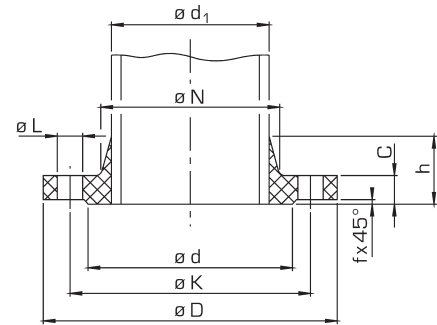
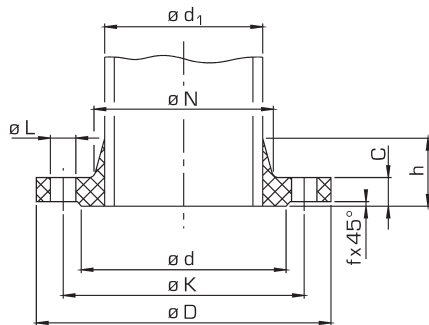


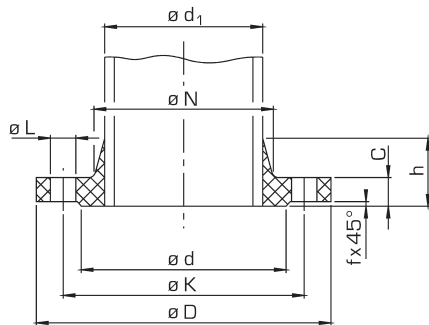
**FLANGED JOINTS FROM PN 10 UP TO PN 40
ACC. TO DIN EN 1092-2**




Dimensions and weights

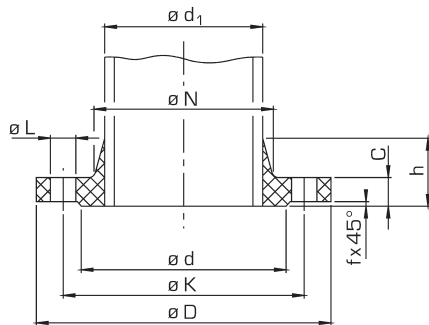
DN	Dimensions in mm										Weight in kg ≈
	Pipe $\varnothing d_1$	$\varnothing D$	C	Flange $\varnothing K$	n^*	$\varnothing L$	Neck $\varnothing N$	h	Raised face $\varnothing d$	f	
40	56	150	19,0	110	4	19	70	39,0	84	3	1,7
50	66	165	19,0	125	4	19	84	40,0	99	3	2,1
65	82	185	19,0	145	4	19	104	41,5	118	3	2,6
80	98	200	19,0	160	8	19	120	43,0	132	3	2,8
100	118	220	19,0	180	8	19	140	45,0	156	3	3,3
125	144	250	19,0	210	8	19	170	47,5	184	3	4,0
150	170	285	19,0	240	8	23	190	50,0	211	3	5,0
200	222	340	20,0	295	8	23	246	55,0	266	3	6,9
250	274	400	22,0	350	12	23	298	60,0	319	3	9,8
300	326	455	24,5	400	12	23	348	65,0	370	4	13,0
350	378	505	24,5	460	16	23	408	70,0	429	4	14,7
400	429	565	24,5	515	16	28	456	75,0	480	4	17,2
450	480	615	25,5	565	20	28	502	80,0	530	4	20,0
500	532	670	26,5	620	20	28	559	85,0	582	4	23,2
600	635	780	30,0	725	20	31	658	95,0	682	5	32,8
700	738	895	32,5	840	24	31	772	105,0	794	5	44,3
800	842	1015	35,0	950	24	34	876	115,0	901	5	58,8
900	945	1115	37,5	1050	28	34	976	125,0	1001	5	69,6
1000	1048	1230	40,0	1160	28	37	1080	135,0	1112	5	87,6
1200	1255	1455	45,0	1380	32	41	1292	155,0	1328	5	121,0

