70	6	2.08	2.02	2.35	2.15	2.06		
50	102	3	28	45	8	74	84	6	2.73	2.52	2.88	2.53	2.39		
65	122	3	32	45	10	92	104	6	3.16	3.05	3.51	3.03	2.97		
80	138	3	34	50	10	105	118	6	3.79	3.48	4.61	3.92	3.78		
100	158	3	40	52	12	131	140	8	4.39	4.20	5.65	4.62	4.38		
125	188	3	44	55	12	156	168	8	5.41	5.21	8.13	6.30	6.07		
150	212	3	44	55	12	184	195	10	7.14	6.89	10.5	7.81	7.24		
200	268	3	44	62	16	235	246	10	9.73	9.31	16.2	11.5	9.8		
250	320	3	46	70	16	292	298	12	14.2	13.5	25.0	16.70	13.6		
300	378	4	46	78	16	344	350	12	19	18.0	35.1	22.1	17.2		
350	438	4	57	82	16	390	400	12	28.2	27.0	48.0	32.8	27.9		
400	490	4	63	85	16	445	456	12	35.9	34.6	63.5	41.1	35.7		
450	550	4	68	83	16	490	502	12	46.1	44.8	96.6	50.6	45.0		
500	610	4	73	84	16	548	559	12	64.0	62.0	133	66.2	60.4		
600	725	5	83	88	18	670	658	12	102	98.8	226	104	94		
700	795	5	83	104	18	755	760	12	-	107	285	96.5	-		
800	900	5	90	108	20	855	864	12	-	152	388	122	-		
900	1000	5	94	118	20	955	968	12	-	184	483	155	-		
1000	1115	5	100	137	22	1058	1072	16	-	257	640	233	-		
1200	1330	5	-	160	30	1262	-	16	-	-	-	390	-		
1400	1530	5	-	177	30	1465	-	16	-	-	-	495	-		
1600	1750	5	-	204	35	1668	-	16	-	-	-	760	-		
1800	1950	5	-	218	35	1870	-	16	-	-	-	929	-		
2000	2150	5	-	238	40	2072	-	16	-	-	-	1165	-		