JIN SHENG

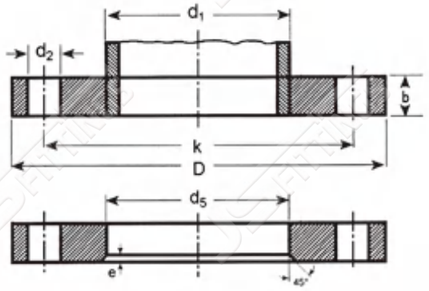
金盛管件

德标法兰参数系列

FLANGES WELD ON PIPES DIN 2573·····019
FLANGES WELD ON PIPES DIN 2576·····020
FLANGES WELD ON PIPES DIN 2502·····021
FLANGES WELD ON PIPES DIN 2503·····022
LAPPED FLANGES WITH COLLAR DIN 2642···024
LAPPED FLANGES WITH COLLAR DIN 2655···025
LAPPED FLANGES WITH COLLAR DIN 2656···025
SCREWED PIPE FLANGES DIN2566·····026
BLND FLANGES DIN 2527 PN6·····027
BLND FLANGES DIN 2527 PN10·····027
BLND FLANGES DIN 2527 PN16·····028
BLND FLANGES DIN 2527 PN25·····028
BLND FLANGES DIN 2527 PN40·····029
WELDING NECK FLANGES DIN 2631·····030
WELDING NECK FLANGES DIN 2632·····031
WELDING NECK FLANGES DIN 2633·····032
WELDING NECK FLANGES DIN 2634·····033
WELDING NECK FLANGES DIN 2635·····034
WELDING NECK FLANGES DIN 2636·····035
WELDING NECK FLANGES DIN 2637·····035

FLANGES WELD ON PIPES
Nominal pressure :6kgf/cm²–ND6
DIN 2573

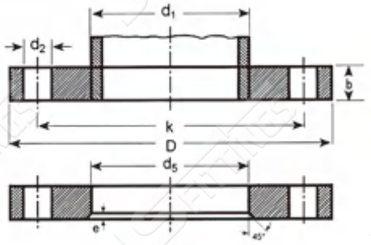
FLANGES
DUZ,BORUYA KAYNAK EDiLEN
Anma Basinc1:6kgf/cm²–ND6
TS 816/1 (TS ISO 7005–1)



BORU (Pipe)			FLANS (Flange)					CIVATALAR (Bolts)			AGIRLIK (Weight) (7.85 kg/dm³) kg
DN	d_1 1	d_1 2	d_5	D	b	e	k	Sayisi (Each)	Vida (Screw)	d_2	
10		14	14.5	75	12	5	50	4	M10	11.5	0.363
	17.2		17.7								
15		20	21	80	12	5	55	4	M10	11.5	0.410
	21.3		22								
20		25	26	90	14	5	65	4	M10	11.5	0.600
	26.9		27.6								
25		30	31	100	14	5	75	4	M10	11.5	0.740
	33.7		34.4								
32		38	39	120	16	5	90	4	M12	14	1.19
	42.4		43.1								
40		44.5	45.5	130	16	5	100	4	M12	14	1.39
	48.3		49								
50		57	58.1	140	16	6	110	4	M12	14	1.53
	60.3		61.1								
65	76.1		77.1	160	16	6	130	4	M12	14	1.89
80	88.9		90.3	190	18	7	150	4	M16	18	2.98
100		108	109.6	210	18	7	170	4	M16	18	3.46
	114.3		115.9								
125		133	134.8	240	20	7	200	8	M16	18	4.60
	139.7		141.6								
150		159	161.1	265	20	7	225	8	M16	18	5.22
	168.3		170.5								
200	219.1		221.8	320	22	7	280	8	M16	18	7.15
250		267	270.2	375	24	7	335	12	M16	18	9.61
	273		276.2								
300	323.9		327.6	440	24	7	395	12	M20	23	12.6
350	355.6		359.7	490	26	7	445	12	M20	23	15.6
		368	372.2								
400	406.4		411	540	28	7	495	16	M20	23	18.4
		419	423.7								
(450)	457		462.5	595	30	7	550	16	M20	23	21.4
500	508		513.6	645	30	7	600	20	M20	23	24.6

金盛 JIN SHENG 管件
Add:Cangzhou City,Hebei Province,China www.chinajsgj.com Tel:0311-87367207 Fax:0311-68055612

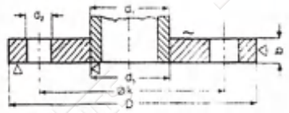
FLANGES WELD ON PIPES
Nominal pressure :10kgf/cm²–ND10
DIN 2576
FLANGES
DUZ,BORUYA KAYNAK EDiLEN
Anma Basinc1:10kgf/cm²–ND6
TS 816/2 (TS ISO 7005–1)



BORU (Pipe)			FLANS (Flange)					CIVATALAR (Bolts)			AGIRLIK (Weight) (7.85 kg/dm³) kg
DN	d_1 1	d_1 2	d_5	D	b	e	k	Sayisi (Each)	Vida (Screw)	d_2	
10		14	14.5	90	14	5	60	4	M12	14	0.613
	17.2		17.7								0.605
15		20	21	95	14	5	65	4	M12	14	0.675
	21.3		22								0.669
20		25	26	105	16	5	75	4	M12	14	0.749
	26.9		27.6								0.936
25		30	31	115	16	5	85	4	M12	14	1.14
	33.7		34.4								1.11
32		38	39	140	16	5	100	4	M16	18	1.66
	42.4		43.1								1.62
40		44.5	45.5	150	16	5	110	4	M16	18	1.89
	48.3		49								1.86
50		57	58.1	165	18	6	125	4	M16	18	2.51
	60.3		61.1								2.47
65	76.1		77.1	185	18	6	145	4	M16	18	3.00
80	88.9		90.3	200	20	7	160	4	M16	18	3.79
100		108	109.6	220	20	7	180	8	M16	18	4.20
	114.3		115.9								4.03
125		133	134.8	250	22	7	210	8	M16	18	5.71
	139.7		141.6								5.46
150		159	161.1	285	22	7	240	8	M20	23	6.72
	168.3		170.5								6.57
(175)	193.7		196.1	315	24	7	270	8	M20	23	8.45
200	219.1		221.8	340	24	7	295	8	M20	23	9.31
250		267	270.2	395	26	7	350	12	M20	23	12.5
	273		276.2								11.9
300	323.9		327.6	445	26	7	400	12	M20	23	13.8
350	355.6		359.7	505	28	7	460	16	M20	23	20.6
		368	372.2								19.0
400	406.4		411	565	32	7	515	16	M24	27	27.9
		419	423.7								25.9
(450)	457		462.5	615	38	7	565	20	M24	27	35.6
500	508		513.6	670	38	7	620	20	M24	27	41.1
600	610	–	616.5	780	40	7	725	20	M27	30	51.87
700	711	–	716	895	40	7	840	24	M27	30	65.79
800	813	–	818	1015	44	7	950	24	M30	33	90.87
900	914	–	920	1115	48	7	1050	28	M30	33	108.41
1000	1016	–	1022	1230	50	7	1160	28	M33	36	133.21
1200	1220	–	1226	1455	54	7	1380	32	M36	39	188.20
1400	1420	–	1426	1675	60	7	1590	36	M39	42	262.14
1600	1620	–	1626	1915	64	7	1820	40	M45	48	367.43
1800	1820	–	1826	2115	70	7	2020	44	M45	48	447.79
2000	2020	–	2026	2325	76	7	2230	48	M45	48	577.71
2200	2220	–	2226	2550	82	7	2440	52	M52	56	699.88
2400	2420	–	2426	2760	88	7	2650	56	M52	56	844.49
2600	2620	–	2626	2960	94	7	2850	60	M52	56	972.23
2800	2820	–	2826	3180	100	7	3070	64	M52	56	1187.1
3000	3020	–	3026	3405	106	7	3290	68	M52	56	

*Duz boruya kaynakli flanslarinND 16–ND 25 –ND 40 olarak imalati yapilmaktadir.

