

	BHARAT HEAVY ELECTRICALS LIMITED INDUSTRIAL VALVES PLANT 433, INDUSTRIAL COMPLEX GOINDWAL SAHIB DISTT. TARN TARAN- PUNJAB – 143422	No.BHEL:IVP: SC: JOB-WORK M/C:AD 2023-24/01 Dated 22.06.2023
NOTICE INVITING APPLICATIONS FOR REGISTRATION OF SUB CONTRACTORS		
BHARAT HEAVY ELECTRICALS LIMITED [BHEL] is manufacturing Industrial Valves and other Boiler accessories at its Industrial Valves Plant, Goindwal Sahib unit. For the year FY2023-24 we have to manufacture 1775 MT. Vendors are required for Job work as per the enclosed list of items having annual procurement value ~ Rs. 60 Lakh.		
Expression of interest and applications for registration are invited from sub-contractors (BHEL encourages procurement from Micro and Small Enterprises (MSEs), MSEs are requested to apply for registration) for doing the machining job of various components of Conventional Valves/TOA Valves/Isolating Valves/Wall blowers. Various work centers involved in the machining jobs shall be VTL, Horizontal Boring, Turning Centre, Milling, CNC, Conventional Lathe, Drill machine etc. Machining of Items for which vendors required immediately are:		
HM/LM Valves/TOA Valves/Isolating Valves/Wall Blowers	Casting Machining of Body, Yoke, Bonnet, Disc, other machining components for valves & Wall Blowers. List of components, where machining vendors are required, is attached herewith as Annexure-I. Sample drawings of some components are also attached. (refer SL. No. of list – 331 ,416, 16, 31, 586, 578, and 47)	
Chrome plating, nickel plating, cadmium plating, phosphating, nitriding/tuffriding, heat treatment etc. may also be required on certain components post machining (refer Annexure-II).		
BHEL is looking for prospective Sub Contractors for above job work.		
BHEL shall evaluate the vendors as per its established vendor selection, evaluation and registration procedure. Supplier Registration can be done online https://supplier.bhel.in/		
BHEL invites such vendors to visit its above located plant on any working day from Monday to Saturday between 0900 Hrs to 1730 Hrs and contact undersigned for any clarification regarding:		
Items details and requirement	Vendor registration form/procedure	
Rohit Kumar Engineer (Sub-Contracting)	Gopal Singh Sr. Manager (Sub-Contracting)	
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BHARAT HEAVY ELECTRICALS LIMITED INDUSTRIAL VALVES PLANT, 433, INDUSTRIAL COMPLEX, GOINDWAL SAHIB, DISTT. TARN TARAN, PUNJAB – 143 422		

List of Components

Annexure-I

S.No	Gr. No	Job/Component Description	Description of Valve/ Product (Used in)
1	G2530	Split Ring Assy-3200/3396	450/500-C500-CRHIV-BW-WCB/WCC/WC9
2	G2422	SUPPORT RING-3201/3200/3396	450/500-C900-HRHIV-BW-WC9
3	G2412	Adjusting Screw	450-C500-CRHIV-BW-WCB
4	G2434	LOCATING SCREW-3200	450-C500-CRHIV-BW-WCB
5	G2469	DISK-3200	450-C500-CRHIV-BW-WCB
6	G2470	BONNET-3200	450-C500-CRHIV-BW-WCB
7	G2517	Locking Plate-3200	450-C500-CRHIV-BW-WCB
8	G2414a	DOMED SCREW	450-C500-CRHIV-BW-WCB
9	G2573	SEAT RING Final	450-C500-CRHIV-BW-WCB/WC9
10	G2470a	Bonnet	450-C900SPL-HRHIV-BW-WC9
11	G2576	Seat Ring Rough	500-C500-CRHIV-BW-WCC
12	G2575	Seat Ring Final	500-C500-CRHIV-BW-WCC
13	G2574	Body	500-C500-CRHIV-BW-WCC/WC9
14	G2578a	Body Machining	550-C900-HRHIV-BW-C12A
15	G2412b	Adjusting Screw	550-C900-HRHIV-BW-WC9
16	G2578	Body Machining	550-C900-HRHIV-BW-WC9
17	G2483	Support Ring-3208/3390	550-C900-HRHIV-BW-WC9/C12A
18	G2510	Bonnet Machining	550-C900-HRHIV-BW-WC9/C12A
19	G2518	Locking Plate-3208/3390	550-C900-HRHIV-BW-WC9/C12A
20	G2520	Seat Ring final	550-C900-HRHIV-BW-WC9/C12A
21	G2531	Split Ring Assy-3208/3390	550-C900-HRHIV-BW-WC9/C12A
22	G2413	Adjusting Screw	700-C500-CRHIV-BW-WCC
23	G2408a	Body Machining	700-C600-CRHIV-BW-WCC
24	G2425a	SPLIT RING ASSY	700-C600-CRHIV-BW-WCC
25	G2433a	DISK-3204	700-C600-CRHIV-BW-WCC
26	G2408c	Body Machining	700-C900-HRHIV-BW-C12A
27	G2412c	Adjusting Screw	750-C500-CRHIV-BW-WCC
28	G2408b	Body Machining	750-C600/900-HRHIV-BW-C12A
29	G2408	Body Machining	750-C600/900-HRHIV-BW-WCC
30	G2414	Hex Domed Screw-3202	750-C600-CRHIV-BW-WCC

List of Components

Annexure-I

31	G2425	SPLIT RING ASSY-3245/3316	750-C600-CRHIV-BW-WCC
32	G2432	COVER SHEET	750-C600-CRHIV-BW-WCC
33	G2433	DISK-3245	750-C600-CRHIV-BW-WCC
34	G2321	Plate	2" to 8" Class 1500
35	G2325a	Sunk Key	2.5/3-C1500-GLV/GNV-BW-WCC/WCB/WC9
36	G2320a	Handle boss	2.5-C1500-GLV-BW-HO-WC9
37	G2327a	Yoke Stopper	2.5-C1500-GLV-BW-HO-WC9
38	G2328a	Gland	2.5-C1500-GLV-BW-HO-WC9
39	G2475	HAND WHEEL-G004	2.5-C1500-GLV-HO-WCC
40	G2476	Grip	2.5-C1500-GNV-BW-HO-WCC
41	G2477	Nut	2.5-C1500-GNV-BW-HO-WCC
42	G2478	Bolt	2.5-C1500-GNV-BW-HO-WCC
43	G2479	Lock plate	2.5-C1500-GNV-BW-HO-WCC
44	G2494	INTERMEDIATE FL.-G090	3/4-C1500-GNV-BW-MO-WCB
45	G2327b	Yoke Stopper	3-C1500-GLV-BW-HO-WC9
46	G2328b	Gland	3-C1500-GLV-BW-HO-WC9
47	G2345	Yoke Machining	3-C1500-GLV-BW-HO-WC9
48	G2481	Disc Final	3-C3500-GNV
49	G2320b	Handle boss	4-C1500-GLV-BW-HO-WCB
50	G2325b	Sunk Key	4-C1500-GLV-BW-HO-WCB
51	G2327c	Yoke Stopper	4-C1500-GLV-BW-HO-WCB
52	G2328c	Gland	4-C1500-GLV-BW-HO-WCB
53	G2328d	Gland	5-C1500-GLV-BW-GO-WC9
54	G2310	Yoke Machining	5-C1500-GNV-BW-MO-WC9
55	G2347	Eye Bolt Clamp	5-C1500-GNV-BW-MO-WC9
56	G2480	Retaining ring	5-C1500-GNV-BW-MO-WC9
57	G2604c	LOCK PLATE-E524/ LOCK PLATE-E525	10/12-C150-GV-FL-HO-WCB
58	G777	TUBE OF BYPASS	10-C150-GV-BP
59	G427	Body Machining	10-C150-GV-BW WCB/WCC /WC6/WC9
60	G467a	Wedge Rough Machining	10-C150-GV-BW-HO-CD3MN
61	G1099	LOCK HOOK-N206	10-C150-GV-BW-HW-WCB
62	G1095	LOCK BUSH-N206	10-C150-GV-BW-HW-WCB
63	G1203	RIB-K011	10-C150-GV-BW-HW-WCB
64	G1828	STUD-5402	10-C150-GV-BW-MO-WCB
65	G463	Wedge Rough Machining	10-C150-GV-CF8/CF8M
66	G2290	Wedge Rough	10-C150-GV-CF8M-ND
67	G1049	INDICATOR-N207	10-C150-GV-FL-HW-WCB
68	G484	Yoke Machining	10-C150-GV-HW- WCB/WCC/WC9/WC6

List of Components

Annexure-I

69	G467	Wedge Rough Machining	10-C150-GV-WCB/WCC NC WEDGE
70	G466	Wedge Rough Machining	10-C150-GV-WCB/WCC/WC9/WC6
71	G2431	BODY MACHINING	10-C300-FV-FL-CF8/CF8M
72	G778	TUBE OF BYPASS	10-C300-GV-BP
73	G925	FIXING CLAMP-K011	10-C300-GV-BW-HW-WCB
74	G1034	HUB-K020	10-C300-GV-BW-HW-WCB
75	G1110	LOCK PLATE	10-C300-GV-BW-HW-WCB
76	G1481	STRIKER PLATE-K020	10-C300-GV-BW-HW-WCB
77	G227a	Wedge Rough Machining	10-C300-GV-CF8M-NC
78	G2437a	Body Machining	10-C300-GV-FL-CF8 NC
79	G2437	Body Machining	10-C300-GV-FL-WCB/WC9 NC
80	G318	Yoke Machining	10-C300-GV-GO-WCB/WCC/WC9/WC6
81	G2460	Yoke Machining	10-C300-GV-HW/MO-CF8M NC
82	G320	Yoke Machining	10-C300-GV-HW-WCB/WCC
83	G225	Wedge Slitting	10-C300-GV-WCB/WCC/WC9
84	G226	Wedge Rough Machining	10-C300-GV-WCB/WCC/WC9
85	G227	Wedge Rough Machining	10-C300-GV-WCB/WCC/WC9 NC
86	G1038	INDICATOR DISC-1084	10-C300-RV-BW-GO-WCB
87	G1500a	THRUST PLATE-P728	10-C300-RV-BW-MO-CD3MN
88	G1500	THRUST PLATE-P366	10-C300-RV-BW-MO-WCB
89	G2454	Lantern Ring	10-C300-RV-CF8M
90	G2255	Body Machining	10-C400-RV-BW-CF8M
91	G1880c	Wedge Slitting - before welding	10-C600-GV-CF8
92	G1880a	Wedge - CF8	10-C600-GV-FL-GO-SG (F894L106S132)
93	G1880	Wedge Rough Machining	10-C600-GV-FL-MO-WCB/WCC/WC9
94	G1880b	Wedge Slitting - before welding	10-C600-GV-FL-MO-WCB/WCC/WC9
95	G1980	GLAND FLANGE	10-C600-GV-FL-MO-WCB-BP
96	G1991	TUBE OF BYPASS-F546	10-C600-GV-FL-MO-WCB-BP
97	G1876	Body Machining	10-C600-GV-FL-WCB/WC9
98	G1774	Body Machining	12" 600 GV FL WCB
99	G532	SLEEVE EXT. SPINDLE	12"-150 GV WCB
100	G1111	LOCK PLATE	12-C150/300-GV-FL-GO-WCB
101	G779	TUBE OF BYPASS	12-C150-GV-BP
102	G18d	Body Machining	12-C150-GV-BW CF8M-NC
103	G18e	Body Machining	12-C150-GV-BW-HO-CD3MN
104	G1204	RIB-K163	12-C150-GV-BW-HW-WCB
105	G1132a	PIN-E516	12-C150-GV-FL (Extension Spindle)

