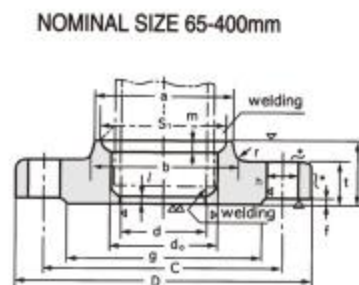
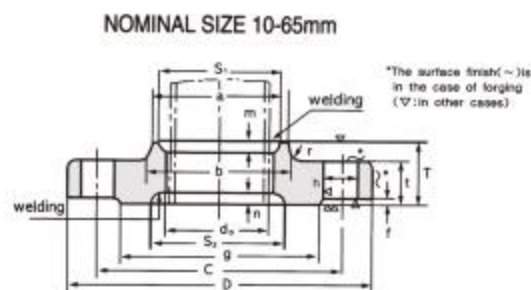


40Kg/Cm²

JIS B2216

40Kg/Cm² SLIP-ON WELDING STEEL PIPE FLANGES

Unit:mm

Nominal Diameter of Flange	Outside Diameter of Steel Pipe	Inside Diameter of Flange d ₀	Outside Diameter of Flange D	Sectional Dimensions of Flange										Bolt Hole				Reference					Approx Weight (kg)
				t	T	Diameter of Hub		Rad- ius r	f	g	d	Bolt Circle Dia- meter C	Num- ber of Bolt Holes	Hole Dia- meter h	Nominal Bolt Size	S ₁	m	S ₂	n	l			
						a	b																
10	17.3	17.8	110	18	26	34	38	5	1	52	—	75	4	19	M16	28.0	6	28	5		1.11		
15	21.7	22.2	115	20	30	39	43	5	1	55	—	80	4	19	M16	32.5	6	32.5	5		1.39		
20	27.2	27.7	120	20	30	45	49	5	1	60	—	85	4	19	M16	38.0	6	38.0	5		1.51		
25	34.0	34.5	130	22	32	55	59	5	1	70	—	95	4	19	M16	47.8	6	47.8	5		1.97		
32	42.7	43.2	140	24	35	64	68	6	2	80	—	105	4	19	M16	56.5	6	56.5	5		2.90		
40	48.6	49.1	160	24	35	70	74	6	2	90	—	120	4	23	M20	62.5	6	62.5	5		3.26		
50	60.5	61.1	165	26	38	86	90	6	2	105	—	130	8	19	M16	74.5	6	74.5	5.5		3.47		
65	76.3	77.1	200	30	44	106	110	8	2	130	62.3	160	8	23	M20	91.5	7	91.5	7		5.97		
80	89.1	90.3	210	32	46	118	124	8	2	140	73.9	170	8	23	M20	105.5	7.5	105.5	7		6.76		
100	114.3	115.4	250	36	52	145	151	8	2	165	97.1	205	8	25	M22	133.0	8.5	133.0	7		10.78		
125	139.8	141.4	300	40	58	182	188	8	2	200	120.8	250	8	27	M24	160.5	9.5	160.5	7		16.97		
150	165.2	167.0	355	44	64	200	208	8	2	240	143.2	295	12	33	M30	186.0	11	186.0	7		22.6		
200	216.3	218.2	405	50	72	255	263	8	2	290	190.9	345	12	33	M30	243.0	13	243.0	7		34.9		
250	267.4	269.5	475	56	80	310	318	10	2	355	237.2	410	12	33	M30	296.0	15	296.0	7		41.1		

1.As far as possible,nominal diameter in parenthesis should be avoid from use.

2.The dimensional tolerance shall confirm to JIS B2203.

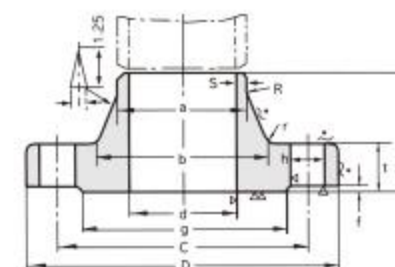
3.The flange gasket surface is based on large raised facing specified in JIS B2202.But ,if necessary, facings other than the large raised facing specified in JIS B2201 can be designated by customers.

4.Size d is an example of pipe thickness for schedule 40 of JIS G3454 and JIS B3456.when other size is necessary, customers can order it at will.

5.Refer to JIS B2216.

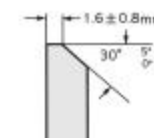
10Kg/Cm²

WELDING NECK FLANGES



*The surface finish
shown above is in the
case of forging
(▽marks in other cases)

Reference:Beveling



When particularly necessary,
customers can order another
beveling form the above.

