

FLANGES

▪ JIS B2220 FLANGE

5KG/10KG/16K/20KG/30KG



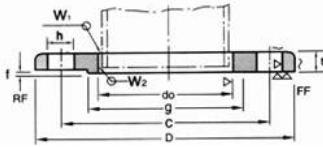
All products backed by Metleader warranty

JIS B2220 FLANGE

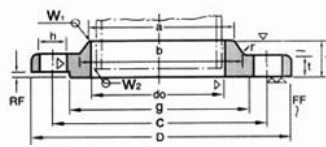
5Kg/Cm²

JIS B2220-1984(KSB 1503-1985)
5Kg/Cm² SLIP-ON WELDING STEEL PIPE FLANGES

SOP TYPE
NOMINAL SIZE 10-1000mm



SOH TYPE
NOMINAL SIZE 450-1000mm



unit:mm

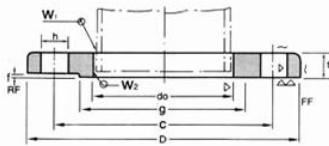
Nominal Bore of Flange	Outside Diam. of Applicable Pipe	Inside Diam. of Flange d	Outside Diam. of Flange D	Sectional Dimensions of Flange							Diam. of Bolt				Weight(kg)		
				t	T	Diam. of Hub		Radius r	Raised Face f	Diam. of Raised face g	Diam. of Bolt Circle C	Number of Bolt Holes	Hole Diam. h	Nominal Bolt Size	SOP	BL	SOH
						a	b										
(10)	17.3	17.8	75	9	-	-	-	-	1	39	55	4	12	M10	0.27	0.3	-
15	21.7	22.2	80	9	-	-	-	-	1	44	60	4	12	M10	0.30	0.4	-
(20)	27.2	27.7	85	10	-	-	-	-	1	49	65	4	12	M10	0.37	0.5	-
25	34.0	34.5	95	10	-	-	-	-	1	59	75	4	12	M10	0.45	0.6	-
(32)	42.7	43.2	115	12	-	-	-	-	2	70	90	4	15	M12	0.78	0.9	-
40	48.6	49.1	120	12	-	-	-	-	2	75	95	4	15	M12	0.83	1.0	-
50	60.5	61.1	130	14	-	-	-	-	2	85	105	4	15	M12	1.07	1.4	-
65	76.3	77.1	155	14	-	-	-	-	2	110	130	4	15	M12	1.49	2.0	-
80	89.1	90.0	180	14	-	-	-	-	2	121	145	4	19	M16	1.99	2.7	-
(90)	101.6	102.6	190	14	-	-	-	-	2	131	155	4	19	M16	2.09	3.0	-
100	114.3	115.4	200	16	-	-	-	-	2	141	165	8	19	M16	2.39	3.7	-
125	139.8	141.2	235	16	-	-	-	-	2	176	200	8	19	M16	3.23	5.2	-
150	165.2	166.6	265	18	-	-	-	-	2	206	230	8	19	M16	4.41	7.5	-
(175)	190.7	192.1	300	18	-	-	-	-	2	232	260	8	23	M20	5.51	9.5	-
200	216.3	218.0	320	20	-	-	-	-	2	252	280	8	23	M20	6.33	12.2	-
(225)	241.8	243.7	345	20	-	-	-	-	2	277	305	12	23	M20	6.64	14.0	-
250	267.4	269.5	385	22	-	-	-	-	2	317	345	12	23	M20	9.45	19.3	-
300	318.5	321.0	430	22	-	-	-	-	3	360	390	12	23	M20	10.3	24.3	-
350	355.6	358.1	480	24	-	-	-	-	3	403	435	16	25	M22	14.0	33.2	-
400	406.4	409.0	540	24	-	-	-	-	3	463	495	16	25	M22	16.9	41.9	-
450	457.2	460.0	605	24	40	495	500	5	3	523	555	16	25	M22	21.6	53.0	24.8
500	508.0	511.0	655	24	40	546	552	5	3	573	605	20	25	M22	23.1	61.9	26.9
550	558.8	562.0	720	26	42	597	603	5	3	630	665	20	27	M24	30.3	81.2	34.1
600	609.6	613.0	770	26	44	648	654	5	3	680	712	20	27	M24	32.7	93.2	37.5
650	660.4	664.0	825	26	48	702	708	5	3	735	770	24	27	M24	35.9	106.9	42.8
700	711.2	715.0	875	26	48	751	758	5	3	785	820	24	27	M24	38.2	120.6	45.4
750	762.0	766.0	945	28	52	802	810	5	3	840	880	24	33	M30	48.7	150.5	57.4
800	812.8	817.0	995	28	52	854	862	5	3	890	930	24	33	M30	51.2	167.4	60.8
(850)	863.6	868.0	1045	28	54	907	912	5	3	940	980	24	33	M30	54.4	185.1	63.5
900	914.4	919.0	1095	30	56	956	964	5	3	990	1030	24	33	M30	61.1	218.1	75.3
1000	1016.0	1021.0	1195	32	60	1058	1066	5	3	1090	1130	28	33	M30	705	277.3	88.5
*(1100)	1117.6	1123.0	1305	32	-	-	-	-	3	1200	1240	28	33	M30	81.7	331.9	-
*1200	1219.2	1225.0	1420	34	-	-	-	-	3	1305	1350	32	33	M30	102	417.8	-
*1350	1371.6	1376.0	1575	34	-	-	-	-	3	1460	1505	32	33	M30	115.9	515.6	-
*1500	1524.0	1529.0	1730	36	-	-	-	-	3	1615	1660	36	33	M30	157.4	659.2	-

