



**PLANT STANDARD
HYDERABAD**

HY 724 42 98

REV. NO: 01

PAGE 1 OF 4

WELDING NECK FLANGE, CARBON STEEL,

NP: 1.6 Mpa (16kgf/cm²)

1.0 SCOPE:

This standard covers the designation, material, sizes, dimensions and other requirements of carbon steel welding neck flanges to DIN: 2633 for high temperature service (upto 400°C) and nominal pressure 1.6 Mpa (16 KGF/cm²) and of nominal diameters 10 to 500.

2.0 DESIGNATION :

A carbon steel welding neck flange of nominal diameter 80 shall be designated as:

2.1 On drawings:

- i) Material specification column: HY 724 42 98
- ii) Description column: WN FLANGE CS NP 1.6 ND 80

2.2 For placing indents on purchase: Welding neck flange, carbon steel, nominal pressure 1.6 Mpa (16 kgf/cm²), nominal diameter 80, HY 724 42 98.

2.3 For issuing enquiries and on purchase Orders: The above description shall be specified and copies of this standard and plant standard HY 085 14 99 (Technical delivery conditions) shall be enclosed.

3.0 COMPLIANCE WITH NATIONAL STANDARDS:

3.1 Dimensions : DIN: 2633

3.2 Tolerances : DIN: 2519

3.3 Material : ASME: SA 105/DIN:17200 Gr:C 22 N

4.0 TECHNICAL DELIVERY CONDITIONS:

As per plant standard HY 085 14 99

5.0 NOTE :

5.1 Weights given in the table are for general reference only and for commercial transactions.

5.2 Mpa = N/mm² = 10.2 kgf/cm².

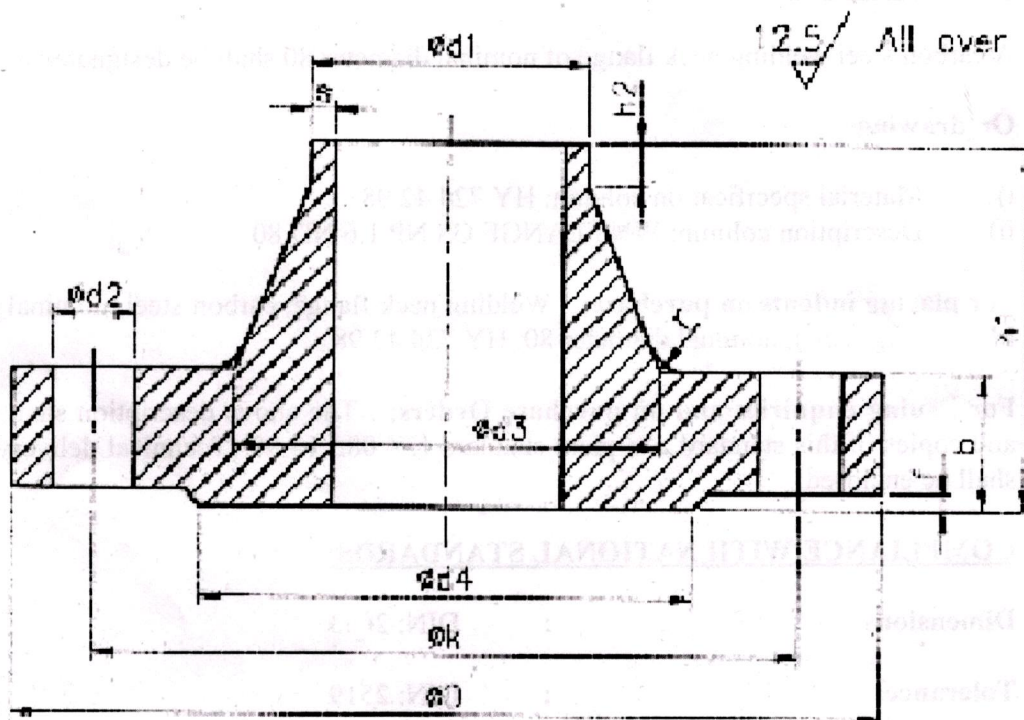
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Rev.No.	Rev.Date.	Revised:	Prepared:	Approved:	Date:
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HY 724 42 98

