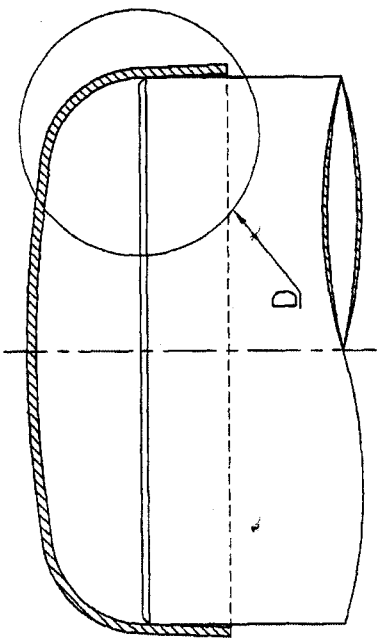


ALL DIMENSIONS ARE IN MILLIMETRES. FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER RELEVANT QCP / QP.

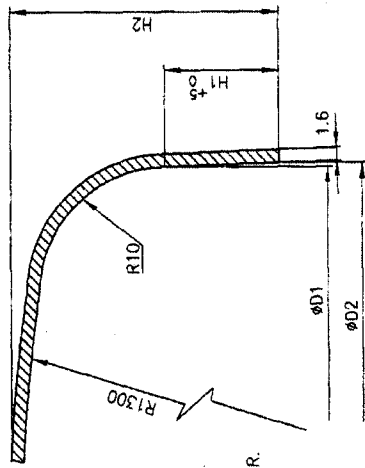
84556-3-V-0000-95348

SL.No.	DRAWING No.	MATL. CODE	MATL. SPECN.	ØD1	ØD2	H1	H2	WT.(Kg)	MATCH PIPE OD	NOMINAL BORE
01	3-V-K600-95348	96456550		57 ^{+0.75} ₋₀	57.5 ^{+1.5} ₀	30	47	0.11	57	2"
02	3-V-K601-95348	96456551		76 ^{+0.75} ₋₀	77.0 ^{+1.5} ₀	30	47	0.17	76.1	2-1/2"
03	3-V-K602-95348	96456552		89 ^{±1}	90.0 ^{+2.0} ₀	30	47	0.24	88.9	3"
04	3-V-K603-95348	96456553		108 ^{±1}	109.0 ^{+2.0} ₀	35	53	0.29	108.0	4"
05	3-V-K604-95348	96456554		114 ^{±1}	115.0 ^{+2.0} ₀	35	53	0.30	114.3	4"
06	3-V-K605-95348	96456555		127 ^{±1}	128.0 ^{+2.0} ₀	35	53	0.32	127.0	5"
07	3-V-K606-95348	96456556		159 ^{+1.5} ₋₁	161.0 ^{+2.0} ₀	35	53	0.59	159.0	6"
08	3-V-K607-95348	96456557		168 ^{+2.0} ₋₁	170.0 ^{+2.5} ₀	33	50	0.57	168.3	6"
09	3-V-K608-95348	96456558		219 ^{+2.0} ₋₁	221.0 ^{+2.5} ₀	40	60	0.84	219.1	8"
10	3-V-K609-95348	96456559		273 ^{+2.5} ₋₁	276.0 ^{+2.5} ₀	40	60	1.31	273.0	10"
11	3-V-K610-95348	96456560		324 ^{+2.5} ₋₁	327.0 ^{+2.5} ₀	45	71	1.63	323.9	12"
12	3-V-K611-95348	96456561		356 ^{+2.5} ₋₁	359.0 ^{+2.5} ₀	45	71	1.66	355.6	14"
13	3-V-K612-95348	96456562		368 ^{+2.5} ₋₁	371.0 ^{+3.0} ₀	45	71	2.04	368.0	14"
14	3-V-K613-95348	96456563		406 ⁺³ ₋₁	409.0 ^{+3.0} ₀	55	83	2.25	406.4	16"
15	3-V-K614-95348	96456564		508 ⁺³ ₋₁	512.0 ^{+3.0} ₀	55	83	4.10	508.0	20"
16	3-V-K615-95348	96456565		558 ^{+3.5} ₋₁	562.0 ^{+4.0} ₀	55	83	4.60	558.0	22"
17	3-V-K616-95348	96456566		660 ⁺⁴ ₋₁	665.0 ^{+4.5} ₀	65	90	6.50	660.4	26"

IS-1079 ST 34 - CERTIFY



DETAIL-D



NOTE:

MARK NOMINAL BORE SIZE ON END COVER.

NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING NO.	ITEM
--------	-------------	-----------	------------	----------------	------------	-------------	---------------	-------------	------

TYPE OF PRODUCT
OR NAME OF
CUSTOMER/PROJECT

CS

	BHARAT HEAVY ELECTRICALS LTD. UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI, 620014.	DRN	K.P.LEON	SIGN	24.07.95	NO OF VAR	-	
		CHD	P. BOOMINATHAN	24.07.95	24.07.95	-	-	
DEPT	385-121	SCALE	VL	REFERENCE INFORMATION	CAD: C395348	NO OF REQS	-	
CODE	320	NTS.	Ø	WEIGHT (KG)	-	NO OF REQS	-	
TITLE	METALLIC END COVER							REV
3-V-0000-9534800							U 01	

CAUTION: The information on this document is the property of BHARAT HEAVY ELECTRICALS LTD. It must not be used directly or indirectly in any way detrimental to the interest of the company.

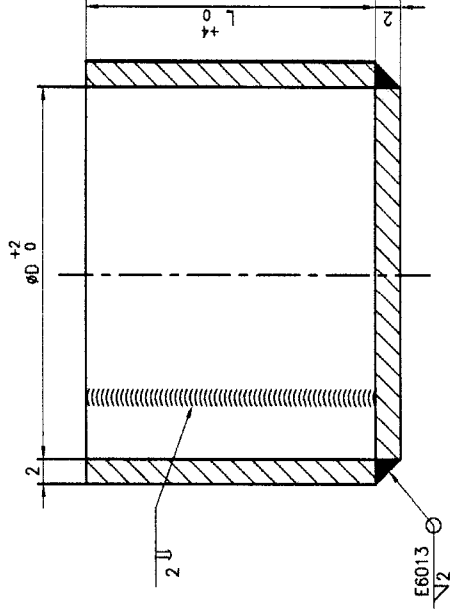
REV	DATE	ALTERED
		CHD & APPD

Size A3

ALL DIMENSIONS ARE IN MILLIMETRES. FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER RELEVANT QCP / QP.

3-V-0000-23461/6
DRAWING NO.

SL NO.	DRAWING NO.	COMPONENT CODE	+2 Ø 0	+4 L 0	WT (kg)	VALVE SIZE
01	3-V-N590-23461	964536440000	426	100	4.4	16"-150C
02	3-V-N593-23461	964536450000	387	90	3.6	14"-300C
03	3-V-N595-23461	964536460000	542	125	7.0	20"-300C
04	3-V-V137-23461	964535420000	359	100	4.0	300/1500C
05	3-V-V329-23461	964535430000	304	100	2.7	250/2500C
06	3-V-V465-23461	964535440000	545	200	5.4	500/3500C
07	3-V-C520-23461	964536900000	84	30	0.3	65/1500C
08	3-V-C524-23461	964536910000	184	75	1.1	150/1500C
09	3-V-C526-23461	964536920000	234	75	1.6	200/1500C
10	3-V-N826-23461/1	964650010000	850	90	12.4	32"/150C
11	3-V-W587-23461	964535770000	256	100	2.05	200/2750C
12	3-V-W551-23461	964535890000	408	50	3.06	500/2750C
13	3-V-V377-23461	964535910000	466	150	6.13	350/2500& 400/2500



NOTE:-

1. MATERIAL SPECIFICATION :- IS1079 Gr St 34 (BMC 10)

SL NO	DRAWING NO	COMP CODE	MATL SPECN	HEATTREATMENT	SCRAP SORT	NET WT (KG)	GROSS WT (KG)

TYPE OF PRODUCT

OR NAME OF

CUSTOMER/PROJECT

RETRACED WITH REV.04 ON 24.12.04



BHARAT HEAVY ELECTRICALS LTD.
UNIT: HIGH PRESSURE BOILER PLANT.
TIRUCHIRAPPALLI-620014.

365-121

DRN V. BAIRAVAN
CHD K. RAJASEKARAN
APPD M. RAJAKUMAR

DATE 24.12.04
24.12.04
24.12.04

DEPT VL

CODE S20



SCALE

N T S

WEIGHT (KG)

REFERENCE INFORMATION

CAD REF: 3V23461

NO. OF

REV

6

METALLIC END COVERS
(FABRICATED)

DRAWING NO.

3-V-0000-23461

REV

6

CAUTION: The information on this document is the property of BHARAT HEAVY ELECTRICALS LTD. It must not be used directly or indirectly in any way detrimental to the interest of the company.