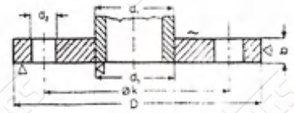
DIN2502
PN16



TUBO				BRIDA		TORNILLOS				PESO UNIDAD (7,85kg/dm³) kg.
DN	d_1 ISO	d_1 DIN	d_5	D	b	k	CANT.	ROSCA	d_2	
10 a 175	Los diametros nominales de 10 a 175, son iguales que la tabla DIN 2576									
10		14	14.5	90	14	60	4	M12	14	0.613
	17.2		17.7							0.605
15		20	21	95	14	65	4	M12	14	0.675
	21.3		22							0.669
20		25	26	105	16	75	4	M12	14	0.749
	26.9		27.6							0.936
25		30	31	115	16	85	4	M12	14	1.14
	33.7		34.4							1.11
32		38	39	140	16	100	4	M16	18	1.66
	42.4		43.1							1.62
40		44.5	45.5	150	16	110	4	M16	18	1.89
	48.3		49							1.86
50		57	58.1	165	18	125	4	M16	18	2.51
	60.3		61.1							2.47
65	76.1		77.1	185	18	145	4	M16	18	3.00
80	88.9	–	90.3	200	20	160	8	M16	18	3.79
100		108	109.6	220	20	180	8	M16	18	4.20
	114.3		115.9							4.03
125		133	134.8	250	22	210	8	M16	18	5.71
	139.7		141.6							5.46
150		159	161.1	285	22	240	8	M20	23	6.72
	168.3		170.5							6.57
175	193.7		196.1	315	24	270	8	M20	23	8.45
200	219.1	216	221.8	340	24	295	12	M20	23	9.2
250	–	267	270.2	405	26	355	12	M24	27	13.4
	273	–	276.2							
300	323.9	318	327.6	460	28	410	12	M24	27	17.4
350	355.6	–	359.7	520	30	470	16	M24	27	26.6
	–	368	372.2							
400	406.4	–	411	580	32	525	16	M27	30	30.9
	–	419	423.7							
500	508	521	513.6	715	38	650	20	M30	33	54.0
600	610	622	616.5	840	42	770	20	M33	36	77.58
700	711	720	716	910	44	840	24	M33	36	77.13
800	813	820	818	1.025	50	950	24	M36	39	106.35
900	914	920	920	1.125	54	1.050	28	M36	39	125.39
1.000	1.016	1020	1.022	1.255	60	1.170	28	M39	42	177.99
1.200	1.220	–	1.226	1.485	68	1.390	32	M45	48	263.46
1.400	1.420	–	1.426	1.685	74	1.590	36	M45	48	329.77
1.600	1.620	–	1.626	1.930	82	1.820	40	M52	56	483.11
1.800	1.820	–	1.826	2.130	88	2.020	44	M52	56	577.63
2.000	3.020	–	2.026	2.345	94	2.230	48	M56	62	720.85

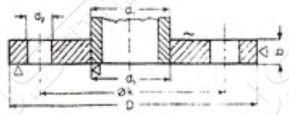
金盛 JIN SHENG 管件
Add:Cangzhou City,Hebei Province,China www.chinajsgj.com Tel:0311-87367207 Fax:0311-68055612

DIN2503
PN25



TUBO			BRIDA				TORNILLOS			PESO UNIDAD (7,85kg/dm³) kg.
DN	d_1 ISO	d_1 DIN	d_5	D	b	k	CANT.	ROSCA	d_2	
10 a 150	Los diametros nominales de 10 a 150, son iguales que la tabla de Presion Nominal 40									
15		20	21	95	16	65	4	M12	14	0.77
	21.3		22							
20		25	26	105	18	75	4	M12	14	1
	26.9		27.6							
25		30	31	115	18	85	4	M12	14	1.28
	33.7		34.4							
32		38	39	140	18	100	4	M16	18	1.87
	42.4		43.1							
40		44.5	45.5	150	18	110	4	M16	18	2.13
	48.3		49							
50		57	58.1	165	20	125	4	M16	18	2.79
	60.3		61.1							
65	76.1		77.1	185	22	145	8	M16	18	3.48
80	88.9		90.3	200	24	160	8	M16	18	4.35
100		108	109.6	235	24	190	8	M20	22	5.78
	114.3		115.9							
125		133	134.8	270	26	220	8	M24	26	7.87
	139.7		141.6							
150		159	161.1	300	28	250	8	M24	26	10.1
	168.3		170.5							
(175)	193.7	–	196.1	330	28	280	12	M24	26	11.0
200	219.1	–	221.8	360	30	310	12	M24	26	13.6
250	–	267	270.2	425	32	370	12	M27	30	19.4
	273	–	276.2							
300	323.9	–	327.6	485	34	430	16	M27	30	25.0
350	355.6	–	359.7	555	38	490	16	M30	33	38.2
	–	368	372.2							
400	406.4	–	411	620	40	550	16	M33	36	48.8
	–	419	423.7							
500	508	–	513.6	730	44	660	20	M33	36	67.2
600	610	–	616.5	845	50	770	20	M36	39	93.57
700	711	–	716	960	52	875	24	M39	42	117.53
800	813	–	818	1085	56	990	24	M45	48	156.31
900	914	–	920	1185	62	1090	28	M45	48	188.57
1000	1016	–	1022	1320	68	1210	28	M52	56	255.79
1200	1220	–	1226	1530	76	1420	32	M52	56	345.56
1400	1420	–	1426	1755	86	1640	36	M56	62	481.53
1600	1620	–	1626	1975	96	1860	40	M56	62	652.83
1800	1820	–	1826	2185	104	2070	44	M64	70	800.15