List of Components

Annexure-I

106	G1868b	PIN-E518	12-C150-GV-FL (Extension Spindle)
107	G2603b	GUIDE BRACKET-E518	12-C150-GV-FL (Extension Spindle)
108	G2604b	LOCK PLATE-E518	12-C150-GV-FL (Extension Spindle)
109	G2603c	GUIDE BRACKET-E524	12-C150-GV-FL-HO-WCB
110	G746	BALL-E086	12-C150-GV-FL-HW-WCB
111	G910	END COVER-E061	12-C150-GV-FL-HW-WCB
112	G1026	GUIDE BUSH-E196	12-C150-GV-FL-HW-WCB
113	G1035	HUB-E465	12-C150-GV-FL-HW-WCB
114	G1048	INDICATOR-E125	12-C150-GV-FL-HW-WCB
115	G1066	JOINT END-E081	12-C150-GV-FL-HW-WCB
116	G1067	JOINT END-E091	12-C150-GV-FL-HW-WCB
117	G1132	PIN-E067	12-C150-GV-FL-HW-WCB
118	G1133	PIN-E106	12-C150-GV-FL-HW-WCB
119	G1380	SPINDLE TOP-E465	12-C150-GV-FL-HW-WCB
120	G1385	SPINDLE-E209	12-C150-GV-FL-HW-WCB
121	G1507	TOP COVER-B004	12-C150-GV-FL-MO-WCB
122	G2467	Bottom Flange	12-C150-GV-WCB
123	G234	Wedge Slitting	12-C150-GV-WCB/WCC
124	G235	Wedge Rough Machining	12-C150-GV-WCB/WCC
125	G1237	Seat Ring Final	12-C300-FV-BW-CF8M
126	G1238	Seat Ring Final Stellite	12-C300-FV-FL-WCB
127	G780	TUBE OF BYPASS	12-C300-GV-BP
128	G26c	Body Machining	12-C300-GV-BW WCB/WCC/WC9 NC87
129	G1040	INDICATOR DISC-N628	12-C300-GV-BW-GO-WC9
130	G774	BUSH-K325	12-C300-GV-BW-GO-WCB
131	G837	COVER TUBE-K661 / ND68 INDICATOR TUBE ASSY-N790	12-C300-GV-BW-GO-WCB
132	G1093	LEVER PLATE-K325	12-C300-GV-BW-GO-WCB
133	G1096	LOCK BUSH-N213	12-C300-GV-BW-GO-WCB
134	G1101	LOCKING ARRGT.HOOK	12-C300-GV-BW-GO-WCB
135	G1112	LOCK PLATE	12-C300-GV-BW-GO-WCB
136	G1135	PIN-N812	12-C300-GV-BW-GO-WCB
137	G1493	SWITCH BRACKET-K325	12-C300-GV-BW-GO-WCB
138	G25a	Body Machining	12-C300-GV-FL WCB/WCC
139	G25c	Body Machining	12-C300-GV-FL-WCB-NC
140	G239	Wedge Slitting	12-C300-GV-WCB/WCC/WC6/WC9
141	G240	Wedge Rough Machining	12-C300-GV-WCB/WCC/WC6/WC9
142	G240b	Wedge Rough Machining	12-C300-GV-WCB/WCC/WC9 NC

List of Components

Annexure-I

143	G240c	Wedge Slitting - after welding	12-C300-GV-WCB/WCC/WC9 NC
144	G2267	Dis Rough + Final machining (except seat m/c)	12-C300-RV-BW-GO-WCB
145	G2263a	Stem	12-C300-RV-BW-MO-CF8M
146	G2264a	Seat Ring Final	12-C300-RV-BW-MO-CF8M
147	G2268a	Disc Nut	12-C300-RV-BW-MO-CF8M
148	G2263	Stem	12-C300-RV-BW-MO-WCB
149	G2264	Seat Ring Final (stellite)	12-C300-RV-BW-MO-WCB
150	G2268	Disc Nut	12-C300-RV-BW-MO-WCB
151	G2269	Back Seat Final	12-C300-RV-BW-MO-WCB
152	G2270	Back Seat Rough	12-C300-RV-BW-MO-WCB
153	G2272	Gland Flange	12-C300-RV-BW-MO-WCB
154	G2273	Gland Follower	12-C300-RV-BW-MO-WCB
155	G2274	Stopper	12-C300-RV-BW-MO-WCB
156	G2275	Sunk Key	12-C300-RV-BW-MO-WCB
157	G2276	Thurst Plate	12-C300-RV-BW-MO-WCB
158	G2263b	STEM-P729	12-C300-SV-BW-GO-CD3MN
159	G2264c	Seat Ring Final (stellite)	12-C300-SV-BW-GO-CD3MN
160	G2267a	Dis Rough + Final machining (except seat m/c)	12-C300-SV-BW-GO-CD3MN
161	G2268b	DISC NUT-P729	12-C300-SV-BW-GO-CD3MN
162	G2269b	BACK SEAT ASSY-P729	12-C300-SV-BW-GO-CD3MN
163	G2276a	THRUST PLATE-P729	12-C300-SV-BW-GO-CD3MN
164	G2264b	SEAT RING Final Stellite	12-C300-SV-FL-GO-CF8M
165	G2269a	BACK SEAT BUSH-P582	12-C300-SV-FL-GO-CF8M
166	G2438a	Dis Rough + Final machining (except seat m/c)-P639	12-C300-SV-FL-GO-CF8M
167	G2438	Dis Rough + Final machining (except seat m/c)	12-C300-SV-WCB
168	G1948	PIN-F768	12-C600-GV-BW-GO-WCB
169	G1889	Wedge Rough Machining	12-C600-GV-BW-GO-WCB/WCC
170	G1889a	Wedge Slitting - before welding	12-C600-GV-BW-GO-WCB/WCC
171	G1884a	Wedge Slitting - before welding	12-C600-GV-CF8
172	G1941	STEM	12-C600-GV-FL-CF8/WCB
173	G1885	Yoke Machining	12-C600-GV-FL-GO-CF8-BP
174	G1954	TUBE-1782	12-C600-GV-FL-MO-WCB-BP
175	G1941a	STEM (with Hard Chrome Plating)	12-C600-GV-FL-WC9

List of Components

Annexure-I

176	G2257	Body Machining	12-C600-GV-FL-WCC/WCB/WC9
177	G1970a	ARM ASSY-Z080	14-300-CF8M-BW-FV
178	G1970	ARM ASSY-Z023	14-300-WCB-BW-FV
179	G1972	LUG-Z023	14-300-WCB-BW-FV/WC9
180	G2550a	ARM-CF8	14-C150-FV-FL (Z082S182)
181	G2551a	FLAP-CF8	14-C150-FV-FL (Z082S182)
182	G2552a	Seat Ring Final -CF8	14-C150-FV-FL (Z082S182)
183	G2550b	ARM	14-C150-FV-FL-WCB
184	G2551b	FLAP Final	14-C150-FV-FL-WCB
185	G2552b	Seat Ring Final	14-C150-FV-FL-WCB
186	G781	TUBE OF BYPASS	14-C150-GV-BP
187	G838	COVER TUBE	14-C150-GV-BW-GO-WCB
188	G1136	PIN	14-C150-GV-BW-GO-WCB
189	G243	Wedge Rough Machining	14-C150-GV-CF8M/CF8
190	G243a	Wedge Slitting - after welding	14-C150-GV-CF8M/CF8
191	G532a	SLEEVE-E513	14-C150-GV-FL (Extension Spindle)
192	G1134a	PIN-E513	14-C150-GV-FL (Extension Spindle)
193	G1372a	SPIN EXTN PIN-E513	14-C150-GV-FL (Extension Spindle)
194	G2603a	GUIDE BRACKET-E513	14-C150-GV-FL (Extension Spindle)
195	G2604a	LOCK PLATE-E513	14-C150-GV-FL (Extension Spindle)
196	G244b	Wedge Rough Machining	14-C150-GV-FL-GO-CD3MN
197	G1113	LOCK PLATE	14-C150-GV-FL-GO-WCB
198	G1996	CAP PLATE-W002	14-C150-GV-FL-MO-WCB
199	G244a	Wedge Slitting - after welding	14-C150-GV-WCB/WCC
200	G244	Wedge Rough Machining	14-C150-GV-WCB/WCC
201	G2456	Body Machining	14-C300-FV-BW-CF8M
202	G246	Wedge Rough Machining	14-C300-GV CF8/CF8M
203	G782	TUBE OF BYPASS	14-C300-GV-BP
204	G247a	Wedge Rough Machining	14-C300-GV-BW-MO-C12A
205	G2615	Parting of PIPE DIA 406.4 X 42 X 6000 SA335P91 + Rough Seat Machining	14-C300-GV-BW-MO-C12A
206	G1414	STEM (with Hard Chrome Plating)	14-C300-GV-WC9
207	G247	Wedge Rough Machining	14-C300-GV-WCB/WCC/WC6/WC9
208	G1962	Body Machining	14-C300-WCB-BW-FV/WC9
209	G2368	Gland Flange	14-C600-RV-BW-MO-WCC

List of Components

Annexure-I

210	G2371	Key	14-C600-RV-BW-MO-WCC
211	G2373	Stopper	14-C600-RV-BW-MO-WCC
212	G2377	Yoke Machining	14-C600-RV-BW-MO-WCC
213	G2350	Body Machining	14-C600-RV-BW-WCB/WCC/WC9
214	G2362	Seat Ring Final	14-C600-RV-BW-WCB/WCC/WC9
215	G2359	Disk Nut	14-C600-RV-BW-WCB/WCC/WC9/C12A
216	G2365	Stem	14-C600-RV-MO-WCC
217	G2405	SEATRING ROUGH-NH50	14-C600-RV-WCB
218	G2559	Disk Final	14-C600-SV-FL-GO-WCC
219	G2560	Disk Rough	14-C600-SV-FL-GO-WCC
220	G2163b	CAP PLATE-W004	16/18-C300-GV-BW-GO-WCB
221	G2001	KNOCK PIN D16X25-Z029	16-300SPL-WCB-BW-FV
222	G2002	LUG-Z022	16-300SPL-WCB-BW-FV/WC9
223	G1998	Body Machining	16-300-WCB-BW-FV/SPL
224	G2463a	ARM Assembly - CF8	16-C150-FV-FL (Z089S182)
225	G2004a	PLUG-Z114	16-C150-FV-FL-CD3MN
226	G2449a	DISC NUT-Z114	16-C150-FV-FL-CD3MN
227	G2461a	Body Machining	16-C150-FV-FL-CD3MN
228	G2509a	LUG-Z114	16-C150-FV-FL-CD3MN
229	G2449	Disc Nut	16-C150-FV-FL-WCB
230	G2461	Body Machining	16-C150-FV-FL-WCB
231	G2466	Hinge Pin	16-C150-FV-FL-WCB
232	G2509	Lug Machining	16-C150-FV-FL-WCB
233	G783	TUBE OF BYPASS	16-C150-GV-BP
234	G839	COVER TUBE-N629	16-C150-GV-BW-GO-WCB
235	G248b	Wedge Rough Machining	16-C150-GV-CF8M
236	G1486	SUNK KEY-W057	16-C150-GV-FL-MO-WCB
237	G1495	THRUST BASE-E478	16-C150-GV-FL-MO-WCB
238	G1538	Felt Ring Washer -W057	16-C150-GV-FL-MO-WCB
239	G1765	Rib	16-C150-GV-FL-MO-WCB
240	G1853	INT.FLANGE-E423	16-C150-GV-FL-MO-WCB
241	G35a	Body Machining	16-C150-GV-FL-WCB/WCC/WC6/WC9
242	G331	Yoke Machining	16-C150-GV-MO-WCB/WCC
243	G220	Bonnet Machining	16-C150-GV-WCB/WCC
244	G248a	Wedge Slitting - after welding	16-C150-GV-WCB/WCC
245	G248	Wedge Rough Machining	16-C150-GV-WCB/WCC
246	G784	TUBE OF BYPASS	16-C300-GV-BP
247	G1137	PIN-N594	16-C300-GV-BW-GO-WCB
248	G1138	PIN-K325	16-C300-GV-BW-GO-WCB
249	G1373	SPIN EXTN TUBE-E324	16-C300-GV-BW-GO-WCB

List of Components

Annexure-I

250	G2616	LOCK PLATE	16-C300-GV-BW-GO-WCB
251	G1847	INDICATOR STUD-C434	16-C300-GV-BW-MO-WCB
252	G793	CAP TUBE-N616	16-C300-GV-FL-MO-WC9
253	G39a	Body Machining	16-C300-GV-FL-WCB/WCC
254	G250a	Wedge Slitting - before welding	16-C300-GV-WCB/WCC/WC6/WC9
255	G2369	Gland Flange	16-C300-RV-BW-MO-WCB
256	G2374	Stopper	16-C300-RV-BW-MO-WCB
257	G2376	Sunk Key	16-C300-RV-BW-MO-WCB
258	G2351	Body Machining	16-C300-RV-BW-WCB/WCC/WC9
259	G2360	Disk Nut	16-C300-RV-BW-WCB/WCC/WC9/C12A
260	G2367	Stem	16-C600-RV-BW-MO-WCC
261	G2370	Gland Flange	16-C600-RV-BW-MO-WCC
262	G2372	Key	16-C600-RV-BW-MO-WCC
263	G2375	Stopper	16-C600-RV-BW-MO-WCC
264	G2572	EYE BOLT	16-C600-RV-BW-MO-WCC
265	G2352	Body Machining	16-C600-RV-BW-WCB/WCC/WC9
266	G2364	Seat Ring Final	16-C600-RV-BW-WCB/WCC/WC9
267	G2361	Disk Nut	16-C600-RV-BW-WCB/WCC/WC9/C12A
268	G2556a	Flap Final	18-C150-FV-CF8
269	G2557a	Seat Ring Final	18-C150-FV-CF8
270	G2523	Seat Ring Rough	18-C150-FV-FL-WCB
271	G2553	BODY	18-C150-FV-FL-WCB
272	G2556	FLAP Final	18-C150-FV-FL-WCB
273	G2557	Seat Ring Final	18-C150-FV-FL-WCB
274	G2000a	DISC NUT-U946 (F316)	18-C150-FV-FL-WCB
275	G224	Bonnet Machining	18-C150-GV WCB/WCC
276	G785	TUBE OF BYPASS	18-C150-GV-BP
277	G42a	Body Machining	18-C150-GV-BW WCB/WCC
278	G841	COVER TUBE-N727	18-C150-GV-BW-GO-WCB
279	G1420	STEM	18-C150-GV-BW-GO-WCB
280	G41a	Body Machining	18-C150-GV-FL WCB/WCC
281	G333	Yoke Machining	18-C150-GV-MO-WCB/WCC
282	G251	Wedge Rough Machining	18-C150-GV-WCB/WCC
283	G251a	Wedge Slitting - after welding	18-C150-GV-WCB/WCC
284	G1256	Seat Ring Final Stellite	18-C150SPL-GV-WCB
285	G2254	Body Machining	18-C300-FV-BW-WCB
286	G2165a	Body Machining	18-C300-GV-BW-GO-C12A
287	G250b	Wedge Rough Machining	18-C300-GV-BW-GO-C12A
288	G1253a	Seat Ring Final	18-C300-GV-BW-GO-C12A