REV DATE ALTERED VB

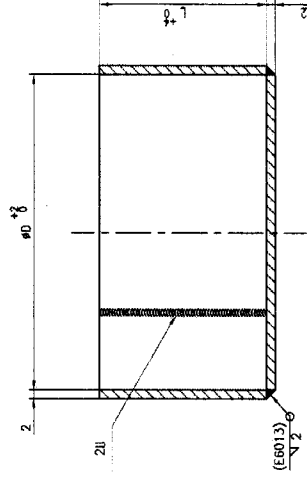
6 17.10.05 CHD & APPD KRS&MRK

SL No.13 INCLUDED.

Size A3

DRAWING ON 2-V-V-0000-15483/11

SL No.	DRAWING No.	MATL CODE	Ø ¹	L ²	NET WT (Kg)	APPLICABLE VALVE SIZES
01	2-V-V-0041-15483/1	96 453 001 0000	92.5	30	0.24	65/1500 GL RE
02	2-V-V-W049-15483/1	96 453 002 0000	98.5	30	0.27	65/1500 WG
03	2-V-V-W001-15483/1	96 453 003 0000	102.5	30	0.28	65/2500 WG, GL RE, 65/1500 NR
04	2-V-V-W004-15483/1	96 453 004 0000	106.5	40	0.35	65/1500 GL, 80/1500 GL RE
05	2-V-V-L161-15483/1	96 453 005 0000	112.5	40	0.38	80/1500 NR, 65/2500 NR
06	2-V-V-G145-15483/1	96 453 006 0000	117.5	40	0.40	80/2500/CL 80/1500 WG
07	2-V-V-W045-15483/1	96 453 007 0000	122.5	50	0.49	65/1500 RE, 80/2500 WG
08	2-V-V-L025-15483/1	96 453 008 0000	127.5	40	0.45	80/3500 RE, 80/2500 NR
09	2-V-V-G001-15483/1	96 453 009 0000	137.5	50	0.57	100/1500 RE, CL WG, 100/2500 RE, CL
10	2-V-V-L053-15483/1	96 453 010 0000	142.5	40	0.53	100/1500 NR
11	2-V-V-W036-15483/1	96 453 011 0000	147.5	40	0.56	80/3500 WG
12	2-V-V-W002-15483/1	96 453 012 0000	152.5	50	0.66	100/2500 WG, NR
13	2-V-V-W033-15483/1	96 453 013 0000	158	75	0.69	125/2500 WG
14	2-V-V-W041-15483/1	96 453 014 0000	163	90	0.73	125/1500 WG RE
15	2-V-V-W065-15483/1	96 453 015 0000	188	75	1.13	150/2500 WG, NR
16	2-V-V-W057-15483/1	96 453 016 0000	193	75	1.17	150/1500 WG, NR
17	2-V-V-G002-15483/1	96 453 017 0000	205	75	1.28	150/2500 RE, CL
18	2-V-V-W113-15483/1	96 453 018 0000	238	75	1.58	200/1500 WG, NR
19	2-V-V-L002-15483/1	96 453 019 0000	243	100	1.93	200/2500 NR
20	2-V-V-W003-15483/1	96 453 020 0000	248	100	1.98	200/2500 WG
21	2-V-V-L177-15483/1	96 453 021 0000	287.5	100	2.43	250/2500 NR, WG, 250/1500 WG
22	2-V-V-L129-15483/1	96 453 022 0000	293	100	2.50	250/1500 NR
23	2-V-V-W061-15483/1	96 453 023 0000	340	100	3.10	300/1500 WG, NR
24	2-V-V-W005-15483/1	96 453 024 0000	354.5	100	3.29	300/2500 WG, NR
25	2-V-V-W117-15483/1	96 453 025 0000	383	100	3.69	350/1500 WG
26	2-V-V-L121-15483/1	96 453 026 0000	393	100	3.84	350/1500 NR
27	2-V-V-W065-15483/1	96 453 027 0000	403	100	3.99	300/2000 WG
28	2-V-V-L029-15483/1	96 453 028 0000	418.5	100	4.22	300/2000 ELB, 350/2500 NR
29	2-V-V-W006-15483/1	96 453 029 0000	423	150	5.33	350/2500 WG
30	2-V-V-L081-15483/1	96 453 030 0000	443	150	5.70	350/2500 SCH
31	2-V-V-L113-15483/1	96 453 031 0000	448	100	4.68	300/2000 ELB, 350/2750 WG
32	2-V-V-W069-15483/1	96 453 032 0000	473	150	6.25	400/2500 WG
33	2-V-V-G137-15483/1	96 453 033 0000	482	150	6.43	400/2500 RE, 18"/1500 GV
34	2-V-V-W047-15483/1	96 453 034 0000	503	100	5.60	450/1500 WG
35	2-V-V-W073-15483/1	96 453 035 0000	533	175	8.10	450/2500 WG
36	2-V-V-W015-15483/1	96 453 036 0000	558	175	8.65	450/2000 WG
37	2-V-V-W017-15483/1	96 453 037 0000	613	150	9.17	600/1500 WG
38	2-V-V-W077-15483/1	96 453 115 0000	563	175	8.77	500/2750 WG
39	2-V-V-W006-15483/1	96 453 116 0000	197	75	1.21	150/2750 WG
40	2-V-V-L033-15483/1	96 453 174 0000	513	200	8.33	450/2500 SCH
41	2-V-V-L169-15483/1	96 453 175 0000	463	150	6.09	400/2500 SCH
42	2-V-V-W093-15483/1	96 453 176 0000	458	100	4.86	400/1500 WG
43	2-V-V-L089-15483/1	96 453 177 0000	168	80	1.02	125/1500 & 125/2500 SCH
44	2-V-V-W052-15483/1	96 453 355 0000	593	175	9.20	500/2850 SPL WG
45	2-V-V-W021-15483/1	96 453 359 0000	325	100	2.94	300/2500 WG (FOR P91)
46	2-V-V-W016-15483/2	96 465 009 0000	638	100	9.2	24"/1500 GV
47	2-V-V-W089-15483/2	96 465 011 0000	372	100	3.4	14"/1500 GV
48	2-V-V-W070-15483/2	96 465 010 0000	532	100	6.4	20"/1500 GV
49	2-V-V-W094-15483/2	96 465 012 0000	440	100	4.4	16"/3000 GV
50	2-V-V-W024-15483/1	96 465 137 0000	780	70	10.5	700MM/RHD
51	2-V-V-W066-15483/1	96 465 208 0000	311	40	1.8	10"/C300-RV
52	2-V-V-W081-15483/1	96 466 003 0000	685	125	10.0	550/2000 SPL GV



