



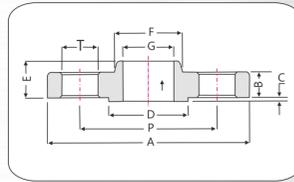
B&M-136/137



**SLIP ON FLANGES**  
Class-150 & Class-300



SLIP ON FLANGE



- CNC machined, VMC Drilled.
- Designed as per ASME standards.
- High quality antirust oil coating.
- Graded forging to ensure crack free installation.

Applications

Water	Air	Steam	Gas	Oil
-------	-----	-------	-----	-----



N. Bore	A	B	C	D	E	F	G	P	T	Holes
15	89	11.1	1.6	35	16	30	22.4	60.3	15.9	4
20	98	12.7	1.6	43	16	38	27.7	69.8	15.9	4
25	108	14.3	1.6	51	17	49	34.5	79.4	15.9	4
32	117	15.9	1.6	64	21	59	43.2	88.9	15.9	4
40	127	17.5	1.6	73	22	65	49.5	98.4	15.9	4
50	152	19	1.6	92	25	78	62	120.6	19	4
65	178	22.2	1.6	105	29	90	74.7	139.7	19	4
80	190	23.8	1.6	127	30	108	90.7	152.4	19	4
90	216	23.8	1.6	140	32	122	103.4	177.8	19	8
100	229	23.8	1.6	157	33	135	116.1	190.5	19	8
125	254	23.8	1.6	186	37	164	143.8	215.9	22.2	8
150	279	25.4	1.6	216	40	192	170.7	241.3	22.2	8
200	343	28	1.6	270	44	246	221.5	288.4	22.2	8
250	406	30.2	1.6	324	49	305	276.4	362	25.4	12
300	483	34.8	1.6	381	56	365	327.2	431.8	25.4	12

B&M-136

Class 150

B&M-137

Class 300

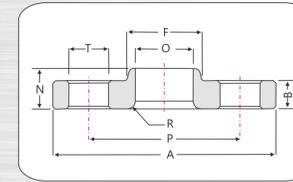
B&M-138/139



**LAP JOINT FLANGES**  
Class-150 & Class-300



LAP JOINT FLANGES



- Designed as per ASME standards.
- CNC machined, VMC Drilled.
- High quality antirust oil coating.
- Graded forging to ensure crack free installation.

Applications

Water	Air	Steam	Gas	Oil
-------	-----	-------	-----	-----



N. Bore	A	B	F	N	O	P	R	T	Holes
15	89	11.1	30	16	23	60.3	3	15.9	4
20	98	12.7	38	16	28	69.8	3	15.9	4
25	108	14.3	49	17	35	79.4	3	15.9	4
32	117	15.9	59	21	43.5	88.9	5	15.9	4
40	127	17.5	65	22	50	98.4	6.5	15.9	4
50	152	19	78	25	62.5	120.6	8	19	4
65	178	22.2	90	29	75.5	139.7	8	19	4
80	190	23.8	108	30	91.5	152.4	9.5	19	4
90	216	23.8	122	32	104	177.8	9.5	19	8
100	229	23.8	135	33	117	190.5	11	19	8
125	254	23.8	164	37	145	215.9	11	22.2	8
150	279	25.4	192	40	171	241.3	12.5	22.2	8
200	343	28	246	44	222	288.4	12.5	22.2	8
250	406	30.2	305	49	277	362	12.5	25.4	12
300	483	34.8	365	56	328	431.8	12.5	25.4	12

B&M-138

Class 150

B&M-139

Class 300

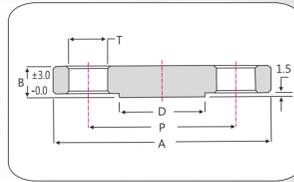
B&M-140/141



**BLIND FLANGES**  
Class-150 & Class-300



BLIND FLANGE



- Designed as per ASME standards.
- CNC machined, VMC Drilled.
- High quality antirust oil coating.
- Graded forging to ensure crack free installation.

