



<div><div></div><div>desmet ballesta</div></div>		ITEM <u>12C1</u>		CUSTOMER		DWG. <u>1E35-35-005-1</u>						
				<u>S02 - S03 CONVERTER</u>		FLOW SHEET <u>1E35-10-003</u>						
N ^o REQUIRED <u>1</u>		PLANT <u>SULPHUREX</u>		JOB <u>1E35</u>		SHEET <u>1</u> OF <u>3</u>						
Rev.	Date	Drawn										
0	03.11.09	A.S.	ISSUED FOR BID									
1	17.11.09	A.S.	ISSUED FOR BID - REVISED WHERE INDICATED									
2	04.03.10	G.R.	ORIENTATION ON SHEET 3 DEFINED AND POSITION Z3 DELETED									
THE MASTER VERSION OF THIS DOCUMENT IS STORED AS A DIGITAL FILE IN A DATABASE - APPROVAL PROCESS IS DIGITALLY MANAGED, AND NO SIGNATURE IS VISIBLE ON THE DOCUMENT												
NOZZLES			DESIGN DATA									
POS.	SIZE	RATING	N°	SERVICE	THK.	ITEMS	SEE NOTE (1)	COLUMN	COLUMN SIDE		U-TUBES	
S1	16"	AS DWG	1	GAS INLET	8	OPERATING PRESSURE	bar (g)	12C1	12E2	12E3	12E2	12E3
S2	16"	AS DWG	1	GAS OUTLET	8	DESIGN PRESSURE	bar (g)	0,5	0,5		0,05	0,05
S3	30"	AS DWG	1	12E2 CONNECTION	8	HYDROSTATIC TEST PRESSURE	bar (g)	0,9	0,9		0,08	0,08
S4	30"	AS DWG	1	12E3 CONNECTION	8	MIN. DESIGN METAL TEMPERATURE	°C	6	6		1,5	1,5
S5	4"	S.D. R.F. 150#	1	AIR INLET	6,02	OPERAT.TEMP./MEAN METAL TEMP.	°C	-	-		-	-
S6 ^A	20"	ST. 400052	4	MANHOLE	8	DESIGN TEMPERATURE	°C	600	665	435	585	40 400 40 300
S7	3"	S.D. R.F. 150#	1	AIR INLET	3,05	FLUID/SPECIFIC WEIGHT	kg/dm3	680	AIR + S02	AIR + S02+S03	680	680
S8 ^A	10"	AS DWG	2	HANDHOLE	8	HEAT EXCHANGE SURFACE	m2	-	-	-	70	70
S9 ^A	3/4"	ASME B1201 NPT 3000#	8	SAMPLE INTAKE	3,38	HEAT TREATMENT		-	-	-	-	-
S10 ^A	1'F	ASME B1201 NPT 3000#	7	TI CONNECTION	3,38	X-RAY TEST		SPOT - NOTE "A"	YES	YES	YES	YES
						PENETRATING LIQUIDS TEST		0,7	0,7		0,7	0,7
						JOINT EFFICIENCY		-	-	-	-	-
						CORROSION ALLOWANCE	mm	23000	-	-	650	650
						GEOMETRIC CAPACITY	litri	DESMET BALLESTRA SpA				
						INSPECTION INSTITUTE		ASME VIII DIV.1				
						CODE						
WEIGHTS												
T2 ^B	16"	S.D. S.G. 150#	1	AIR OUTLET	9,52	EMPTY	~7550 Kg	OPERATING	~21240 Kg		Kg	
T1 ^B	16"	S.D. R.F. 150#	1	AIR INLET	9,52	WITH INTERCOOLERS	~11160 Kg	WATER FILLED	~35700 Kg		Kg	
T2 ^A	16"	S.D. S.G. 150#	1	AIR OUTLET	9,52							
T1 ^A	16"	S.D. S.G. 150#	1	AIR INLET	9,52							
MATERIALS		12C1	12E2	12E3	STD. DETAILS	ENCLOSED DWG.						
SHELL/HEADS/CHANNELS		A 240 - 304	A 240 - 304	A 240 - 304	NAME PL. HOLDER	ST. 0377/1						
FLANGES		A 182 -F304	A 182 -F304	A 182 -F304	NAME PLATE	SB-PRS-00120/1						
NOZZLES		A 312 TP304	A 312 TP304	A 312 TP304	PAINTING	SB-ATI-SP002/4						
MAIN FLANGES		---	A 336-F304	A 336-F304	RETENTION LUG	ST. 400227/0						
STUD BOLTS		A 193 B8 Cl.1	A 193 B8 Cl.1	A 193 B8 Cl.1	GENERAL NOTES	SB-PRS-SP001/0						
HEX. NUTS		A 194 8C	A 194 8C	A 194 8C	MANHOLE	ST. 400052/4						
HEAVY HEX. NUTS		A 194 8C	A 194 8C	A 194 8C	LIFTING LUG *TYPE 2*	ST. 400168/0						
TUBESHEETS		---	A 240 - 304	A 240 - 304	EARTHING LUG	ST. 400169/0						
EXCH. TUBES		---	A 249 TP304	A 249 TP304								
U EXCH. TUBES NUMBER		N°181-1"BWG 14 PITCH 31,75 △	N°181-1"BWG 14 PITCH 31,75 △	N°181-1"BWG 14 PITCH 31,75 △	NOTES:							
GASKETS		CORRUGATED METAL JACKETED AISI 304 - CERAMIC FIBER										
ITEM		INSULATION										
12C1		160 mm (1x80 =60m2 / 1x80 =64m2)										
12E2		160 mm (1x80 =3,3m2 / 1x80 =3,6m2)										
12E3		160 mm (1x80 =3,3m2 / 1x80 =3,6m2)										
SAMPLE INTAKE PIPE ASSEMBLING		30 mm										
- THE THICKNESS SHOWN ON THE DRAWING ARE INTENDED AS MINIMUM CALCULATED VALUE A) LONG-JOINT MIN. 10%, CROSS WELD MIN. 50%, CIRC-JOINT MIN. 5%.												

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