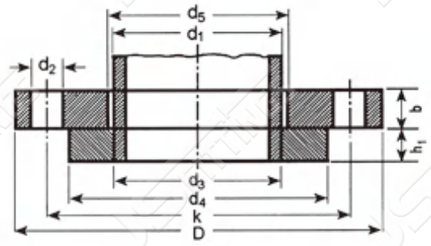
DIN2503
PN40



TUBO			BRIDA				TORNILLOS			PESO UNIDAD (7,85kg/dm³) kg.
DN	d_1 ISO	d_1 DIN	d_5	D	b	k	CANT.	ROSCA	d_2	
15		20	21	95	16	65	4	M12	14	0.77
	21.3		22							
20		25	26	105	18	75	4	M12	14	1
	26.9		27.6							
25		30	31	115	18	85	4	M12	14	1.28
	33.7		34.4							
32		38	39	140	18	100	4	M16	18	1.87
	42.4		43.1							
40		44.5	45.5	150	18	110	4	M16	18	2.13
	48.3		49							
50		57	58.1	165	20	125	4	M16	18	2.79
	60.3		61.1							
65	76.1		77.1	185	22	145	8	M16	18	3.48
80	88.9		90.3	200	24	160	8	M16	18	4.35
100		108	109.6	235	24	190	8	M20	22	5.78
	114.3		115.9							
125		133	134.8	270	26	220	8	M24	26	7.87
	139.7		141.6							
150		159	161.1	300	28	250	8	M24	26	10.1
	168.3		170.5							
200	219.1		221.8	375	34	320	12	M27	30	17.4
250		267	270.2	450	38	385	12	M30	33	27.6
	273		276.2							
300	323.9		327.6	515	42	450	16	M30	33	37.8
350	355.6		359.7	580	46	510	16	M33	36	53.4
		368	372.2							
400	406.4		411	660	50	585	16	M36	39	75.4
		419	423.7							
500	508		513.6	755	52	670	20	M39	42	88.3

金盛 JIN SHENG 管件
Add:Cangzhou City,Hebei Province,China www.chinajsgj.com Tel:0311-87367207 Fax:0311-68055612

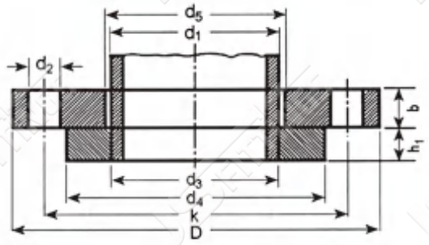
LAPPED FALNGES WITH COLLAR
Nominal Pressure :10kgf/cm²–ND10
DIN 2642
FLANGES
BORULARICIN,DESTEKLIGEVSEK
Anma Basinc1:10kgf/cm²–ND10
TS 814/2 (TS ISO 7005–1)



BORU (Pipe)			FLANS (Flange)			CIVATALAR (Bolts)			DESTEK (Beam)			AGIRLIK(Weight) 7.85 kg/dm³	
DN	d_1	D	d_5	b	k	Sayisi (Each)	Vida (Screw)	d_2	d_3	d_4	h_1	Flans (flange)kg	Destek (Beam)kg
10	14	90	16	14	60	4	M12	14	17.7	40	10	0.599	0.087
	17.2		19										
15	20	95	22	14	65	4	M12	14	22	45	10	0.689	0.105
	21.3		24										
20	25	105	28	14	75	4	M12	14	27.6	58	12	0.806	0.203
	26.9		30										
25	30	115	33	16	85	4	M12	14	34.4	68	12	1.11	0.276
	33.7		36										
32	38	140	42	16	100	4	M16	18	43.1	78	12	1.64	0.343
	42.4		46										
40	44.5	150	50	16	110	4	M16	18	49	88	12	1.86	0.426
	48.3		54										
50	57	165	62	16	125	4	M16	18	61.1	102	14	2.20	0.618
	60.3		65										
65	76.1	185	81	16	145	4	M16	18	77.1	122	14	2.62	0.786
80	88.9	200	94	18	160	4/8	M16	18	90.3	138	16	3.32	1.10
100	108	220	113	18	180	8	M16	18	115.9	158	16	3.67	1.31
	114.3		119										
125	133	250	138	18	210	8	M16	18	141.6	188	18	4.54	1.96
	139.7		145										
150	168.3	285	173	18	240	8	M20	22	170.5	212	18	5.60	2.18
200	219.1	340	225	20	295	8	M20	22	221.8	268	20	7.46	3.10
250	273	395	279	22	350	12	M20	22	276.2	320	22	10.3	4.22
300	323.9	445	329	26	400	12	M20	22	327.6	370	22	14.0	4.85
350	355.6	505	362	28	460	16	M20	22	372.2	430	22	18.5	6.71
400	406.4	565	413	32	515	16	M24	26	423.7	482	24	25.0	8.28
(450)	457	615	467	38	565	20	M24	26	462.5	532	24	30.6	9.3
500	508	670	517	38	620	20	M24	26	513.6	585	26	37.0	11.5
600	610	780	618	44	725	20	M27	30	616.6	685	26	56.3	15.6
700	711	895	721	50	840	24	M27	30	718.6	800	28	80.4	23.2
800	813	1015	824	56	950	24	M30	33	821.5	905	30	113.2	29.2

LAPPED FALNGES WITH COLLAR
Nominal Pressure :25kgf/cm²–ND25
DIN 2655

FLANGES
BORULARICIN,DESTEKLIGEVSEK
Anma Basinc1:25kgf/cm²–ND25
TS 814/4 (TS ISO 7005–1)



BORU (Pipe)		FLANS (Flange)				CIVATALAR (Bolts)			DESTEK (Beam)			AGIRLIK(Weight) 7.85 kg/dm³	
DN	d_1	D	d_5	b	k	Sayisi (Each)	Vida (Screw)	d_2	d_3	d_4	h_1	Flans (flange) kg	Destek (Beam) kg
10 150	17.2 168.3	Degerler DIN 2656 (40 kgf/cm²) den alinmalidir											
200	219.1	360	225	26	310	12	M24	26	221.8	278	24	11.7	4.53
250	273	425	279	30	370	12	M27	30	276.2	335	26	17.9	6.56
300	323.9	485	329	34	430	16	M27	30	327.6	395	28	24.7	8.80
350	355.6	555	362	38	490	16	M30	33	359.2	450	32	37.38	13.2
400	406.4	620	414	42	550	16	M33	36	411	505	34	50	16.5
500	508	730	517	50	660	20	M33	36	513.6	615	38	73.89	25.3

LAPPED FALNGES WITH COLLAR
Nominal Pressure :40kgf/cm²–ND40
DIN 2656

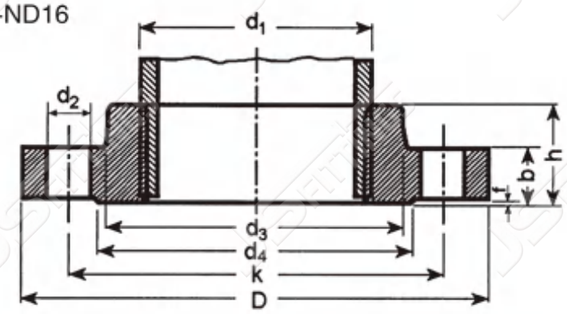
FLANGES
BORULARICIN,DESTEKLI GEVSEK
Anma Basinc1:40kgf/cm²–ND40
TS 814/5 (TS ISO 7005–1)

