



PLANT STANDARD

HPBP TIRUCHIRAPPALLI

BPS 419026

Rev. No. 02

PAGE 01 OF 03

HANDWHEEL WITH PYRAMID HOLE (DIA 200 mm AND ABOVE)

0.0 SCOPE

0.1 This standard covers the requirements of off-set arm type handwheel with pyramid hole for sizes Ø 200 mm and above.

1.0 SPECIFICATION AND REFERENCE STANDARDS

Dimensions and preferred sizes	Figure 1 and Table 1 of this standard
Unspecified tolerances	As per relevant QWI
Material	Malleable Iron casting conforming to IS:14329
Surface finish	The surface should be smooth. Should be free from sharp edges and unevenness.
Marking (by embossing)	As shown in figure 1.
Manuufacture, workmanship, Packing, Preservation and other requirements	As per relevant quality procedures.

2.0 REFERRED STANDARDS (Only current versions are applicable)

IS : 14329 - Malleable iron castings.

3.0 DESIGNATION

3.1 A hand wheel of rim diameter 250 mm shall be designated as :

- i) Material spec column : -----
- ii) Description column : **HAND WHEEL 250**
- iii) Drawing No. column : **BPS 419026**
- iv) Material code column : -----

4.0 ORDERING DESCRIPTION

4.1 For placing indents, issuing enquiries and on purchase order, ordering description given below shall be followed.

HAND WHEEL 250 TO BPS 419026

Revisions 02
Brought upto date

Approved
STANDARDS SECTION
PRODUCT ENGINEERING/ FOSSILE BOILER
HPBP, TIRUCHIRAPPALLI

Rev. No. 02	Amd. No.	Reaffirmed	Prepared STANDARDS	Issued STANDARDS	Dt of 1st Issue MAY 1977
Dt. 30-06-2000	Dt.	Year			

5.0 ADDITIONAL INFORMATION

5.1 Copies of this standard shall be sent along with purchase order.

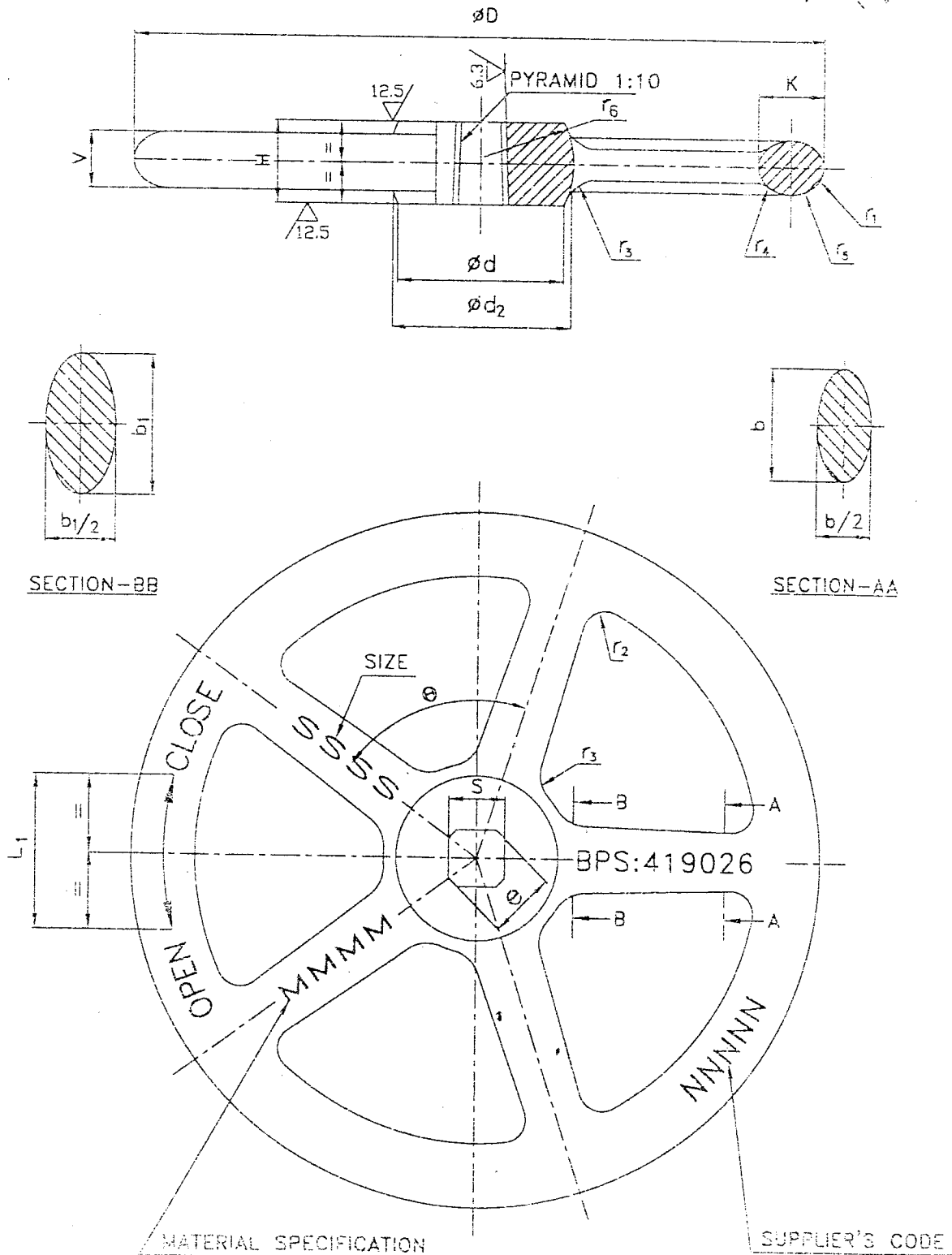
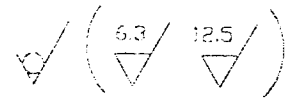
TABLE - 1

(All dimensions are in millimetres)

Rim ϕ of handwheel	ϕD	200	250	315	400	450	500	560	710
Dia of corresponding spindle	ϕd	20	24	28	32	36	40	44	52
Height of handwheel	H	24	28	32	37	42	47	52	62
Hub	S	15	18	21	24	27	30	33	39
		+ 0.0 - 0.3		+ 0.0 - 0.4					
	e	20.8	25	29	33.5	37.5	41.5	46	53
	ϕd_1	40	60	68	70	70	70	90	110
	ϕd_2	45	66	75	80	80	80	105	125
	r_3	10	12	12	15	15	15	15	15
Rim	r_6	28	28	30	30	30	30	30	40
	V	18	20	22	23	24	24	26	40
	k	24	26	30	34	36	36	38	60
	r_1	6	7	7	8	9	9	9	15
	r_4	16	16	18	20	22	24	24	26
	r_5	16	18	20	24	27	30	30	36
Arm	l_1	56	60	60	68	72	72	72	80
	b	18	20	22	26	30	30	30	38
	b_1	24	26	28	34	36	36	36	46
	r_2	6	8	10	11	12	12	12	15
No. of arms	N	3	3	3	4	4	4	5	7
Letter size (height) for embossing	l	8	8	10	10	12	12	12	15
Weight in Kg/piece		2.0	2.3	4.0	5.4	7.0	12.8	14.0	38.0

Figure-1

(ALL DIMENSIONS ARE IN MILLIMETRES)
(First Angle Projection)



Note : Size, Material spec and supplier's code are to be given in the purchase order for embossing.