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289	G2613	Parting of PIPE DIA 457 X 42 X 6000 SA335P91 + Rough Seat Ring Machining	18-C300-GV-BW-GO-C12A
290	G2351a	Body Machining	18-C300-RV-BW-MO-C12A
291	G2366a	Stem with Hard Chrome plating	18-C300-RV-BW-MO-C12A
292	G2614	Parting of PIPE OD 508 X 80 X 6000 - SA335P91 + Rough Seat Ring Machining	18-C300-RV-BW-MO-C12A
293	G2007	Body Machining	20-150-WCB-BW-FV
294	G2009	KNOCK PIN D16X27-L805	20-150-WCB-BW-FV
295	G2010	KNOCK PIN D16X27-L805	20-150-WCB-BW-FV
296	G2011	LUG-Z021	20-150-WCB-BW-FV
297	G2000b	DISC NUT-Z115	20-C150-FV-FL-CD3MN
298	G2011a	LUG-Z115	20-C150-FV-FL-CD3MN
299	G2486a	Body Machining	20-C150-FV-FL-CD3MN
300	G2486	Body Machining	20-C150-FV-FL-WCB
301	G2025	CAP TUBE-N231	20-C150-GV-BW-GO-WCB-BP
302	G2027	COVER TUBE-N668	20-C150-GV-BW-GO-WCB-BP-SG
303	G1907	Wedge Rough Machining	20-C150-GV-BW-MO-WCB-BP
304	G1905	Body Machining	20-C150-GV-BW-MO-WCB-SG
305	G2026	CAP TUBE-N579	20-C150-GV-BW-MO-WCB-SG
306	G2040	TUBE-1780	20-C150-GV-BW-MO-WCB-SG
307	G1904a	BODY-NL89	20-C150-GV-FL-GO-CF8M
308	G1907b	WEDGE-K965	20-C150-GV-FL-GO-CF8M
309	G1904	Body Machining	20-C150-GV-FL-GO-WCB
310	G2030	INDICATOR RING-N224	20-C150-GV-FL-GO-WCB
311	G2021	TUBE OF BYPASS-N933	20-C150-GV-FL-GO-WCB-BP
312	G1908	Yoke Machining	20-C150-GV-FL-WCB
313	G1907a	Wedge Slitting - after welding	20-C150-GV-WCB/WCC
314	G2057	STEM	20-C300-GV-BW-GO-WCB
315	G2435	LOCK HOOK-W789	20-C300-GV-BW-GO-WCB
316	G1914	Wedge Rough Machining	20-C300-GV-BW-GO-WCB-BP
317	G2047	TUBE OF BYPASS-C285	20-C300-GV-BW-GO-WCB-BP
318	G1910	Body Machining	20-C300-GV-BW-MO-WCB
319	G1915	Yoke Machining	20-C300-GV-BW-WCB
320	G1913	Bonnet Machining	20-C300-GV-BW-WCB/WC9

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321	G1911	Body Machining	20-C300-GV-FL-GO-WCB
322	G1914a	Wedge Slitting - before welding	20-C300-GV-WCB/WCC
323	G96c	Body Machining	2-1/2-C150-GV-FL-HO-CF8
324	G96b	Body Machining	2-1/2-C150-GV-FL-HO-WCB
325	G45	Body Machining	2-1/2-C300-FV-BW-WCB/WCC (Rough)
326	G49	Body Machining Final	2-1/2-C300-GV- BW- WCB/WCC
327	G50	Body Rough	2-1/2-C300-GV- BW-WCB/WCC
328	G47	Body Machining	2-1/2-C300-GV-BW-CF8M/CF8
329	G2146	Body Machining	22-C300-GV-BW-GO-WCB
330	G2152	Bonnet Machining	22-C300-GV-BW-GO-WCB
331	G2150	Wedge Rough Machining	22-C300-GV-BW-GO-WCB
332	G2150a	Wedge Slitting - before welding	22-C300-GV-BW-GO-WCB
333	G2153	Back Seat Final	22-C300-GV-BW-GO-WCB
334	G2154	Back Seat Rough	22-C300-GV-BW-GO-WCB
335	G2162	COVER TUBE-NG12	22-C300-GV-BW-GO-WCB
336	G2163	CAP PLATE-W004	22-C300-GV-BW-GO-WCB
337	G2164	PIN-N398	22-C300-GV-BW-GO-WCB
338	G2585	INTERMEDIATE FL.-W200	22-C300-GV-BW-MO-WCB
339	G2397b	Body Machining excludes Hinge pin drilling, top flange drilling and top flange machining.	24-C150-FV-FL-CD3MN
340	G2519a	NUT-Z116	24-C150-FV-FL-CD3MN
341	G2497b	SCREW PLUG M56X3-Z116	24-C150-FV-FL-CD3MN
342	G2397a	Body Machining excludes Hinge pin drilling, top flange drilling and top flange machining.	24-C150-FV-FL-CF8M
343	G2403a	BOLT-Z094	24-C150-FV-FL-CF8M
344	G2404a	RIGHT/LEFT SIDE LUG	24-C150-FV-FL-CF8M
345	G2497	SCREW PLUG M56X3-U581	24-C150-FV-FL-CF8M
346	G2519	Nut	24-C150-FV-FL-CF8M
347	G2397	Body Machining excludes Hinge pin drilling, top flange drilling and top flange machining.	24-C150-FV-FL-WCB
348	G2402	SCREW PLUG M56X2-5107	24-C150-FV-FL-WCB
349	G2403	BOLT-5192	24-C150-FV-FL-WCB

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350	G2404	RIGHT/LEFT SIDE LUG	24-C150-FV-FL-WCB
351	G2497a	SCREW PLUG (B7)	24-C150-FV-FL-WCB
352	G2474	Nut	24-C150-FV-WCB
353	G1095a	LOCK BUSH-N954	24-C150-GV-BW-GO-WCB-BP
354	G1921	Wedge Rough Machining	24-C150-GV-BW-MO-WCB
355	G1921a	Wedge Slitting - before welding	24-C150-GV-BW-MO-WCB
356	G2081	STEM	24-C150-GV-BW-MO-WCB
357	G2071	INTERMEDIATE FLG-B651	24-C150-GV-BW-MO-WCB
358	G1919	Body Machining	24-C150-GV-BW-MO-WCB-BP
359	G2066	COVER-1083	24-C150-GV-BW-MO-WCB-SG
360	G1922	Yoke Machining	24-C150-GV-BW-WCB
361	G2080	STEM	24-C150-GV-FL-GO-WCB
362	G2069	INDICATOR RING-1757	24-C150-GV-FL-GO-WCB
363	G1918	Body Machining	24-C150-GV-FL-WCB
364	G1920	Bonnet Machining	24-C150-GV-FL-WCB
365	G2251	STEM-E495 Extension Spindle	24-C150-GV-GO-WCB
366	G2568	STEM (DO.START)-NG07	26-C300-GV-BW-MO-WCB
367	G2564	BYPASS TUBE-NH97	26-C300-GV-BW-MO-WCB-BP
368	G2567	LANTERN RING-NG07	26-C300-GV-BW-MO-WCB-SG
369	G2450	Body Machining	26-C300-GV-BW-WCB
370	G2451	Wedge Rough	26-C300-GV-BW-WCB
371	G2451a	Wedge Slitting - before welding	26-C300-GV-BW-WCB
372	G2452	Bonnet Machining	26-C300-GV-BW-WCB
373	G2490	Seat Ring Rough	26-C300-GV-BW-WCB
374	G2521	Seat Ring final	26-C300-GV-BW-WCB
375	G2624	Body Machining	28-C300-GV-BW-WCB
376	G1264	Seat Ring Final	2-C150/C300-FV-FL-WCB
377	G51	Body Machining	2-C150-FV-BW-CF8M/CF8
378	G53	Body Machining	2-C150-FV-BW-WCB/WCC
379	G55	Body Machining	2-C150-GV-BW-CF8/CF8M
380	G927	FIXING CLAMP-K324	2-C150-GV-BW-HW-WCB
381	G58	Body Machining	2-C150-GV-BW-WCB/WCC/WC6/WC9
382	G56	Body Machining	2-C150-GV-FL-CF8/CF8M
383	G1104	LOCK HOOK-N201	2-C150-GV-FL-HW-CF8
384	G60	Body Machining	2-C150-GV-FL-WCB/WCC
385	G2548	Seat Ring Final	2-C300-FV-BW-WC9
386	G1263	Seat Ring Final Stellite	2-C300-FV-FL-WC6
387	G66	Body Machining	2-C300-GV-BW-CF8/CF8M
388	G1519	TUBE	2-C300-GV-BW-HW-WCB
389	G70	Body Machining	2-C300-GV-BW-WCB/WCC/WC6/WC9
390	G67	Body Machining	2-C300-GV-FL-CF8M/CF8

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391	G71	Body Machining	2-C300-GV-FL-WCB/WCC/WC6/WC9
392	G342	Yoke Machining	2-C300-GV-MO-CF8/CF8M
393	G262	Wedge Slitting	2-C300-GV-WCB/WCC/WC9/WC6
394	G1268	Seat Ring Final	2-C300-RV-BW-MO-WCB
395	G2488	Disk Rough Stellite	2-C300-RV-CF8M
396	G1206	RING OF INDEX-K333	2-C300-RV-FL-HW-WCB
397	G1211	SCALE OF INDEX-K333	2-C300-RV-FL-HW-WCB
398	G1269	Seat Ring Final Stellite	2-C300-RV-FL-HW-WCB
399	G1267	Seat Ring Final	2-C300-SV-BW-HW-CF8
400	G1430a	STEM (with Hard Chrome Plating)	2-C300-SV-BW-MO-WC9
401	G2492a	Disk Rough	2-C300-SV-CF8M
402	G1429a	STEM (F316)	2-C300-SV-FL-HO-WCB-SG
403	G1839	SW FLANGE 2/300-A941	2-C300-SV-FL-HW-WCB
404	G2492	Disk Rough	2-C300-SV-WC6
405	G2256	Body Machining	2-C600-GV-BW-CF8M
406	G264	Wedge Rough Machining	2-C600-GV-CF8M/CF8
407	G80	Body Machining	2-C600-GV-FL-CF8M/CF8
408	G1105	LOCK HOOK-N204	2-C600-GV-FL-HW-WCB
409	G1115	LOCK PLATE	2-C600-GV-FL-HW-WCB
410	G83	Body Machining	2-C600-GV-FL-WCB/WCC/WC6/WC9
411	G266	Wedge Rough Machining	2-C600-GV-WCC/WCB/WC9/WC6
412	G2511	Bonnet Machining	32-C150-GV WCB
413	G2563	LANTERN RING	32-C150-GV-BW-MO-WCB
414	G2562	GLAND FLANGE	32-C150-GV-BW-MO-WCB
415	G2617	GLAND FOLLOWER-N827	32-C150-GV-BW-MO-WCB-SG
416	G2473	Body Machining	32-C150-GV-BW-WCB
417	G2491	Seat Ring Rough	32-C150-GV-BW-WCB
418	G2472	Yoke Machining	32-C150-GV-MO-WCB
419	G2525	Seat Ring final	32-C150-GV-WCB
420	G2526	Wedge Rough	32-C150-GV-WCB
421	G2526a	Wedge Slitting - after welding	32-C150-GV-WCB
422	G2527	Stem Machining	32-C150-GV-WCB
423	G1272	Seat Ring Final Stellite	3-C150-FV-FL-CF8M
424	G1273	Seat Ring Final	3-C150-FV-FL-CF8M
425	G96a	Body Machining	3-C150-GV-FL-HO-CD3MN
426	G100	Body Machining	3-C300-FV-FL-CF8M/CF8
427	G1282	Seat Ring Final Stellite	3-C300-FV-FL-WCB
428	G1283	Seat Ring Final	3-C300-FV-FL-WCB
429	G103	Body Machining	3-C300-FV-FL-WCB/WCC
430	G1281	Seat Ring Final	3-C300-FV-WC9/WC6

