

Welding Neck Flanges

NP 6

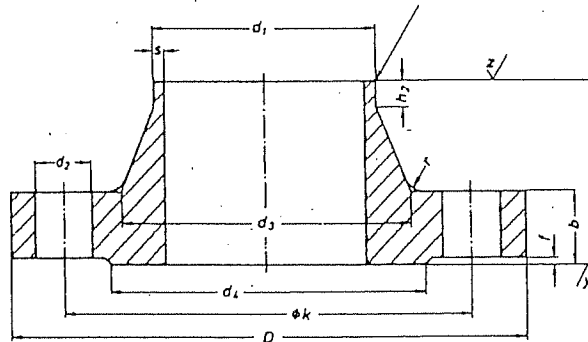
DIN 2631

- Welding Neck : $s \leq 16$ shape of bevel 22 DIN 2559
- $s > 16$ shape of bevel 3 DIN 2559

$$z/\sqrt{R_z=160}$$

machined

$$y/\sqrt{R_z=160}$$



ND	d1	D	b	k	h1/h2	s	d4	f	d3	r	NR of holes	Bolt diam.	d2	Weight Kg
10	14 17,2*	75	12	50	28/6	1,8	35	2	22 26	4	4	M10	11	0,335
15	20 21,3*	80	12	55	30/6	2,0	40	2	28 30	4	4	M10	11	0,392
20	25 26,9*	90	14	65	32/6	2,3	50	2	35 38	4	4	M10	11	0,592
25	30 33,7*	100	14	75	35/6	2,6	60	2	40 42	4	4	M10	11	0,747
32	38 42,4*	120	14	90	35/6	2,6	70	2	50 55	6	4	M12	14	1,05
40	44,5 48,3*	130	14	100	38/7	2,6	80	3	58 62	6	4	M12	14	1,18
50	57 60,3*	140	14	110	38/8	2,9	90	3	70 74	6	4	M12	14	1,34
65	76,1*	160	14	130	38/9	2,9	110	3	88	6	4	M12	14	1,67
80	88,9*	190	16	150	42/10	3,2	128	3	102	8	4	M16	18	2,71
100	108 114,3*	210	16	170	45/10	3,6	148	3	122 130	8	4	M16	18	3,24
125	133 139,7*	240	18	200	48/10	4,0	178	3	148 155	8	8	M16	18	4,49
150	159 168,3*	265	18	255	48/12	4,5	202	3	172 184	10	8	M16	18	5,15
200	216 219,1*	320	20	280	55/15	5,9	258	3	230 236	10	8	M16	18	7,78
250	267 273*	375	22	335	60/15	6,3	312	3	282 290	12	12	M16	18	10,8
300	318 323,9*	440	22	395	62/15	7,1	365	4	335 342	12	12	M20	22	14,0
350	355,6* 368	490	22	445	62/15	7,1	415	4	385 385	12	12	M20	22	18,5

dimensions in mm * for pipe diameters according to ISO R64; other diam. acc. to DIN.

Welding Neck Flanges

NP 6

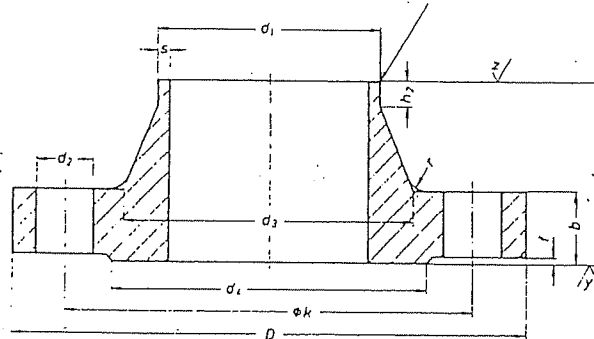
DIN 2631 (cont.)

