

191-C	
HP FLASH GAS COMPRESSOR SUCTION COOLER	SHELL TUBE
DES./OPER.TEMP.	°C 120/84.3; 42
NOR. PRESS.	kg/cm ² G 9/7.6
DES./OPER.PRESS.	kg/cm ² G 80/36; 42
INSULATION/THICK.	mm PP/25 NO/-
MATERIAL	304 SS (STRESS RELIEVE U-BEND)
DIMENSION (ID SHELLxL)	mm 400x3000
SURFACE AREA	m ² 22.4

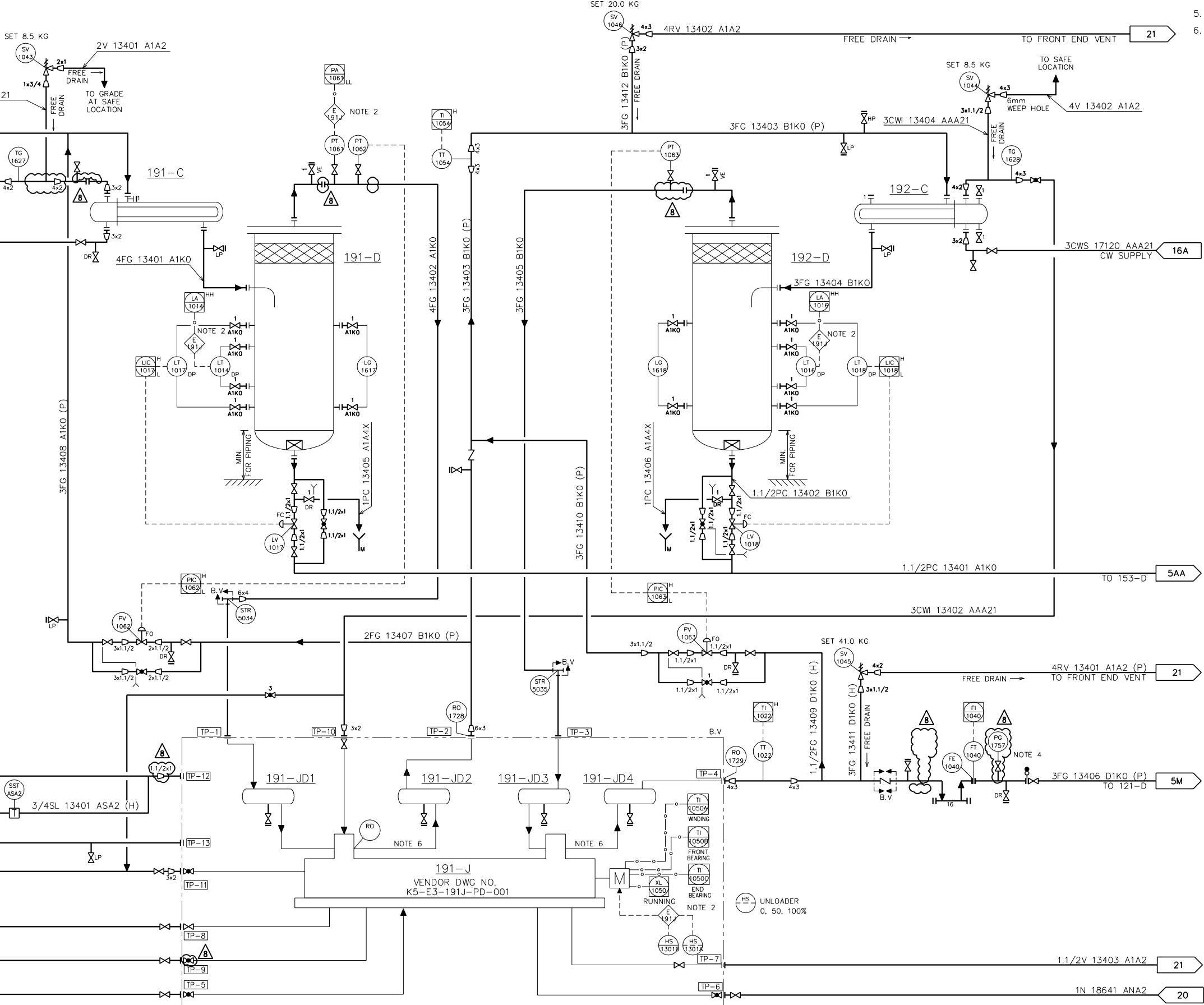
191-J		
HP FLASH GAS COMPRESSOR	SUCT.	DISCH.
DES./OPER TEMP.	°C 80/42	
NOR. TEMP.	°C 42	
DES./OPER.PRESS.	kg/cm ² G 9/6.8	
INSULATION/THICK.	mm NO/-	
FLOW RATED (DRY)	kg/h 4199	
DRIVER	MOTOR	
POWER	kW 287.2	