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431	G104	Body Machining	3-C300-GV-BW-CF8M/CF8
432	G105	Body Machining	3-C300-GV-FL-CF8M/CF8
433	G928	FIXING CLAMP	3-C300-GV-FL-HW-WCB
434	G1036	HUB-K011	3-C300-GV-FL-HW-WCB
435	G1482	STRIKER PLATE-N209	3-C300-GV-FL-HW-WCB
436	G1501	THRUST PLATE-P339	3-C300-RV-BW-HW-CF8M
437	G2120	NUT-P408	3-C300-RV-BW-HW-CF8M
438	G1207	RING OF INDEX-K334	3-C300-RV-FL-HW-WCB
439	G1212	SCALE OF INDEX	3-C300-RV-FL-HW-WCB
440	G1841	SW FLANGE 3/300-A943	3-C300-RV-FL-MO-WCB
441	G915	END COVER-S847	3-C600-GV-BW-HW-WCB
442	G1041	INDICATOR DISC-1149	3-C600-GV-BW-HW-WCB
443	G1116	LOCK PLATE	3-C600-GV-BW-HW-WCB
444	G1522	TUBE	3-C600-GV-BW-HW-WCB
445	G2302a	Wedge Slitting - before welding	3-C600-GV-CF8M
446	G2396	Yoke Machining	3-C600-GV-HW-CF8M
447	G2123	NUT	4" 150 FV WCB
448	G1148a	PLUG-Z113	4-C150-FV-BW-CD3MN
449	G1294a	SEAT RING-Z113	4-C150-FV-BW-CD3MN
450	G1294	Seat Ring Final Stellite	4-C150-FV-CF8/CF8M
451	G1295	Seat Ring Final Stellite	4-C150-FV-FL-WCB
452	G1303	Seat Ring Final	4-C300-FV-BW-CF8
453	G1304	Seat Ring Final Stellite	4-C300-FV-BW-CF8M
454	G1306	Seat Ring Final	4-C300-FV-FL-WCB
455	G1307	Seat Ring Final Stellite	4-C300-FV-FL-WCB
456	G1037	HUB-K357	4-C300-GV-BW-HW-WCB
457	G1155	SCREW PLUG - 1/2-F604	4-C300-GV-BW-HW-WCB
458	G1483	STRIKER PLATE C-K268	4-C300-GV-BW-HW-WCB
459	G918	END COVER-S833	4-C300-GV-FL-HW-WCB
460	G1042	INDICATOR DISC-S833	4-C300-GV-FL-HW-WCB
461	G2119	BUSH (STEM)-P408	4-C300-RV-BW-HW-CF8M
462	G1313	Seat Ring Final	4-C300-RV-BW-MO-CF8M
463	G1314	Seat Ring Final Stellite	4-C300-RV-BW-MO-CF8M
464	G1316	Seat Ring Final Stellite	4-C300-RV-BW-MO-WCB
465	G2114	HUB-E489	4-C300-RV-BW-MO-WCB
466	G2489	Lock Plate	4-C300-RV-CF8M
467	G1213	SCALE OF INDEX-2886	4-C300-RV-FL-HW-WCB
468	G1317a	SEAT RING-P725	4-C300-SV-BW-HO-CD3MN
469	G1317	Seat Ring Final	4-C300-SV-BW-MO-WCB
470	G1318a	Seat Ring Final	4-C600-GV-BW-HW-CF8M
471	G1318	Seat Ring Final	4-C600-GV-BW-HW-WC6
472	G1319	Seat Ring Final	4-C600-GV-BW-HW-WCC
473	G162	Body Machining	4-C600-GV-BW-WCB/WCC/WC6/WC9

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474	G163a	Body Machining	4-C600-GV-FL-CF8M
475	G1835	STUD-K248	4-C600-GV-FL-HW-WCB
476	G163	Body Machining	4-C600-GV-FL-WCB/WCC
477	G296	Wedge Rough Machining	4-C600-GV-WCB/WCC/WC9/WC6
478	G296b	Wedge Slitting - before welding	4-C600-GV-WCB/WCC/WC9/WC6
479	G296a	Wedge Rough Machining	4-C600-GV-WCB-CF8M
480	G296c	Wedge Slitting - before welding	4-C600-GV-WCB-CF8M
481	G165	Body Machining	5-C150-FV-FL-WCB/WCC/WC6/WC9
482	G169	Body Machining	5-C300-GV-BW-WCB/WCC/WC6/WC9
483	G169a	Body edge preparation only	5-C300-GV-BW-WCB/WCC/WC6/WC9
484	G2584	Body Machining	5-C300-RV/SV-BW-WCB/WC9
485	G1320	Seat Ring Final Stellite	6-C150-FV-BW-CF8/CF8M
486	G1322	Seat Ring Final Stellite	6-C150-FV-BW-WCB
487	G1321	Seat Ring Final	6-C150-FV-FL-CF8M
488	G1323	Seat Ring Final	6-C150-FV-FL-WCB
489	G787	TUBE OF BYPASS	6-C150-GV-BP
490	G175	Body Machining	6-C150-GV-BW-CF8M/CF8
491	G1117	LOCK PLATE	6-C150-GV-BW-HW-CF8M
492	G1527	TUBE	6-C150-GV-BW-MO-WCB
493	G180	Body Machining	6-C150-GV-BW-WCB/WCC
494	G297	Wedge Rough Machining	6-C150-GV-CF8/CF8M CF8M
495	G302a	Wedge Rough Machining	6-C150-GV-CF8M NC WEDGE
496	G176	Body Machining	6-C150-GV-FL-CF8C/CF8/CF8M
497	G302c	Wedge Machining	6-C150-GV-FL-HO-CD3MN
498	G1127	MOUNTING PLATE-N204	6-C150-GV-FL-HW-WCB
499	G1870	CONN TUBE-E487	6-C150-GV-FL-HW-WCB
500	G181	Body Machining	6-C150-GV-FL-WCB/WCC/WC9
501	G302	Wedge Rough Machining w/o T slot	6-C150-GV-WCB/WCC NC WEDGE
502	G302b	Wedge T slot Machining	6-C150-GV-WCB/WCC NC WEDGE
503	G1331	Seat Ring Final Stellite	6-C300-FV-BW-CF8M
504	G1333	Seat Ring Final	6-C300-FV-BW-WC9
505	G1332	Seat Ring Final	6-C300-FV-CF8/CF8M
506	G186	Body Machining	6-C300-FV-FL-CF8/CF8M
507	G1334	Seat Ring Final Stellite	6-C300-FV-FL-WCB
508	G1335	Seat Ring Final	6-C300-FV-FL-WCB
509	G189	Body Machining	6-C300-FV-FL-WCB/WCC
510	G195	Body Machining	6-C300-GV-BW-CF8M/CF8

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511	G2281	Wedge Rough	6-C300-GV-BW-HW-CF8M-ND
512	G920	END COVER-S836	6-C300-GV-BW-HW-WCB
513	G1044	INDICATOR DISC-N248	6-C300-GV-BW-HW-WCB
514	G1118	LOCK PLATE	6-C300-GV-BW-HW-WCB
515	G198	Body Machining	6-C300-GV-BW-WCB/WCC/WC6/WC9
516	G305	Wedge Rough Machining	6-C300-GV-CF8M/CF8
517	G309b	Wedge Rough Machining	6-C300-GV-WCB/WCC NC
518	G309	Wedge Rough Machining	6-C300-GV-WCB/WCC/WC9/WC6
519	G1208	RING OF INDEX-K335	6-C300-RV-FL-HW-WCB
520	G1214	SCALE OF INDEX	6-C300-SV-BW-HW-WCB
521	G1925	Body machining	6-C600-FV-BW-WC6/WCB/WCC
522	G2583	BODY-6-C600-FV-FL-WCC-Z103	6-C600-FV-FL-WCC
523	G789	TUBE OF BYPASS	6-C600-GV-BP
524	G1106	LOCK HOOK-N213	6-C600-GV-BW-HW-WCB
525	G1346	Seat Ring Final	6-C600-GV-BW-HW-WCC
526	G1347	Seat Ring Final	6-C600-GV-BW-MO-WC9
527	G1346a	SEAT RING Final -CF8	6-C600-GV-FL-HO (F514G178L109S132)
528	G1348	Seat Ring Final Stellite	8-C150-FV-BW-CF8
529	G1349	Seat Ring Final	8-C150-FV-CF8M/CF8
530	G1350	Seat Ring Final	8-C150-FV-FL-WCB
531	G1351	Seat Ring Final Stellite	8-C150-FV-FL-WCB
532	G2284	Wedge Rough	8-C150-GV-BW-CF8M-ND
533	G1107	LOCK HOOK-N205	8-C150-GV-BW-HW-WCB
534	G929	FIXING CLAMP-K163	8-C150-GV-BW-HW-WCB
535	G931	FIXING PLATE-K011	8-C150-GV-BW-HW-WCB
536	G1120	LOCK PLATE	8-C150-GV-BW-HW-WCB
537	G1205	RIB-K164	8-C150-GV-BW-HW-WCB
538	G1484	STRIKER PLATE-K011	8-C150-GV-BW-HW-WCB
539	G472	Wedge Slitting	8-C150-GV-CF8M/CF8
540	G477a	Wedge Rough Machining	8-C150-GV-FL-HO-CD3MN
541	G1128	MOUNTING PLATE-N205	8-C150-GV-FL-HW-WCB
542	G477	Wedge Rough Machining	8-C150-GV-WCB/WCC NC
543	G1361	Seat Ring Final	8-C300-FV-FL-WCB
544	G1360	Seat Ring Final Stellite	8-C300-FV-FL-WCB/CF8M
545	G923	ENDCOVER-S837	8-C300-GV-BW-HW-WC9
546	G1045	INDICATOR DISC-N244	8-C300-GV-BW-HW-WC9
547	G1121	LOCK PLATE	8-C300-GV-BW-HW-WCB
548	G203a	Body Machining	8-C300-GV-FL-CF8M/CF8
549	G210a	Body Machining	8-C300-GV-FL-
550	G1209	RING OF INDEX	8-C300-RV-BW-HW-WCB
551	G1215	SCALE OF INDEX-2925	8-C300-RV-BW-HW-WCB
552	G456	Body Machining	8-C300-SV-FL-CF8/CF8M

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553	G1476b	STEM (with Hard Chrome Plating)	8-C400SPL-RV-BW-GO-WC9
554	G791	TUBE OF BYPASS	8-C600-GV-BP
555	G1108	LOCK HOOK-N954	8-C600-GV-FL-GO-WCB
556	G1122	LOCK PLATE	8-C600-GV-FL-GO-WCB
557	G1030	H W RETAINER-1530	8-C600-GV-RTJ-HW-WC6
558	G1859	INT. FLANGE-F508	8-C600-GV-RTJ-HW-WC6
559	G2512	CONNECTOR 3/8INC-40051902	Air Valve
560	G1867a	SLEEVE-E512	Extension Spindle
561	G746a	BALL-E512	Extension Spindle
562	G1066a	JOINT END-E512	Extension Spindle
563	G1133a	PIN-E513	Extension Spindle
564	G1868a	PIN-E512	Extension Spindle
565	G1067a	JOINT END-E512	Extension Spindle
566	G2260	Gas Cutting of plate	Tk 135 to <155
567	G2589	Gas Cutting of Plate	Tk 155 to <175
568	G2590	Gas Cutting of Plate	Tk 175 to <190
569	G2170	GUARD ASSY-20003900	Wall Blower
570	G2174	VALVE STEM ASSY-30068702	Wall Blower
571	G2176	VALVE STEM	Wall Blower
572	G2177	VALVE BLANK	Wall Blower
573	G2179	WORM-30011901	Wall Blower
574	G2180	WORM-30011903	Wall Blower
575	G2181	WORM L.H-30011902	Wall Blower
576	G2182	ELEMENT GEAR-30012200	Wall Blower
577	G2183	RAMP CAM-30013700	Wall Blower
578	G2184	RACK-30013800	Wall Blower
579	G2185	CAM SHAFT COLLAR-30014700	Wall Blower
580	G2186	WORM SHAFT-30015100	Wall Blower
581	G2189	WORM GEAR SHAFT-30015500	Wall Blower
582	G2194	RACK PINION-30015600	Wall Blower
583	G2197	SPUR GEAR 12T-30074000	Wall Blower
584	G2198	MOTOR PINION 30T-40023200	Wall Blower
585	G2199	GEAR 40T-40024600	Wall Blower
586	G2200	SPUR GEAR-40025200	Wall Blower
587	G2201	PINION-40025900	Wall Blower