Nominal Diam of Flange	Outside Diam of Steel Pipe	Inside Diam of Flange d	Outside Diam of Flange D	Sectional Dimensions of Flange										Nominal Bolt Size	Length of wecr Depat P *4	Appro Weight (kg)
				t	T *t	Diam of Hub		Radius r *3	Raised Face f	Diam of Raised Face g	Bolt Circle Diameter	Number of Bolt Holes	Hole Diam h			
						a	b									
10	17.3	To be specified by purchaser	90	12	28.9	17.3	25	4	1	46	65	4	15	M12	3.5	
15	21.7		95	12	30.6	21.7	33	4	1	51	70	4	15	M12	4.5	
20	27.2		100	14	33.9	27.2	38	4	1	56	75	4	15	M12	6.4	
25	34		125	14	36.3	34.0	47	4	1	67	90	4	19	M16	6.0	
32	42.7		135	16	40.3	42.7	57	5	2	76	100	4	19	M16	6.4	
40	48.6		140	16	41.2	48.6	64	5	2	81	105	4	19	M16	5.9	
50	60.5		155	16	42.9	60.5	77	5	2	96	120	4	19	M16	6.3	
65	76.3		175	18	53.0	76.3	97	5	2	116	140	4	19	M16	9.1	
80	89.1		185	18	53.0	89.1	109	6	2	126	150	8	19	M16	9.6	
(90)	101.6		195	18	50.6	101.6	120	6	2	136	160	8	19	M16	9.6	
100	114.3		210	18	54.3	114.3	135	6	2	151	175	8	19	M16	10.4	
125	139.8		250	20	56.2	139.8	160	6	2	182	210	8	23	M20	10.9	
150	165.2		280	22	65.3	165.2	190	6	2	212	240	8	23	M20	12.3	
(175)	190.7		305	22	66.1	190.7	215	6	2	237	265	12	23	M20	13.7	
200	216.3		330	22	66.1	216.3	240	6	2	262	290	12	23	M20	14.4	
(225)	241.8		350	22	62.3	241.8	262	6	2	282	310	12	23	M20	15.0	
250	267.4		400	24	70.7	267.4	292	6	2	324	355	12	25	M22	15.9	
300	318.5		445	24	75.9	318.5	346	6	3	368	400	16	25	M22	17.5	
350	355.6		490	26	83.0	355.6	386	8	3	413	445	16	25	M22	19.0	
400	406.4		560	28	94.4	406.4	442	8	3	475	510	16	27	M24	21.9	
450	457.2		620	30	107.9	457.2	502	10	3	530	565	20	27	M24	21.9	
500	508		675	30	110.2	508.0	554	10	3	585	620	20	27	M24	22.7	
550	558.8		745	32	119.9	558.8	610	10	3	640	680	20	33	M30	23.9	
600	609.6		795	32	123.6	609.6	662	10	3	690	730	24	33	M30	26.1	

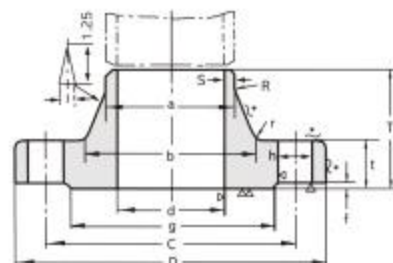
1. *1 *2 *4 DIMENSIONS OF "T" "r" "S" "P" ARE MAKER, JUNG ANG'S STANDARD.

2. *2 UNDER NOMINAL SIZE 225mm & UNDER DIMENSION OF "b" IS MAKER, JUNG ANG'S STANDARD.

3. ALL DIMENSIONS OF FLANGE WAS DESIGNED ON JIS B2220 & B1503 BASE

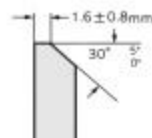
20Kg/Cm²

WELDING NECK STEEL PIPE FLANGES



*The surface finish shown above is in the case of forging (▽marks in other cases)

Reference:Beveling



When particularly necessary, customers can order another beveling form the above.

