

CLIENT : TEC / PT. PUPUK KALIMANTAN TIMUR
 PROJECT : KALTIM-5 PROJECT
 JOB NO. : 10107 / BA096300 / 11-018-01
 ITEM NO. : 103-J
 SERVICE : SYNTHESIS GAS COMPRESSOR
 DOC. NO. : K5-E3-103J-DW-124 Rev.3

COMPRESSOR ASSEMBLY DRAWINGS(103-J [HP])

CLIENT PT PUPUK KALIMANTAN TIMUR 	
CONTRACTOR CONSORTIUM IKPT & TOYO 	
2500 MTPD AMMONIA - 3500 MTPD UREA KALTIM-5 PROJECT	
REQ. NO.	AXGB002
PO. NO.	BA096321-AXGB002
EQUIP. NO.	103-J

**MITSUBISHI HEAVY INDUSTRIES
COMPRESSOR CORPORATION**

A1 × 5 Sheets (A3 長尺縮小にて印刷)
 A2 × 1 Sheets (A3 長尺縮小にて印刷)
 A3 × - Sheets
 A4 × 3 Sheets Total 9 Sheets (Including Cover)

FINAL

PLAN RECORD Please refer to next page.		ENGINEERING & DESIGN DIVISION ENG. DEPARTMENT COMP. & TURBINE ENGINEERING SECTION								
		PM	<i>H. Fukui</i>							
		Approved	<i>K. Shimizu</i>							
		Checked	<i>S. Iwamoto</i>							
		Prepared	<i>H. Higuchi</i>							
Copy to	C U S T .	E	広組品 品証立証 証立証	コタ計 計	P	Specified No.	Order	Item	Date Drawn	
						J	HBI-D01	353N72	MCW321	Dec. 11, 2012
						Drawing No.				
Rev.		両面北		790-44019						

B

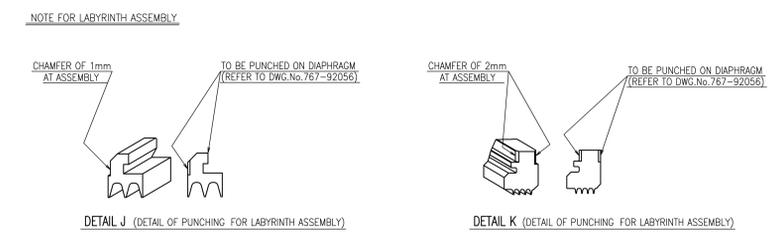
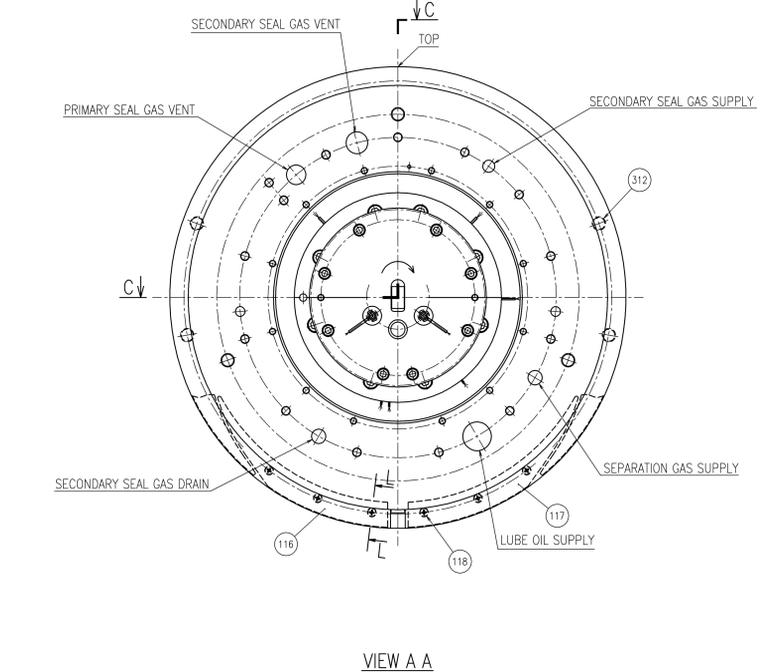
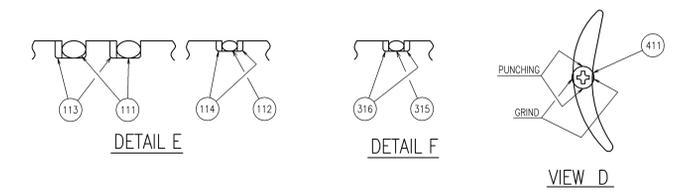
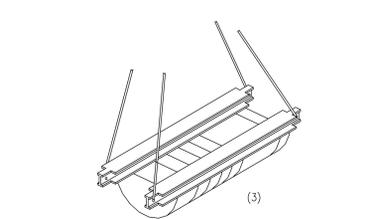
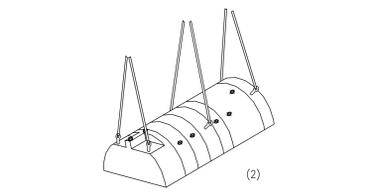
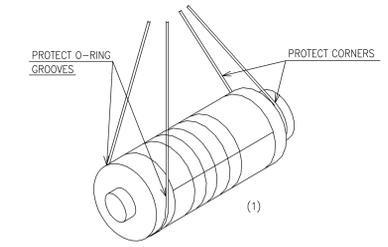
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(6) PIPING ASSEMBLY AROUND COMPRESSOR	790-19518

THIRD ANGLE PROJECTION	PLANNING	PLAN RECORD
ORDER	ITEM	DRAWING NO.