- Welding Neck : $s \leq 16$ shape of bevel 22 DIN 2559
 $s > 16$ shape of bevel 3 DIN 2559

$$z' = \sqrt{R_x = 160}$$

machined

$$y' = \sqrt{R_x = 160}$$



ND	d1	D	b	k	h1/h2	s	d4	f	d3	r	Nr of holes	Bolt diam.	d2	Weight kg
400	406,4* 419	540	22	495	65/15	7,1	465	4	438	12	16	M20	22	21,2 19,0
500	508,0* 521	645	24	600	68/15	7,1	570	4	538	12	20	M20	22	28,6 24,6
600	609,6* 622	755	24	705	70/16	7,1	670	5	640	12	20	M24	26	31,5
700	711,2* 720	860	24	810	70/16	7,1	775	5	740	12	24	M24	26	37,4
800	812,8* 820	975	24	920	70/16	7,1	880	5	842	12	24	M27	30	46,1
900	914,4* 920	1075	26	1020	70/16	7,1	980	5	942	12	24	M27	30	55,6
1000	1016* 1020	1175	26	1120	70/16	7,1	1080	5	1045	16	28	M27	30	61,9
1200	1220*	1405	28	1340	90/20	8	1295	5	1248	16	32	M30	33	100
1400	1420*	1630	32	1560	90/20	8	1510	5	1452	16	36	M33	36	149
1600	1620*	1830	34	1760	90/20	9	1710	5	1655	16	40	M33	36	180
1800	1820*	2045	36	1970	100/20	10	1920	5	1855	16	44	M36	39	225
2000	2020*	2265	38	2180	110/25	11	2125	5	2058	16	48	M39	42	295
2200	2220*	2475	42	2390	115/25	12	2335	6	2260	18	52	M39	42	361
2400	2420*	2685	44	2600	125/25	13	2545	6	2462	18	56	M39	42	415
2600	2620*	2905	46	2810	130/25	14	2750	6	2665	18	60	M45	48	530
2800	2820*	3115	48	3020	135/30	15	2960	6	2865	18	64	M45	48	643
3000	3020*	3315	50	3220	140/30	16	3160	6	3068	18	68	M45	48	777
3200	3220*	3525	54	3430	150/30	16	3370	6	3272	20	72	M45	48	851
3400	3420*	3735	56	3640	160/35	18	3580	6	3475	20	76	M45	48	993
3600	3620*	3970	60	3860	165/35	18	3790	6	3678	20	80	M52	56	1001

* for pipe diameters according to ISO R64; other diam. acc. to DIN

dimensions in mm

Welding Neck Flanges

NP 10

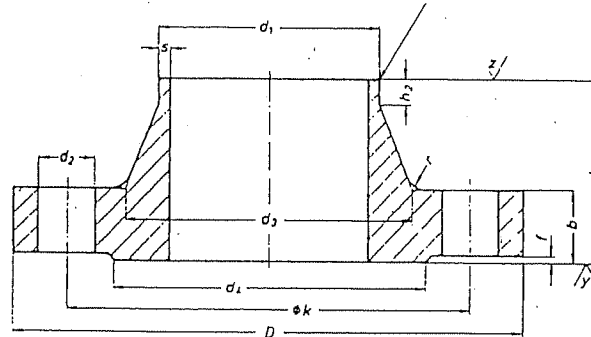
DIN 2632

- Welding Neck: $s \leq 16$ shape of bevel 22 DIN 2559
- $s > 16$ shape of bevel 3 DIN 2559

$$z/\sqrt{R_z} = 160$$

$$z/\sqrt{R_z} = 160$$

machined



ND	d1	D	b	k	h1/h2	s	d4	f	d3	r	Nr of holes	Bolt diam.	d2	Weight kg
200	216 219,1*	340	24	295	62/16	5,9	268	3	232 235	10	8	M20	22	11,3
250	267 273,0*	395	26	350	68/16	6,3	320	3	285 292	12	12	M20	22	14,7
300	318 323,9*	445	26	400	68/16	7,1	170	4	335 344	12	12	M20	22	17,6
350	355,6* 368	505	26	460	68/16	7,1	430	4	385	12	16	M20	22	23,6 21,6
400	406,4* 419	565	26	515	72/16	7,1	482	4	440	12	16	M24	26	28,6 26,2
500	508,0* 521	670	28	620	75/16	7,1	585	4	542	12	20	M24	26	38,1 34,7
600	609,6* 622	780	28	725	80/16	7,1	685	5	642	12	20	M27	30	44,6 42,2
700	711,2* 720	895	30	840	80/18	8	800	5	745	12	24	M27	30	62,4 58,7
800	812,8* 820	1015	32	950	90/18	8	905	5	850	12	24	M30	33	84,1 80,0
900	914,4* 920	1115	34	1050	95/20	10	1005	5	950	12	28	M30	33	98,5 95,6