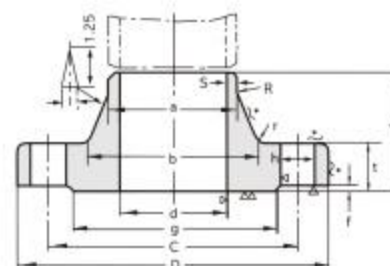
Nominal Diameter of Flange	Outside Diameter of Steel Pipe	Outside Diameter of Flange D		Sectional Dimensions of Flange										Bolt Hole			Nominal Bolt Size	Approx Weight (kg)
				t	d	a	b	S	T	P	Radius	f	g	Bolt Circle Diameter C	Number of Bolt Holes	Diameter of Hole h		
10	17.3	90	14	To be specified by purchaser.	17.3	32	To be specified by purchaser.	35.9	3.5	4	1	46	65	4	15	M12		
15	21.7	95	14		21.7	36		36.4	4.5	4	1	51	70	4	15	M12		
20	27.2	100	16		27.2	42		40.9	6.4	4	1	56	75	4	15	M12		
25	34.0	125	16		34.0	50		42.0	6.0	4	1	67	90	4	19	M16		
32	42.7	135	18		42.7	60		46.0	6.4	5	2	76	100	4	19	M16		
40	48.6	140	18		48.6	66		45.7	5.9	5	2	81	105	4	19	M16		
50	60.5	155	18		60.5	80		48.7	6.3	5	2	96	120	8	19	M16		
65	76.3	175	20		76.3	104		63.7	9.1	5	2	116	140	8	19	M16		
80	89.1	200	22		89.1	117		66.5	9.6	6	2	132	160	8	23	M20		
90	101.6	210	24		101.6	130		68.9	9.4	6	2	145	170	8	23	M20		
100	114.3	225	24		114.3	142		69.0	10.4	6	2	160	185	8	23	M20		
125	139.8	270	26		139.8	172		77.2	10.9	6	2	195	225	8	25	M22		
150	165.2	305	28	165.2	202	86.3	12.3	6	2	230	260	12	25	M22				
200	216.3	350	30	216.3	252	89.0	14.4	6	2	275	305	12	25	M22				
250	267.4	430	34	267.4	312	105.7	15.9	6	2	345	380	12	27	M24				
300	318.5	480	36	318.5	364	110.4	17.5	8	3	395	430	16	27	M24				
350	355.6	540	40	355.6	408	124.5	19.0	8	3	440	480	16	33	M30×3				
400	406.4	605	46	406.4	456	129.9	21.9	10	3	495	540	16	33	M30×3				
450	457.2	675	48	457.2	514	140.9	21.9	10	3	560	605	20	33	M30×3				
500	508.0	730	50	508.0	568	147.7	22.7	10	3	615	660	20	33	M30×3				
550	558.8	795	52	558.8	622	154.9	23.9	10	3	670	720	20	39	M36×3				
600	609.6	845	54	609.6	676	163.1	26.1	10	3	720	770	24	39	M36×3				

NOTE: DIMENSIONS ARE MAKER JUNG ANG STANDARD AND DESIGN BASE IS JIS B2220-1984

30Kg/Cm²

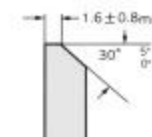
JIS B2220-1984(KSB 1503-1999)

WELDING NECK STEEL PIPE FLANGES



*The surface finish shown above is in the case of forging (▽marks in other cases)

Reference:Beveling



When particularly necessary, customers can order another beveling form the above.