Applications  
 Water  Air  Steam  Gas  Oil



Nominal Bore	A	D	B	P	T	Holes
15	88.90	35.0	11.18	60.3	15.75	4
20	98.55	43.0	12.7	69.8	15.75	4
25	107.95	51.0	14.22	79.4	15.75	4
32	117.34	63.5	15.75	88.9	15.75	4
40	127.0	73.2	17.53	98.4	15.75	4
50	152.4	92.0	19.05	120.6	19.05	4
65	177.8	104.6	22.35	139.7	19.05	4
80	190.5	127.0	23.88	152.4	19.05	4
90	215.9	139.7	23.88	177.8	19.05	8
100	228.6	157.2	23.88	190.5	19.05	8
125	254.0	185.7	23.88	215.9	22.35	8
150	279.4	216.0	25.4	241.3	22.35	8
200	342.9	269.8	28.45	288.4	22.35	8
250	406.4	324.0	30.23	362.0	25.40	12
300	482.6	381.0	34.75	431.8	25.40	12

B&M-140

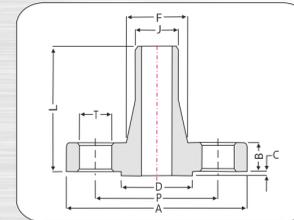
Class 150

Nominal Bore	A	D	B	P	T	Holes
15	95.25	35.0	14.22	67.7	15.75	4
20	117.35	43.0	15.75	82.6	19.05	4
25	123.95	51.0	17.53	88.9	19.05	4
32	133.35	63.5	19.05	98.4	19.05	4
40	155.45	73.2	20.57	114.3	22.35	4
50	165.10	92.0	22.35	127.0	19.05	8
65	190.50	104.6	25.40	149.2	22.35	8
80	209.55	127.0	28.45	168.3	22.35	8
90	228.60	139.7	30.23	184.2	22.35	8
100	254.00	157.2	31.75	200.0	22.35	8
125	279.40	185.7	35.05	235.0	22.35	8
150	317.50	216.0	36.58	269.9	22.35	12
200	381.00	269.8	41.15	330.2	25.40	12
250	444.50	324.0	47.75	387.4	28.45	16
300	520.70	381.0	50.80	450.8	31.75	16

B&M-141

Class 300

WELD NECK FLANGES



- CNC machined, VMC Drilled.
- Designed as per ASME standards.
- High quality antirust oil coating.
- Graded forging to ensure crack free installation.

Applications  
 Water  Air  Steam  Gas  Oil



N. Bore	A	B	C	D	F	J	L	P	T	Holes
15	89	11.1	1.6	35	30	21.3	48	60.3	15.9	4
20	98	12.7	1.6	43	38	26.7	52	69.8	15.9	4
25	108	14.3	1.6	51	49	33.4	56	79.4	15.9	4
32	117	15.9	1.6	64	59	42.2	57	88.9	15.9	4
40	127	17.5	1.6	73	65	48.3	62	98.4	15.9	4
50	152	19	1.6	92	78	60.3	64	120.6	19	4
65	178	22.2	1.6	105	90	73	70	139.7	19	4
80	190	23.8	1.6	127	108	88.9	70	152.4	19	4
90	216	23.8	1.6	140	122	101.6	71	177.8	19	8
100	229	23.8	1.6	157	135	114.3	76	190.5	19	8
125	254	23.8	1.6	186	164	141.3	89	215.9	22.2	8
150	279	25.4	1.6	216	192	168.3	89	241.3	22.2	8
200	343	28	1.6	270	246	219.1	102	288.4	22.2	8
250	406	30.2	1.6	324	305	273	102	362.0	25.4	12
300	483	34.8	1.6	381	365	323.9	114	431.8	25.4	12