BORU (Pipe)		FLANS (Flange)				CIVATALAR (Bolts)			DESTEK (Bean)			AGIRLIK(Weight) 7.85 kg/dm³	
DN	d_1	D	d_5	b	k	Sayisi (Each)	Vida (Screw)	d_2	d_3	d_4	h_1	Flans (flange)kg	Destek (Beam)kg
10	17.2	90	19	16	60	4	M12	14	17.7	40	12	0.696	0.104
15	21.3	95	24	16	65	4	M12	14	22	45	12	0.773	0.126
20	26.9	105	30	16	75	4	M12	14	27.6	58	14	0.934	0.236
25	33.7	115	36	18	85	4	M12	14	34.4	68	14	1.26	0.321
32	42.4	140	46	18	100	4	M16	18	43.1	78	14	1.85	0.401
40	48.3	150	54	18	110	4	M16	18	49	83	14	2.10	0.498
50	60.3	165	65	20	125	4	M16	18	61.1	102	16	2.75	0.706
65	76.1	185	81	20	145	8	M16	18	77.1	122	16	3.11	0.898
80	88.9	200	94	22	160	8	M16	18	90.3	138	18	3.88	1.23
100	114.3	235	119	22	190	8	M20	22	115.9	162	20	5.23	1.80
125	139.7	270	145	24	220	8	M24	26	141.6	188	22	7.23	2.40
150	168.3	300	173	24	250	8	M24	26	170.5	218	22	8.60	3.02
200	219.1	375	225	30	320	12	M27	30	221.8	285	26	15.2	5.54
250	273	450	279	36	385	12	M30	33	276.2	345	30	25.7	8.83
300	323.9	515	329	40	450	16	M30	33	327.6	410	34	34.42	14.0
350	355.6	580	362	46	510	16	M33	36	359.2	465	38	52.36	18.9
400	406.4	660	414	50	585	16	M36	39	411	535	42	74.2	28.4

金盛 JIN SHENG 管件
Add:Cangzhou City,Hebei Province,China www.chinajsgj.com Tel:0311-87367207 Fax:0311-68055612

SCREWED PIPE FLANGES
Nominal Pressure :10 and 16kgf/cm²–ND10–ND16
DIN 2566

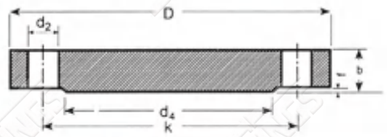
FLANGES
BORULARICIN,VIDALI
Anma Basinc1:10ve 16kgf/cm²–ND10–ND16
TS 813 (TS ISO 7005–1)



BORU (Pipe)		FLANS (Flange)					BOYUN (Neck)	ALINCIKINTISI (Raised face)		CIVATALAR (Bolts)			FLANS AGIRLIGI (Flange weight) (7.85 kg/dm³) kg
DN	d_1	Boru Vidasi (Whitwort)	D	b	k	h	d_3	d_4	f	Sayisi Each	Vida Screw	d_2	
6	10.2	R1/8"	75	12	50	18	20	32	2	4	M10	11	0.326
8	13.5	R1/14"	80	12	55	18	25	38	2	4	M10	11	0.380
10	17.2	R3/8"	90	14	60	20	30	40	2	4	M12	14	0.544
15	21.3	R1/2"	95	14	65	20	35	45	2	4	M12	14	0.613
20	26.9	R3/4"	105	16	75	24	45	58	2	4	M12	14	0.910
25	33.7	R1"	115	16	85	24	52	68	2	4	M12	14	1.20
32	42.4	R11/4"	140	16	100	26	60	78	2	4	M16	18	1.60
40	48.3	R11/2"	150	16	110	26	70	88	3	4	M16	18	1.78
50	60.3	R2"	165	18	125	28	85	102	3	4	M16	18	2.43
65	76.1	R21/2"	185	18	145	32	105	122	3	4	M16	18	3.18
80	88.9	R3"	200	20	160	34	118	138	3	4/8	M16	18	4.12
100	114.3	R4"	220	20	180	38	140	158	3	8	M16	18	4.47
125	139.7	R5"	250	22	210	40	168	188	3	8	M16	18	6.13
150	165.1	R6"	285	22	240	44	195	212	3	8	M20	23	7.92

*Siparse gore galvanizli olarak imal edilebilir.

BLIND FLANGES
Nominal Pressure :6kgf/cm²–ND6
DIN 2527
KOR FLANS
Anma Basinc1:6kgf/cm²–ND6
(TS ISO 7005–1)



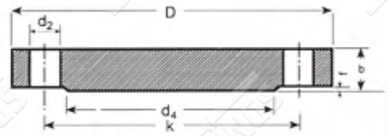
BORU (Pipe) DN	D	b	k	ALINCIKINTISI (Raised face)		DELIKLER (Drilling)			AGIRLIK (Weight) kg
				d_4	f	Sayisi (Each)	Vida (Screw)	d_2	
10	75	12	50	35	2	4	M10	11.5	0.38
15	80	12	55	40	2	4	M10	11.5	0.44
20	90	14	65	50	2	4	M10	11.5	0.654
25	100	14	75	60	2	4	M10	11.5	0.82
32	120	14	90	70	2	4	M12	14	1.176
40	130	14	100	80	3	4	M12	14	1.392
50	140	14	110	90	3	4	M12	14	1.63
65	160	14	130	110	3	4	M12	14	2.48
80	190	16	150	128	3	4	M16	18	3.49
100	210	16	170	148	3	4	M16	18	4.86
125	240	18	200	178	3	8	M16	18	6.28
150	265	18	225	202	3	8	M16	18	7.75
175	295	20	255	230	3	8	M16	18	10.7
200	320	20	280	258	3	8	M16	18	12.7
250	375	22	335	312	3	12	M16	18	19.0
300	440	22	395	365	4	12	M20	23	26.3
350	490	22	445	415	4	12	M20	23	32.9
400	540	22	495	455	4	16	M20	23	40.2
500	645	24	600	570	4	20	M20	23	63.2
600	755	28	705	670	5	20	M24	27	96.07
700	860	30	810	775	5	24	M24	27	133.8
800	975	32	920	880	5	24	M27	30	183.29
900	1075	36	1020	980	5	24	M27	30	251.7
1000	1175	42	1120	1080	5	28	M27	30	350.98

BLIND FLANGES
Nominal Pressure :10kgf/cm²–ND10
KOR FLANS
Anma Basinc1:10kgf/cm²–ND10
(TS ISO 7005–1)

BORU (Pipe) DN	D	b	k	ALINCIKINTISI (Raised face)		DELIKLER (Drilling)			AGIRLIK (Weight) kg
				d_4	f	Sayisi (Each)	Vida (Screw)	d_2	
10 175	10 ile 175 arasindaki degerler ND 16 'dan alinmalidir.								
200	340	24	295	268	3	8	M20	23	16.9
250	395	26	350	320	3	12	M20	23	24.7
300	445	26	400	370	4	12	M20	23	31.9
350	505	26	460	430	4	16	M20	23	41.9
400	565	26	515	482	4	16	M24	27	51.2
500	670	28	620	585	4	20	M24	27	77.8
600	780	30	725	685	5	20	M27	30	109.2
700	895	32	840	800	5	24	M27	30	153.77
800	1015	36	950	905	5	24	M30	33	222.86
900	1115	40	1050	1005	5	24	M30	33	299.08
1000	1230	46	1160	1110	5	28	M33	36	418.78