REV. NO.01

PAGE 2 OF 4

PLANT STANDARD
HYDERABAD



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PLANT STANDARD HYDERABAD

HY 724 42 98

REV. NO.01

PAGE 3 OF 4

Nom. Dia.	Conn- ecting pipe OD x t	FLANGE				NECK				RAISED FACE			BOLTING			WT./ PIEC		New code Old code	USER DIVISI ONS
		D	b	k	h1	d3	s	r	h2	d4	f	Bolt size	Holes No.	d2	E Kg				
10	17.2	17.1 x 2.31	14	60	35	28	1.8	4	6	40	2	M 12	4	14	0.580			HY 724 42 98 031	TGTC
15	21.3	21.3 x 2.77	14	65	35	32	2	4	6	45	2	M 12	4	14	0.648			HY 724 42 98 048	✓
20	26.9		16	75	38	40	2.3	4	6	58	2	M 12	4	14	0.952			781 23 10 062	✓
25	33.7	33.4 x 3.38	16	85	38	45	2.6	4	6	68	2	M 12	4	14	1.14			HY 724 42 98 080	
32	42.4		16	100	40	56	2.6	6	6	78	2	M 16	4	18	1.69			781 23 10 082	✓
40	48.3	48.3 x 3.68	16	110	42	64	2.6	6	7	88	3	M 16	4	18	1.86			HY 724 42 98 110	✓
50	60.3	60.3 x 3.91	18	125	45	75	2.9	6	8	102	3	M 16	4	18	2.53			HY 724 42 98 129	✓
65	76.1	76.1 x 3.2	18	145	45	90	2.9	6	10	122	3	M 16	4	18	3.06			HY 724 42 98 153	✓
80	88.9	88.9 x 4	20	160	50	105	3.2	8	10	138	3	M 16	8	18	3.70			781 23 10 122	✓
100	114.3	114.3 x 4.5	20	180	52	131	3.6	8	12	158	3	M 16	8	18	4.62			HY 724 42 98 170	ST ✓
125	139.7	139.7 x 5	22	210	55	156	4	8	12	188	3	M 16	8	18	6.30			781 23 10 142	✓
150	168.3	168.3 x 4.5	22	240	55	184	4.5	10	12	212	3	M 20	8	22	7.75			HY 724 42 98 196	✓
175	193.7		24	270	60	210	5.4	10	12	242	3	M 20	8	22	9.85			HY 724 42 98 218	✓
200	219.7	219.1 x 6.35	24	295	62	235	5.9	10	16	268	3	M 20	12	22	11.0			HY 724 42 98 242	ST
250	273	273.0 x 6.35	26	355	70	292	6.3	12	16	320	3	M 24	12	26	15.6			781 23 10 182	ST
300	323.9	323.9 x 8.38	28	410	78	344	7.1	12	16	378	4	M 24	12	26	22.0			HY 724 42 98 269	ST
350	355.6	355.6 x 7.92	30	470	82	390	8	12	16	438	4	M 24	16	26	31.2			781 23 10 202	ST
400	406.4	406.4 x 9.53	32	525	85	445	8	12	16	490	4	M 27	16	30	39.3			HY 724 42 98 285	ST
500	508		34	650	90	548	8	12	16	610	4	M 30	20	22	61.0			HY 724 42 98 307	ST

HY 724 42 98

REV. NO.01

PAGE 4 OF 4

PLANT STANDARD HYDERABAD



NOTE:

1. NOM. DIAMETERS IN BRACKETS SHOULD BE AVOIDED WHEREVER POSSIBLE.
2. ● – STANDARD AND STOCK SIZE
3. ◐ – STANDARD AND NON-STOCK SIZE
4. ○ – STANDARD SIZE NOT USED
5. ▲ – NON-STANDARD AND STOCK SIZE
6. ▴ – NON-STANDARD AND NON-STOCK SIZE.

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AMENDMENT-NOTIFICATION

HY 724 42 98

REV.NO.01

PAGE 1 OF 1

WELDING NECK FLANGE, CARBON STEEL,
NP: 1.6 MPa (16 kgf/cm²)

Cl. 3.1 - Add the year of DIN: 2633 as 1975.

3.2 - Add the year of DIN: 2519 as 1966

REF:	AMD.NO.	APPROVED	ISSUED	DATE	CUM.Sr.No
	01	AGM (E&CC)	SR.M(STDS)	AUG.93	0095