B&M-142

Class 150

N. Bore	A	B	C	D	F	J	L	P	T	Holes
15	95	14.3	1.6	35	38	21.3	52	66.7	15.9	4
20	117	15.9	1.6	43	48	26.7	57	82.6	19	4
25	124	17.5	1.6	51	54	33.4	62	88.9	19	4
32	133	19	1.6	64	64	42.2	65	98.4	19	4
40	156	20.6	1.6	73	70	48.3	68	114.3	22.2	4
50	165	22.2	1.6	92	84	60.3	70	127.0	19	8
65	190	25.4	1.6	105	100	73	76	149.2	22.2	8
80	210	28.6	1.6	127	117	88.9	79	168.3	22.2	8
90	229	30.2	1.6	140	133	101.6	81	184.2	22.2	8
100	254	31.8	1.6	157	146	114.3	86	200.0	22.2	8
125	279	34.9	1.6	186	178	141.3	98	235.0	22.2	8
150	318	36.5	1.6	216	206	168.3	98	269.9	22.2	12
200	381	41.3	1.6	270	260	219.1	111	330.2	25.4	12
250	444	47.6	1.6	324	321	273	117	387.4	28.6	16
300	521	50.8	1.6	381	375	323.9	130	450.8	31.8	16

B&M-143

Class 300

B&M-142/143

**WELD NECK FLANGES**  
Class-150 & Class-300



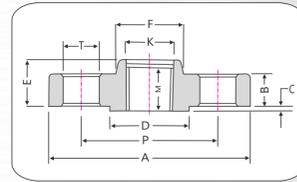
B&M-144/145



**SCREWED FLANGES**  
Class-150 & Class-300



SCREWED FLANGES



- CNC machined VMC drilled.
- Designed as per ASME standards.
- High quality antirust oil coating.
- Graded forging to ensure crack free installation.

Applications

Water	Air	Steam	Gas	Oil
<input checked="" type="checkbox"/>				

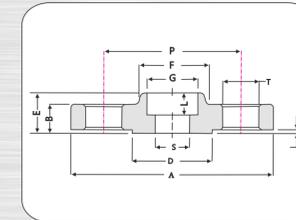


N. Bore	A	B	C	D	E	F	K	M	P	T	Holes
15	89	11.1	1.6	35	16	30	-	16	60.3	15.9	4
20	98	12.7	1.6	43	16	38	-	16	69.8	15.9	4
25	108	14.3	1.6	51	17	49	-	17	79.4	15.9	4
32	117	15.9	1.6	64	21	59	-	21	88.9	15.9	4
40	127	17.5	1.6	73	22	65	-	22	98.4	15.9	4
50	152	19.0	1.6	92	25	78	-	25	120.6	19	4
65	178	22.2	1.6	105	29	90	-	29	139.7	19	4
80	190	23.8	1.6	127	30	108	-	30	152.4	19	4
90	216	23.8	1.6	140	32	122	-	32	177.8	19	8
100	229	23.8	1.6	157	33	135	-	33	190.5	19	8
125	254	23.8	1.6	186	37	164	-	37	215.9	22.2	8
150	279	25.4	1.6	216	40	192	-	40	241.3	22.2	8
200	343	28.0	1.6	270	44	246	-	44	288.4	22.2	8
250	406	30.2	1.6	324	49	305	-	49	362.0	25.4	12
300	483	34.8	1.6	381	56	365	--	56	431.8	25.4	12

B&M-144

Class 150

SOCKET WELD FLANGES



- Designed as per ASME standards.
- CNC machined VMC drilled.
- High quality antirust oil coating.
- Graded forging to ensure crack free installation.

Applications

Water	Air	Steam	Gas	Oil
<input checked="" type="checkbox"/>				



N. Bore	A	B	D	E	F	G	L	P	S	T	Holes
15	88.9	11.2	35	15.75	30.2	22.35	9.65	60.3	15.79	15.75	4
20	98.6	12.7	43	15.75	38.1	27.69	11.18	69.8	20.93	15.75	4
25	108.0	14.2	51	17.5	49.3	34.54	12.7	79.4	26.70	15.75	4
32	117.3	15.8	63.5	20.6	59	43.18	14.22	88.9	35.0	15.75	4
40	127.0	17.5	73.2	22.4	65	49.53	15.75	98.4	40.9	15.75	4
50	152.4	19.0	92	25.4	77.7	61.98	17.53	120.6	52.5	19.1	4
65	177.8	22.4	104.6	28.5	90.4	74.68	19.05	139.7	62.7	19.1	4
80	190.5	23.9	127	30.2	108	90.68	20.57	152.4	78	19.1	4
90	216.0	23.9	139.7	31.8	122.2	103.38	22.35	177.8	90.2	19.1	8
100	228.5	23.9	157.2	33.3	134.9	116.08	23.88	190.5	102.4	19.1	8
125	254.0	23.9	185.7	36.6	163.6	143.76	23.88	215.9	128.3	22.4	8
150	279.4	25.4	216	39.6	192	170.69	26.92	241.3	154.2	22.4	8
200	343.0	28.5	269.8	44.5	246.1	221.49	31.75	288.4	202.7	22.4	8
250	406.4	30.2	324	49.3	304.8	276.35	33.27	362.0	254.5	25.4	12
300	482.6	31.8	381	55.6	365.3	327.15	39.62	431.8	304.8	25.4	12