JIS B2220 FLANGE

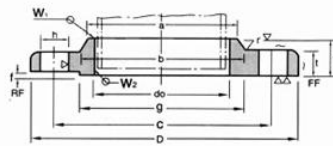
10Kg/Cm²

JIS B2220-1984(KSB 1503-1985)
10Kg/Cm² SLIP-ON WELDING STEEL PIPE FLANGES

SOP TYPE
NOMINAL SIZE 10-800mm



SOH TYPE
NOMINAL SIZE 250-1000mm



unit:mm

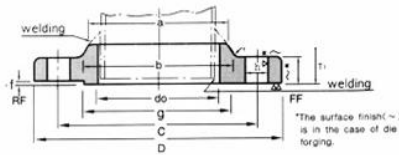
Nominal Bore of Flange	Outside Diam. of Applicable Pipe	Inside Diam. of Flange	Outside Diam. of Flange	Sectional Dimensions of Flange							Diam. of Bolt			Nominal Bolt Size	Weight(kg)		
				t	T	Diam. of Hub		Radius	Raised Face	Diam. of Raised face	Diam. of Bolt Circle	Number of Bolt Holes	Hole Diam.		SOP	BL	SOH
						a	b										
10	17.3	17.8	90	12	-	-	-	-	1	46	65	4	15	M12	0.51	0.53	-
15	21.7	22.2	95	12	-	-	-	-	1	51	70	4	15	M12	0.56	0.60	-
20	27.2	27.7	100	14	-	-	-	-	1	56	75	4	15	M12	0.72	0.79	-
25	34.0	34.5	125	14	-	-	-	-	1	67	90	4	19	M16	1.12	1.22	-
32	42.7	43.2	135	16	-	-	-	-	2	76	100	4	19	M16	1.47	1.66	-
40	48.6	49.1	140	16	-	-	-	-	2	81	105	4	19	M16	1.55	1.79	-
50	60.5	61.1	155	16	-	-	-	-	2	96	120	4	19	M16	1.86	2.23	-
65	76.3	77.1	175	18	-	-	-	-	2	116	140	4	19	M16	2.58	3.24	-
80	89.1	90.0	185	18	-	-	-	-	2	126	150	8	19	M16	2.58	3.48	-
(90)	101.6	102.6	195	18	-	-	-	-	2	136	160	8	19	M16	2.73	3.90	-
100	114.3	115.4	210	18	-	-	-	-	2	151	175	8	19	M16	3.10	4.57	-
125	139.8	141.2	250	20	-	-	-	-	2	182	210	8	23	M20	4.73	7.18	-
150	165.2	166.6	280	22	-	-	-	-	2	212	240	8	23	M20	6.30	10.1	-
(175)	190.7	192.1	305	22	-	-	-	-	2	237	265	12	23	M20	6.75	11.8	-
200	216.3	218.0	330	22	-	-	-	-	2	262	290	12	23	M20	7.46	13.9	-
(225)	241.8	243.7	350	22	-	-	-	-	2	282	310	12	23	M20	7.70	15.8	-
250	267.4	269.5	400	24	36	288	292	6	2	324	355	12	25	M22	11.8	22.6	12.7
300	318.5	321.0	445	24	38	340	346	6	3	368	400	16	25	M20	12.6	27.8	13.8
350	355.6	358.1	490	26	42	380	386	6	3	413	445	16	25	M22	16.3	36.9	18.2
400	406.4	409.0	560	28	44	436	442	6	3	475	510	16	27	M24	23.2	52.1	25.8
450	457.2	460.0	620	30	48	496	502	6	3	530	565	20	27	M24	29.3	68.4	33.4
500	508.0	511.0	675	30	48	548	554	6	3	585	620	20	27	M24	33.3	81.6	38.0
550	558.8	562.0	745	32(34)	52	604	610	6	3	640	680	20	33	M30	42.9	105(112)	49.4
600	609.6	613.0	795	32(36)	52	656	662	6	3	690	730	20	33	M30	45.4	120(134)	52.6
650	660.4	664.0	845	34(38)	56	706	712	6	3	740	780	24	33	M30	51.8	144(161)	60.2
700	711.2	715.0	905	34(40)	58	762	770	6	3	800	840	24	33	M30	59.0	176(196)	70.2
750	762.0	766.0	970	36(44)	62	816	824	6	3	855	900	24	33	M30	72.8	214(248)	86.5
800	812.8	817.0	1020	36(46)	64	868	876	6	3	905	950	28	33	M30	76.0	249(286)	92.0
(850)	863.6	868.0	1070	36(48)	66	920	928	6	3	955	1000	28	33	M30	80.1	(330)	98.7
900	914.4	919.0	1120	38(50)	70	971	979	6	3	1005	1050	28	33	M30	88.9	(377)	110
1000	1016.0	1021.0	1235	40(56)	74	1073	1081	6	3	1110	1160	28	39	M36	109	(512)	133
1100	1117.6	1123.0	1345	42(62)	95	1175	1185	8	3	1220	1270	28	39	M36	131	(675)	175
1200	1219.2	1225.0	1465	44(66)	101	1278	1290	8	3	1325	1380	32	39	M36	163	(854)	215
1350	1371.6	1376.0	1630	48(74)	110	1432	1450	8	3	1480	1540	36	45	M42	204	(1180)	274
1500	1524.0	1529.0	1795	50(82)	123	1585	1605	8	3	1635	1700	40	45	M42	248	(1590)	340