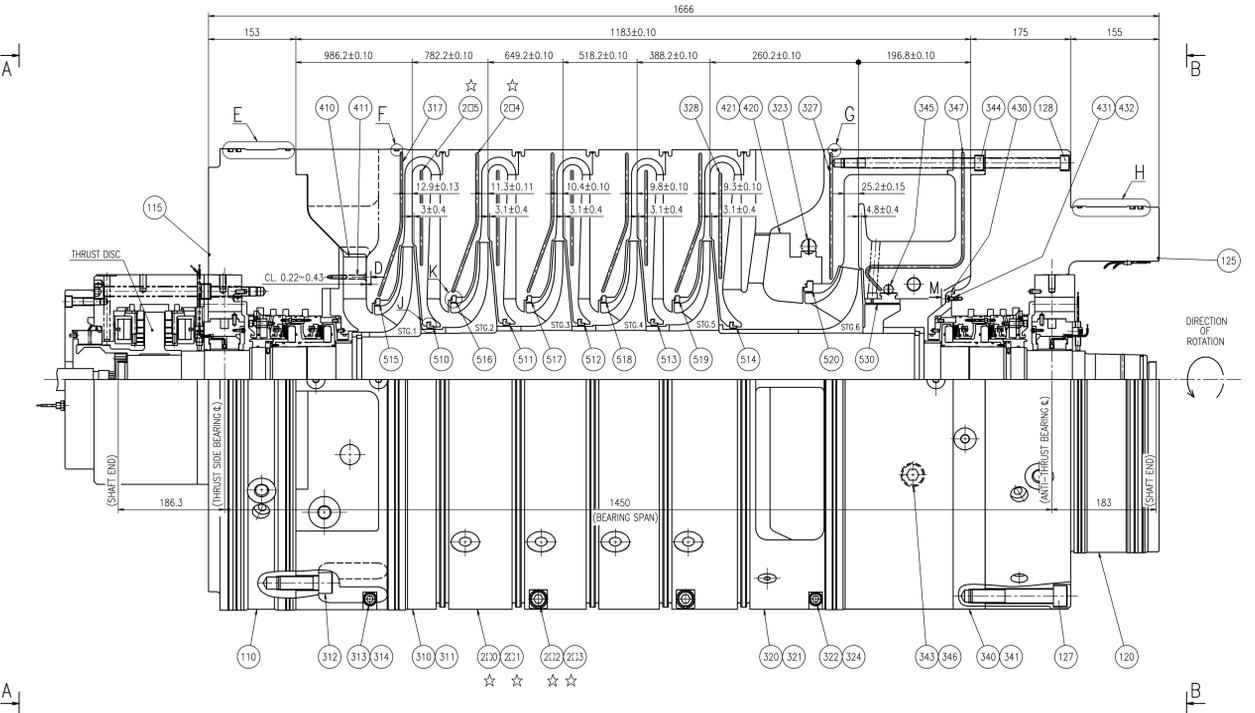
530	BALANCE PISTON LABRY.	1	2461-11			
520	LABRY-IMP. STG.6	1	2411-36			
519	LABRY-IMP. STG.5	1	2411-35			
518	LABRY-IMP. STG.4	1	2411-34			
517	LABRY-IMP. STG.3	1	2411-33			
516	LABRY-IMP. STG.2	1	2411-32			
515	LABRY-IMP. STG.1	1	2411-31			
514	LABRY-SHAFT STG.5-6	1	2411-15			
513	LABRY-SHAFT STG.4-5	1	2411-14			
512	LABRY-SHAFT STG.3-4	1	2411-13			
511	LABRY-SHAFT STG.2-3	1	2411-12			
510	LABRY-SHAFT STG.1-2	1	2411-11			
432	SPRING PIN 5X10	1	2351-13			
431	BOLT HEX SOCK M6X15	12	2351-12			
430	DIVISION PLATE	1	5.0 2351-11			
421	INLET GUIDE (2S) BOTTOM	1	40.0 2312-20			
420	INLET GUIDE (2S) TOP	1	40.0 2312-10			
411	SCREW +CSKH M5CR M6*60	6	2311-61			
410	INLET GUIDE (1S)	1	20.0 2311-00			
347	O-RING CORD 4C 3.5*1.450	2	2221-83			
346	SPR. LOCK WASHER NO.2 2.4	2	2221-75			
345	LOCKING SCREW HM M8	1	2221-61			
344	HEXSKT HD BLT M16*230/S44	2	2221-53			
343	HEX SKT HEAD BOLT M24*120	1	2221-52			
342	HEX SKT HEAD BOLT M24*160	1	2221-51			
341	DISCHARGE WALL (BOTTOM)	1	145.0 2221-20			
340	DISCHARGE WALL (TOP)	1	135.0 2221-10			
328	O-RING CORD 4C 3.5*1.230	2	2212-84			
327	O-RING CORD 4C 3.5*1.260	2	2212-83			
326	BUCK UP RING	2	2212-82			
325	O-RING CORD 4C 3.5*0.769	1	2212-81			
324	SPR. LOCK WASHER NO.2 1.2	2	2212-75			
323	LOCKING SCREW M10*18	2	2212-61			
322	HEX SKT HEAD BOLT M16*50	2	2212-51			
321	INLET WALL ASSY. (BOTTOM)	1	295.0 2212-20			
320	INLET WALL ASSY. (TOP)	1	270.0 2212-10			
317	O-RING CORD 4C 3.5*1.300	2	2211-83			
316	BUCK UP RING	2	2211-82			
315	O-RING CORD 4C 3.5*0.769	1	2211-81			
314	SPR. LOCK WASHER NO.2 1.2	2	2211-75			
313	HEX SKT HEAD BOLT M16*50	2	2211-52			
312	HEX SKT HEAD BOLT M24*70	4	2211-51			
311	INLET WALL (1S) BOTTOM	1	125.0 2211-20			
310	INLET WALL (1S) TOP	1	190.0 2211-10			
245	O-RING CORD 4C D3.5*190L	2	2114-82			
244	O-RING CORD 4C D3.5*275L	2	2114-81			
243	SPR. LOCK WASHER NO.2 1.6	2	2114-75			
242	HEX BOLT SOC M16*55	2	2114-51			
241	DIAPHRAGM 4-5 (BOTTOM)	1	174.0 2114-20			
240	DIAPHRAGM 4-5 (TOP)	1	174.0 2114-10			
235	O-RING CORD 4C D3.5*190L	2	2113-82			
234	O-RING CORD 4C D3.5*275L	2	2113-81			
231	DIAPHRAGM 3-4 (BOTTOM)	1	175.0 2113-20			
230	DIAPHRAGM 3-4 (TOP)	1	175.0 2113-10			
225	O-RING CORD 4C D3.5*190L	2	2112-82			
224	O-RING CORD 4C D3.5*275L	2	2112-81			
223	SPR. LOCK WASHER NO.2 1.6	2	2112-75			
222	HEX BOLT SOC M16*55	2	2112-51			
221	DIAPHRAGM 2-3 (BOTTOM)	1	175.0 2112-20			
220	DIAPHRAGM 2-3 (TOP)	1	175.0 2112-10			
215	O-RING CORD 4C D3.5*190L	2	2111-82			
214	O-RING CORD 4C D3.5*280L	2	2111-81			
211	DIAPHRAGM 1-2 (BOTTOM)	1	175.0 2111-20			
210	DIAPHRAGM 1-2 (TOP)	1	175.0 2111-10			
128	BOLT-HEX SOCK M16*380	2	1312-37			
127	BOLT-HEX SOCK M24*145	5	1312-36			
126	O-RING G35	12	1312-32			
125	O-RING D3.1*0414	1	1312-31			
124	BACK UP RING	2	1312-26			
123	BACK UP RING	2	1312-25			
122	O-RING D3.5*0577	1	1312-22			
121	O-RING D5.7*0572	2	1312-21			
120	HEAD (DISCH.)	1	724.0 1312-11			
118	SCREW +PAN M8*25	6	1311-43			
117	DUMMY PIECE	1	2.0 1311-42			
116	DUMMY PIECE	1	2.0 1311-41			
115	O-RING D3.1*0414	1	1311-35			
114	BACK UP RING	2	1311-34			
113	BACK UP RING	2	1311-33			
112	O-RING D3.5*0769	1	1311-32			
111	O-RING D5.7*0766	2	1311-31			
110	HEAD (SUCTION)	1	611.0 1311-11			
ITEM	PARTS NAME	QUANT	PER PIECE	TOTAL	PARTS NUMBER	REMARKS
		-M	WEIGHT (Kg)			

NOTE FOR LIFTING
 (1) WHOLE INTERNAL ASSY SHALL BE LIFTED BY LIFTING WIRE AS SHOWN BELOW. (DO NOT USE EYE BOLTS.)
 (2) UPPER/LOWER HALF ASSY (HOR. FACE DOWN) SHALL BE LIFTED BY 6 POINTS AS SHOWN BELOW. (DO NOT LIFT BY 2 POINTS FOR AVOIDING OVER LOADING.)
 (3) UPPER/LOWER HALF ASSY (HOR. FACE UP) SHALL BE LIFTED WITH SPECIAL TOOL AS SHOWN BELOW.