* For pipe diameters according to ISO R64; other diam. acc. to DIN

dimensions in mm

Welding Neck Flanges

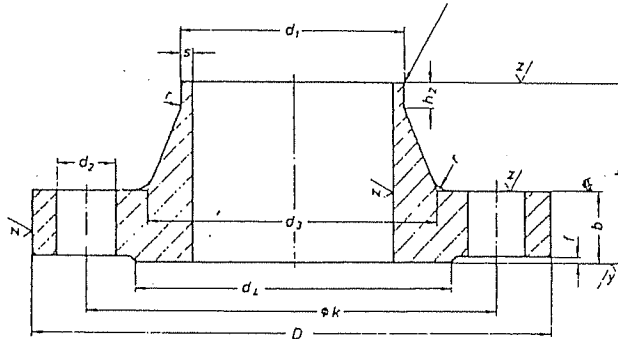
NP 10

DIN 2632 (cont.)

$$z/\sqrt{r} = \sqrt{R_x = 160}$$

$$z/\sqrt{r} = \sqrt{R_x = 160}^{\text{machined}}$$

- Welding Neck : $s \leq 16$ shape of bevel 22 DIN 2559
 $s > 16$ shape of bevel 3 DIN 2559



ND	d1	D	b	k	h1/h2	s	d4	f	d3	r	Nr of holes	Bolt diam.	d2	Weight kg
1000	1016* 1020	1230	34	1160	95/20	10	1110	5	1052	16	28	M33	36	114
1200	1220*	1455	38	1380	115/25	11	1330	5	1255	16	32	M36	39	182
1400	1420*	1675	42	1590	120/25	12	1535	5	1460	16	36	M39	42	248
1600	1620*	1915	46	1820	130/25	14	1760	5	1665	16	40	M45	48	347
1800	1820*	2115	50	2020	140/30	15	1960	5	1868	16	44	M45	48	430
2000	2020*	2325	54	2230	150/30	16	2170	5	2072	16	48	M45	48	539
2200	2220*	2550	58	2440	160/35	18	2370	6	2275	18	52	M52	56	658
2400	2420*	2760	62	2650	170/35	20	2570	6	2478	18	56	M52	56	825
2600	2620*	2960	66	2850	180/40	22	2780	6	2680	18	60	M52	56	979
2800	2820*	3180	70	3070	190/40	22	3000	6	2882	18	64	M52	56	1156
3000	3020*	3405	74	3290	200/45	24	3210	6	3085	18	68	M56	62	1402

* for pipe diameters according to ISO R64; other diam. acc. to DIN

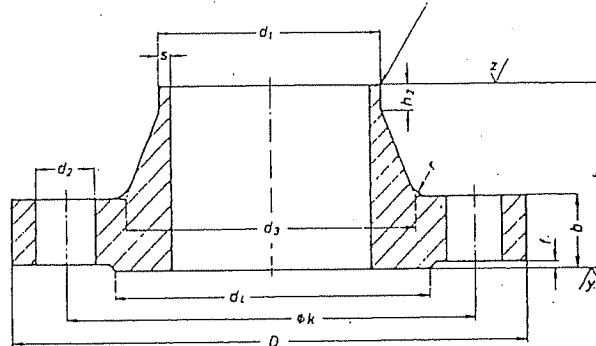
dimensions in mm

- Welding Neck : $s \leq 16$ shape of bevel 22 DIN 2559
 $s > 16$ shape of bevel 3 DIN 2559