* n = number of bolt holes


Dimensions and weights

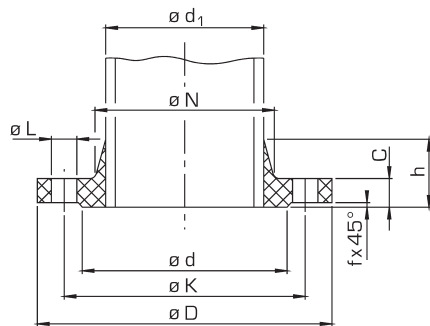
DN	Dimensions in mm										Weight in kg \approx
	Pipe $\varnothing d_1$	$\varnothing D$	Flange			Neck		Raised face			
	$\varnothing d_1$	$\varnothing D$	C	$\varnothing K$	n^*	$\varnothing L$	$\varnothing N$	h	$\varnothing d$	f	
40	56	150	19,0	110	4	19	70	39,0	84	3	1,7
50	66	165	19,0	125	4	19	84	40,0	99	3	2,1
65	82	185	19,0	145	4	19	104	41,5	118	3	2,6
80	98	200	19,0	160	8	19	120	43,0	132	3	2,8
100	118	220	19,0	180	8	19	140	45,0	156	3	3,3
125	144	250	19,0	210	8	19	170	47,5	184	3	4,0
150	170	285	19,0	240	8	23	190	50,0	211	3	5,0
200	222	340	20,0	295	12	23	246	55,0	266	3	6,7
250	274	400	22,0	355	12	28	296	60,0	319	3	9,4
300	326	455	24,5	410	12	28	350	65,0	370	4	12,6
350	378	520	26,5	470	16	28	410	70,0	429	4	17,5
400	429	580	28,0	525	16	31	458	75,0	480	4	22,1
450	480	640	30,0	585	20	31	516	80,0	548	4	30,2
500	532	715	31,5	650	20	34	576	85,0	609	4	37,4
600	635	840	36,0	770	20	37	690	95,0	720	5	57,6
700	738	910	39,5	840	24	37	760	105,0	794	5	57,4
800	842	1025	43,0	950	24	41	862	115,0	901	5	76,8
900	945	1125	46,5	1050	28	41	962	125,0	1001	5	91,4
1000	1048	1255	50,0	1170	28	44	1076	135,0	1112	5	127,0
1200	1255	1485	57,0	1390	32	50	1282	155,0	1328	5	185,0

* n = number of bolt holes


Dimensions and weights PN 25

DN	Dimensions in mm										Weight in kg \approx
	Pipe $\varnothing d_1$	$\varnothing D$	C	Flange $\varnothing K$		n^*	$\varnothing L$	Neck $\varnothing N$		Raised face $\varnothing d$	
40	56	150	19,0	110	4	19	70	39	84	3	1,7
50	66	165	19,0	125	4	19	84	40	99	3	2,1
65	82	185	19,0	145	8	19	104	41,5	118	3	2,4
80	98	200	19,0	160	8	19	120	43	132	3	2,8
100	118	235	19,0	190	8	23	142	45	156	3	3,8
125	144	270	19,0	220	8	28	162	47,5	184	3	4,7
150	170	300	20,0	250	8	28	192	50	211	3	6,0
200	222	360	22,0	310	12	28	252	55	274	3	8,7
250	274	425	24,5	370	12	31	304	60	330	3	13,0
300	326	485	27,5	430	16	31	364	65	389	4	17,7
350	378	555	30,0	490	16	34	418	70	448	4	25,4
400	429	620	32,0	550	16	37	472	75	503	4	33,2
450	480	670	34,5	600	20	37	520	80	548	4	40,2
500	532	730	36,5	660	20	37	580	85	609	4	47,2
600	635	845	42,0	770	20	41	684	95	720	5	71,5
700	738	960	46,5	875	24	44	780	105	820	5	90,0
800	842	1085	51,0	990	24	50	882	115	928	5	123,0
900	945	1185	55,5	1090	28	50	982	125	1028	5	149,0
1000	1048	1320	60,0	1210	28	57	1086	135	1140	5	201,0
1200	1255	1530	69,0	1420	32	57	1296	155	1350	5	285,0

* n = number of bolt holes

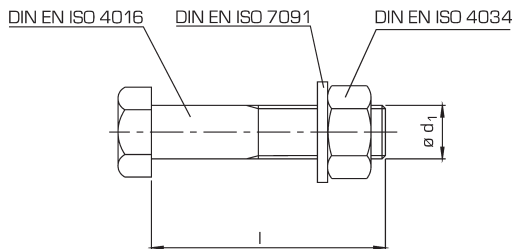

Dimensions and weights PN 40

DN	Dimensions in mm										Weight in kg ≈
	Pipe $\varnothing d_1$	$\varnothing D$	C	Flange $\varnothing K$	n^*	$\varnothing L$	Neck $\varnothing N$	h	Raised face $\varnothing d$	f	
40	56	150	19,0	110	4	19	70	39,0	84	3	1,7
50	66	165	19,0	125	4	19	84	40,0	99	3	2,1
65	82	185	19,0	145	8	19	104	41,5	118	3	2,4
80	98	200	19,0	160	8	19	120	43,0	132	3	2,8
100	118	235	19,0	190	8	23	142	45,0	156	3	3,8
125	144	270	23,5	220	8	28	162	47,5	184	3	5,9
150	170	300	26,0	250	8	28	192	50,0	211	3	8,0
200	222	375	30,0	320	12	31	254	55,0	284	3	14,0
250	274	450	34,5	385	12	34	312	60,0	345	3	23,5
300	326	515	39,5	450	16	34	378	65,0	409	4	33,5
350	378	580	44,0	510	16	37	432	70,0	465	4	43,0
400	429	660	48,0	585	16	41	498	75,0	535	4	62,0
450	480	685	49,0	610	20	41	522	80,0	560	4	57,0
500	532	755	52,0	670	20	44	576	85,0	615	4	82,0
600	635	890	58,0	795	20	50	686	95,0	735	5	124,0

