



STEEL PIPE FLANGES

As per Specification No. IS : 6392

TYPE OF FLANGES

- SCREWED BOSS FLANGE
- SLIP-ON BOSS FLANGE
- PLATE FLANGE
- WELDING NECK FLANGE
- PLATE BLANK FLANGE



MINOTI ENGINEERING WORKS

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MINOTI BRAND STEEL PIPE FLANGES

FOREWORD

'MINOTI' brand Steel Pipe Flange covers the requirements for Cast, Forged and Plate or Flat Steel Pipe Flange for use in industry for Oil, Water, Steam, Air, Gas and Chemical services being, strictly manufactured under QC system of 'BUREAU OF INDIAN STANDARDS' – Other international standards are available on request.

MATERIAL SPECIFICATION

As Per IS:6392

CLASSIFICATION	MATERIAL	SPECIFICATION
1. FORGINGS	a. CARBON STEEL b. CARBON MOLYBDENUM STEEL c. CHROME MOLYBDENUM STEEL	IS : 2004-1970 Class 2 And 3 IS:1570-1961 Grade 20 Mo55 with 0.050 Max, of S&P i. IS:2611-1964 (Cr.1% & Mo 0.5%) ii. IS:4367-1967 GR. 10Cr.2 Mo1
2. CASTINGS	a. CARBON STEEL b. CHROME MOLYBDENUM STEEL	IS:2856-1964 GR.CSw-C20 and CSw -C25 IS:3038-1965 GR. 2, 4 & 5
3. ROLLED PLATES	a. CARBON STEEL b. CARBON MOLYBDENUM STEEL	IS:2002-1992 GR. 1, 2 & 3 IS:2041-1962 GR. 20 Mo55

CLASSIFICATION OF FLANGES

Product under following Class Designation

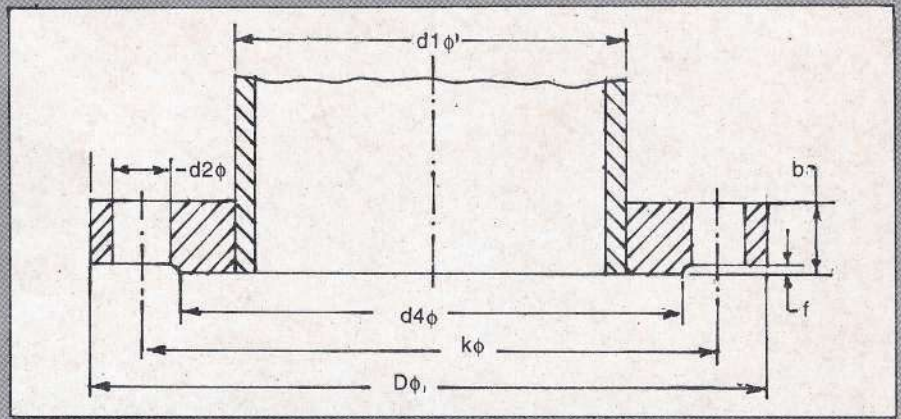
NP 0.60, NP 1.0, NP 1.6
(Other Classes on request)

Flanges available on request

* American Standards Association * German Pipe Flange * British Standard Flanges etc.

**PLATE FLANGES
FOR WELDING**

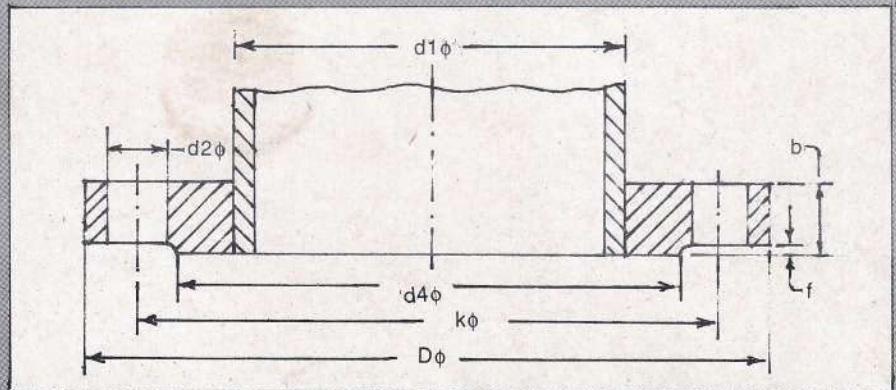
(Nominal Pressure 1.6 N/mm²)



NOM SIZE	PIPE O.D. d_1	FLANGE		RAISED FACE		BOLTING	DRILLING		
		D	b	d_4	f		No.	d_2	k
10	17.2	90	14	40	2	M12	4	14	60
15	21.3	95	14	45	2	M12	4	14	65
20	26.9	105	16	58	2	M12	4	14	75
25	33.7	115	16	68	2	M12	4	14	85
32	42.4	140	16	78	2	M16	4	18	100
40	48.3	150	16	83	3	M16	4	18	110
50	60.3	165	18	102	3	M16	4	18	125
65	76.1	185	18	122	3	M16	4	18	145
80	88.9	200	20	138	3	M16	8	18	160
100	114.3	220	20	158	3	M16	8	18	180
125	139.7	250	22	188	3	M16	8	18	210
150	168.3	285	22	212	3	M20	8	22	240
175	193.7	315	24	242	3	M20	8	22	270
200	219.1	340	24	268	3	M20	12	22	295
250	273	405	26	320	3	M24	12	26	355
300	323.9	460	28	378	4	M24	12	26	410
350	355.6	520	32	438	4	M24	16	26	470
400	406.4	580	36	490	4	M27	16	30	525
500	508	715	44	610	4	M30	20	33	650