191-D		
HP FLASH GAS COMPRESSOR SUCTION DRUM	SUCTION	DISCHARGE
DES./OPER TEMP.	°C 80/42	
DES./OPER.PRESS.	kg/cm ² G 20/17.5	
INSULATION/THICK.	mm NO/-	
MATERIAL	304 SS (STRESS RELIEVE U-BEND)	
DIMENSION (IDxTL-TL)	mm 498x2400	
VOLUME	m ³ 0.48	

192-D		
HP FLASH GAS COMPRESSOR KNOCK OUT DRUM	SHELL	TUBE
DES./OPER TEMP.	°C 80/48	
DES./OPER.PRESS.	kg/cm ² G 9/7.6	
INSULATION/THICK.	mm NO/-	
MATERIAL	304 SS (STRESS RELIEVE U-BEND)	
DIMENSION (IDxTL-TL)	mm 600x2500	
VOLUME	m ³ 0.76	

192-C		
HP FLASH GAS COMPRESSOR INTERCOOLER	SHELL	TUBE
DES./OPER TEMP.	°C 120/84.3; 42	
DES./OPER.PRESS.	kg/cm ² G 9/7.6	
INSULATION/THICK.	mm PP/25 NO/-	
MATERIAL	304 SS (STRESS RELIEVE U-BEND)	
DIMENSION (ID SHELLxL)	mm 304.8x2500	
SURFACE AREA	m ² 22.4	

- NOTES
- FOR GENERAL NOTES SYMBOLS SEE DRAWING 4A, 4B.
 - REFER TO WRITE-UP BY CONTROL SYSTEMS ENGINEERING FOR INTERLOCK DESCRIPTION.
 - DELETED.
 - PG-1757 TO BE IN VIEW OF BLOCK VALVE ON COMP. DISCHARGE LINE (3FG 13406).
 - DELETED.
 - INSULATION BY CONTRACTOR.



REVISIONS

1	RE-ISSUED FOR CONSTRUCTION (AFC-3)	TS	AIA	DU	HOM	ANS	HK	O	L	V	14/11/13
2	RE-ISSUED FOR CONSTRUCTION (AFC-2)	TS	AIA	DU	HOM	AM	HK	US	L	V	28/06/13
3	RE-ISSUED FOR CONSTRUCTION (AFC-1)	TS	AIA	DU	HOM	AM	HK	US	L	V	10/04/13
4	ISSUED FOR CONSTRUCTION (AFC)	EB	AIA	DU	RW	AM	HK	US	L	V	26/11/12
5	RE-ISSUED FOR APPROVAL (AFD-1)	EB	AIA	DU	RW	U	HK	US	S	V	29/04/12
6	ISSUED FOR APPROVAL (AFD-2)	EB	AIA	JW	YSH	BOP	HK	SH	L	V	14/05/12
7	ISSUED FOR DETAIL DESIGN (AFT-2)	EB	AIA	JW	YSH	BOP	HK	SH	L	V	14/05/12
REV.	DESCRIPTION	DRAWN	CHGD	DESD	CHGD	APVD	APVD	APV	APV	APV	DATE

PROJECT NAME : KALTIM-5 PROJECT
2500 MTPD AMMONIA AND 3500 MTPD UREA
BONTANG, EAST KALIMANTAN, INDONESIA

CLIENT NAME : PT. PUPUK KALIMANTAN TIMUR

Engineering Services by
KBR Technical Services, Inc.

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ABBR. FOR ISSUE : C-CLIENT S-SITE V-VENDOR

ISSUE MARK : 14-Nov-13

CONTRACTOR WORK NUMBER : 10107 / BA096300 / 11-018-01

PIPING & INSTRUMENT FLOW DIAGRAM
H.P. FLASH GAS COMPRESSOR

SCALE : DWG. NO. K5-01-E1-PD-5AJ-T

DOC. NO. K5-01-E1-PD-036-T

SCALE : DWG. NO. K5-01-E1-PD-5AJ-T

DOC. NO. K5-01-E1-PD-036-T

SCALE : DWG. NO. K5-01-E1-PD-5AJ-T