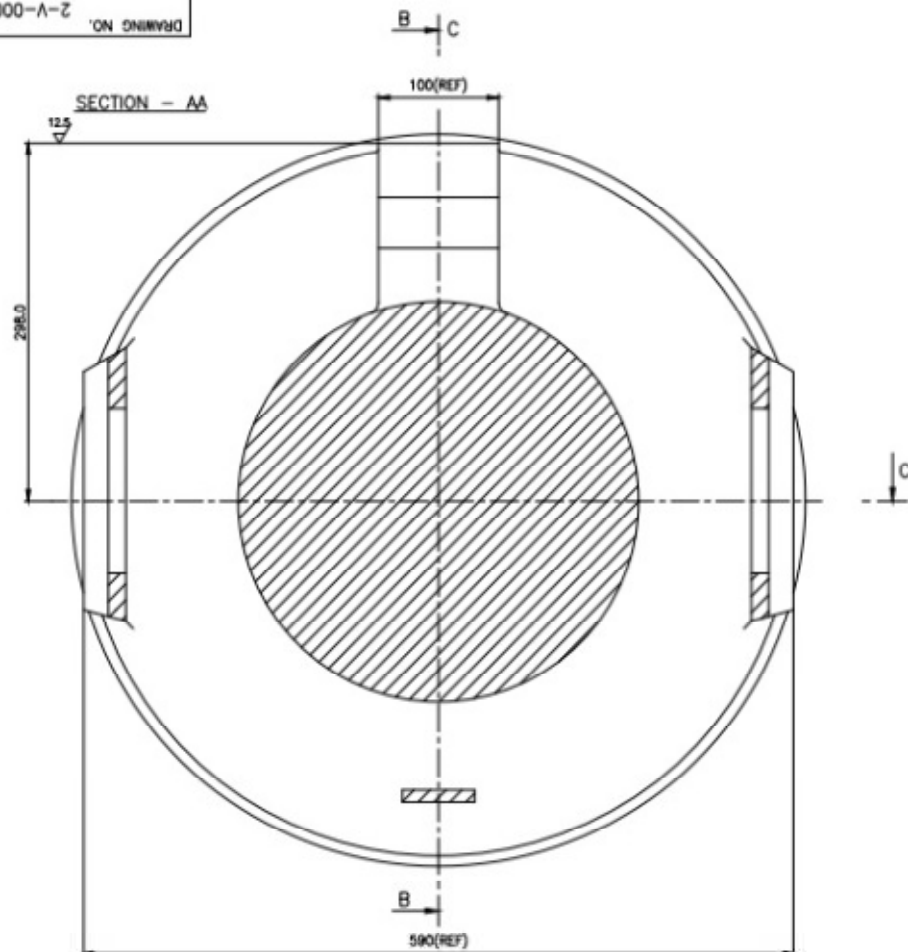
List of Components

Annexure-I

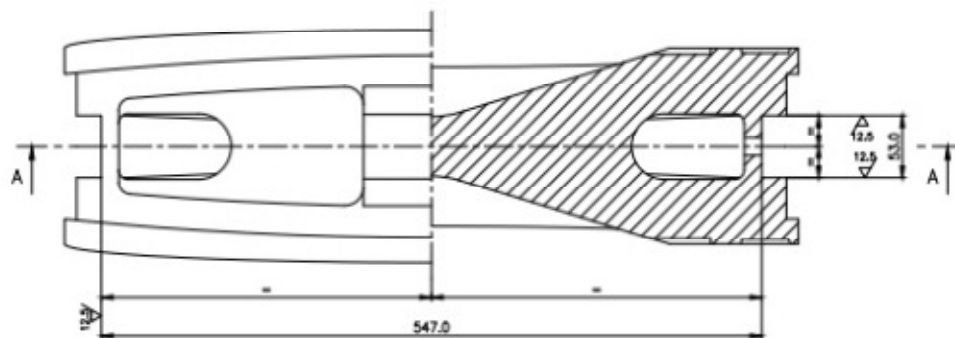
588	G2202	PRIMARY GEAR-40026200	Wall Blower
589	G2203	COVER-40001600	Wall Blower
590	G2205	COVER-40012500	Wall Blower
591	G2208	SHAFT COLLAR-40026100	Wall Blower
592	G2214	CAM-40017800	Wall Blower
593	G2215	CAM-40017900	Wall Blower
594	G2218	WORM GEAR 30T-40018300	Wall Blower
595	G2219	WORM GEAR-40018400	Wall Blower
596	G2220	WORM GEAR LH-40018500	Wall Blower
597	G2221	CUPPED PLUG-40019201	Wall Blower
598	G2222	CUPPED PLUG-40019202	Wall Blower
599	G2224	GUIDE ROD-40019500	Wall Blower
600	G2225	PACKING GLAND-40019600	Wall Blower
601	G2228	AIR VENT (R1/4")	Wall Blower
602	G2234	SWITCH MOUNT BRT-40024500	Wall Blower
603	G2236	THRUST WASHER-40025100	Wall Blower
604	G2238	FLAT WASHER-40013000	Wall Blower
605	G2248	SIN BRZ BUSH-40154800	Wall Blower
606	G2249	RACK GEAR HOUSING + GUIDE ROD FIXING	Wall Blower
607	G2331	RACK COVER W/O PAINT-20024300	Wall Blower
608	G2342	BOTTOM COVER W/O PAINT-20025700	Wall Blower
609	G2343	PIN-40159700	Wall Blower
610	G2344	BASE PLATE-40159600	Wall Blower
611	G2498	SLEEVE TUBE W/O NIPPLE	Wall Blower
612	G2499	T-PIECE 3/8IN NPT-40065500	Wall Blower
613	G2592	MOTOR ADAPTER-30116100	Wall Blower
614	G2618	SWIVEL TUBE SUPPORT-40261000	Wall Blower
615	G2443	SPECIAL KEY-40114100	Wall Blower

DRAWING NO. 2-V-0000-14236

SECTION - AA

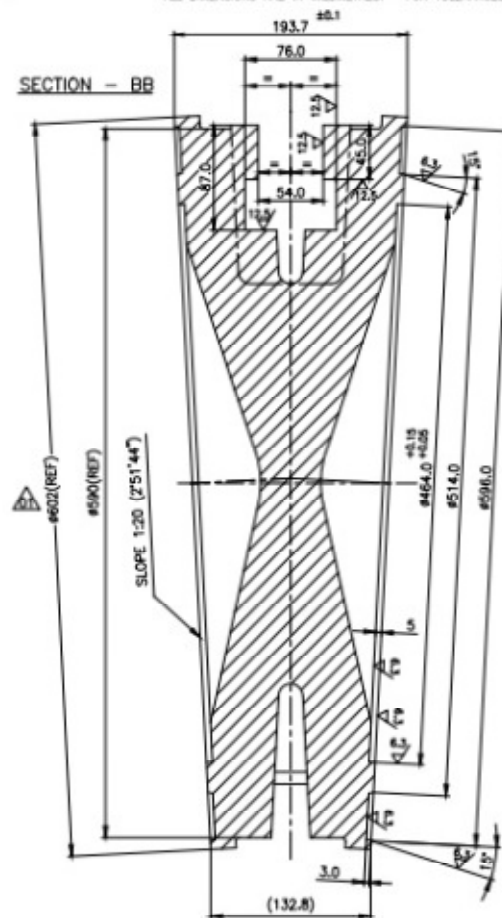


SECTION - CC



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

SECTION - BB



NOTE:

01. BREAK ALL SHARP CORNERS.

02	CASTING	92 201 747	ASTM A217 WCB - CERTIFY	NORMALISED & TEMPERED	20	204	214	2-V-NET-14236/01	007
01	CASTING	92 201 746	ASTM A216 WCB - CERTIFY	NORMALISED	10	204	214	93 201 261 5000	007
SL	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING NO.	ITER N°

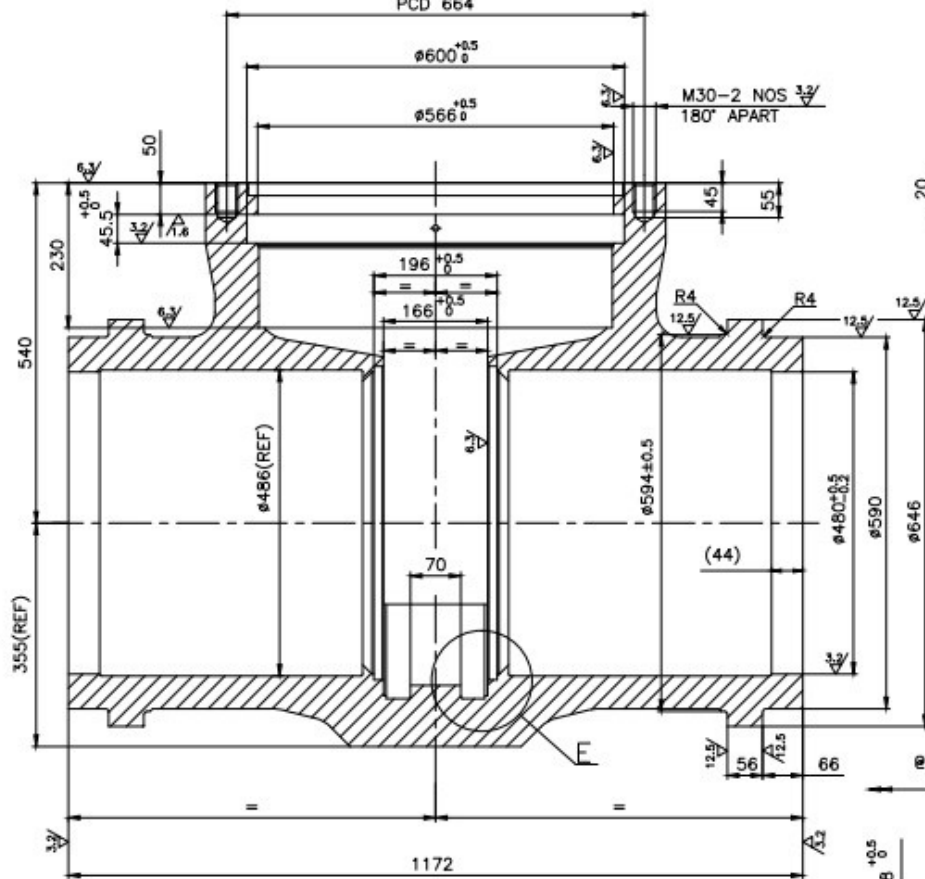
TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT									
BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT, TRICHYRAIPALLY - 620014.									
DEPT	360-120	SCALE	NTS	WEIGHT (KG)	REF TABLE	REFERENCE INFORMATION			
CODE	320					CAD :C214236			
TITLE WEDGE ROUGH (22°-C300)						CAD CODE U 01	DRAWING NO. 2-V-0000-14236		REV 01

REV	DATE	ALTERED : R.P.SINGH
01	10.11.17	CHD & APPD : SSK & KRS
ZONE	DIMENSIONS #602 WAS #610	

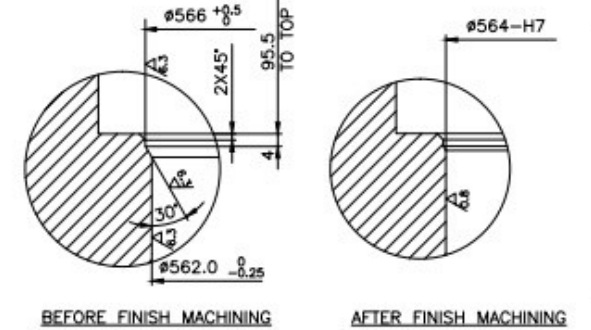
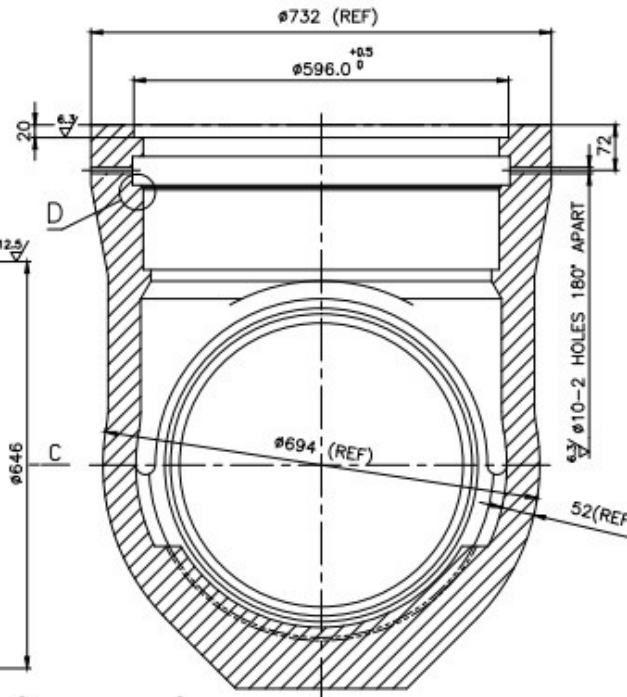
CAUTION: The information on this drawing is for reference only. It must not be used directly or indirectly in any way detrimental to the interest of the company.