**PLATE FLANGES
FOR WELDING**

(Nominal Pressure 1N/mm²)



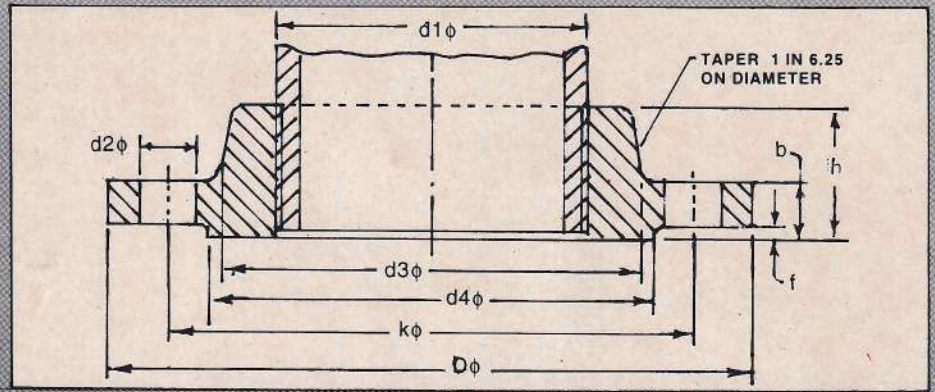
NOM SIZE	PIPE O.D. d_1	FLANGE		RAISED FACE		BOLTING	DRILLING		
		D	b	d_4	f		No.	d_2	k
200	219.1	340	24	268	3	M20	8	22	295
250	273	395	26	320	3	M20	12	22	350
300	323.9	445	26	370	4	M20	12	22	400
350	355.8	505	28	430	4	M20	16	22	460
400	406.4	565	32	482	4	M24	16	26	515
500	508	670	38	585	4	M24	20	26	620

NB. Above 500 also available on request

All dimensions in millimetres

SCREWD BOSS FLANGES

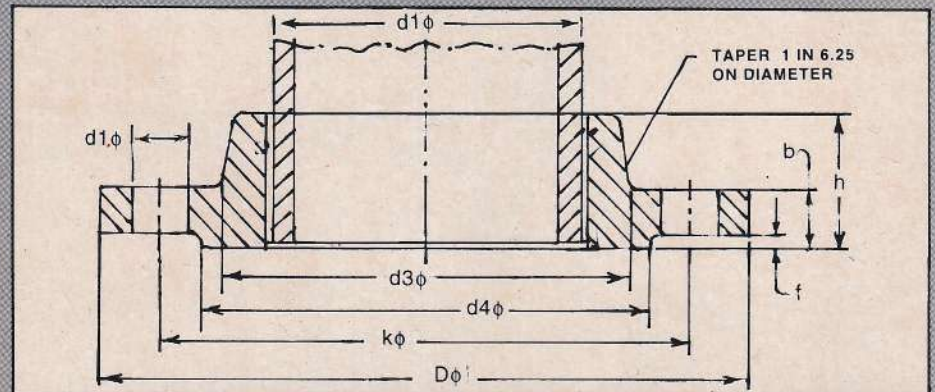
(Nominal Pressure 0.60 N/mm²)



NOM SIZE	PIPE O.D. d_1	FLANGE			RAISED FACE		BOLT-ING	DRILLING			Boss d_3
		D	b	h	d_4	f		No.	d_2	k	
6	10.2	65	10	18	25	2	M10	4	11	40	18
8	13.5	70	10	18	30	2	M10	4	11	45	22
10	17.2	75	12	20	35	2	M10	4	11	50	25
15	21.3	80	12	20	40	2	M10	4	11	55	30
20	26.9	90	14	24	50	2	M10	4	11	65	40
25	33.7	100	14	24	60	2	M10	4	11	75	50
32	42.4	120	14	26	70	2	M12	4	14	90	60
40	48.3	130	14	26	80	3	M12	4	14	100	70
50	60.3	140	14	28	90	3	M12	4	14	110	80
65	76.1	160	14	32	110	3	M12	4	14	130	100
80	88.9	190	16	34	128	3	M16	4	18	150	110
100	114.3	210	16	40	148	3	M16	4	18	170	130
125	139.7	240	18	44	178	3	M16	8	18	200	160
150	165.1	265	18	44	202	3	M16	8	18	225	185

SLIP-ON BOSS FLANGES FOR WELDING

(Nominal Pressure 0.60 N/mm²)



Nom Size	Pipe o.d. d_1	Flange			Raised Face		BOLT-ING	Drilling			Boss d_3
		D	b	h	d_4	f		No.	d_2	f	
6	10.2	65	10	18	25	2	M10	4	11	40	18
8	13.5	70	10	18	30	2	M10	4	11	45	22
10	17.2	75	12	20	35	2	M10	4	11	50	25
15	21.3	80	12	20	40	2	M10	4	11	55	30
20	26.9	90	14	24	50	2	M10	4	11	65	40
25	33.7	100	14	24	60	2	M10	4	11	75	50
32	42.4	120	14	26	70	2	M12	4	14	90	60
40	48.3	130	14	26	80	3	M12	4	14	100	70
50	60.3	140	14	28	90	3	M12	4	14	110	80
65	76.1	160	14	32	110	3	M12	4	14	130	100
80	88.9	190	16	34	128	3	M16	4	18	150	110
100	114.3	210	16	40	168	3	M16	4	18	170	130
125	139.7	240	18	44	178	3	M16	8	18	200	160
150	168.3	265	18	44	202	3	M16	8	18	225	185
200	219.1	320	20	44	258	3	M16	8	18	280	240
250	273	375	22	44	312	3	M16	12	18	335	293
300	323.9	440	22	44	365	4	M20	12	22	395	355

All dimensions in millimetres