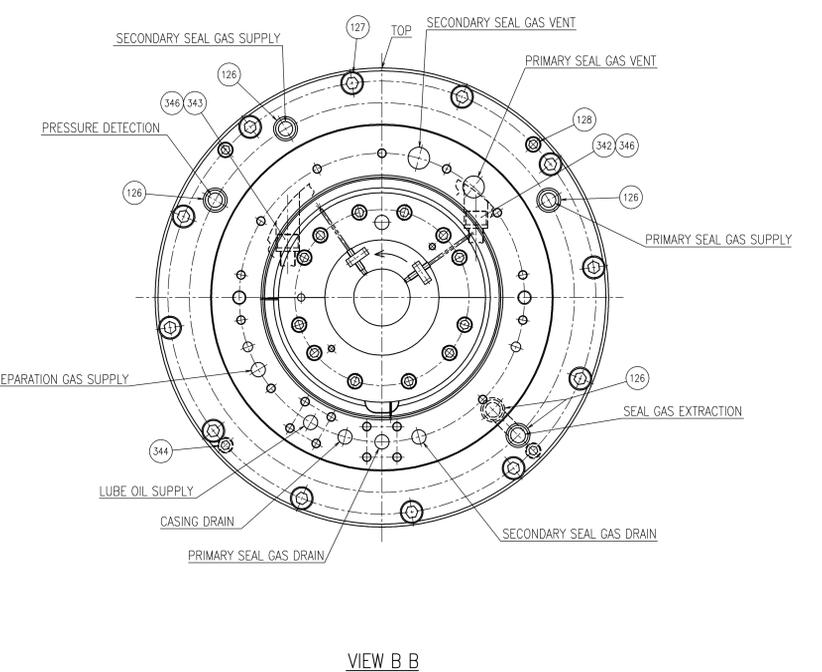
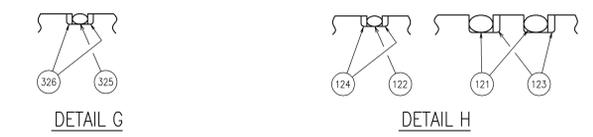
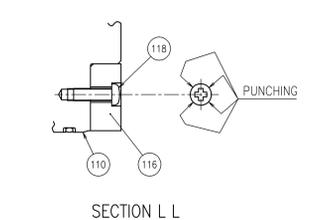


FREE END

STEAM TURBINE SIDE



NOTE: REFER TO ITEM NO. SHOWN ON PARTS LIST. EXAMPLE: ZDD REFERS TO ITEM NO. 210,220,230...



NOTE: ALL CLEARANCES ARE MEASURED ON THE HORIZONTAL SPLIT SURFACE. AXIAL DIMENSIONS ARE MEASURED WHEN THE THRUST DISC IS IN THE MIDDLE OF THE THRUST BEARING CLEARANCE. LOCKING SCREWS ARE SET ON THE HORIZONTAL SPLIT SURFACE OF INLET WALL/ DISCHARGE WALL. O-RING CORDS ARE SET ON THE HORIZONTAL SPLIT SURFACE OF LOWER DIAPHRAGMS/ INLET WALL/ DISCHARGE WALL.

CLEARANCE TABLE FOR INITIAL ASSEMBLY

IMPELLER STG.	DR. CLEARANCE (mm)	SHAFT LABRY. STG.	DR. CLEARANCE (mm)
1	1-2	1-2	
2	2-3	2-3	
3	0.5 4*8	3-4	0.5 4*8
4	4-5	4-5	
5	5-6	5-6	
6	0.6 4*7		
BALANCE PISTON	0.5 4*8		

NOTE: AFTER SHOP PUNCHING TEST, CLEARANCES REPLACED "*" TO THE ABOVE VALUES ARE ACCEPTABLE.

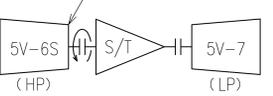
REFERENCE DRAWING NO.

ROTOR ASSEMBLY	790-28421
BEARING & SEAL ASSEMBLY DWG. (1/2)	790-19515
BEARING & SEAL ASSEMBLY DWG. (2/2)	790-19516
COUPLING ASSEMBLY	790-44021
COMP. OUTLINE ASSEMBLY	790-19519

TIGHTEN THE BOLT (ITEM 344) WITH FOLLOWING TORQUE.

ITEM	TORQUE (kgf·m)
344	2.5 (kgf·m)

THIS COMP. IS SHOWN



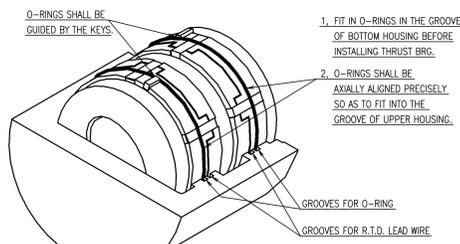
SYMBOL	DESCRIPTION	MATERIAL	REVISION	DATE	WORKS	REVISION	DATE	REMARKS
1	ENGINEERING DEPARTMENT							
2	COMPRESSOR & TURBINE ENGINEERING SECTION							
3	APPROVED: Y. KAWANO							
4	PREPARED: T. OHTA							
5	DRAWN: K. OKANO							
6	SCALE: 1/4							
7	DATE: 17/4							
8	PROJECT NO. 2000							
9	DRAWING NO. 790-19514							
10	PROJECT NAME: 103-J SYNTHESIS GAS COMPRESSOR 5V-6S (HP)							
11	INTERNAL ASSEMBLY DRAWING							
12	SCALE: 1/4							
13	DATE: 17/4							
14	PROJECT NO. 2000							
15	DRAWING NO. 790-19514							