SECTION-BB

A C
PCD 664



SECTION-AA

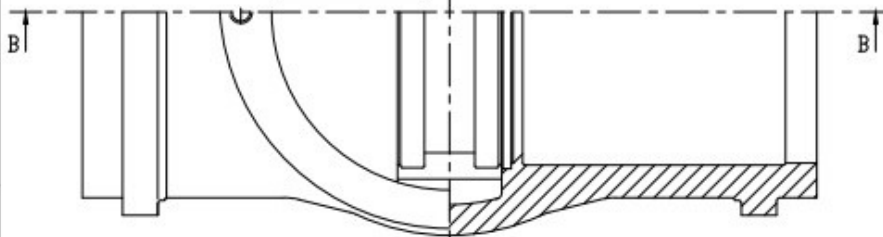


DETAIL-D

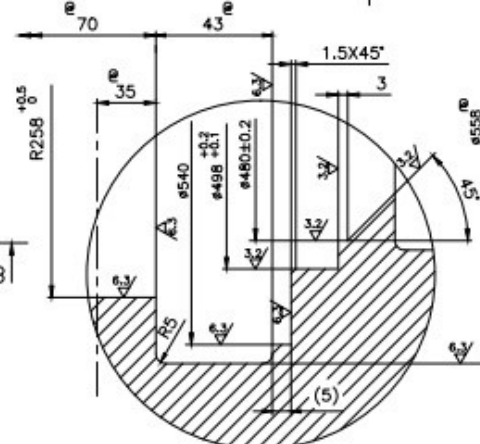
NOTE:-

1. UNSPECIFIED SHARP CORNERS TO BE CHAMFERED TO 1X45°.
2. ALLOWABLE DEVIATIONS FOR DIMENSION WITHOUT SPECIFIED TOLERANCE REFER: APPLICABLE QUALITY PROCEDURE.

SECTION-CC



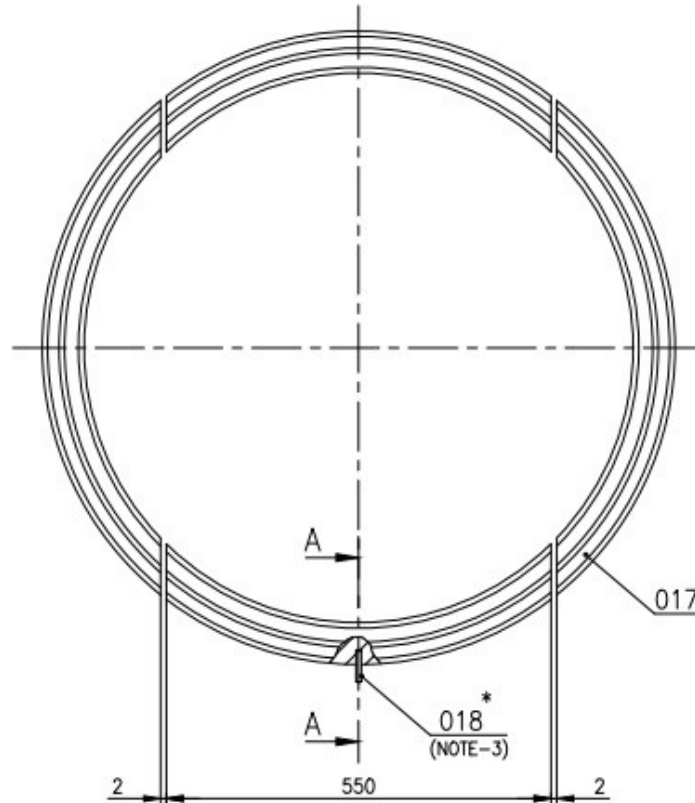
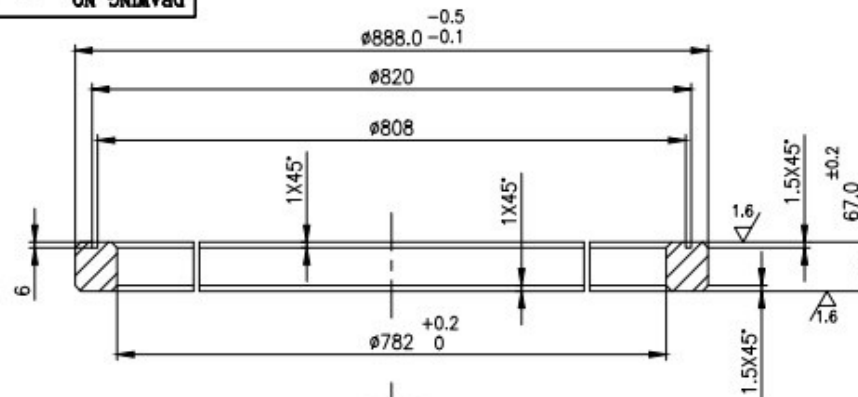
DETAIL-E



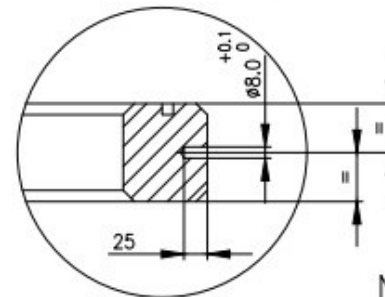
REV	DATE	ALTERED	M.SRINIVASAN	REV	DATE	ALTERED	M.SRINIVASAN	REV	DATE	ALTERED	M.SRINIVASAN	REV	DATE	ALTERED	M.SRINIVASAN	REV	DATE	ALTERED	M.SRINIVASAN
05	21.12.13	CHD & APPD	SSK & KRS	07	06.06.13	CHD & APPD	SSK & KRS	06	06.07.11	CHD & APPD	M.RAJAKUMAR	05	18.06.09	CHD & APPD	M.RAJAKUMAR	04	20.03.09	CHD & APPD	P.BOOMINATHAN
DIMENSION 66 & 1172 WERE 64 & 1168 ±3.2				SL.No. 02 INCLUDED				DIMENSION (44) INCLUDED				DIMENSION 70, 43, 558 & (5) INCLUDED.				DIM. 558, 486, 52 WERE 544, 470 & 63 RESPLY. DIM. 540 INCLUDED.			
DCP : 801664								DCP:801194				DCP:800976				DCP:800936			

02	CASTING	92203133	SA217 C12A ATTEST	NORMALISED & TEMPERED	20	1270	1440	2-V-3390-05612 932030420000	001
01	CASTING	92033824	SA217 WC9 ATTEST	NORMALISED & TEMPERED	20	1270	1440	2-V-3308-05612/08 931663650000	001
SL No.	DESCRIPTION	MATL CODE	MATL SPEC	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING NO	ITER NO
TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT									
BHARAT HEAVY ELECTRICALS LTD. UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPPALLI-620014. DRN CHD APPD NAME M.SRINIVASAN N.P.ESWARAN N.NAGARAJAN SRGN DA 22.05.93 22.05.93 22.05.93									
DEPT CODE	V.L 980		SCALE N.T.S	WEIGHT (KG) 1270	REFERENCE INFORMATION COMPONENT CODE: 93 165 365 C CADP20561				
TITLE BODY (550mm-C900)					DRAWING NO. 2-V-0000-05612				

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



SECTION-AA



SECTION-AA

6.3 / 1.6

NOTES

01. BREAK ALL SHARP CORNERS.

02. HARD Cr. PLATING TO BE CARRIED OUT ON FINISHED SPLIT RINGS TO A THICKNESS OF 0.015 MM TO 0.03 MM.

* 03. FIX ONE CYLINDRICAL PIN Ø8X55 FOR ASSEMBLING WITH BODY AT THE TIME OF ASSEMBLY.

03	CYL PIN Ø8X55	-	-	-	-	0.01	-	BPS 41702	018
	-	92 203 433	ASTM A182 F91 NT, CERTIFY	QT	40	72.0	-	417 02 08055 00	
02	CYL PIN Ø8X55	-	-	-	-	0.01	-	3-V-3311-24536	017
	-	92 203 249	AISI 4140 CERTIFY.	QT	40	72.0	-	93 203 960 0000	
01	CYL PIN Ø8X55	-	-	-	-	0.01	-	BPS 41702	018
	SUGGESTED SIZE PL68 -892 X 892	--	SA387 GR.22 CERTIFY.	NORMALISED & TEMPERED	20	71.99	333.6	417 02 08055 00	
SL No.	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
								COMP. CODE	

REV	DATE	ALTERED	R.P.SINGH	REV	DATE	ALTERED	M.SRINIVASAN
04	19.04.18	CHD & APPD	SSK & KRS	03	15.02.16	CHD & APPD	SSK & KRS
SL.NO. 03 INCLUDED				NOTES SL.NO. 2 MODIFIED.			

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TYPE OF PRODUCT
OR NAME OF
CUSTOMER/PROJECT



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

DEPT
VL
CODE 320



SCALE
NTS

WEIGHT (KG).
72.0

REFERENCE INFORMATION

CAD : F324536

TITLE

SPLIT RING

CARD
CODE
U 01

DRAWING NO.

3-V-0000-24536

REV

04

NO. OF
VAR.

NO. OF
ITEM

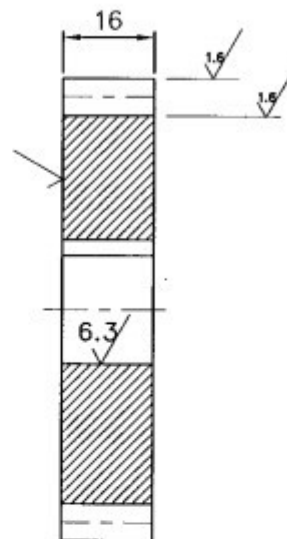
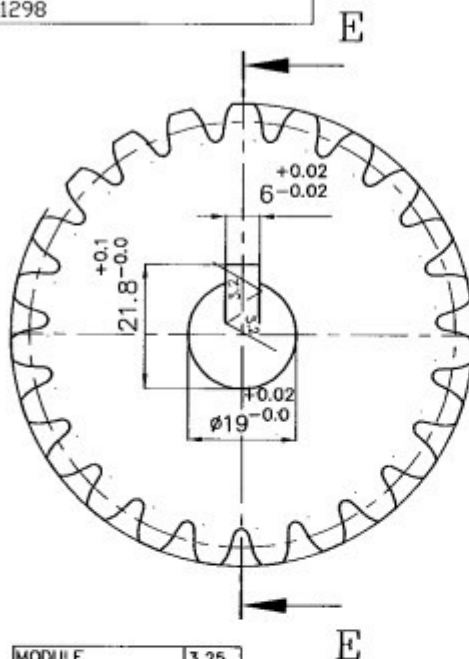
CAUTION: The information on this document is the property of BHARAT HEAVY ELECTRICALS LTD. It must not be used directly or indirectly in any way detrimental to the interest of the company.

FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER RELEVANT QCP/QP

ALL DIMENSIONS ARE IN MILLIMETRES.

REV	DATE	ALTERED
04	11.06.01	CHD & APPD
DRG. UPDATED AND REDRAWN.		
DCN:SB:1298		

✓/12.6/ 6.3/ 3.2/ 1.6/



SECTION EE

MODULE	3.25
NO OF TEETH	23
PITCH DIAMETER	74.75
PRESSURE ANGLE	20°
WHOLE DEPTH OF TEETH	7.31
OUTSIDE DIMETER	81.25
TOOTH CLEARANCE	0.813
CETRE DISTACE	102.38

TOLERANCE ON GEAR BLANK
TIP DIAMETER 81.25 $\begin{smallmatrix} 0.00 \\ -0.05 \end{smallmatrix}$

RADIAL AND AXIAL RUN OUT OF
REFERENCE SURFACES = 0.0170

TOLERANCE OF GEAR:

TEETH RUN OUT = 0.063

TIR W.R.T.BORG

WIDTH ACROSS THREE TEETH = 25.03 $\begin{smallmatrix} -0.09 \\ -0.16 \end{smallmatrix}$

ALL OTHER TOLERANCE ARE TO BE
AS PER APPLICABLE QP/QCP

NOTES:-

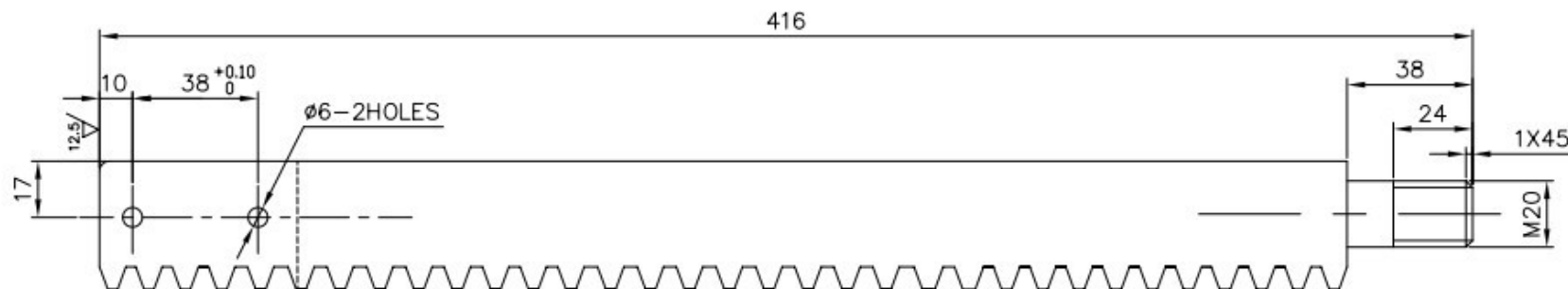
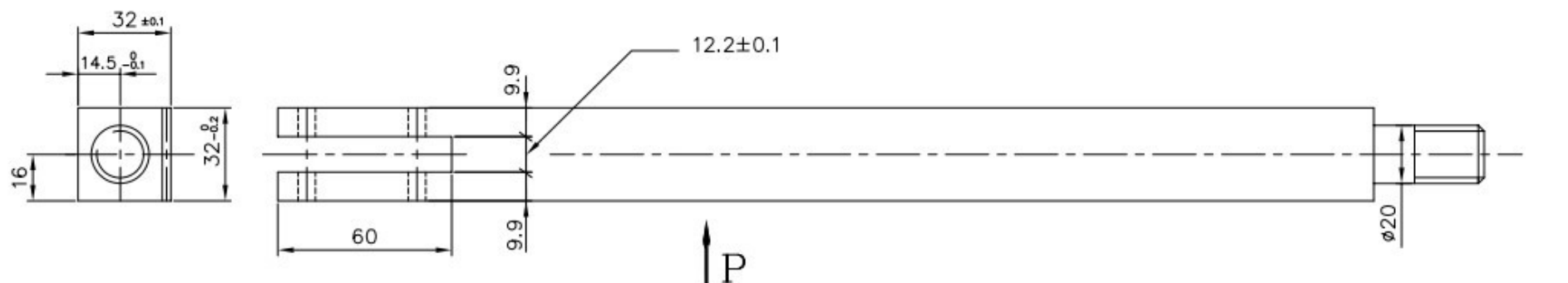
1. FOR QUALITY REQUIREMENTS REFER APPLICABLE LATEST QUALITY PROCEDURE.