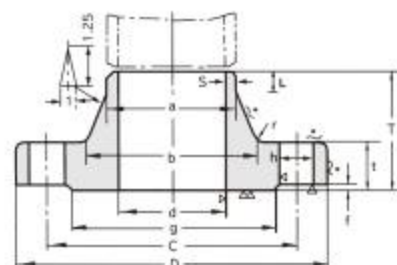
Nominal Diameter of Flange	Outside Diameter of Steel Pipe	Outside Diameter of Flange D	Sectional Dimensions of Flange										Bolt Hole			Nominal Bolt Size	Approx Weight (kg)
			t	d	a	b	S	T	R	Radius r	f	g	Bolt Circle Diameter C	Number of Bolt Holes	Hole Diameter h		
15	21.7	115	18	15.8	22.0	40	3.1	45	20	6	1	55	80	4	19	M16	1.33
20	27.2	120	18	21.1	27.5	44	3.2	45	20	6	1	60	85	4	19	M16	1.47
25	34.0	130	20	26.8	34.4	52	3.8	48	20	6	1	70	95	4	19	M16	1.95
32	42.7	140	22	35.1	43.1	62	4.0	52	30	6	2	80	105	4	19	M16	2.43
40	48.6	160	22	40.7	49.1	70	4.2	54	30	6	2	90	120	4	23	M20	3.16
50	60.5	165	22	52.2	61.0	84	4.4	57	30	8	2	105	130	8	19	M16	3.33
65	76.3	200	26	65.3	76.9	104	5.8	69	30	8	2	130	160	8	23	M20	5.91
80	89.1	210	28	77.5	89.7	118	6.1	73	30	8	2	140	170	8	23	M20	7.05
(90)	101.6	230	30	89.5	102.3	130	6.4	74	30	8	2	150	185	8	25	M22	8.54
100	114.3	240	32	101.5	115.1	142	6.8	76	30	8	2	160	195	8	25	M22	9.72
125	139.8	275	36	125.7	140.7	172	7.5	86	50	10	2	195	230	8	25	M22	14.4
150	165.2	325	38	150.0	166.2	202	8.1	95	50	10	2	235	275	12	27	M24	20.6
200	216.3	370	42	198.7	217.5	254	9.4	102	50	10	2	280	320	12	27	M24	28.7
250	267.4	450	48	247.5	268.7	312	10.6	118	50	12	2	345	390	12	33	M30×3	47.3
300	318.5	515	52	296.4	320.0	366	11.8	127	50	15	3	405	450	16	33	M30×3	62.8
350	355.6	560	54	331.8	357.2	406	12.7	134	80	15	3	450	495	16	33	M30×3	77.0
400	406.4	630	60	379.1	408.3	462	14.6	149	80	20	3	510	560	16	39	M36×3	108.0

REMARKS: 1. Flange of parenthesized nominal diameter had better not be used.
 2. The Flange gasket surface is based on "large raised facing" specified in JIS B2202. If necessary, customers can order for other types of facing.
 3. Size d and Size S are example for schedule 40 of JIS G3454 and JIS G3456. Customers can also order for other sizes.
 4. For dimensional tolerance, refer to JIS B2203.
 5. Material
 Carbon Steel: S25C specified in JIS G4051, or SF45 specified in JIS G3201.
 Molybdenum Steel: 1/2Mo Steel specified in tables 1 and 2 of JIS B2215.
 Chromium-Molybdenum Steel: 1 1/2 Cr 1/2 Mo Steel specified in tables 1 and 2 of JIS B2215.

40Kg/Cm²

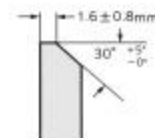
JIS B2219-1984

WELDING NECK STEEL PIPE FLANGES



*The surface finish shown above is in the case of forging (✓marks in other cases)

Reference:Beveling



When particularly necessary, customers can order another beveling form the above.

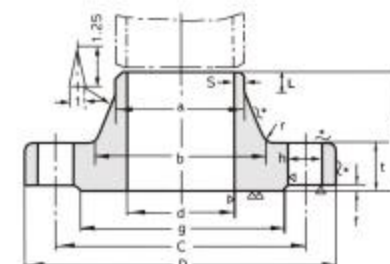
Nominal Diameter of Flange	Outside Diameter of Steel Pipe	Outside Diameter of Flange D	Sectional Dimensions of Flange										Bolt Hole			Nominal Bolt Size	Approx Weight(kg)	
			t	d	a	b	S	T	L	Radius r	f	g	Bolt Circle Diameter C	Number of Bolt Holes	Diameter of Hole h		#40	#80
15	21.7	115	20	15.8	21.7	40	3.1	50	10	6	1	55	80	4	19	M16	1.53	1.55
20	27.2	120	20	21.1	27.2	44	3.2	50	10	6	1	60	85	4	19	M16	1.72	1.74
25	34.0	130	22	26.8	34.0	52	3.8	52	12	6	1	70	95	4	19	M16	2.24	2.28
32	42.7	140	24	35.1	42.7	62	4.0	56	14	6	2	80	105	4	19	M16	2.24	2.86
40	48.6	160	24	40.7	48.6	70	4.2	60	14	6	2	90	120	4	23	M20	2.93	3.01
50	60.5	165	26	52.2	60.5	84	4.4	64	16	8	2	105	130	8	19	M16	4.2	4.41
65	76.3	200	30	65.3	76.3	104	5.8	75	18	8	2	130	160	8	23	M20	7.32	7.52
80	89.1	210	32	77.5	89.1	118	6.1	80	18	8	2	140	170	8	23	M20	8.47	8.80
(90)	104.6	230	34	89.5	104.6	130	6.4	88	18	8	2	150	185	8	25	M22	9.4	-
100	114.3	250	36	101.5	114.3	148	6.8	90	24	8	2	165	205	8	25	M22	13.25	13.82
125	139.8	300	40	125.7	139.8	186	7.5	108	26	10	2	200	250	8	27	M24	21.64	22.5
150	165.2	355	44	150.0	165.2	218	8.1	122	30	10	2	240	295	12	33	M30	32.45	35.1
200	216.3	405	50	198.7	216.3	272	9.4	132	38	10	2	290	345	12	33	M30	45.5	47.2
250	267.4	475	56	247.5	267.4	338	10.6	138	44	12	2	355	410	12	33	M30	69.6	-
300	318.5	540	60	296.4	318.5	400	11.8	159	48	15	3	410	470	16	39	M36	96.0	-
350	355.6	585	64	331.8	355.6	432	12.7	168	50	15	3	455	515	16	39	M36	115.0	-
400	406.4	645	70	379.1	406.4	466	14.6	181	50	20	3	515	570	16	39	M36	143.0	-