DRAWING NO. 790-19514

Auto CAD

A B C D E F G H J K L M N P

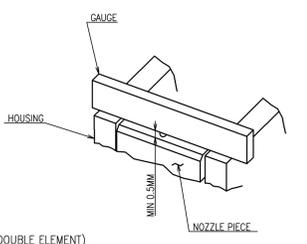
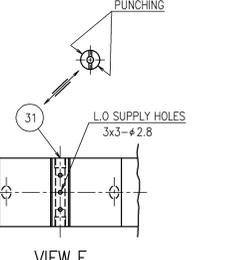
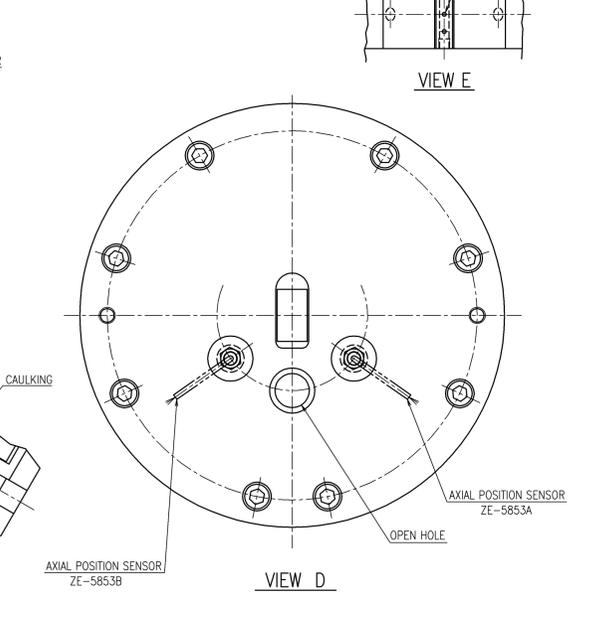
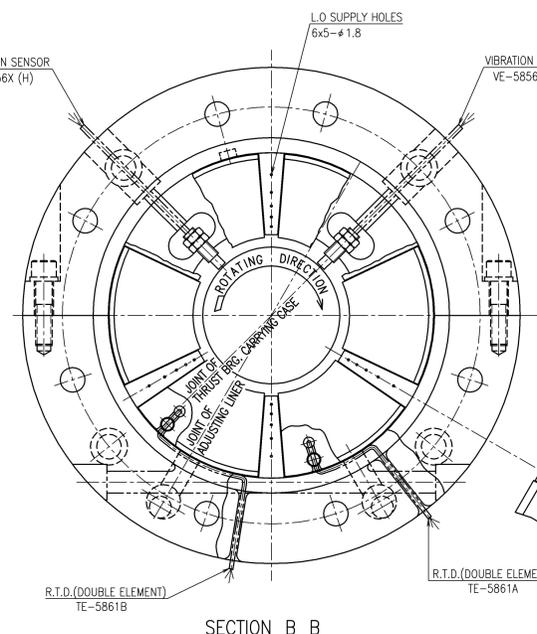
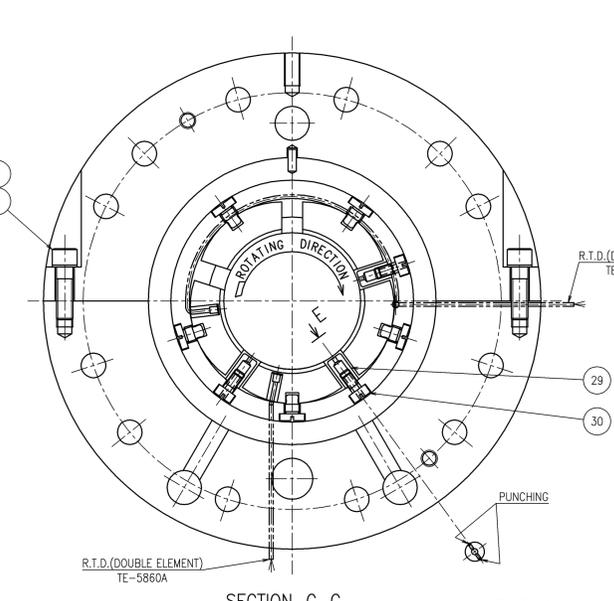
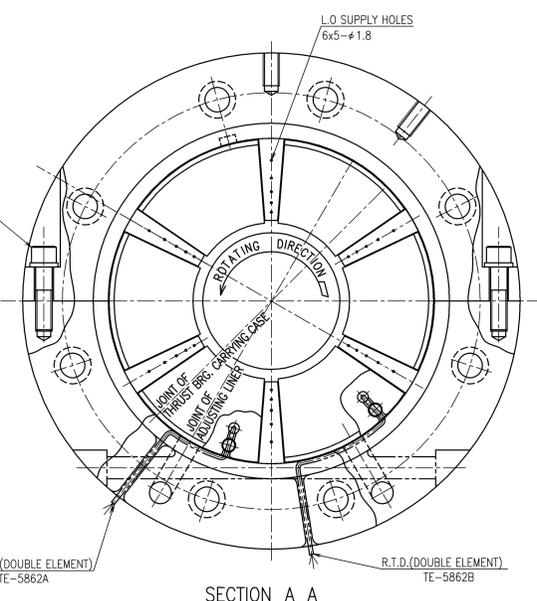
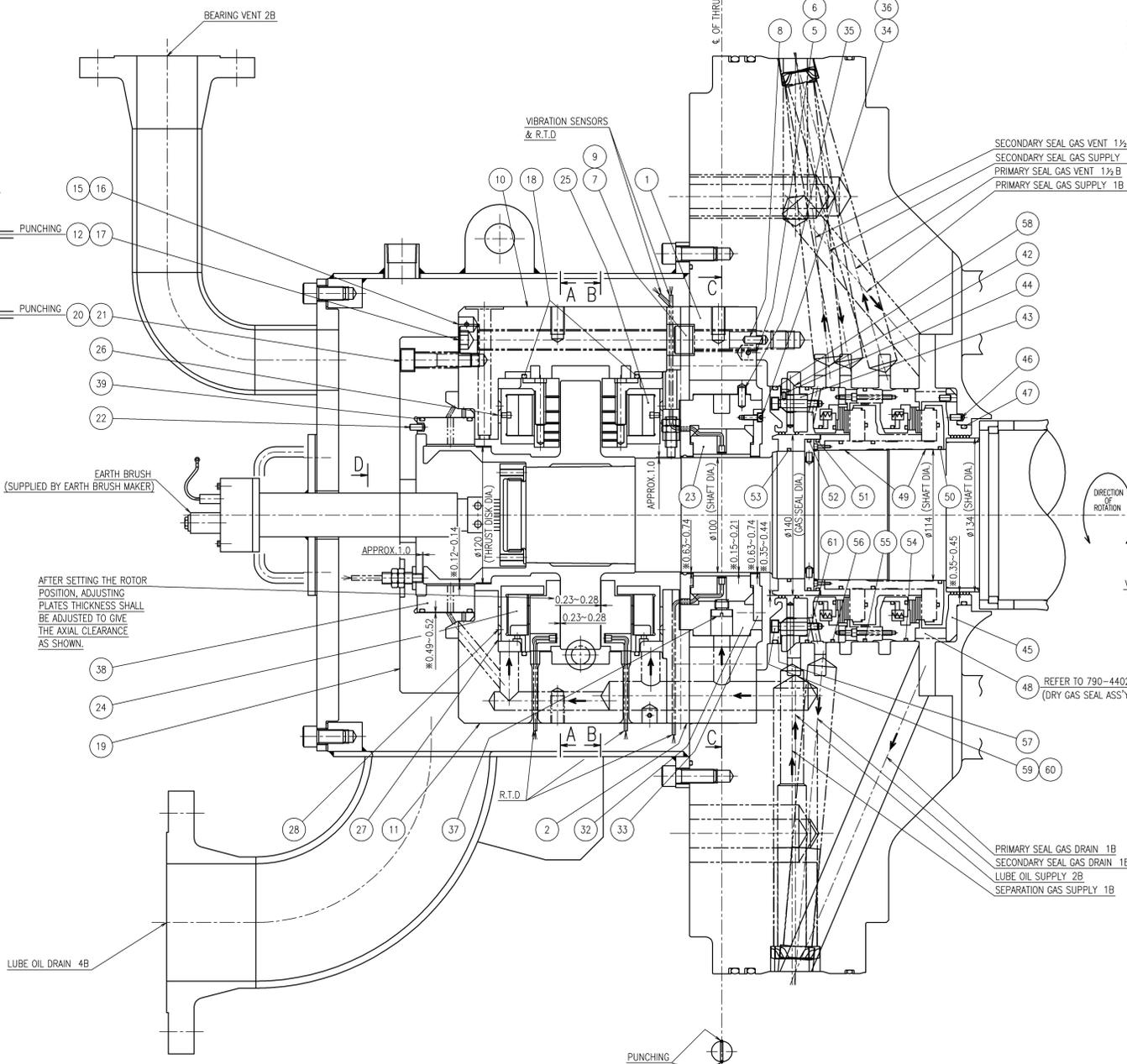
INSTALLATION PROCEDURE OF O-RINGS FOR THRUST BEARING



- 1. FIT IN O-RINGS IN THE GROOVE OF BOTTOM HOUSING BEFORE INSTALLING THRUST BRG.
- 2. O-RINGS SHALL BE AXIALLY ALIGNED PRECISELY SO AS TO FIT INTO THE GROOVE OF UPPER HOUSING.