$$z/\sqrt{R_x=150}$$

$$y/\sqrt{R_x=150}$$

machined



ND	d1	D	b	k	h1/h2	s	d4	f	d3	r	Nr of holes	Bolt diam.	d2	Weight kg
10	14 17,2*	90	14	60	35/6	1,8	40	2	25 28	4	4	M12	14	0,580
15	20 21,3*	95	14	65	35/6	2	45	2	30 32	4	4	M12	14	0,648
20	25 26,9*	105	16	75	38/6	2,3	58	2	38 40	4	4	M12	14	0,952
25	30 33,7*	115	16	85	38/6	2,6	68	2	42 45	4	4	M12	14	1,14
32	38 42,4*	140	16	100	40/6	2,6	78	2	52 56	6	4	M16	18	1,69
40	44,5 48,3*	150	16	110	42/6	2,6	88	3	60 64	6	4	M16	18	1,86
50	57 60,3*	165	18	125	45/8	2,9	102	3	72 75	6	4	M16	18	2,53
65	76,1*	185	18	145	45/10	2,9	122	3	90	6	4	M16	18	3,06
80	88,9*	200	20	160	50/10	3,2	138	3	105	8	8 (1)	M16	18	3,70
100	108 114,3*	220	20	180	52/12	3,6	158	3	125 131	8	8	M16	18	4,62
125	133 139,7*	250	22	210	55/12	4	188	3	150 156	8	8	M16	18	6,30
150	159 168,3*	285	22	240	55/12	4,5	212	3	175 184	10	8	M20	22	7,75

(1) for ND 80 and NP 10 acc. to DIN 2632 : 4 bolt holes

* for pipe diameters according to ISO R64; other diam. acc. to DIN

dimensions in mm

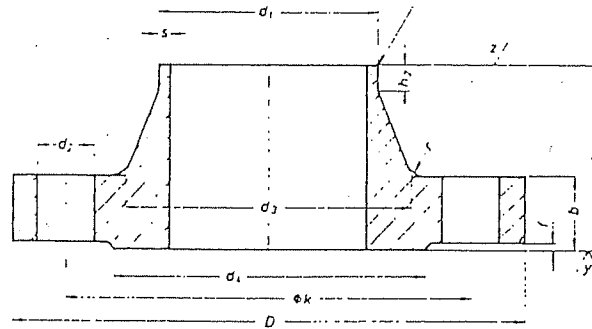
Welding Neck Flanges NP 16 DIN 2633 (cont.)

- Welding Neck : $s \leq 16$ shape of bevel 22 DIN 2559
- $s > 16$ shape of bevel 3 DIN 2559

$$z/\sqrt{R_x} = 160$$

$$y/\sqrt{R_x} = 160$$

machined



ND	d1	D	b	k	h1/h2	s	d4	f	d3	r	Nr of holes	Bolt diam.	d2	Weight kg
(175)	191 193,7*	315	24	270	60/12	5,4	242	3	210	10	8	M20	22	10,0
200	216 219,1*	340	24	295	62/16	5,9	268	3	235	10	12	M20	22	11,0
250	267 273,0*	405	26	355	70/16	6,3	120	3	285 292	12	12	M24	26	15,6
300	318 323,9*	460	28	410	78/16	7,1	378	4	344	12	12	M24	26	22,0
350	355,6* 368	520	30	470	82/16	8,0	438	4	390	12	16	M24	26	28,7
400	406,4* 419	580	32	525	85/16	8,0	490	4	445	12	16	M27	30	36,3
500	508,0* 521	715	34	650	90/16	8,0	610	4	548	12	20	M30	33	59,3
600	609,6* 622	840	36	770	95/18	8,8	725	5	652	12	20	M33	36	73,4
700	711,2* 720	910	36	840	100/18	8,8	795	5	755	12	24	M33	36	75,0
800	812,8* 820	1025	38	950	105/20	10,0	900	5	855	12	24	M36	39	99,0
900	914,4* 920	1125	40	1050	110/20	10,0	1000	5	955	12	28	M36	39	119
1000	1016* 1020	1255	42	1170	120/22	10,0	1115	5	1058	16	28	M39	42	159
1200	1220*	1485	48	1390	130/30	12,5	1330	5	1262	16	32	M45	48	243
1400	1420*	1685	52	1590	145/30	14,2	1530	5	1465	16	36	M45	48	323
1600	1620*	1930	58	1820	160/35	16,0	1750	5	1668	16	40	M52	56	479
1800	1820*	2130	62	2020	170/35	17,5	1950	5	1870	16	44	M52	56	599
2000	2020*	2345	66	2230	180/40	20,0	2150	5	2072	16	48	M56	62	719