金盛 JIN SHENG 管件
Add:Cangzhou City,Hebei Province,China www.chinajsgj.com Tel:0311-87367207 Fax:0311-68055612

BLIND FLANGES
Nominal Pressure :16kgf/cm²–ND16
DIN 2527
KOR FLANS
Anma Basinc1:16kgf/cm²–ND16
(TS ISO 7005–1)

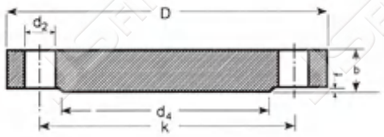


BORU (Pipe) DN	D	b	k	ALINCIKINTISI (Raised face)		DELIKLER (Drilling)			AGIRLIK (Weight) kg
				d_4	f	Sayisi (Each)	Vida (Screw)	d_2	
10	90	14	60	40	2	4	M12	14	0.63
15	95	14	65	45	2	4	M12	14	0.72
20	105	16	75	58	2	4	M12	14	1.01
25	115	16	85	68	2	4	M12	14	1.23
32	140	16	100	78	2	4	M16	18	1.80
40	150	16	110	88	3	4	M16	18	2.09
50	165	18	125	102	3	4	M16	18	2.88
65	185	18	145	122	3	4	M16	18	3.66
80	200	20	160	138	3	8	M16	18	4.77
100	220	20	180	158	3	8	M16	18	5.65
125	250	22	210	188	3	8	M16	18	8.42
150	285	22	240	212	3	8	M20	23	10.4
(175)	315	24	270	242	3	8	M20	23	14.0
200	340	24	295	268	3	12	M20	23	16.1
250	405	26	355	320	3	12	M24	27	24.9
300	460	28	410	378	4	12	M24	27	35.1
350	520	30	470	438	4	16	M24	27	47.8
400	580	32	525	490	4	16	M27	30	63.5
500	715	34	650	610	4	20	M30	33	102
600	840	36	770	725	5	20	M33	36	149.7
700	910	36	840	795	5	24	M33	36	173.7
800	1025	38	950	900	5	24	M36	39	235.5
900	1125	40	1050	1000	5	28	M36	39	298.8
1000	1255	42	1170	1115	5	28	M39	42	390.7
1200	1485	48	1390	1330	5	32	M45	48	624.8
1400	1685	52	1590	1530	5	36	M45	48	872.6
1600	1930	58	1820	1750	5	40	M52	56	1275.1
1800	2130	62	2020	1950	5	44	M52	56	1661.9
2000	2345	66	2230	2150	5	48	M56	62	2142.1

BLIND FLANGES
Nominal Pressure :25kgf/cm²–ND25
DIN 2527
KOR FLANS
Anma Basinc1:25kgf/cm²–ND25
(TS ISO 7005–1)

BORU (Pipe) DN	D	b	k	ALINCIKINTISI (Raised face)		DELIKLER (Drilling)			AGIRLIK (Weight) kg
				d_4	f	Sayisi (Each)	Vida (Screw)	d_2	
10 150	Anma basinci 40 kgf/cm² olan olculerden alinmalidir.								
(175)	330	28	280	248	3	12	M24	27	17.6
200	360	30	310	278	3	12	M24	27	22.7
250	425	32	370	335	3	12	M27	30	34.5
300	485	34	430	395	4	16	M27	30	47.3
350	555	38	490	450	4	16	M30	33	69.3
400	620	40	550	505	4	16	M33	36	91.5
500	730	44	660	615	4	20	M33	36	141
600	845	48	770	720	5	20	M36	39	202.3
700	960	50	875	820	5	24	M39	42	271.05
800	1085	54	990	930	5	24	M45	48	373.52
900	1185	58	1090	1030	5	28	M45	48	479.07
1000	1320	62	1210	1140	5	28	M52	56	632.47

BLIND FLANGE
Nominal Pressure :40kgf/cm²–ND40
DIN 2527
KOR FLANS
Anma Basinc1:40kgf/cm²–ND40
(TS ISO 7005–1)

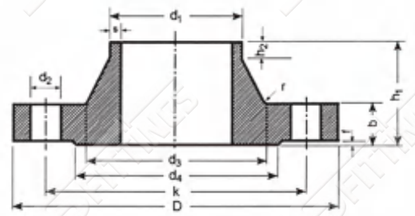


BORU (Pipe) DN	D	b	k	ALINCIKINTISI (Raised face)		DELIKLER (Drilling)			AGIRLIK (Weight) kg
				d_4	f	Sayisi (Each)	Vida (Screw)	d_2	
10	90	16	60	40	2	4	M12	14	0.722
15	95	16	65	45	2	4	M12	14	0.813
20	105	18	75	58	2	4	M12	14	1.137
25	115	18	85	68	2	4	M12	14	1.382
32	140	18	100	78	2	4	M16	18	2.033
40	150	18	110	88	3	4	M16	18	2.355
50	165	20	125	102	3	4	M16	18	3.2
65	185	22	145	122	3	8	M16	18	4.33
80	200	24	160	138	3	8	M16	18	5.94
100	235	24	190	162	3	8	M20	23	7.64
125	270	26	220	188	3	8	M24	27	11.0
150	300	28	250	218	3	8	M24	27	14.7
(175)	350	32	295	260	3	12	M27	30	22.4
200	375	34	320	285	3	12	M27	30	27.6
250	450	38	385	345	3	12	M30	33	44.5
300	515	42	450	410	4	16	M30	33	64.3
350	580	46	510	460	4	16	M33	36	90.8
400	660	50	585	535	4	16	M36	39	129
500	755	56	670	615	4	20	M39	42	175
600	890	62	795	733	5	20	M45	48	285.17
700	995	64	900	838	5	24	M45	48	368.83
800	1140	70	1030	960	5	24	M52	56	528.39
900	1250	76	1140	1070	5	28	M52	56	690.99
1000	1360	84	1250	1180	5	28	M52	56	912.42

*Kor Flansların ND 64 ve DN100 normlarininda imalatl yapilmaktadir

金盛 JIN SHENG 管件
Add:Cangzhou City,Hebei Province,China www.chinajsgj.com Tel:0311-87367207 Fax:0311-68055612

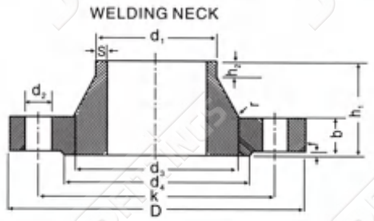
WELDING NECK FLANGES
Nominal Pressure :6kgf/cm²–ND6
DIN 2631
FLANSLAR
BORULAR ICIN, BOYUNLARI KAYNAKLI
Anma Basinc1:6kgf/cm²–ND6
TS 811/2 (TS ISO 7005–1)