JIS B2220 FLANGE

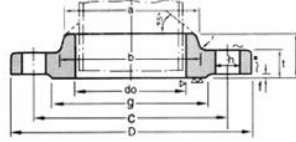
16Kg/Cm²

JIS B2220-1984(KSB 1503-1985)
16Kg/Cm² SLIP-ON WELDING STEEL PIPE FLANGES

NOMINAL SIZE 10-600mm



NOMINAL SIZE 650-1200mm



unit:mm

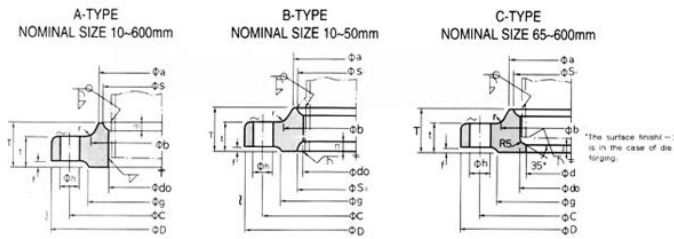
Nominal Bore of Flange	Outside Diam. of Applicable Pipe	Inside Diam. of Flange	Outside Diam. of Flange	Sectional Dimensions of Flange							Diam. of Bolt			Nominal Bolt Size	Weight(kg)		
				t	T	Diam. of Hub		Radius	Raised Face	Diam. of Raised face	Diam. of Bolt Circle	Number of Bolt Holes	Hole Diam.		SOP	BL	SOH
						a	b										
10	17.3	17.8	90	12	16	26	28	4	1	46	65	4	15	M12	0.52	0.54	0.52
15	21.7	22.2	95	12	16	30	32	4	1	51	70	4	15	M12	0.57	0.61	0.58
20	27.2	27.7	100	14	20	38	42	4	1	56	75	4	15	M12	0.73	0.79	0.75
-25	34.0	34.5	125	14	20	46	50	4	1	67	90	4	19	M16	1.13	1.24	1.16
32	42.7	43.2	135	16	22	56	60	5	2	76	100	4	19	M16	1.48	1.66	1.53
40	48.6	49.1	140	16	24	62	66	5	2	81	105	4	19	M16	1.56	1.81	1.64
50	60.5	61.1	155	16	24	76	80	5	2	96	120	8	19	M16	1.8	2.3	1.83
65	76.3	77.1	175	18	26	94	98	5	2	116	140	8	19	M16	2.5	3.1	2.58
80	89.1	90.0	200	20	28	108	112	6	2	132	160	8	23	M20	3.5	4.5	3.66
(90)	101.6	102.6	210	20	30	120	124	6	2	145	170	8	23	M20	3.7	5.0	3.95
100	114.3	115.4	225	22	34	134	138	6	2	160	185	8	23	M20	4.5	6.3	4.94
125	139.8	141.2	270	22	34	164	170	6	2	195	225	8	25	M22	6.5	9.2	7.0
150	165.2	166.6	305	24	38	196	202	6	2	230	260	12	25	M22	8.7	12.8	9.62
200	216.3	218.0	350	26	40	244	252	6	2	275	305	12	25	M22	10.9	18.6	12.1
250	267.4	269.5	430	28	44	304	312	6	2	345	380	12	27	M24	18.0	30.6	20.0