NOTE:
1. MATERIAL SPECIFICATION: IS 1079 GR. SK 34 (BMC10)

RETRACTED WITH REV. 10 ON 04.10.2006

REV	DATE	DESCRIPTION	BY	CHKD	DATE	REV	DATE	DESCRIPTION	BY	CHKD	DATE
1	04.10.06	CHD & APPD. MRK			06.06.99	1	06.06.99	CHD & APPD. MRK			06.06.99
2	04.10.06	CHD & APPD. MRK			06.06.99	2	06.06.99	CHD & APPD. MRK			06.06.99
3	04.10.06	CHD & APPD. MRK			06.06.99	3	06.06.99	CHD & APPD. MRK			06.06.99
4	04.10.06	CHD & APPD. MRK			06.06.99	4	06.06.99	CHD & APPD. MRK			06.06.99
5	04.10.06	CHD & APPD. MRK			06.06.99	5	06.06.99	CHD & APPD. MRK			06.06.99
6	04.10.06	CHD & APPD. MRK			06.06.99	6	06.06.99	CHD & APPD. MRK			06.06.99
7	04.10.06	CHD & APPD. MRK			06.06.99	7	06.06.99	CHD & APPD. MRK			06.06.99
8	04.10.06	CHD & APPD. MRK			06.06.99	8	06.06.99	CHD & APPD. MRK			06.06.99
9	04.10.06	CHD & APPD. MRK			06.06.99	9	06.06.99	CHD & APPD. MRK			06.06.99
10	04.10.06	CHD & APPD. MRK			06.06.99	10	06.06.99	CHD & APPD. MRK			06.06.99
11	04.10.06	CHD & APPD. MRK			06.06.99	11	06.06.99	CHD & APPD. MRK			06.06.99
12	04.10.06	CHD & APPD. MRK			06.06.99	12	06.06.99	CHD & APPD. MRK			06.06.99
13	04.10.06	CHD & APPD. MRK			06.06.99	13	06.06.99	CHD & APPD. MRK			06.06.99
14	04.10.06	CHD & APPD. MRK			06.06.99	14	06.06.99	CHD & APPD. MRK			06.06.99
15	04.10.06	CHD & APPD. MRK			06.06.99	15	06.06.99	CHD & APPD. MRK			06.06.99
16	04.10.06	CHD & APPD. MRK			06.06.99	16	06.06.99	CHD & APPD. MRK			06.06.99
17	04.10.06	CHD & APPD. MRK			06.06.99	17	06.06.99	CHD & APPD. MRK			06.06.99
18	04.10.06	CHD & APPD. MRK			06.06.99	18	06.06.99	CHD & APPD. MRK			06.06.99
19	04.10.06	CHD & APPD. MRK			06.06.99	19	06.06.99	CHD & APPD. MRK			06.06.99
20	04.10.06	CHD & APPD. MRK			06.06.99	20	06.06.99	CHD & APPD. MRK			06.06.99
21	04.10.06	CHD & APPD. MRK			06.06.99	21	06.06.99	CHD & APPD. MRK			06.06.99
22	04.10.06	CHD & APPD. MRK			06.06.99	22	06.06.99	CHD & APPD. MRK			06.06.99
23	04.10.06	CHD & APPD. MRK			06.06.99	23	06.06.99	CHD & APPD. MRK			06.06.99
24	04.10.06	CHD & APPD. MRK			06.06.99	24	06.06.99	CHD & APPD. MRK			06.06.99
25	04.10.06	CHD & APPD. MRK			06.06.99	25	06.06.99	CHD & APPD. MRK			06.06.99
26	04.10.06	CHD & APPD. MRK			06.06.99	26	06.06.99	CHD & APPD. MRK			06.06.99
27	04.10.06	CHD & APPD. MRK			06.06.99	27	06.06.99	CHD & APPD. MRK			06.06.99