ITEM	PARTS NAME	PARTS NUMBER	QUANTITY	PER PRICE	TOTAL WEIGHT (Kg)	REMARKS
63						
62						
61	O-RING	4711-87	1	0.1		
60	CONICAL SPR.WSHR 2ND 6	4711-85	5	0.1		
59	BOLT HEX SOCK M6X35	4711-84	5	0.1		
58	O-RING D3.5XD211.5	4711-83	1	0.1		
57	SEPARATION LABYRINTH	4711-81	1	1.5		
56	O-RING	4711-79	1	0.1		
55	O-RING	4711-78	1	0.1		
54	O-RING	4711-77	1	0.1		
53	O-RING	4711-76	1	0.1		
52	O-RING	4711-75	1	0.1		
51	O-RING	4711-74	1	0.1		
50	O-RING	4711-73	1	0.1		
49	TOLERANCE RING	4711-72	2	0.1		
48	GAS SEAL ASSEMBLY	4711-71	1	26.9		
47	O-RING D3.5XD146.5	4711-54	1	0.1		
46	SPRING PIN D5X10	4711-53	1	0.1		
45	SHAFT SEAL LABYRINTH	4711-51	1	0.6		
44	SPRING PIN D3X6	4711-13	1	0.1		
43	RETAINING RING	4711-12	1	1.6		
42	STOP RING	4711-11	1	0.9		
41						
40						
39	OG-"O" RING D3.5XD159	4111-82	2	0.1		
38	O/H DAMPER RING	4111-81	1	4.2		
37	BL-SET BOLT M12X14	4111-77	5	0.1		
36	CONICAL SPR.WSHR 2ND 4	4111-76	12	0.1		
35	SPRING PIN D6X16	4111-74	1	0.1		
34	BOLT HEX SOCK M4X0.7X12	4111-73	12	0.1		
33	JOURNAL HOUSING COVER	4111-72	1	1.0		
32	JOURNAL HOUSING (THRUST)	4111-71	1	12.0		
31	PG-PLUG M8	4111-63	6	0.1		
30	BL-SUPPLY BOLT M8X13.5	4111-62	3	0.1		
29	OR-SUPPLY OIL NOZZLE D2.8	4111-61	3	0.4		
28	SCREW +CON. M4X0.7X6	4111-53	12	0.1		
27	AL-ADJUSTING LINER (BTM)	4111-52	2	0.2		
26	AL-ADJUSTING LINER (TOP)	4111-51	2	0.2		
25	K9C KINGSBURY ASSY (INN)	4111-43	1	12.2		
24	K9C KINGSBURY ASSY (OUT)	4111-42	1	12.2		
23	TILTING PAD (THRUST)	4111-41	1	3.9		
22	SPRING PIN D5X10	4111-34	1	0.1		
21	CONICAL SPR.WSHR 2ND 12	4111-33	8	0.1		
20	BOLT HEX SOCK M12X50	4111-32	8	0.5		
19	O/H DAMPER HOUSING	4111-31	1	24.0		
18	OG-"O" RING D3.5XD228	4111-29	2	0.1		
17	CONICAL SPR.WSHR 2ND 16	4111-28	8	0.1		
16	SCREW +CON. M4X0.7X20	4111-27	2	0.1		
15	PN-SET PIN D13X14	4111-26	2	0.1		
14	SPR.LK.WSHR. NO.2 12	4111-25	4	0.1		
13	BOLT HEX SOCK M12X50	4111-24	4	0.3		
12	BOLT HEX SOCK M16X270	4111-23	8	3.9		
11	THRUST HOUSING (BTM)	4111-22	1	53.0		
10	THRUST HOUSING (TOP)	4111-21	1	53.0		
9	CONICAL SPR.WSHR 2ND 16	4111-19	4	0.1		
8	SPRING PIN D6X16	4111-18	1	0.1		
7	BOLT HEX SOCK M16X70	4111-17	4	0.7		
6	SCREW +CON. M4X0.7X20	4111-16	2	0.1		
5	PN-SET PIN D13X14	4111-15	2	0.1		
4	CONICAL SPR.WSHR 2ND 12	4111-14	2	0.1		
3	BOLT HEX SOCK M12X40	4111-13	2	0.2		
2	JOURNAL HOUSING RING (BTM)	4111-12	1	23.0		
1	JOURNAL HOUSING RING (TOP)	4111-11	1	23.0		

A1 図表共98(2)



NOTE

- JOURNAL BEARING CLEARANCE SHALL BE MEASURED AS FOLLOWS.
 - THE INNER DIAMETER OF HOUSING SHOULD BE MEASURED AFTER ASSEMBLING THE HOUSING.
- TILTING PAD THICKNESS.
 - TOTAL CLEARANCE = $D_{me} - 2 \times T_{me} - \text{SHAFT DIA.} = 0.15 \sim 0.21$
 - THE RESULTS OF MEASURING SHOULD BE RECORDED.
 - "M" DIMENSIONS SHOW DIAMETRAL CLEARANCE.

REFERENCE DRAWING

- BEARING & SEAL ASSEMBLY DRAWING(2/2) ---- 790-19516

SPECIFICATION

- THRUST BEARING TYPE K-9
- JOURNAL BEARING DIA. $\phi 100$
- SEAL DIA. $\phi 114$
- LABYRINTH DIA. $\phi 134$

SPARE	MARK	DESCRIPTION	MATERIAL	TEST PRESS	WORKS	REMARKS
1 SET		ENGINEERING DEPARTMENT COMPRESSOR & TURBINE ENGINEERING SECTION				
		TEC/KALTIM-5				
		103-J SYNTHESIS GAS COMPRESSOR 5V-6S (HP)				
		BEARING & SEAL ASSEMBLY DRAWING(1/2)				
		SCALE 1/2				
		4100				
		790-19516				