BORU (Pipe)		FLANS (Flange)				BOYUN (Neck)				ALINCIKINTEIE (Raised face)		CIVATALAR (Bolts)			FLANS AGIRLEK (Weight) (7.85 kg/dm³) kg
DN	d_1 ISO/DIN	D	b	k	h_1	d_3	s	r	h_2	d_4	f	Sayisi (Each)	Vida (Screw)	d_2	
15	20 21.3	80	12	55	30	28 30	2	4	6	40	2	4		11	0.392
20	25 26.9	90	14	65	32	35 38	2.3	4	6	50	2	4		11	0.592
25	30 33.7	100	14	75	35	40 42	2.6	4	6	60	2	4		11	0.747
32	38 42.4	120	14	90	35	50 55	2.6	6	6	70	2	4		14	1.05
40	44.5 48.3	130	14	100	38	58 62	2.6	6	7	80	3	4		14	1.18
50	57 60.3	140	14	110	38	70 74	2.9	6	8	90	3	4		14	1.34
65	76.1	160	14	130	38	88	2.9	6	9	110	3	4		14	1.67
80	88.9	190	16	150	42	102	3.2	8	10	128	3	4		18	2.71
100	108 114.3	210	16	170	45	122 130	3.6	8	10	148	3	4		18	3.24
125	133 139.7	240	18	200	48	148 155	4	8	10	178	3	8		18	4.49
150	159 168.3	265	18	225	48	172 184	4.5	10	12	202	3	8		18	5.15
200	219.1	320	20	280	55	236	5.9	10	15	258	3	8		18	7.78
250	267 273	375	22	335	60	282 290	6.3	12	15	312	3	12		18	10.8
300	323.9	440	22	395	62	342	7.1	12	15	365	4	12		22	14
350	355.6 368	490	22	445	62	385	7.1	12	15	415	4	12		22	16.7
400	406.4 419	540	22	495	65	438	7.1	12	15	455	4	16		22	19
500	508	645	24	600	68	538	7.1	12	15	570	4	20		22	28.6
600	610	755	24	705	70	640	7.1	12	16	670	5	20	M24	26	31.5
700	711	860	24	810	70	740	7.1	12	16	775	5	24	M24	26	37.4
800	813	975	24	920	70	842	7.1	12	16	880	5	24	M27	30	46.1
900	914	1075	26	1020	70	942	7.1	12	16	980	5	24	M27	30	55.6
1000	1016	1175	26	1120	70	1045	7.1	16	16	1080	5	28	M27	30	61.9
1200	1220	1405	28	1340	90	1248	8	16	20	1295	5	32	M30	33	100
1400	1420	1630	32	1560	90	1452	8	16	20	1510	5	36	M33	36	149
1600	1620	1830	34	1760	90	1655	9	16	20	1710	5	40	M33	36	180
1800	1820	2045	36	1970	100	1855	10	16	20	1920	5	44	M36	39	225
2000	2020	2265	38	2180	110	2058	11	16	25	2125	5	48	M39	42	295
2200	2220	2475	42	2390	115	2260	12	18	25	2335	6	52	M39	42	361
2400	2420	2685	44	2600	125	2462	13	18	25	2545	6	56	M39	42	415
2600	2620	2905	46	2810	130	2665	14	18	25	2750	6	60	M45	48	530
2800	2820	3115	48	3020	135	2865	15	18	30	2960	6	64	M45	48	643
3000	3020	3315	50	3220	140	3068	16	18	30	3160	6	68	M45	48	777
3200	3220	3525	54	3430	150	3272	16	20	30	3370	6	72	M45	48	851
3400	3420	3735	56	3640	160	3475	18	20	35	3580	6	76	M45	48	993
3600	3620	3970	60	3860	165	3678	18	20	35	3790	6	80	M52	56	1001

DIN 10Bar

DIN 2632 Welding Neck Flange

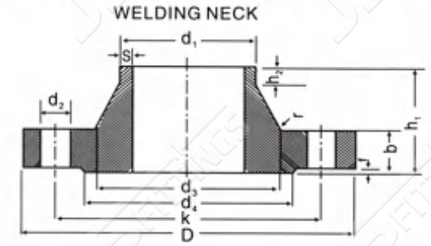


BORE		COMMON DIMENSION			HUB					RAISED FACE		DRILLING		Approx. Weight(kg)
DN	d_1	D	b	k	h_1	d_3	s	r	h_2	d4	f	Number of Bolt	d_2	DIN 2632
10	14 17.2	90	14	60	35	25 28	1.8	4	6	40	2	4	14	0.58
15	20 21.3	95	14	65	35	30 32	2	4	6	45	2	4	14	0.648
20	25 26.9	105	16	75	38	38 40	2.3	4	6	58	2	4	14	0.952
25	30 33.7	115	16	85	38	42 45	2.6	4	6	68	2	4	14	1.14
32	38 42.4	140	16	100	40	52 56	2.6	6	6	78	2	4	18	1.69
40	44.5 48.3	150	16	110	42	60 64	2.6	6	7	88	3	4	18	1.86
50	57 60.3	165	18	125	45	72 75	2.9	6	8	102	3	4	18	2.53
65	76.1	185	18	145	45	90	2.9	6	10	122	3	4	18	3.06
80	88.9	200	20	160	50	105	3.2	8	10	138	3	8	18	3.7
100	108 114.3	220	20	180	52	125 131	3.6	8	12	158	3	8	18	4.62
125	133 139.7	250	22	210	55	150 156	4	8	12	188	3	8	18	6.3
150	159 168.3	285	22	240	55	175 184	4.5	10	12	212	3	8	22	7.75
175	193.7	315	24	270	60	210	5.4	10	12	242	3	8	22	9.85
200	219.1	340	24	295	62	235	5.9	10	16	268	3	8	22	11.3
250	267 273	395	26	350	68	285 292	6.3	12	16	320	3	12	22	14.7
300	323.9	445	26	400	68	344	7.1	12	16	370	4	12	22	17.4
350	355.6 368	505	26	460	68	385	7.1	12	16	430	4	16	22	21.6
400	406.4 419	565	26	515	72	440	7.1	12	16	482	4	16	26	26.2
500	508	670	28	620	75	542	7.1	12	16	585	4	20	26	38.1
600	610	780	28	725	80	642	7.1	12	18	685	5	20	30	44.6
700	711	895	30	840	80	745	8	12	18	800	5	24	30	62.4
800	813	1015	32	950	90	850	8	12	18	905	5	24	33	84.1
900	914	1115	34	1050	95	950	10	12	20	1005	5	28	33	98.5
1000	1016	1230	34	1160	95	1052	10	16	20	1110	5	28	36	115
1200	1220	1455	38	1380	115	1255	11	16	25	1330	5	32	39	182
1400	1420	1675	42	1590	120	1460	12	16	25	1535	5	36	42	248
1600	1620	1915	46	1820	130	1665	14	16	25	1760	5	40	48	347
1800	1820	2115	50	2020	140	1868	15	16	30	1960	5	44	48	430
2000	2020	2325	54	2230	150	2072	16	16	30	2170	5	48	48	539
2200	2220	2550	58	2440	160	2275	18	18	35	2370	6	52	56	658
2400	2420	2760	62	2650	170	2478	20	18	35	2570	6	56	56	825
2600	2620	2960	66	2850	180	2680	22	18	40	2780	6	60	56	979
2800	2820	3180	70	3070	190	2882	22	18	40	3000	6	64	56	1156
3000	3020	3405	75	3290	200	3085	24	18	45	3210	6	68	62	1420