28	04.10.06	CHD & APPD. MRK			06.06.99	28	06.06.99	CHD & APPD. MRK			06.06.99
29	04.10.06	CHD & APPD. MRK			06.06.99	29	06.06.99	CHD & APPD. MRK			06.06.99
30	04.10.06	CHD & APPD. MRK			06.06.99	30	06.06.99	CHD & APPD. MRK			06.06.99
31	04.10.06	CHD & APPD. MRK			06.06.99	31	06.06.99	CHD & APPD. MRK			06.06.99
32	04.10.06	CHD & APPD. MRK			06.06.99	32	06.06.99	CHD & APPD. MRK			06.06.99
33	04.10.06	CHD & APPD. MRK			06.06.99	33	06.06.99	CHD & APPD. MRK			06.06.99
34	04.10.06	CHD & APPD. MRK			06.06.99	34	06.06.99	CHD & APPD. MRK			06.06.99
35	04.10.06	CHD & APPD. MRK			06.06.99	35	06.06.99	CHD & APPD. MRK			06.06.99
36	04.10.06	CHD & APPD. MRK			06.06.99	36	06.06.99	CHD & APPD. MRK			06.06.99
37	04.10.06	CHD & APPD. MRK			06.06.99	37	06.06.99	CHD & APPD. MRK			06.06.99
38	04.10.06	CHD & APPD. MRK			06.06.99	38	06.06.99	CHD & APPD. MRK			06.06.99
39	04.10.06	CHD & APPD. MRK			06.06.99	39	06.06.99	CHD & APPD. MRK			06.06.99
40	04.10.06	CHD & APPD. MRK			06.06.99	40	06.06.99	CHD & APPD. MRK			06.06.99
41	04.10.06	CHD & APPD. MRK			06.06.99	41	06.06.99	CHD & APPD. MRK			06.06.99
42	04.10.06	CHD & APPD. MRK			06.06.99	42	06.06.99	CHD & APPD. MRK			06.06.99
43	04.10.06	CHD & APPD. MRK			06.06.99	43	06.06.99	CHD & APPD. MRK			06.06.99
44	04.10.06	CHD & APPD. MRK			06.06.99	44	06.06.99	CHD & APPD. MRK			06.06.99
45	04.10.06	CHD & APPD. MRK			06.06.99	45	06.06.99	CHD & APPD. MRK			06.06.99
46	04.10.06	CHD & APPD. MRK			06.06.99	46	06.06.99	CHD & APPD. MRK			06.06.99
47	04.10.06	CHD & APPD. MRK			06.06.99	47	06.06.99	CHD & APPD. MRK			06.06.99
48	04.10.06	CHD & APPD. MRK			06.06.99	48	06.06.99	CHD & APPD. MRK			06.06.99
49	04.10.06	CHD & APPD. MRK			06.06.99	49	06.06.99	CHD & APPD. MRK			06.06.99
50	04.10.06	CHD & APPD. MRK			06.06.99	50	06.06.99	CHD & APPD. MRK			06.06.99
51	04.10.06	CHD & APPD. MRK			06.06.99	51	06.06.99	CHD & APPD. MRK			06.06.99
52	04.10.06	CHD & APPD. MRK			06.06.99	52	06.06.99	CHD & APPD. MRK			06.06.99

TYPE OF PRODUCT
OR NAME OF
CUSTOMER/PROJECT

SCALE
NTS

WEIGHT (KG)
REF. TABLE

REFERENCE INFORMATION

NAME
SIGN

DATE
06.06.99

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06.06.99

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