PART CODE : 842020114500

01	FORGING D 100X20	920377780000	IS 1875 CL IV			1.250			01
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
		BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI 620014.			DRN	NAME V. ARUMUGAM		SIGN	DATE
365-122					CHD	K. SRIDHARAN			
					APPD	S. NATARAJAN			
DEPT SB		SCALE NTS		WEIGHT (KG). 1.250		REFERENCE INFORMATION T-13566			NO. OF ITEMS
CODE 330									
TITLE SPUR GEAR				CARD CODE U 01	DRAWING NO. 4-20-201-00252				REV 04

Size A4

DRAWING NO. 3-20-201-00138

$$\frac{6.3}{\nabla} \quad \left(\frac{12.5}{\nabla} \right)$$


FULL TOOTH PROFILE
TO BE MAINTAINED
AT THIS END.

VIEW-P

PART NUMBER : 842020116100

NOTES: —

1. FOR QUALITY REQUIREMENTS REFER LATEST APPLICABLE QUALITY PROCEDURES.

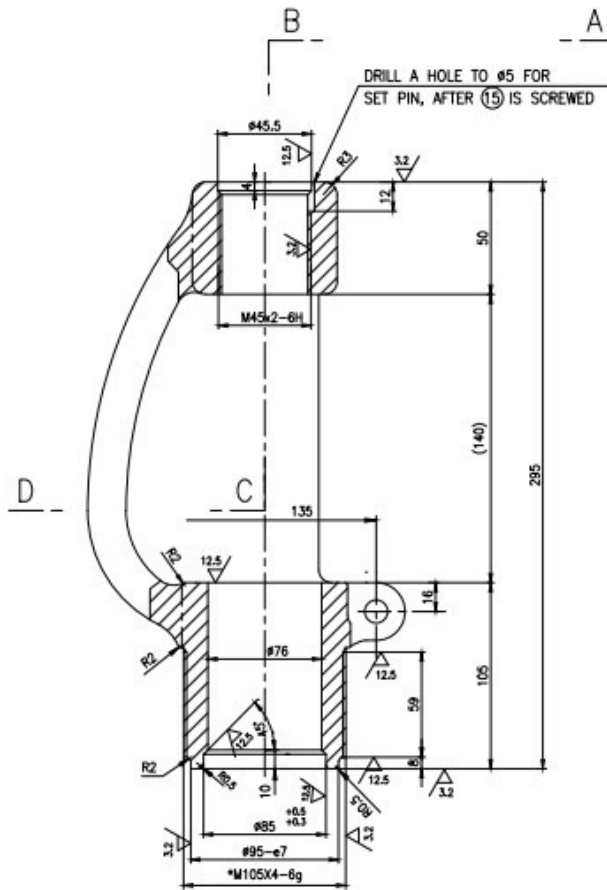
MODULE	3
PRESSURE ANGLE	20°
WHOLE DEPTH	6.75

REV	DATE	ALTERED	K.S.
11	26.06.06	CHD & APPD	S.N.
DRG. UPDATED AND REDRAWN.			
DCN: 800547 Dt.02.01.06			

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01	ROUND Ø50MM	15 339 142	SA 105				3.680		01
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT									
 BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI-620014. 365-121					DRN	NAME S.NAPPI	SIGN S.N.	DATE 26.06.06	NO. OF VAR.
					CHD	K.SRIDHARAN	K.S.	26.06.06	
					APPD	S.NATARAJAN	S.N.	26.06.06	
DEPT	VL		SCALE	WEIGHT (KG).	REFERENCE INFORMATION				NO. OF ITEMS
CODE	330		NTS	3.680					
TITLE					CARD CODE	DRAWING NO.			REV
RACK					U 01	3-20-201-00138			11

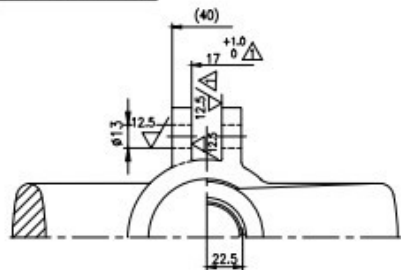
ALL DIMENSIONS ARE IN MILLIMETRES. FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER RELEVANT QCP / QP



12 $\nabla / \nabla^{12.5} \nabla^{3.2}$

#95-e7	-0.072
	-0.107

SECTION ABCD



NOTES:

- * 1. NI PLATING TO A THICKNESS OF 25 TO 35 MICRONS.
2. LATEST APPLICABLE QUALITY WORK INSTRUCTION SHALL BE FOLLOWED IN ALL RESPECTS.

02	2-V-G047-15154/3	A217 WC6, NT PRODUCT ATTEST	931121170000	20					
01	2-V-G045-15154/3	A216 WC6, AN PRODUCT ATTEST	931121180000	10					
S/N NO.	DRAWING NO.	MATL. SPECN.	COMP. CODE	SCRAP SORT					
No OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET W (kg)	GROSS WT (kg)	DRAWING No	ITEM No

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.

REDRAWN WITH REV.1 ON 24.10.13

REV	DATE	ALTERED	CR
3	24.10.13	CHD & APPD SSK & KRS	

ZONE

+1.0 12.5 /
DIMENSION 17 0 &  INCLUDED

DCP No.801630

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT						DRN CHD APPD		NAME CHITRANJAN S.SATHEES K.RAJASEKARAN		SIGN 		DAT 24.10. 24.10.13 24.10.13	
BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT, TIRUCHIRAPPALLI -620014.													
DEPT VL				SCALE N T S		WEIGHT (KG.) 8.78		REFERENCE INFORMATIONS					
CODE 320													
TITLE YOKE 80/1500CLASS						CARD CODE U 01		DRAWING NO. 2-V-0000-1515					

S.No	Gr. No	Job/Component Description	Description of Valve/ Product (Used in)	Special Process
1	G2232	LOCK PIN-40021200	Wall Blower	Heat Treat to RC27 Cadmium Plating
2	G2193	SPINDLE SLEEVE-30015200	Wall Blower	Cadmium Plating
3	G2206	COVER PLATE-40012400	Wall Blower	Cadmium Plating
4	G2223	SPRING RETAINER-40019300	Wall Blower	Cadmium Plating
5	G2234	SWITCH MOUNT BRT-40024500	Wall Blower	Cadmium Plating
6	G2247	CAM-40079700	Wall Blower	Cadmium Plating
7	G2208	SHAFT COLLAR-40026100	Wall Blower	Galvanizing
8	G2186	WORM SHAFT-30015100	Wall Blower	to be phosphated
9	G2344	BASE PLATE-40159600	NOZZLE SETG.FIXT-30072500	to be phosphated
10	G2238	FLAT WASHER-40013000	Wall Blower	to be phosphated
11	G2204	GLAND PLATE-40011900	Wall Blower	to be phosphated
12	G2306	Stem	2.5-C1500-GLV/GNV-HO/MO-WCC	Chrome Plating
13	G2307b	Stem	3-C1500-GLV/GNV-BW-HO/MO-WCB	Chrome Plating
14	G2307	Stem	4-C1500-GLV/GNV-BW-HO/MO-WCB	Chrome Plating
15	G2346	Stem Machining	5-C1500-GLV-BW-MO-WC9	Chrome Plating
16	G1402	STEM (with Hard Chrome Plating)	10-C150-GV-WC6	Chrome Plating
17	G1405	STEM (with Hard Chrome Plating)	10-C300-GV-WC9	Chrome Plating
18	G1410	STEM (with Hard Chrome Plating)	12-C300-GV-WC9/WC6	Chrome Plating
19	G1414	STEM (with Hard Chrome Plating)	14-C300-GV-WC9	Chrome Plating
20	G1418	STEM (with Hard Chrome Plating)	16-C300-GV-WC9	Chrome Plating
21	G1428	STEM (with Hard Chrome Plating)	2-C300-RV/SV-WC6	Chrome Plating
22	G1442	STEM (with Hard Chrome Plating)	3-C300-RV/SV-WC6	Chrome Plating
23	G1447	STEM (with Hard Chrome Plating)	4-C150-GV-WC9	Chrome Plating
24	G1450	STEM (with Hard Chrome Plating)	4-C300-GV-WC6/WC9	Chrome Plating
25	G1453	STEM (with Hard Chrome Plating)	4-C300-RV/SV-WC6/WC9	Chrome Plating
26	G1469	STEM (with Hard Chrome Plating)	8-C150-GV-WC6/WC9	Chrome Plating
27	G1473	STEM (with Hard Chrome Plating)	8-C300-GV-WC9	Chrome Plating
28	G1458	STEM (with Hard Chrome Plating)	6-C150-GV-WC9	Chrome Plating
29	G1462	STEM (with Hard Chrome Plating)	6-C300-GV-WC6	Chrome Plating
30	G1465	STEM (with Hard Chrome Plating)	6-C300-RV/SV-WC9/WC6	Chrome Plating
31	G2530	Split Ring Assy-3200/3396	450/500-C500-CRHIV-BW-WCB/WCC/WC9	Chrome Plating
32	G2531	Split Ring Assy-3208/3390	550-C900-HRHIV-BW-WC9/C12A	Chrome Plating
33	G2425a	SPLIT RING ASSY	700-C600-CRHIV-BW-WCC	Chrome Plating
34	G2425	SPLIT RING ASSY-3245/3316	750-C600-CRHIV-BW-WCC	Chrome Plating
35	G2195	SWIVEL TUBE D60.3X4.8-30069900 (Chrome plating length - 1088mm Total length - 1218mm)	Wall Blower	Chrome Plating

S.No	Gr. No	Job/Component Description	Description of Valve/ Product (Used in)	Special Process
36	G2195a	EXT. SWIVEL TUBE D60.3X4.8-30208600 (Chrome plating length - 1488 mm Total length - 1618 mm)	Wall Blower	Chrome Plating
37	G2195b	EXT. SWIVEL TUBE D60.3X4.8-30212301 (Chrome plating length - 2088 mm Total length - 2218 mm)	Wall Blower	Chrome Plating
38	G2195a	EXT. SWIVEL TUBE D60.3X4.8-30212301 (Chrome plating length - 1388 mm Total length - 1518 mm)	Wall Blower	Chrome Plating
39	G2195a	EXT. SWIVEL TUBE D60.3X4.8-30212303 (Chrome plating length - 1575 mm Total length - 1705 mm)	Wall Blower	Chrome Plating
40	G2224	GUIDE ROD-40019500	Wall Blower	Chrome Plating
41	G2235	THRUST WASHER-40025000	Wall Blower	Case Hardening to RC 40-45
42	G2179	WORM-30011901	Wall Blower	Case Hardening to RC 60-66
43	G2181	WORM L.H-30011902	Wall Blower	Case Hardening to RC 60-66
44	G2325a	Sunk Key	2.5/3-C1500-GLV/GNV-BW- WCC/WCB/WC9	Hardness required is min 240 BHN
45	G2325b	Sunk Key	4-C1500-GLV-BW-HO-WCB	Hardness required is min 240 BHN
46	G1486	SUNK KEY-W057	Extension spindle valves	
47	G2178	VALVE STEM CAP-40019800	Wall Blower	Heat Treat to 38-41 HRC
48	G2183	RAMP CAM-30013700	Wall Blower	Heat Treat to 50-55 RC
49	G2185	CAM SHAFT COLLAR-30014700	Wall Blower	Heat Treat to HRC 28
50	G2189	WORM GEAR SHAFT-30015500	Wall Blower	Heat Treat to RC 40-44
51	G2493	Orifice Plate		
52		KEY-40114200	SPECIAL KEY-40114100 (842099634400)	
53	G2308	Yoke Machining	2.5-C1500-GLV-HO/MO- WCC/WCB/WC9	Nickel Plating
54	G2345	Yoke Machining	3-C1500-GLV-BW-HO-WC9	
55	G2309	Yoke Machining	4-C1500-GLV-HO/MO- WCC/WCB/WC9	Nickel Plating
56	G2311a	Disc Final	2.5-C1500-GLV-BW-HO-WC9	Tufftriding/ Liquid nitriding
57	G2311b	Disc Final	3-C1500-GLV-BW-HO-WC9	Tufftriding/ Liquid nitriding
58	G2311j	Disc Final	3-C3500-GLV-BW-MO-WC9	Tufftriding/ Liquid nitriding
59	G2311c	Disc Final	4-C1500-GLV-BW-HO-WCB	Tufftriding/ Liquid nitriding
60	G2311k	Disc Final	6-C3500-GLV-BW-MO-WC9	Tufftriding/ Liquid nitriding