B&M-146

Class 150

N. Bore	A	B	C	D	E	F	K	M	P	T	Holes
15	95	14.3	1.6	35	22	38	23.5	16	66.7	15.9	4
20	117	15.9	1.6	43	25	48	29	16	82.6	19	4
25	124	17.5	1.6	51	27	54	36	17	88.9	19	4
32	133	19	1.6	64	27	64	44.5	21	98.4	19	4
40	156	20.6	1.6	73	30	70	50.5	22	114.3	22.2	4
50	165	22.2	1.6	92	33	84	63.5	29	127.0	19	8
65	190	25.4	1.6	105	38	100	76	32	149.2	22.2	8
80	210	28.6	1.6	127	43	117	92	32	168.3	22.2	8
90	229	30.2	1.6	140	44	133	105	37	184.2	22.2	8
100	254	31.8	1.6	157	48	146	118	37	200.0	22.2	8
125	279	34.9	1.6	186	51	178	145	43	235.0	22.2	8
150	318	36.5	1.6	216	52	206	171	46	269.9	22.2	12
200	381	41.3	1.6	270	62	260	222	51	330.2	25.4	12
250	444	47.6	1.6	324	67	321	276	56	387.4	28.6	16
300	521	50.8	1.6	381	73	375	329	60	450.8	31.8	16

B&M-145

Class 300

N. Bore	A	B	D	E	F	G	L	P	S	T	Holes
15	95.25	14.22	35	22.35	38.10	22.35	9.65	66.7	15.79	15.75	4
20	117.35	15.75	43	25.40	47.75	27.69	11.18	82.6	20.93	19.05	4
25	123.95	17.53	51	26.92	53.85	34.54	12.7	88.9	26.70	19.05	4
32	133.35	19.05	63.5	26.92	63.50	43.18	14.22	98.4	35.0	19.05	4
40	155.45	20.57	73.20	30.23	69.85	49.53	15.75	114.3	40.9	22.35	4
50	165.10	22.35	92	33.27	84.07	61.98	17.53	127.0	52.5	19.05	8
65	190.50	25.40	104.6	38.10	100.08	74.68	19.05	149.2	62.7	22.35	8
80	209.55	28.45	127	42.93	117.35	90.68	20.57	168.3	78	22.35	8
90	228.60	30.23	139.7	44.45	133.35	103.38	22.35	184.2	90.2	22.35	8
100	254.00	31.75	157.2	47.75	146.05	116.08	23.88	200.0	102.4	22.35	8
125	279.40	35.05	185.7	50.80	177.80	143.76	23.88	235.0	128.3	22.35	8
150	317.50	36.58	216	52.32	206.25	170.69	26.92	269.9	154.2	22.35	12
200	381.00	41.15	269.8	61.98	260.35	221.49	31.75	330.2	202.7	25.40	12
250	444.50	47.75	324	66.55	320.55	276.35	33.27	387.4	254.5	28.45	16
300	520.70	50.80	381	73.15	374.65	327.15	39.62	450.8	304.8	31.75	16

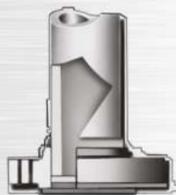
B&M-147

Class 300



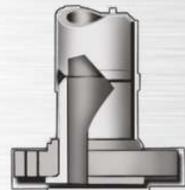
## FLANGE ATTACHING METHODS

**WELDING NECK FLANGES** are attached by butt welding to the pipe or shell. They are preferred when radiography is required, and provide optimum stress distribution. The long tapered hub provides an important reinforcement to the flange proper from the standpoint of strength and resistance to dishing..