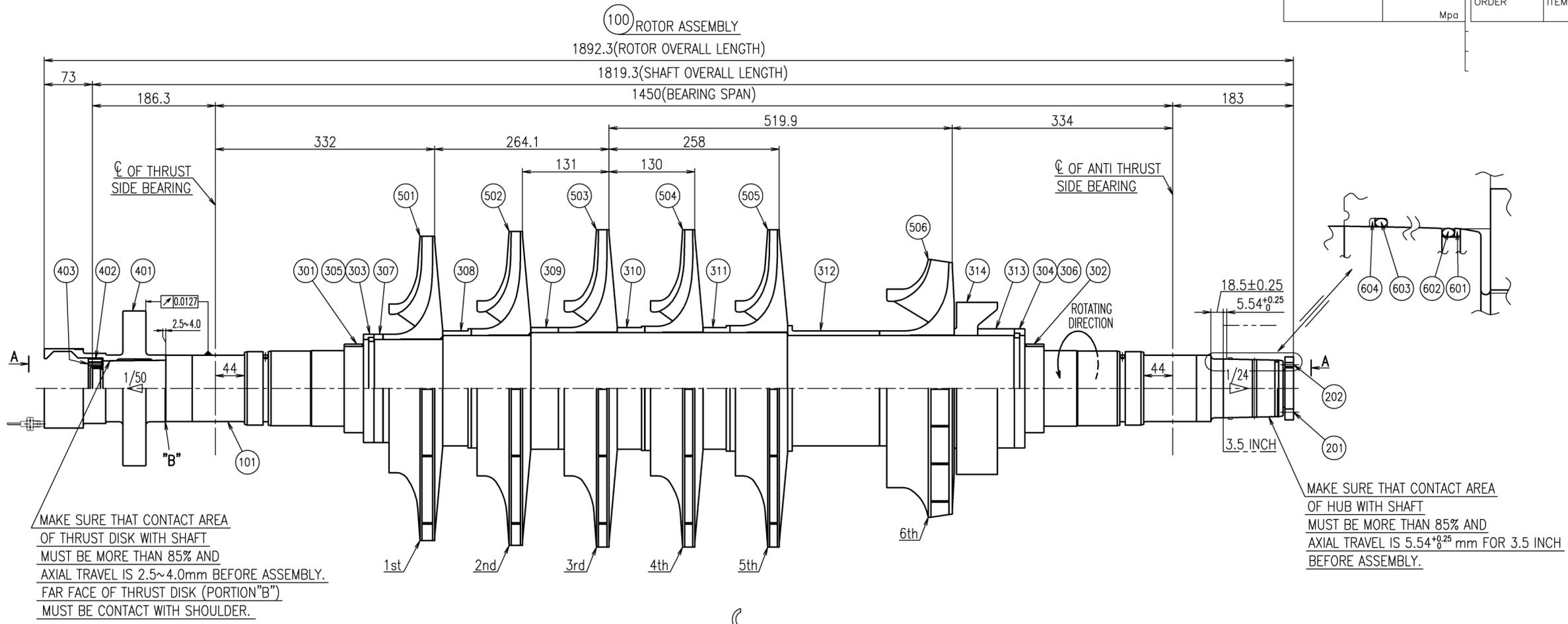
DRAWING NO. 790-19516

Auto CAD

A B C D E

THIRD ANGLE PROJECTION	HYDRAULIC TEST PRESS	PLAN RECORD	
	Mpa	THIS DRAWING REFERENCED TO	ORDER ITEM DRAWING NO. 回修

DRAWING NO. 790-28421



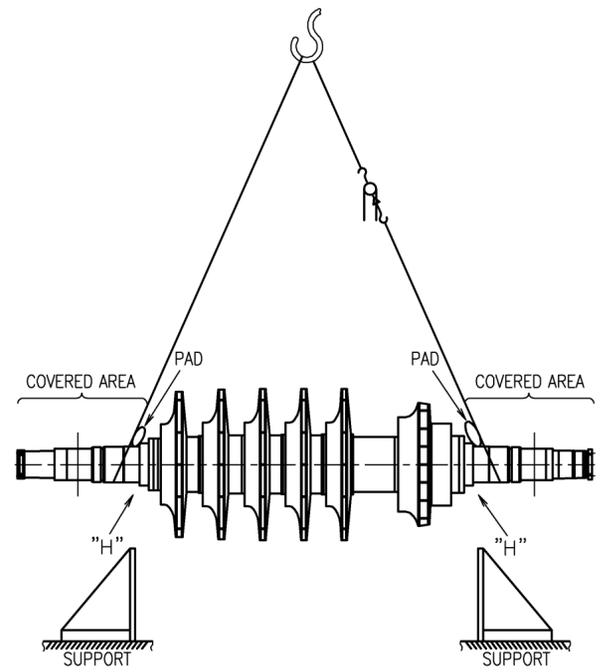
MAKE SURE THAT CONTACT AREA OF THRUST DISK WITH SHAFT MUST BE MORE THAN 85% AND AXIAL TRAVEL IS 2.5~4.0mm BEFORE ASSEMBLY. FAR FACE OF THRUST DISK (PORTION "B") MUST BE CONTACT WITH SHOULDER.

MAKE SURE THAT CONTACT AREA OF HUB WITH SHAFT MUST BE MORE THAN 85% AND AXIAL TRAVEL IS 5.54^{+0.25} mm FOR 3.5 INCH BEFORE ASSEMBLY.

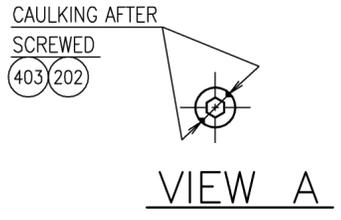
図中に指示なき場合はこの表による

寸法の区分	1 級
0.5 以上 6 以下	± 0.1
6 をこえ 30 以下	± 0.2
30 ~ 120	± 0.3
120 ~ 400	± 0.5
400 ~ 1000	± 0.8
1000 ~ 2000	± 1.2
2000 ~ 4000	± 2.0
4000 ~ 8000	± 2.0
8000 ~ 16000	± 2.5
一般加工の普通許容差	
寸法の区分	—
0.5 以上 6 以下	± 0.2
6 をこえ 30 以下	± 0.5
30 ~ 120	± 0.8
120 ~ 315	± 1.2
315 ~ 1000	± 2.0
1000 ~ 2000	± 3.0
2000 ~ 4000	± 4.0
4000 ~ 8000	± 5.0
8000 ~ 16000	± 6.0
溶接構造物の普通許容差	
寸法の区分	—
0.5 以上 120 以下	± 1.5
120 をこえ 315 以下	± 2.0
315 ~ 1000	± 3.0
1000 ~ 2000	± 5.0
2000 ~ 4000	± 7.0
4000 ~ 8000	± 10.0
8000 ~ 16000	± 15.0

MARK	PARTS NAME	PARTS NUMBER	Q'TY		WEIGHT(kg)		REMARKS
			WORKING	SPARE	PER PIECE	TOTAL	
100	ROTOR ASSEMBLY	5001-00	1	SET	—	423.6	
101	SHAFT	5111-11	1		—	215.0	
201	COUPLING LOCK NUT (3.5 INCH)	5211-11	1		—	0.4	
202	SET SCREW (FOR COUPLING)	5211-12	2		—	—	
301	SLEEVE (THRUST SIDE)	5212-11	1		—	0.3	
302	SLEEVE (ANTI THRUST SIDE)	5212-12	1		—	0.3	
303	SHROUD RING (THRUST SIDE)	5212-21	1		—	0.4	
304	SHROUD RING (ANTI THRUST SIDE)	5212-22	1		—	0.6	
305	SPLIT RING (THRUST SIDE)	5212-25	1		—	0.2	
306	SPLIT RING (ANTI THRUST SIDE)	5212-26	1		—	0.2	
307	1st IMPELLER SPACER	5212-31	1		—	0.4	
308	1st~2nd IMPELLER SPACER	5212-32	1		—	1.3	
309	2nd~3rd IMPELLER SPACER	5212-33	1		—	1.3	
310	3rd~4th IMPELLER SPACER	5212-34	1		—	1.4	
311	4th~5th IMPELLER SPACER	5212-35	1		—	1.4	
312	5th~6th IMPELLER SPACER	5212-36	1		—	3.9	
313	6th IMPELLER SPACER	5212-37	1		—	2.2	
314	BALANCE PISTON	5213-11	1		—	11.7	
401	THRUST DISK	5214-11	1		—	12.0	
402	LOCK NUT (FOR THRUST DISK)	5214-12	1		—	0.6	
403	SET SCREW (FOR THRUST DISK)	5214-13	2		—	—	
501	1st IMPELLER	5511-10	1		—	27.0	
502	2nd IMPELLER	5512-10	1		—	30.0	
503	3rd IMPELLER	5513-10	1		—	29.0	
504	4th IMPELLER	5514-10	1		—	30.0	
505	5th IMPELLER	5515-10	1		—	30.0	
506	6th IMPELLER	5516-20	1		—	24.0	
601	BACKUP RING (3.5 INCH)	5711-31	1		—	—	
602	"O" RING (3.5 INCH)	5711-32	1		—	—	
603	"O" RING (3.5 INCH)	5711-33	1		—	—	
604	BACKUP RING (3.5 INCH)	5711-34	1		—	—	



NOTE FOR ROTOR SUPPORTING
 1. ROTOR WILL BE LIFTED AS INDICATED IN ABOVE SKETCH DURING ASSEMBLY OR DISASSEMBLY OF COMPRESSOR.
 2. ROTOR SHALL BE SUPPORTED AT "H" POINTS AND RUBBER SHEETS SHALL BE KEPT BETWEEN ROTOR AND SUPPORTS. (SEAL PORTION SHALL BE COVERED FOR PROTECTION)



CLOCKWISE DIRECTION FROM THRUST SIDE VIEW.