REMARKS: 1. Flange of parenthesized nominal diameter had better not be used.
 2. The Flange gasket surface is based on "large raised facing" specified in JIS B2202. If necessary, customers can order for other types of facing.
 3. Size d and Size S are example for schedule 40 of JIS G3456. Customers can also order for other sizes.
 4. For dimensional tolerance, refer to JIS B2203.
 5. T of 125 nominal Diameter is maker's standard.

63Kg/Cm²

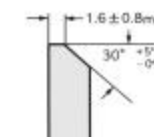
JIS B2220-1984(KSB 1503-1999)

WELDING NECK STEEL PIPE FLANGES



*The surface finish shown above is in the case of forging (✓marks in other cases)

Reference:Beveling



When particularly necessary, customers can order another beveling form the above.

Nominal Diameter of Flange	Outside Diameter of Steel Pipe	Outside Diameter of Flange D	Sectional Dimensions of Flange										Bolt Hole			Nominal Bolt Size	Approx Weight(kg)	
			t	d	a	b	S	T	L	Radius r	f	g	Bolt Circle Diameter C	Number of Bolt Holes	Diameter of Hole h		#80	#160
15	21.7	120	23	To be specified by purchaser.	21.7	45	3.1	60	10	6	1	55	85	4	19	M16	2.07	2.09
20	27.2	135	25		27.2	50	3.2	62	12	6	1	60	95	4	23	M20	2.80	2.85
25	34.0	140	27		34.0	54	3.8	62	13	6	1	70	100	4	23	M20	3.29	3.33
32	42.7	150	31		42.7	64	4.0	66	13	6	2	80	110	4	23	M20	4.12	4.2
40	48.6	175	33		48.6	78	4.2	78	14	6	2	90	130	4	25	M22	6.17	6.31
50	60.5	185	35		60.5	92	4.4	84	16	8	2	105	145	8	23	M20	7.35	7.85
65	76.3	220	39		76.3	114	5.8	96	18	10	2	130	175	8	25	M22	11.85	12.22
80	89.1	230	41		89.1	126	6.1	98	18	10	2	140	185	8	25	M22	13.23	13.82
(90)	101.6	255	42		101.6	140	6.4	126	18	10	2	150	205	8	27	M24	15.2	15.8
100	114.3	270	45		114.3	154	6.8	107	20	10	2	165	220	8	27	M24	19.45	20.65
125	139.8	325	51		(139.8)	(190)	7.5	(128)	24	12	2	200	265	8	33	M30	31.40	34.0
150	165.2	365	55		165.2	224	8.1	142	26	15	2	240	305	12	33	M30	45.0	48.5
200	216.3	425	61		216.3	274	9.4	151	30	15	2	290	360	12	33	M30	63.60	70.7
250	267.4	500	69		267.4	340	10.6	175	38	20	2	355	430	12	39	M36	144.0	-
300	318.5	560	78		318.5	402	11.8	286	44	23	3	410	485	16	39	M36	154.0	-
350	355.6	615	82		355.6	438	12.7	301	48	25	3	455	530	16	46	M43	191	-
400	406.4	680	81	406.4	490	14.6	314	48	25	3	515	590	16	46	M43	247	-	

REMARKS: 1. Flange of parenthesized nominal diameter had better not be used.
 2. The Flange gasket surface is based on "large raised facing" specified in JIS B2202. If necessary, customers can order for other types of facing.
 3. Size d and Size S are example for schedule 40 of JIS G3454 and JIS G3456. Customers can also order for other sizes.
 4. For dimensional tolerance, refer to JIS B2203.
 5. The dimension of () are maker's standard.