300	318.5	321.0	480	30	48	354	364	8	3	395	430	16	27	M24	21.5	40.7	24.4
350	355.6	358.1	540	34	52	398	408	8	3	440	480	16	33	M30x3	30.8	57.8	35.0
400	406.4	409.0	605	38	60	446	456	10	3	495	540	16	33	M30x3	42.8	82.2	46.2
450	457.2	460.0	675	40	64	504	514	10	3	560	605	20	33	M30x3	55.1	107.6	61.9
500	508.0	511.0	730	42	68	558	568	10	3	615	660	20	33	M30x3	65.1	133.1	73.25
550	558.8	562.0	795	44	70	612	622	10	3	670	720	20	39	M36x3	77.9	164.1	88.1
600	609.6	613.0	845	46	74	666	676	10	3	720	770	24	39	M36x3	86.0	193.2	98.8
650	660.4	664.0	895	48	77	704	726	10	5	770	820	24	39	M36x3	96.3	227.5	101.0
700	711.2	715.0	960	50	80	754	776	10	5	820	875	24	42	M39x3	114.1	272.6	120.0
750	762.0	766.0	1020	52	83	806	822	10	5	880	935	24	42	M39x3	132.7	321.9	141.0
800	812.8	817.0	1085	54	86	865	885	10	5	930	990	24	48	M45x3	152.1	375.6	161.0
850	863.6	868.0	1135	56	89	916	936	10	5	980	1040	24	48	M45x3	166.5	428.1	177.0
900	914.4	919.0	1185	58	93	968	986	10	5	1030	1090	28	48	M45x3	178.1	481.8	191.0
1000	1016.0	1021.0	1320	62	99	1070	1098	12	5	1140	1210	28	56	M52x3	235.3	636.0	230.0
1100	1117.6	1123.0	1420	66	105	1180	1200	12	5	1240	1310	32	56	M52x3	267.9	784.0	289.0
1200	1219.2	1225.0	1530	70	112	1282	1302	12	5	1350	1420	32	56	M52x3	321.1	972.4	348.0
1300	1320.8	1326.0	1645	74	-	-	-	-	5	1450	1530	32	62	-	378.6	1185.2	-
1350	1371.6	1377.0	1700	76	-	-	-	-	5	1510	1590	32	62	-	410.0	1303.8	-
1400	1422.4	1428.0	1755	78	-	-	-	-	5	1560	1640	36	62	-	436.0	1422.5	-
1500	1524.0	1529.0	1865	80	-	-	-	-	5	1670	1750	36	62	-	496.4	1656.6	-

JIS B2220 FLANGE

20Kg/Cm²

JIS B2220-1984(KSB 1503-1985)