* n = number of bolt holes

HEXAGONAL SCREWS FOR FLANGES PN 10 AND PN 16 ACC. TO DIN EN 1092-2

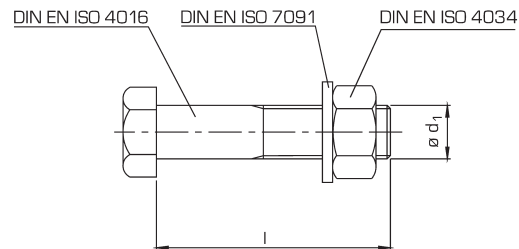
48



DN	PN 10			PN 16		
	Dimensions in mm			Dimensions in mm		
	$\varnothing d_1$	l	number	$\varnothing d_1$	l	number
40	M 16	70	4	M 16	70	4
50	M 16	70	4	M 16	70	4
65	M 16	70	4	M 16	70	4
80	M 16	70	8	M 16	70	8
100	M 16	70	8	M 16	70	8
125	M 16	70	8	M 16	70	8
150	M 20	80	8	M 20	80	8
200	M 20	80	8	M 20	80	12
250	M 20	80	12	M 24	90	12
300	M 20	90	12	M 24	90	12
350	M 20	90	16	M 24	90	16
400	M 24	90	16	M 27	100	16
450	M 24	90	20	M 27	110	20
500	M 24	90	20	M 30	110	20
600	M 27	100	20	M 33	120	20
700	M 27	110	24	M 33	130	24
800	M 30	120	24	M 36	140	24
900	M 30	120	28	M 36	140	28
1000	M 33	130	28	M 39	150	28

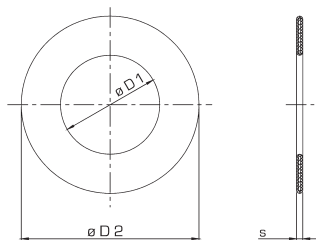
HEXAGONAL SCREWS FOR FLANGES PN 25 AND PN 40 ACC. TO DIN EN 1092-2

49



DN	PN 25			PN 40		
	Dimensions in mm			Dimensions in mm		
	$\varnothing d_1$	l	number	$\varnothing d_1$	l	number
40	M 16	70	4	M 16	70	4
50	M 16	70	4	M 16	70	4
65	M 16	70	8	M 16	70	8
80	M 16	70	8	M 16	70	8
100	M 20	80	8	M 20	80	8
125	M 24	80	8	M 24	90	8
150	M 24	80	8	M 24	100	8
200	M 24	90	12	M 27	110	12
250	M 27	100	12	M 30	120	12
300	M 27	100	16	M 30	130	16
350	M 30	110	16	M 33	140	16
400	M 33	120	16	M 36	150	16
450	M 33	130	20	M 36	150	20
500	M 33	130	20	M 39	170	20
600	M 36	140	20	M 45	180	20
700	M 39	150	24	—	—	—
800	M 45	170	24	—	—	—
900	M 45	180	28	—	—	—
1000	M 52	190	28	—	—	—

FLAT GASKETS FOR FLANGES WITH RAISED FACE ACC. TO DIN EN 1514-1, TYPE IBC

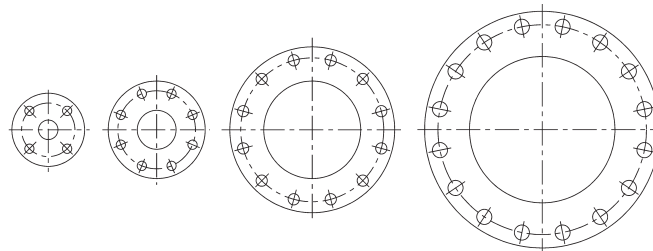


Dimensions and weights

DN	$\varnothing D1$	$\varnothing D2$		s
		PN 10	PN 16	
40	49	92		3
50	61	107		3
65	77	127		3
80	90	142		3
100	115	162		3
125	141	192		3
150	169	218		3
200	220	273		3
250	274	328	330	3
300	325	378	385	3
350	368	438	445	3
400	420	490	497	3
450	—			3
500	520	595	618	3
600	620	695	735	3
700	720	810	805	5
800	820	915	910	5
900	920	1015	1005	5
1000	1020	1120	1110	5
1200	1220		1340	5

Gaskets are not delivered. Steel or reinforcement inlay on request.

ARRANGEMENT OF BOLT HOLES



Number of bolts

DN	DIN EN 1092-2	DIN EN 1092-2	DIN EN 1092-2	DIN EN 1092-2
	PN 10	PN 16	PN 25	PN 40
40	4	4	4	4
50	4	4	4	4
65	4	4	8	8
80	8	8	8	8
100	8	8	8	8
125	8	8	8	8
150	8	8	8	8
200	8	12	12	12
250	12	12	12	12
300	12	12	16	16
350	16	16	16	16
400	16	16	16	16
450	20	20	20	20
500	20	20	20	20
600	20	20	20	20
700	24	24	24	—
800	24	24	24	—
900	28	28	24	—
1000	28	28	28	—
1200	32	32	32	—

Each flange has got a number of bolt holes divisible by 4.

The bolt holes at the flanges are arranged in symmetrical manner to the two main axes so that no hole is positioned on the axes.