金盛 JIN SHENG 管件
Add:Cangzhou City,Hebei Province,China www.chinajsgj.com Tel:0311-87367207 Fax:0311-68055612

DIN 16Bar

DIN 2633 Welding Neck Flange

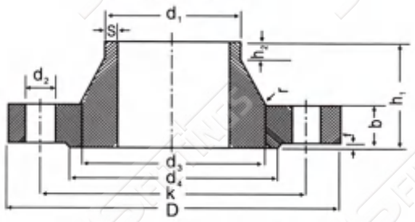


BORE		COMMON DIMENSION			HUB					RAISED FACE		DRILLING		Approx. Weight(kg)
DN	d_1	D	b	k	h_1	d_3	s	r	h_2	d_4	f	Number of Bolt	d_2	DIN 2633
10	14 17.2	90	14	60	35	25 28	1.8	4	6	40	2	4	14	0.58
15	20 21.3	95	14	65	35	30 32	2	4	6	45	2	4	14	0.648
20	25 26.9	105	16	75	38	38 40	2.3	4	6	58	2	4	14	0.952
25	30 33.7	115	16	85	38	42 45	2.6	4	6	68	2	4	14	1.14
32	38 42.4	140	16	100	40	52 56	2.6	6	6	78	2	4	18	1.69
40	44.5 48.3	150	16	110	42	60 64	2.6	6	7	88	3	4	18	1.86
50	57 60.3	165	18	125	45	72 75	2.9	6	8	102	3	4	18	2.53
65	76.1	185	18	145	45	90	2.9	6	10	122	3	4	18	3.06
80	88.9	200	20	160	50	105	3.2	8	10	138	3	8	18	3.7
100	108 114.3	220	20	180	52	125 131	3.6	8	12	158	3	8	18	4.62
125	133 139.7	250	22	210	55	150 156	4	8	12	188	3	8	18	6.3
150	159 168.3	285	22	240	55	175 184	4.5	10	12	212	3	8	22	7.75
175	193.7	315	24	270	60	210	5.4	10	12	242	3	8	22	9.85
200	219.1	340	24	295	62	235	5.9	10	16	268	3	12	22	11
250	267 273	405	26	355	70	285 292	6.3	12	16	320	3	12	26	15.6
300	323.9	460	28	410	78	344	7.1	12	16	378	4	12	26	22
350	355.6 368	520	30	470	82	390	8	12	16	438	4	16	26	28.8
400	406.4 419	580	32	525	85	445	8	12	16	490	4	16	30	36.3
500	508	715	34	650	90	548	8	12	16	610	4	20	33	61
600	610	840	36	770	95	652	8.8	12	18	725	5	20	36	75.4
700	711	910	36	840	100	755	8.8	12	18	795	5	24	36	77
800	813	1025	38	950	105	855	10	12	20	900	5	24	39	101
900	914	1125	40	1050	110	955	10	12	20	1000	5	28	39	122
1000	1016	1255	42	1170	120	1058	10	16	22	1115	5	28	42	162
1200	1220	1485	48	1390	130	1262	12.5	16	30	1330	5	32	48	243
1400	1420	1685	52	1590	145	1465	14.2	16	30	1530	5	36	48	323
1600	1620	1930	58	1820	160	1668	16	16	35	1750	5	40	56	479
1800	1820	2130	62	2020	170	1870	17.5	16	35	1950	5	44	56	599
2000	2020	2345	66	2230	180	2072	20	16	40	2150	5	48	62	719

DIN 25Bar

DIN 2634 Welding Neck Flange

WELDING NECK

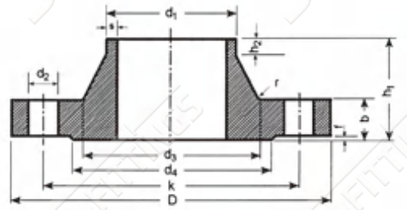


BORE		COMMON DIMENSION			HUB					RAISED FACE		DRILLING		Approx. Weight(kg)
DN	d_1	D	b	k	h_1	d_3	s	r	h_2	d_4	f	Number of Bolt	d_2	DIN 2634
10	14 17.2	90	16	60	35	25 28	1.8	4	6	40	2	4	14	0.661
15	20 21.3	95	16	65	38	30 32	2	4	6	45	2	4	14	0.746
20	25 26.9	105	18	75	40	38 40	2.3	4	6	58	2	4	14	1.06
25	30 33.7	115	18	85	40	42 46	2.6	4	6	68	2	4	14	1.29
32	38 42.4	140	18	100	42	52 56	2.6	6	6	78	2	4	18	1.88
40	44.5 48.3	150	18	110	45	60 64	2.6	6	7	88	3	4	18	2.33
50	57 60.3	165	20	125	48	72 75	2.9	6	8	102	3	4	18	2.82
65	76.1	185	22	145	52	90	2.9	6	10	122	3	8	18	3.74
80	88.9	200	24	160	58	105	3.2	8	12	138	3	8	18	4.75
100	108 114.3	235	24	190	65	128 134	3.6	8	12	162	3	8	22	6.52
125	133 139.7	270	26	220	68	155 162	4	8	12	188	3	8	26	9.07
150	159 168.3	300	28	250	75	182 192	4.5	10	12	218	3	8	26	11.8
175	191 193.7	330	28	280	75	215 218	5.6	10	15	248	3	12	26	13.4
200	216 219.1	360	30	310	80	240 244	6.3	10	16	278	3	12	26	17
250	267 273	425	32	370	88	292 298	7.1	12	18	335	3	12	30	24.4
300	318 323.9	485	34	430	92	345 352	8	12	18	395	4	16	30	31.2
350	355.6 368	555	38	490	100	398	8	12	20	450	4	16	33	47.2 44.2
400	406.4 419	620	40	550	110	452	8.8	12	20	505	4	16	36	61.7 57.9
500	508	730	44	660	125	558	10	12	20	615	4	20	36	89.6
600	610	845	46	770	125	660	11	12	20	720	5	20	39	104
700	711	960	46	875	125	760	12.5	12	20	820	5	24	42	136
800	813	1085	50	990	135	865	14.2	12	22	930	5	24	48	186
900	914	1185	54	1090	145	968	16	12	24	1030	5	28	48	236
1000	1016	1320	58	1210	155	1070	17.5	16	24	1140	5	28	56	307

金盛 JIN SHENG 管件
Add:Cangzhou City,Hebei Province,China www.chinajsgj.com Tel:0311-87367207 Fax:0311-68055612