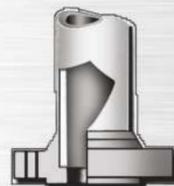
**SLIP-ON FLANGES** slide over the pipe and are attached by two fillet welds. They are preferred by many users over welding necks on account of their initially lower cost and ease of alignment. Their calculated strength under internal pressure is of the order of two-thirds that of welding neck flanges.

**LAP JOINT FLANGES** are also slide over the pipe and are most frequently used with Lap Joint Stud Ends. In some cases the pal is formed on the pipe end. Since they are free to rotate or swivel, there is no problem of bolt hole alignment. This type of connection is easy to maintain. The cheif use of lap joint flanges in carbon or low alloy steel piping systems is in services necessitating frequent dismantling for inspection and cleaning.



**THREADED FLANGES** are turned firmly onto matching pipe and are used where welding is not feasible. They are not recommended for severe cyclic service conditions. Their cheif merit lies in the fact that they can be assembled with welding, often used when alloy steel is essential for strength and where the necessary post-weld heat treatment is impractical.

**SOCKET WELDING FLANGES** are attached by inserting the pipe into the flange socket and applying a filet weld at the top of the hub. They are usually specified for small diameter pipe application.



1. Forged Steel Pipe Fittings for 1000 LBS (Art No.101 to 119) are usually made by Low Carbon Steel and in accordance to IS: 1239 – Part II unless until specified by the buyer.
2. Forged Steel Pipe Fittings for 3000 Lbs (Art No. 120 to 125) are made from material ASTM A105 and as per American Standard ASME B16.11-2009. Fittings of any other material as well as standard can also be manufactured on Customer's demands.
3. Forged Steel Pipe Fittings for 3000 LBS (Socket Weld Art No. 126 to 135) are usually made by Low Carbon and in accordance to IS: 4712 – 1984 unless until specified by the buyer.
4. Forged Fittings for 6000 Lbs and 9000 Lbs are also available on requirement.
5. Forged Flanges are made from material ASTM A105 and as per American Standard ASME B16.5-2009. Flanges of any other material as well as standard can also be manufactured on Customer's demands.
6. IBR Approved range is only offered with ASTM or above grades Materials.
7. Each IBR Fittings and Flanges are supplied with IBR Sr. No. marking and an IBR test certificate on FORM III C issued by Directors of Boilers, Punjab is also provided with material.
8. All fittings manufacturing with Thread Connection IS 554: 1985, BSP and B.S.P.T. Threads to N.P.T or any other standard can also be provided Customer's requirement.
9. All of our fittings range is also available with ZINC coat hot galvanized as per standard IS: 4736-1986 or Bombay Polish.
10. IS: 1239-Part II consequent from BS 1740:1965 and IS: 4712-1984 from ASME B16.11
11. All pressure depicted in LBS from its equivalent units in Kgs and vice- versa have been rounded off only for convenience.
12. In the rare event, there can be variation in standards / properties of the material used as stated, without compromising anywhere on quality and functioning of the products.
13. Owing to our ever continuous products development, dimensions & material are subject to change without any notice.

### OBJECTIVE OF MANAGMENT

<b>Production</b>	Production must but quality First.
<b>Quality</b>	Always maintain high standards of quality in work place and products.
<b>Development</b>	Development is a journey which has No end.
<b>Cost</b>	Always remain competitive by world standards and maintaining production levels that achieves economies of scale.
<b>Delivery</b>	Always deliver goods in time with excellent planning and by cutting down production lead time.
<b>Wealth</b>	Customer's satisfaction is our wealth.
<b>Safety</b>	Provide world class, safe and riskless work environment to our employees.
<b>Moral</b>	Always remain our moral standards high and run business with dignity according to the rules and regulations.
<b>Values</b>	Customer's are our ultimate Boss

### OUR ASSOCIATES