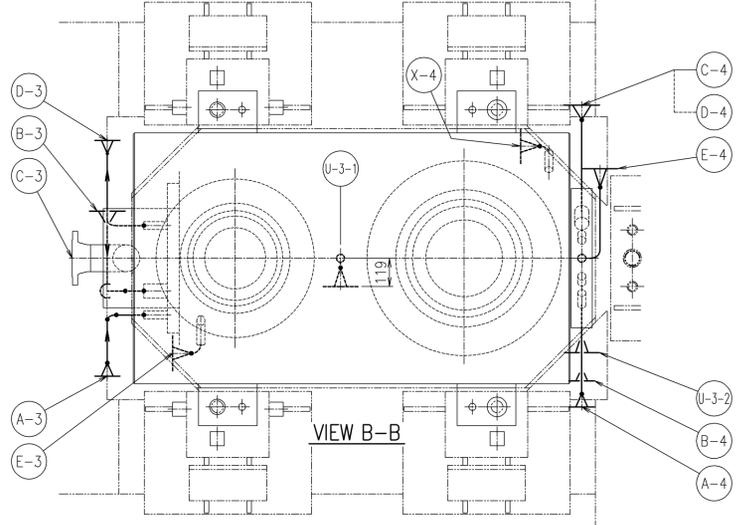
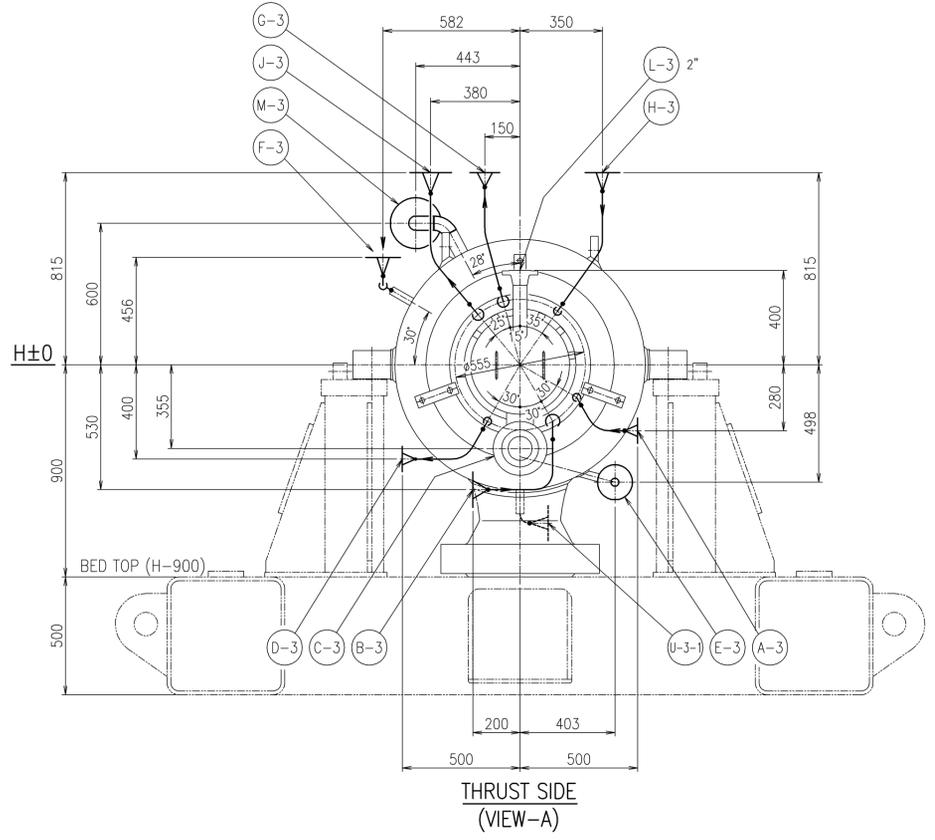
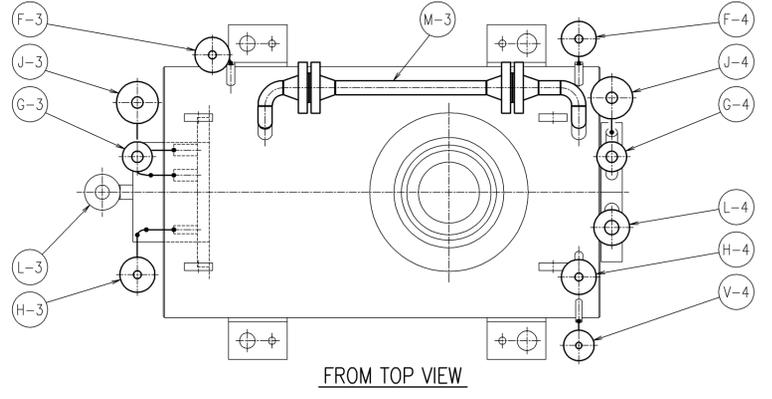
1K	1K	100	ROTOR ASSEMBLY	1K	423.6							
SPARE	WORK-ING	SPARE	MARK	DESCRIPTION	MATERIAL	TEST	WORK-ING	SPARE	WORKS	PER PIECE	TOTAL	REMARKS
1	SET	1	SET	TURBO MACHINERY ENG. DEPT. COMPRESSOR & TURBINE ENGINEERING SECTION								
	TEC/KALTIM-5	Y.K	O.I	TEC/KALTIM-5	Y.K	O.I	CUSTOMER CHECKED	APPROVED	O.ISUMI			103-J SYNTHESIS GAS COMPRESSOR 5V-6S(HP) ROTOR ASSEMBLY
	TEC/KALTIM-5	Y.K	O.I	TEC/KALTIM-5	Y.K	O.I	CUSTOMER CHECKED	CHECKED	Y.KOHNO			Pサ部 A3x1
	TEC/KALTIM-5	Y.K	O.I	TEC/KALTIM-5	Y.K	O.I	CUSTOMER CHECKED	PREPARED	A.IKENO			
	TEC/KALTIM-5	Y.K	O.I	TEC/KALTIM-5	Y.K	O.I	CUSTOMER CHECKED	DRAWN	S.TSUCHIYAMA			
TEL 4140	'12.9.8	AI		DATE	'12.9.8	AI		SCALE	1/5			500A 790-28421
								SPECIFIED NO.				
								DRAWING NO.				

MITSUBISHI HEAVY INDUSTRIES COMPRESSOR CORPORATION

製図日付	'12.08.29	マイク	初	改正回次	図種コード
出図日付		日付			類別コード
					1. 2. 3. 4. 5.

Auto CAD
 配布先 部数
 CUST
 控 出図先
 職制コード
 要求 NO.