WELDENG NICK FLANGES
Nominal Pressure :40kgf/cm²-ND40
DIN 2635

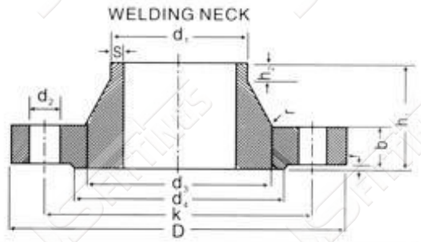
FLANSLAR
BORULAR ICIN, BOYUNLARI KAYNAKLI
Anma Basinc1:40kgf/cm²-ND40
TS 811/6 (TS ISO 7005-1)



BORU (Pipe)		FLANS (Flange)				BOYUN (Neck)				ALIN CIKINTISI (Raised face)		CIVATALAR (Bolts)			FLANS AGIRLIGI (FlangeWeight) (7.85 kg/dm³) kg
DN	d_1 ISO/DIN	D	b	k	h_1	d_3	s	r	h_2	d_4	f	Sayisi Each	Vida Screw	d_2	
10	14 17.2	90	16	60	35	25 28	1.8	4	6	40	2	4	M12	14	0.661
15	20 21.3	95	16	65	38	30 32	2	4	6	45	2	4	M12	14	0.746
20	25 26.9	105	18	75	40	38 40	2.3	4	6	58	2	4	M12	14	1.06
25	30 33.7	115	18	85	40	42 46	2.6	4	6	68	2	4	M12	14	1.29
32	38 42.4	140	18	100	42	52 56	2.6	6	6	78	2	4	M16	18	1.88
40	44.5 48.3	150	18	110	45	60 64	2..6	6	7	88	3	4	M16	18	2.33
50	57 60.3	165	20	125	48	72 75	2.9	6	8	102	3	4	M16	18	2.82
65	76.1	185	22	145	52	90	2.9	6	10	122	3	8	M16	18	3.74
80	88.9	200	24	160	58	105	3.2	8	12	138	3	8	M16	18	4.75
100	108 114.3	235	24	190	65	128 134	3.6	8	12	162	3	8	M20	23	6.52
125	133 139.7	270	26	220	68	155 162	4	8	12	188	3	8	M24	27	9.07
150	159 168.3	300	28	250	75	182 192	4.5	10	12	218	3	8	M24	27	11.8
175	191 193.7	350	32	295	82	215 218	5.6	10	15	260	3	12	M27	30	18.2
200	216 219.1	375	34	320	88	240 244	6.3	10	16	285	3	12	M27	30	21.5
250	267 273	450	38	385	105	298 306	7.1	12	18	345	3	12	M30	33	34.9
300	318 323.9	515	42	450	115	352 362	8	12	18	410	4	16	M30	33	49.7
350	355.6 368	580	46	510	125	408	8.8	12	20	465	4	16	M33	36	68.1
400	406.4 419	660	50	585	135	462	11	12	20	535	4	16	M36	39	96.5
500	508 521	755	52	670	140	562	14.2	12	20	615	4	20	M39	42	117

金盛 JIN SHENG 管件
Add:Cangzhou City,Hebei Province,China www.chinajsgj.com Tel:0311-87367207 Fax:0311-68055612

WELDING NECK FLANGES
Nominal Pressure:64kgf/cm²–ND64
DIN2636
FLANSLAR
BORULARICIN,BOYUNLARI KAYNAKLI
Anma Basinc1:64kgf/cm²–ND64
TS 811/7 (TS ISO 7005–1)



BORE (Pipe)		FLANS (Flange)				BOYUN (Neck)				ALIN CIKINTISI (Raised face)		CLVATALAE (Bolts)			FLANS AGIRLIGI (Flange Weight) (7.85kg/dm³) kg
DN	d_1 ISO/DIN	D	b	k	h_1	d_3	s	r	h_2	d_4	f	Sayisi (Each)	Vida Screw	d_2	
10 40	17.2 48.3	Degerler DIN 2637 (100kgf/cm²) *den alin malidir.													
50	60.3	180	26	135	62	82	2.9	6	10	102	3	4	M20	22	4.55
65	76.1	205	26	160	68	98	3.2	6	12	122	3	8	M20	22	5.73
80	88.9	215	28	170	72	112	3.6	8	12	138	3	8	M20	22	6.69
100	114.3	250	30	200	78	138	4.0	8	12	162	3	8	M24	26	9.66
125	139.7	295	34	240	88	168	4.5	8	12	188	3	8	M27	30	15.1
150	168.3	345	36	280	95	202	5.6	10	12	218	3	8	M30	33	21.9
175	193.7	375	40	310	105	228	6.3	10	16	260	3	12	M30	33	23.7
200	219.1	415	42	345	110	256	7.1	10	16	285	3	12	M33	36	34.9
250	273	470	46	400	125	316	8.8	12	18	345	3	12	M33	36	49.6
300	323.9	530	52	460	140	372	11	12	18	410	4	16	M33	36	68.7
350	355.6	600	56	525	150	420	12.5	12	20	465	4	16	M36	39	94.6
400	406.4	670	60	585	160	475	14.2	12	20	535	4	16	M39	42	124

WELDING NECK FLANGES
Nominal Pressure:100kgf/cm²–ND100
DIN2637

FLANSLAR
BORULAR ICIN, BOYUNLARI KAYNAKLI
Anm Basinc1:100kgf/cm²–DN100
TS 811/8 (TS ISO 7005–1)

BORE (Pipe)		FLANS (Flange)				BOYUN (Neck)				ALIN CIKINTISI (Raised face)		CLVATALAE (Bolts)			FLANS AGIRLIGI (Flange Weight) (7.85kg/dm³) kg
DN	d_1 ISO/DIN	D	b	k	h_1	d_3	s	r	h_2	d_4	f	Sayisi (Each)	Vida Screw	d_2	
10	17.2	100	20	70	45	32	1.8	4	6	40	2	4	M12	14	1.09
15	21.3	105	20	75	45	34	2.0	4	6	45	2	4	M12	14	1.19
25	33.7	140	24	100	58	52	2.6	4	8	68	2	4	M16	18	2.66
40	48.3	170	26	125	62	70	2.9	6	10	88	3	4	M20	22	4.09
50	60.3	195	28	145	68	90	3.2	6	10	102	3	4	M24	26	5.98
65	76.1	220	30	170	76	108	3.6	6	12	122	3	8	M24	26	7.91
80	88.9	230	32	180	78	120	4.0	8	12	138	3	8	M24	26	8.95
100	114.3	265	36	210	90	150	5.0	8	12	162	3	8	M27	30	13.7
125	139.7	315	40	250	105	180	6.3	8	12	188	3	8	M30	33	22.7
150	168.3	355	44	290	115	210	7.1	10	12	218	3	12	M30	33	30.2
175	193.7	385	48	320	127	245	8.8	10	16	260	3	12	M30	33	38.9
200	219.1	430	52	360	130	278	10.0	10	16	285	3	12	M33	36	52.8
250	273	505	60	430	157	340	12.5	12	18	345	3	12	M36	39	81.4
300	323.9	585	68	500	170	400	14.2	12	18	410	4	16	M39	42	122
350	355.6	655	74	560	189	460	16.0	12	20	465	4	16	M45	48	165