* For pipe diameters according to ISO R64; other diam. acc. to DIN

dimensions in mm

Welding Neck Flanges

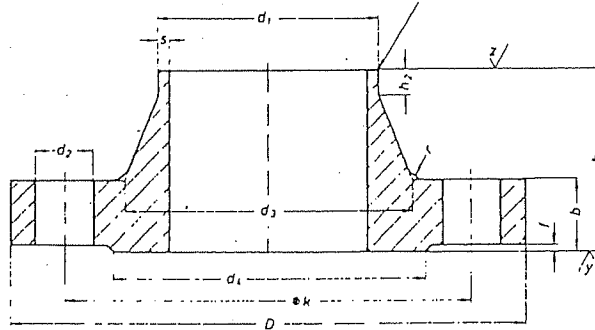
NP 25

DIN 2634

- Welding Neck : $s \leq 16$ shape of bevel 22 DIN 2559
 $s > 16$ shape of bevel 3 DIN 2559

$$z/\sqrt{R_1} = 160$$

$$z/\sqrt{R_1} = \begin{matrix} \text{machined} \\ 160 \end{matrix}$$



ND	d1	D	b	k	h1/h2	s	d4	f	d3	r	Nr of holes	Bolt diam.	d2	Weight kg
(175)	(191) 193,7*	330	28	280	75/15	5,6	248	3	218	10	12	M24	26	13,4
200	216 219,1*	360	30	310	80/16	6,3	278	3	244	10	12	M24	26	17,0
250	267 273*	425	32	370	88/18	7,1	335	3	292 298	12	12	M27	30	24,4
300	318 323,9*	485	34	430	92/18	8,0	395	4	352	12	16	M27	30	31,2
350	355,6* 368	555	38	490	100/20	8,0	450	4	398	12	16	M30	33	45,0
400	406,4* 419	620	40	550	110/20	8,8	505	4	452	12	16	M33	36	58,7
500	508* 521	730	44	660	125/20	10,0	615	4	558	12	20	M33	36	86,1
600	609,6* 622	845	46	770	125/20	11,0	720	5	660	12	20	M36	39	101
700	711,2* 720	960	46	875	125/20	12,5	820	5	760	12	24	M39	42	134
800	812,8* 820	1085	50	990	135/22	14,2	930	5	865	12	24	M45	48	183
900	914,4* 920	1185	54	1090	145/24	16,0	1030	5	968	12	28	M45	48	232
1000	1016* 1020	1320	58	1210	155/24	17,5	1140	5	1070	16	28	M52	56	302

For ND 10 to 150 see DIN 2635

* For pipe diameters according to ISO R64; other diam. acc. to DIN

dimensions in mm

Welding Neck Flanges

NP 40

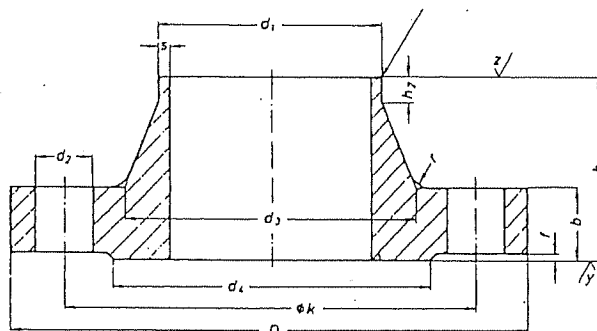
DIN 2635

- Welding Neck : $s \leq 16$ shape of bevel 22 DIN 2559
 $s > 16$ shape of bevel 3 DIN 2559

$$z/\sqrt{R_x} = \sqrt{160}$$

machined

$$z/\sqrt{R_x} = \sqrt{160}$$



ND	d1	D	b	k	h1/h2	s	d4	f	d3	r	Nr of holes	Bolt diam.	d2	Weight kg
10	14 17,2*	90	16	60	35/6	1,8	40	2	25 28	4	4	M12	14	0,661
15	20 21,3*	95	16	65	38/6	2,0	45	2	30 32	4	4	M12	14	0,746
20	25 26,9*	105	18	75	40/6	2,3	58	2	38 40	4	4	M12	14	1,06
25	30 33,7*	115	18	85	40/6	2,6	68	2	42 46	4	4	M12	14	1,29
32	38 42,4*	140	18	100	42/6	2,6	78	2	52 56	6	4	M16	18	1,88
40	44,5 48,3*	150	18	110	45/7	2,6	88	3	60 64	6	4	M16	18	2,33
50	57 60,3*	165	20	125	48/8	2,9	102	3	72 75	6	4	M16	18	2,82
65	76,1*	185	22	145	52/10	2,9	122	3	90	6	8	M16	18	3,74
80	88,9*	200	24	160	58/12	3,2	138	3	105	8	8	M16	18	4,75
100	108 114,3*	235	24	190	65/12	3,6	162	3	128 134	8	8	M20	22	6,52*