THIRD ANGLE PROJECTION	HYDRAULIC TEST PRESS	PLAN RECORD	
	Mpa	THIS DRAWING REFERENCED TO	DRAWING NO. 頁
		ORDER	ITEM

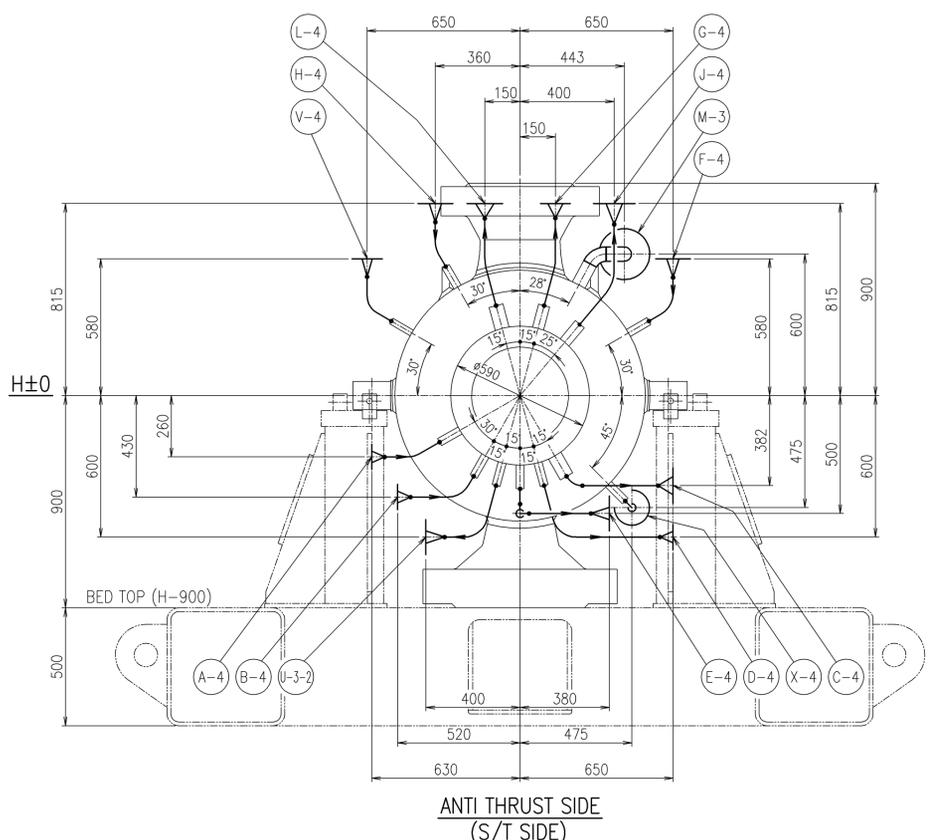
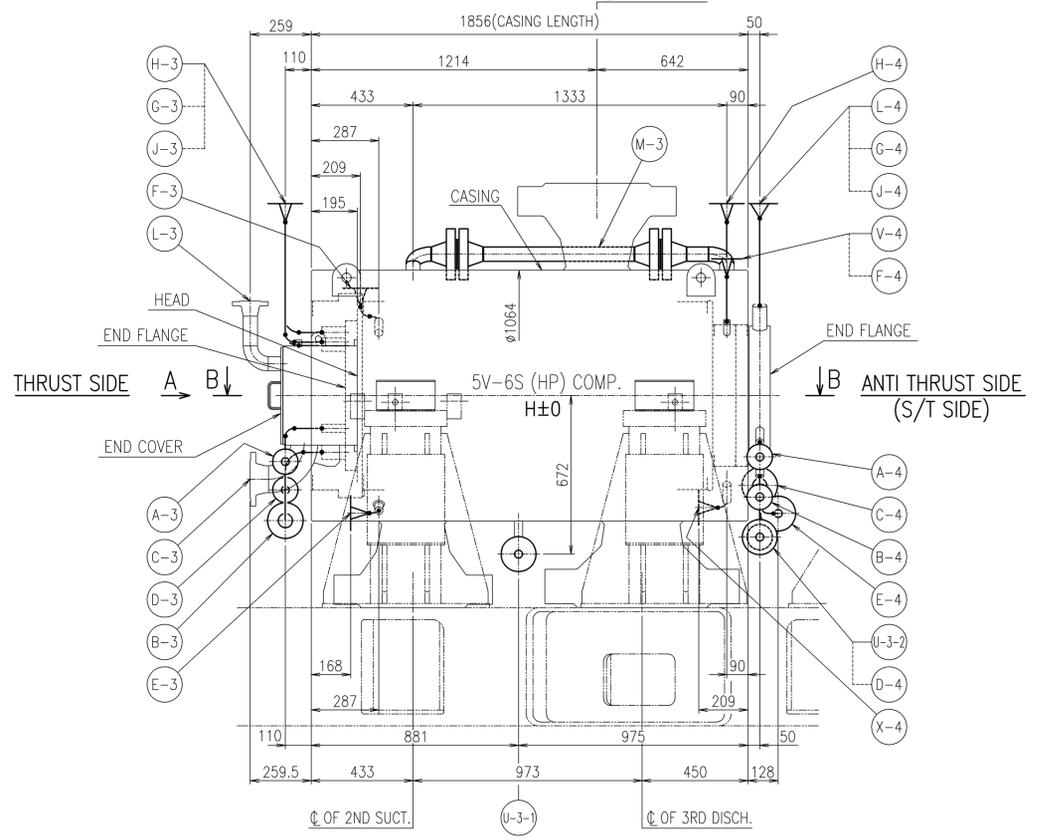


PIPING LIST

PIPE NO.	PIPE NAME	SIZE & RATING
A-3	SEPARATION GAS SUPPLY	1B ASME 150# RF
B-3	L.O. SUPPLY	2B ASME 150# RF
C-3	L.O. DRAIN	4B ASME 150# RF
D-3	SECONDARY SEAL GAS DRAIN	2B ASME 150# RF
E-3	PRIMARY SEAL GAS DRAIN	1B ASME 1500# RTJ
F-3	PRIMARY SEAL GAS SUPPLY	1B ASME 1500# RTJ
G-3	SECONDARY SEAL GAS VENT	1 1/2B ASME 150# RF
H-3	SECONDARY SEAL GAS SUPPLY	1B ASME 1500# RTJ
J-3	PRIMARY SEAL GAS VENT	1 1/2B ASME 1500# RTJ
L-3	BEARING VENT	2B ASME 150# RF
M-3	BALANCE CONNECTOR	2B ASME 1500# RTJ
U-3	CASING DRAIN	1B ASME 1500# RTJ
V-4	PRESSURE DETECTION	3/4B ASME 1500# RTJ
X-4	SEAL GAS EXTRACTION	1B ASME 1500# RTJ

REF. DWG.;

- ISOME DWG. : 861-32379
- 車室水圧試験要領図 : 790-28420
- 車室 (1/4) : 961-13525A
- 車室 (2/4) : 961-13526A
- 車室 (3/4) : 961-13527A
- 車室 (4/4) : 961-13528
- 吸込側ヘッド (1/2) : 961-14243
- 吸込側ヘッド (2/2) : 961-14244
- 吐出側ヘッド (1/2) : 961-14245
- 吐出側ヘッド (2/2) : 961-14246
- 100型シリング : 799-20318L
- 100型リネンシリング : 799-20319J
- エンドフランジ : 799-10832C
- エンドフランジケーシングドレン穴追加加工 : 799-31565A
- 技術連絡メモ (P&I 線図作成用コング配管データ) : 796-81225
- P&ID (BASE PLATE) : 750-18940C
- P&ID (GAS SEAL) : 750-18944C
- 共通台板 : 781-16681A



SPARE	WORK-PIECE	MARK	DESCRIPTION	MATERIAL	TEST-PIECE	WORK-PIECE	SPARE	WORKS	PER-PIECE	TOTAL	REMARKS												
1	SET		ENGINEERING DEPARTMENT COMPRESSOR/TURBINE ENGINEERING SECTION																				
			TEC/KALTIM-5																				
			103-J SYNTHESIS GAS COMPRESSOR PIPING ASS'Y DWG. AROUND 5V-6S(HP) COMP.																				
TEL 4241	DATE	PREPARED	SCALE	SPECIFIED NO.		DRAWING NO.																	
*12.9.25	Y.O	Y.K	1/15	8100		790-19518																	
DRAWN			MITSUBISHI HEAVY INDUSTRIES COMPRESSOR CORPORATION																				
J.SASAGUCHI			<table border="1"> <tr> <td>製図日付</td> <td>マイク</td> <td>番</td> <td>改正日付</td> <td>図検</td> <td>コー</td> </tr> <tr> <td>出図日付</td> <td>日</td> <td>月</td> <td></td> <td>1.2.3.</td> <td>4.5.</td> </tr> </table>									製図日付	マイク	番	改正日付	図検	コー	出図日付	日	月		1.2.3.	4.5.
製図日付	マイク	番	改正日付	図検	コー																		
出図日付	日	月		1.2.3.	4.5.																		

DRAWING NO. 790-19518

図中に指示なき場合はCの値による
単位はmm
寸法公差
0.5以下 ±0.1
0.5以上 1.0以下 ±0.2
1.0以上 3.0以下 ±0.3
3.0以上 12.0以下 ±0.5
12.0以上 40.0以下 ±0.8
40.0以上 100.0以下 ±1.2
100.0以上 200.0以下 ±2.0
200.0以上 400.0以下 ±2.0
400.0以上 800.0以下 ±2.5
800.0以上 1600.0以下 ±2.5
1600.0以上 ±2.5
一般公差はJIS規格による
寸法公差
—
0.5以下 ±0.2
0.5以上 1.0以下 ±0.5
1.0以上 3.0以下 ±0.8
3.0以上 12.0以下 ±1.2
12.0以上 40.0以下 ±1.2
40.0以上 100.0以下 ±2.0
100.0以上 200.0以下 ±2.0
200.0以上 400.0以下 ±2.5
400.0以上 800.0以下 ±2.5
800.0以上 1600.0以下 ±2.5
1600.0以上 ±2.5
図検印は必ず記入する
Auto CAD
配布先 部数