20Kg/Cm² SLIP-ON WELDING STEEL PIPE FLANGES



unit:mm

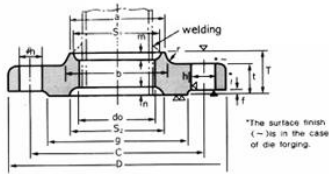
Nominal Bore of Flange	Outside Diam. of Applicable Pipe	Inside Diam. of Flange	Outside Diam. of Flange	Sectional Dimensions of Flange										Bolt Hole			Reference					Weight(kg)		
				t	T	Diam. of Hub		Rad	Raised Face	Diam. of Raised face	d	Diam. of Bolt Circle	Number of Bolt Holes	Hole Diam.	Nominal Bolt Size	S1	m	S2	n	l	SOP	BL	SOH	
						a	b																	r
10	17.3	17.8	90	14	20	30	32	4	1	46	-	65	4	15	M12	27	4	27	4	-	0.6	0.6	0.59	
15	21.7	22.2	95	14	20	34	36	4	1	51	-	70	4	15	M12	31	4	31	4	-	0.7	0.7	0.65	
20	27.2	27.7	100	16	22	40	42	4	1	56	-	75	4	15	M12	37	4	37	4	-	0.8	0.9	0.81	
25	34.0	34.5	125	16	24	48	50	4	1	67	-	90	4	19	M16	44	4	44	4.5	-	1.3	1.5	1.29	
32	42.7	43.2	135	18	26	56	60	5	2	76	-	100	4	19	M16	52	4	53	5	-	1.6	1.8	1.60	
40	48.6	49.1	140	18	26	62	66	5	2	81	-	105	4	19	M16	58	4	59	5.5	-	1.7	2.0	1.69	
50	60.5	61.1	155	18	26	76	80	5	2	96	-	120	8	19	M16	70	4	72	5.5	-	1.9	2.4	1.89	
65	76.3	77.1	175	20	30	10	10	5	2	116	65.9	140	8	19	M16	94	6	85	6	6	2.6	3.4	2.60	
80	89.1	90.0	200	22	34	11	11	6	2	132	78.1	160	8	23	M20	107	6	-	-	6	3.8	4.9	3.93	
(90)	101.6	102.6	210	24	36	12	13	6	2	145	90.2	170	8	23	M20	120	6	-	-	6	4.4	6.0	4.56	
100	114.3	115.4	225	24	36	13	14	6	2	160	102.3	185	8	23	M20	132	6	-	-	6	4.9	6.9	5.13	
125	139.8	141.2	270	26	40	16	17	6	2	195	126.6	225	8	25	M22	160	7	-	-	6	7.8	11.0	8.30	
150	165.2	166.6	305	28	42	19	20	6	2	230	151.0	260	12	25	M22	186	8	-	-	6	10.1	14.9	10.6	
200	216.3	218.0	350	30	46	24	25	6	2	275	199.9	305	12	25	M22	237	9	-	-	6	12.6	21.4	13.3	
250	267.4	269.5	430	34	52	30	31	6	2	345	248.8	380	12	27	M24	290	10	-	-	6	21.9	37.2	23.4	
300	318.5	321.0	480	36	56	35	36	8	3	395	297.9	430	16	27	M24	345	11	-	-	6	25.8	48.8	27.7	
350	355.6	358.1	540	40	62	39	40	8	3	440	333.4	480	16	33	M30x3	384	12	-	-	6	36.2	68.0	39.2	
400	406.4	409.0	605	46	70	44	45	10	3	495	381.0	540	16	33	M30x3	437	13	-	-	7	51.7	99.4	54.2	
450	457.2	460.0	675	48	78	50	51	10	3	560	431.8	605	20	33	M30x3	490	15	-	-	7	66.1	129.1	71.7	
500	508.0	511.0	730	50	84	55	56	10	3	615	482.6	660	20	33	M30x3	544	16	-	-	7	77.4	158.4	86.2	
(550)	558.8	562.0	795	52	90	61	62	10	3	670	533.4	720	20	39	M36x3	595	16	-	-	7	92.2	194.0	105.0	
600	609.6	613.0	845	54	96	66	67	10	3	720	584.2	770	24	39	M36x3	646	18	-	-	7	101.1	226.9	119.0	
(650)	660.4	664.0	945	60	-	-	-	-	5	790	-	850	24	48	M45x3	-	-	-	-	-	147.6	311.6	-	
700	711.2	715.0	995	64	-	-	-	-	5	840	-	-	-	-	-	-	-	-	-	-	168.0	370.9	-	
(750)	762.0	766.0	1080	68	-	-	-	-	5	900	-	970	24	56	M52x3	-	-	-	-	-	212.7	460.1	-	
800	812.8	817.0	1140	72	-	-	-	-	5	960	-	1030	24	56	M52x3	-	-	-	-	-	248.5	546.5	-	
(850)	863.6	868.0	1200	74	-	-	-	-	5	1020	-	1090	24	56	M52x3	-	-	-	-	-	280.5	626.2	-	
900	914.4	919.0	1250	76	-	-	-	-	5	1070	-	1140	28	56	M52x3	-	-	-	-	-	296.9	694.6	-	