* For pipe diameters according to ISO R64; other diam. acc. to DIN

dimensions in mm

Welding Neck Flange

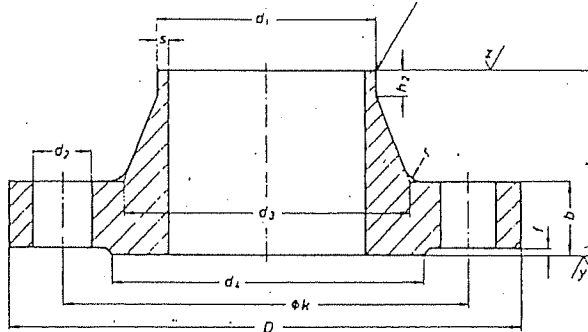
NP 40

DIN 2635 (cont.)

- Welding Neck : $s \leq 16$ shape of bevel 22 DIN 2559
 $s > 16$ shape of bevel 3 DIN 2559

$$z/ = \sqrt{R_x = 160}$$

$$y/ = \sqrt{R_x = 160}^{\text{machined}}$$



ND	d1	D	b	k	h1/h2	s	d4	f	d3	r	Nr of holes	Bolt diam.	d2	Weight kg
125	133 139,7*	270	26	220	68/12	4	188	3	155 162	8	8	M24	26	9,07
150	159 168,3*	300	28	250	75/12	4,5	218	3	182 192	10	8	M24	26	11,8
(175)	(191) 193,7*	350	32	295	82/15	5,6	260	3	215 218	10	12	M27	30	18,2
200	216 219,1*	375	34	320	88/16	6,3	285	3	240 244	10	12	M27	30	21,5
250	267 273*	450	38	385	105/18	7,1	345	3	298 306	12	12	M30	33	34,9
300	318 323,9*	515	42	450	115/18	8,0	410	4	352 362	12	16	M30	33	49,7
350	355,6* 368	580	46	510	125/20	8,8	465	4	408	12	16	M33	36	68,1
400	406,4* 419	660	50	585	135/20	11,0	535	4	462	12	16	M36	39	96,5
500	508* 521	755	52	670	140/20	14,2	615	4	562	12	20	M39	42	117

* For pipe diameters according to ISO R64; other diam. acc. to DIN

dimensions in mm

Welding Neck Flanges

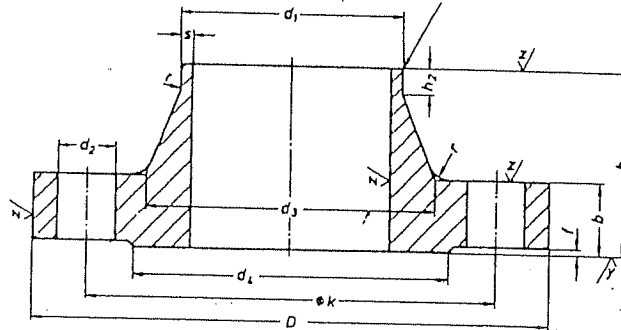
NP 64

DIN 2636

- Welding Neck : $s \leq 16$ shape of bevel 22 DIN 2559
 $s > 16$ shape of bevel 3 DIN 2559