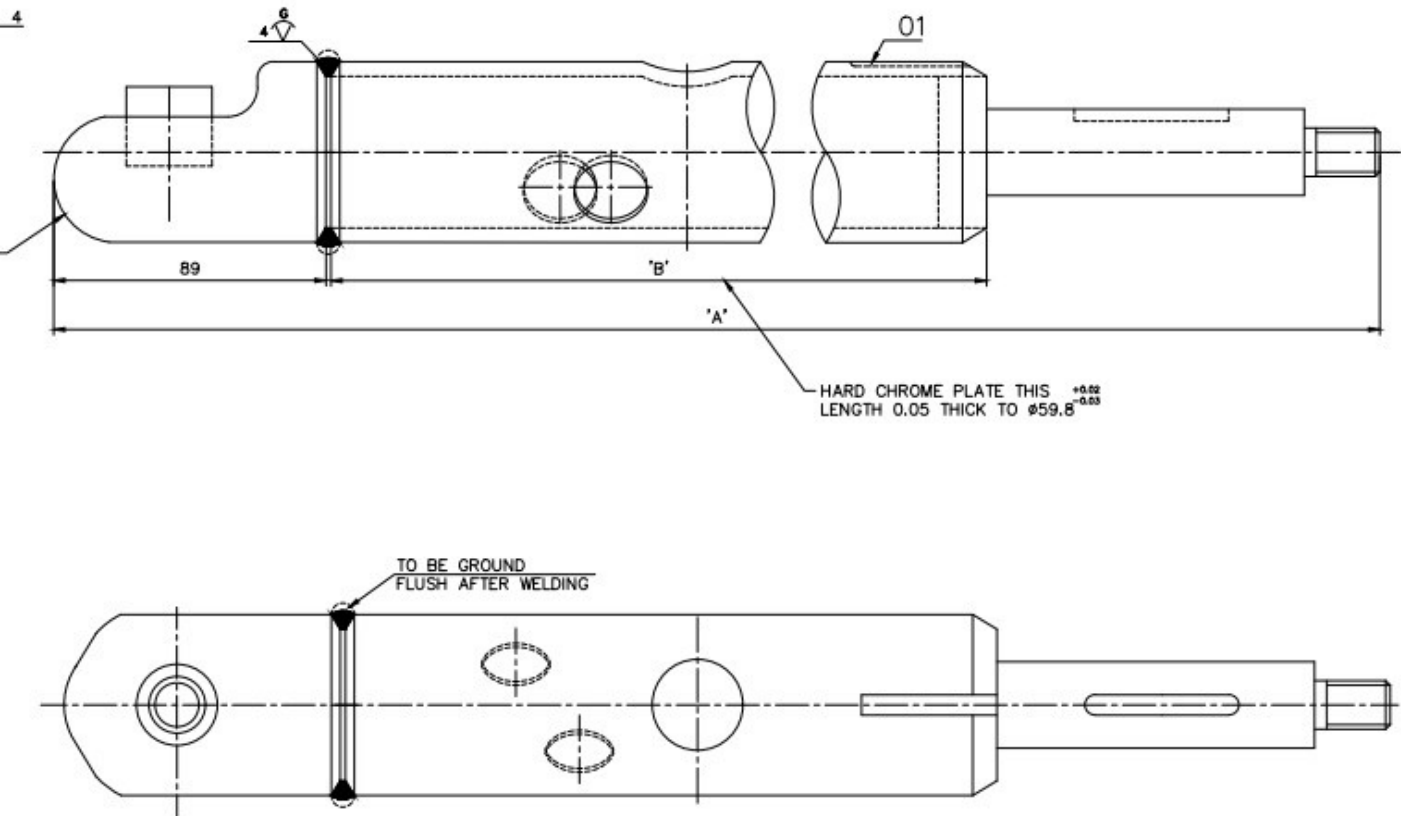
S.No	Gr. No	Job/Component Description	Description of Valve/ Product (Used in)	Special Process
61	G2311i	Disc Final	6-C2500-GLV-BW-MO-WCC	Liquid Nitriding
62	G2316a	Disc Nut	2.5-C1500-GLV-BW-HO-WC9	Tufftriding/ Liquid nitriding
63	G2316b	Disc Nut	3-C1500-GLV-BW-HO-WC9	Tufftriding/ Liquid nitriding
64	G2316c	Disc Nut	4-C1500-GLV-BW-HO-WCB	Tufftriding/ Liquid nitriding
65	G2316d	Disc Nut	5-C1500-GLV-BW-GO-WC9	Tufftriding/ Liquid nitriding
66	G2317	WASHER-0009	2.5-C1500-GNV-BW-HO-WCC	Liquid Nitriding
67	G2317	WASHER-0010	3-C1500-GNV-BW-HO-WCC	Liquid Nitriding
68	G2317	WASHER-0012	4-C1500-GLV-BW-HO-WCB	Liquid Nitriding
69	G2317	WASHER-0014	5-C1500-GNV-BW-MO-WC9	Liquid Nitriding

2	3		6	7	8
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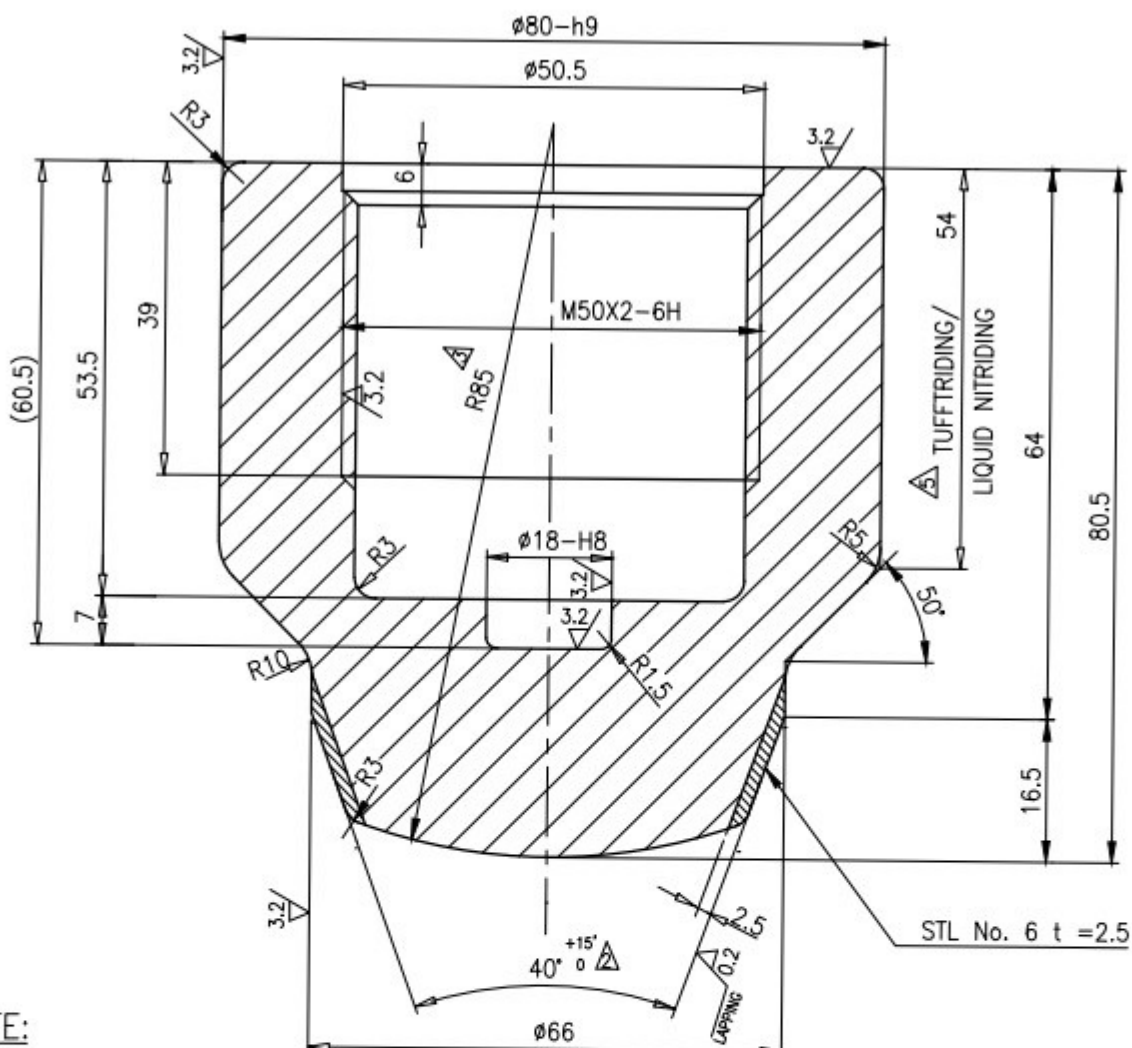
ALL DIMENSIONS ARE IN MILLIMETRES. FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER RELEVANT QCP / QP

NOTES:-

- VARIANT No. 02, 03 & 04 MEANT FOR COPES VULCON SWIVEL TUBE ASSEMBLY REPLACEMENT.
- FOR QUALITY REQUIREMENTS REFER LATEST APPLICABLE QUALITY PROCEDURES.
- WELD NOZZLE HEAD ASSEMBLY WITH SWIVEL TUBE IN SUCH A WAY THAT THE 'V' GROOVE PROVIDED ON SWIVEL TUBE SHOULD BE INLINE WITH THE CENTRE LINE OF NOZZLEFOR QUALITY REQUIREMENTS REFER LATEST APPLICABLE QUALITY PROCEDURES.
- VARIANT No. 05 MEANT FOR STAINLESS STEEL (SS) SWIVEL TUBE MATERIAL.
- HARD CHROME PLATING IS NOT REQUIRED FOR VARIANT No. 5 (SS SWIVEL TUBE).



	02	NOZZLE HEAD ASSY.	4-20-201-00164	842020125600	0.920
				WELDMENT	1
	01	SWIVEL TUBE	3-20-201-02010	842020135503	9.200
				WELDMENT	1
05		SWIVEL TUBE ASSY.(SS)	2-20-201-00280	842020125503	10.120
				WELDMENT	1
	02	NOZZLE HEAD ASSY.	4-20-201-00164	842020125600	0.920
				WELDMENT	1
	01	SWIVEL TUBE	3-20-201-00903	-	8.436
				WELDMENT	1
04		SWIVEL TUBE ASSY.	2-20-201-00280	-	9.356
				WELDMENT	1
	02	NOZZLE HEAD ASSY.	4-20-201-00164	842020125600	0.920
				WELDMENT	1
	01	SWIVEL TUBE	3-20-201-00846	-	8.580
				WELDMENT	1
03		SWIVEL TUBE ASSY.	2-20-201-00280	842020126400	9.500
				WELDMENT	1
	02	NOZZLE HEAD ASSY.	4-20-201-00164	842020125600	0.920
				WELDMENT	1
	01	SWIVEL TUBE	3-20-201-00810	-	8.196
				WELDMENT	1
02		SWIVEL TUBE ASSY.	2-20-201-00280	842020102400	9.106
				WELDMENT	1
	02	NOZZLE HEAD ASSY	4-20-201-00164	842020125600	0.920
				WELDMENT	1
	01	SWIVEL TUBE	3-20-201-00699	842020135500	8.580
				WELDMENT	1
01		SWIVEL TUBE ASSY.	2-20-201-00280	842020125500	9.500
				WELDMENT	1
VARIANT No.	ITEM No.	DESCRIPTION	DRAWING No.	MATL. CODE	UNIT WT.(kg)
				MATL. SPEC.	QTY(Nos)

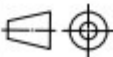


NOTE:

LATEST APPLICABLE QUALITY WORK INSTRUCTIONS SHALL BE FOLLOWED IN ALL RESPECTS

REDRAWN WITH REV.4 ON 01.09.14

COMP. CODE:93 111 974 0000

			A182 F22,CL.3 PRO. ATTEST	NT	20				
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
 BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI 620014.					DRN	NAME V.BAIRAVAN	SIGN	DATE 01.09.14	NO.OF VAR
					CHD	S.SATHEES		01.09.14	
					APPD	K.RAJASEKARAN		01.09.14	
DEPT VL		SCALE	WEIGHT (KG).		REFERENCE INFORMATIONS				NO. OF ITEMS
CODE 320		N T S	1.49						
TITLE					CARD CODE	DRAWING NO.			REV
DISC ASSY					U 01	4-V-G041-18028			5
65/1500 CLASS									