JIS B2220 FLANGE

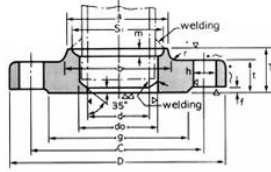
30Kg/Cm²

JIS B2220-1984(KSB 1503-1985)
30Kg/Cm² SLIP-ON WELDING STEEL PIPE FLANGES

A-TYPE NOMINAL SIZE 10-400mm
B-TYPE NOMINAL SIZE 10-50mm



C-TYPE NOMINAL SIZE 65-400mm



unit:mm

Nominal Bore of Flange	Outside Diam. of Applicable Pipe	Inside Diam. of Flange	Outside Diam. of Flange	Sectional Dimensions of Flange								Bolt Hole			Reference					Weight(kg)			
				t	T	Diam. of Hub		Radius	Raised Face	Diam. of Raised face	d	Diam. of Bolt Circle	Number of Bolt Holes	Hole Diam.	Nominal Bolt Size	S1	m	S2	n	l	SOP	BL	SOH
						a	b																
10	17.3	17.8	110	16	24	30	34	4	1	52	-	75	4	19	M16	-	-	-	-	-	0.9	0.99	1.00
15	21.7	22.2	115	18	26	36	40	5	1	55	-	80	4	19	M16	31	4	40	5	-	1.2	1.23	1.25
20	27.2	27.7	120	18	28	42	46	5	1	60	-	85	4	19	M16	37	5	44	5	-	1.3	1.34	1.38
25	34.0	34.5	130	20	30	50	54	5	1	70	-	95	4	19	M16	44	6	52	5	-	1.7	1.76	1.84
32	42.7	43.2	140	22	32	60	64	6	2	80	-	105	4	19	M16	52	6	60	5	-	2.0	2.15	2.32
40	48.6	49.1	160	22	34	66	70	6	2	90	-	120	4	23	M20	58	6	66	5	-	2.8	2.82	3.00
50	60.5	61.1	165	22	36	80	86	6	2	105	-	130	8	19	M16	70	6.5	78	5	-	2.8	2.89	3.14
65	76.3	77.1	200	26	40	102	106	8	2	130	65.9	160	8	23	M20	96	9.5	94	5	6	4.5	4.70	5.50
80	89.1	90.0	210	28	44	115	121	8	2	140	78.1	170	8	23	M20	109	9.5	-	-	6	5.1	5.36	6.63
(90)	101.6	102.6	230	30	46	128	134	8	2	150	90.2	185	8	25	M22	122	9.5	-	-	6	6.8	6.85	8.55
100	114.3	115.4	240	32	48	141	147	8	2	160	102.3	195	8	25	M22	135	9.5	-	-	6	7.8	7.89	10.0
125	139.8	141.2	275	36	54	166	172	8	2	195	126.6	230	8	25	M22	160	9.5	-	-	6	11.4	11.4	15.3
150	165.2	166.6	325	38	58	196	204	8	2	235	151.0	275	12	27	M24	186	9.5	-	-	6	16.3	16.7	22.2
200	216.3	218.0	370	42	64	548	256	8	2	280	199.9	320	12	27	M24	237	9.5	-	-	6	20.1	20.6	32.6
250	267.4	269.5	450	48	72	306	314	10	2	345	248.8	390	12	33	M30x3	290	10	-	-	6	35.0	36.1	55.2
300	318.5	321.0	515	52	78	360	370	10	3	405	297.9	450	16	33	M30x3	345	12	-	-	6	47.0	49.9	77.9
350	355.6	358.1	560	54	84	402	412	12	3	450	333.4	495	16	33	M30x3	383	13	-	-	6	56.6	61.2	96.9
400	406.4	409.0	630	60	90	456	468	15	3	510	381.0	560	16	39	M36x3	435	14	-	-	7	76.9	85.2	136