$$z/\sqrt{R_x} = 160$$

$$z/\sqrt{R_x} = 16 \text{ machined}$$



ND	d1	D	b	k	h1/h2	s	d4	f	d3	r	Nr of holes	Bolt diam.	d2	Weight kg
50	57 60,3*	180	26	135	62/10	2,9	95	3	78 82	6	4	M20	22	4,55
65	76,1*	205	26	160	68/12	3,2	120	3	98	6	8	M20	22	5,73
80	88,9*	215	28	170	72/12	3,6	130	3	112	8	8	M20	22	6,69
100	108 114,3*	250	30	200	78/12	4,0	160	3	132 138	8	8	M24	26	9,66
125	133 139,7*	295	34	240	88/12	4,5	185	3	162 168	8	8	M27	30	15,1
150	159 168,3*	345	36	280	95/12	5,6	215	3	192 202	10	8	M30	33	21,9
(175)	(191) 193,7*	375	40	310	105/16	6,3	245	3	228	10	12	M30	33	23,7
200	216 219,1*	415	42	345	110/16	7,1	270	3	256	10	12	M33	36	34,9
250	267 273,0*	470	46	400	125/18	8,8	325	3	310 316	12	12	M33	36	49,6
300	318 323,9*	530	52	460	140/18	11,0	375	4	365 372	12	16	M33	36	68,7
350	355,6* 368	600	56	525	150/20	12,5	435	4	420	12	16	M36	39	94,6
400	406,4* 419	670	60	585	160/20	14,2	485	4	475	12	16	M39	42	124

For ND 10 to 40 see DIN 2637

* For pipe diameters according to ISO R64; other diam. acc. to DIN

dimensions in mm

Welding Neck Flanges

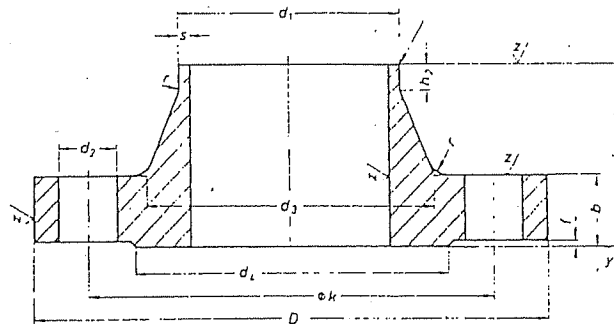
NP 100

DIN 2637

$$z' = \sqrt{R_z = 160}$$

$$z' = \sqrt{R_z = 16}^{\text{machined}}$$

- Welding Neck : $s \leq 16$ shape of bevel 22 DIN 2559
- $s > 16$ shape of bevel 3 DIN 2559



ND	d_1	D	b	k	h_1/h_2	s	d_4	f	d_3	r	Nr of holes	Bolt diam.	d_2	Weight kg
10	14 17,2*	100	20	70	45/6	1,8	40	2	28 32	4	4	M12	14	1,09
15	20 21,3*	105	20	75	45/6	2,0	45	2	32 34	4	4	M12	14	1,19
25	30 33,7*	140	24	100	58/8	2,6	65	2	48 52	4	4	M16	18	2,66
32	38 42,4	155	24	110	60/8	2,6	75	2	58 62	6	4	M20	22	3,20
40	44 48,3*	170	26	125	62/10	2,9	85	3	65 70	6	4	M20	22	4,09
50	57 60,3*	195	28	145	68/10	3,2	95	3	86 90	6	4	M24	26	5,98
65	76,1*	220	30	170	76/12	3,6	120	3	108	6	8	M24	26	7,91
80	88,9*	230	32	180	78/12	4,0	130	3	120	8	8	M24	26	8,95
100	108 114,3*	265	36	210	90/12	5,0	160	3	145 150	8	8	M27	30	13,7
125	133 139,7*	315	40	250	105/12	6,3	185	3	180	8	8	M30	33	22,7
150	159 168,3*	355	44	290	115/12	7,1	215	3	210	10	12	M30	33	30,2
(175)	(191) 193,7*	385	48	320	127/16	8,8	245	3	245	10	12	M30	33	38,9
200	216 219,1*	430	52	360	130/16	10,0	270	3	278	10	12	M33	36	52,8
250	267 273,0*	505	60	430	157/18	12,5	325	3	340	12	12	M36	39	81,4
300	318 323,9*	585	68	500	170/18	14,2	375	4	400	12	16	M39	42	122
350	355,6* 368	655	74	560	189/20	16,0	435	4	460	12	16	M45	48	165

* For pipe diameters according to ISO R64; other diam. acc. to DIN

dimensions in mm