Προμήθειες

Διεύθυνση Προμηθειών
Λειτουργιών Παραγωγής

Αριθμός Πρόσκλησης: ΔΠΛΠ - 902511

Αντικείμενο: Προμήθεια μεταλλικών ανοξείδωτων διαστολικών συνδέσμων για τον λέβητα της Μονάδας V (MODULE 1-5) του ΑΗΣ Κερατέας-Λαυρίου

ΣΥΜΠΛΗΡΩΜΑ Νο1

Με το παρόν Συμπλήρωμα Νο1, τροποποιείται η Πρόσκληση ως ακολούθως:

1. Επισυνάπτονται τα σχέδια του κατασκευαστή, που αναφέρονται στο άρθρο 2, του τεύχους 4 της Τεχνικής Προδιαγραφής.

2. Παρατείνεται η καταληκτική ημερομηνία υποβολής προσφορών μέχρι τις **28.03.2025** και ώρα **12:00**.

Οι λοιποί όροι της αρχικής Πρόσκλησης, που δεν τροποποιούνται με το παρόν Συμπλήρωμα Νο1, παραμένουν σε πλήρη ισχύ ως έχουν.

Συνημμένα: Δύο (2) σχέδια (4 φύλλα)

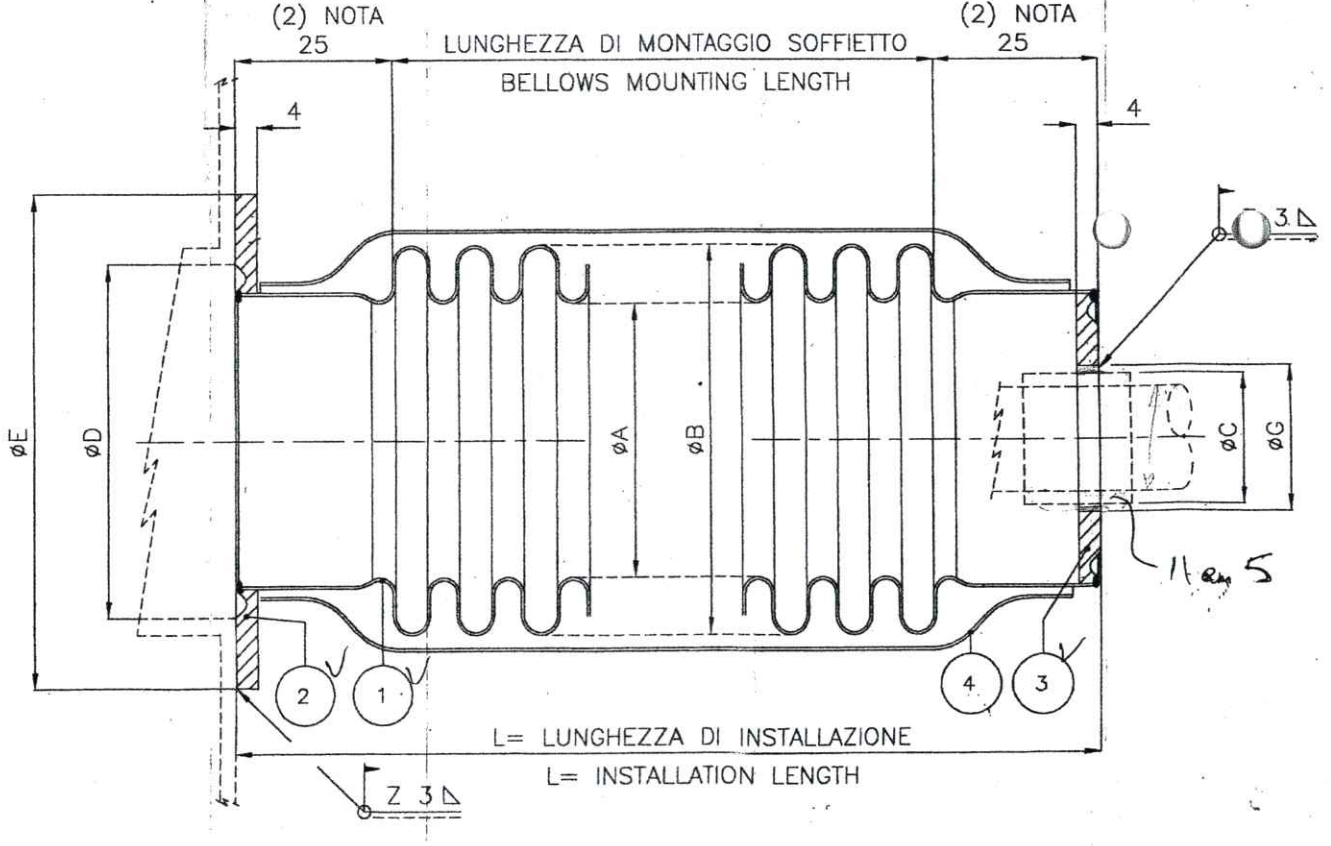
Χαλκοκονδύλη 22
104 32, Αθήνα
dei.gr

+30 210 5230301
+30 210 5293801

1a.

** the number of pieces is attributed to 1 unit

POS	ITEM	** Q.ty	DN	A	B	C	D	E	G	L	MOVIMENTI AXIAL X	LATERAL Y1	LATERAL Y2	SPRING RATE (±20%) N/mm Axial	SPRING RATE (±20%) N/mm Lateral	CODICE	
1	GM-05	69	100	129	158	100.9	140	160	103	200	±10	±5	±20	32.5	40	FAF000100023	
	GM-06	12	100	129	158	100.9	140	160	103	200	±10	±5	±18	32.5	40	FAF000100023	
	GM-10	30	100	129	158	100.9	140	160	103	200	±10	±5	±14	32.5	40	FAF000100023	
	GM-14	42	100	129	158	100.9	140	160	103	200	±10	±5	±10	32.5	40	FAF000100023	
2	GM-02a	28	150	151	186	126.3	162	200	128	200	±10	±5	±19	25.6	46.1	FAF000150042	
	GM-02b	16	150	151	186	126.3	162	200	128	200	±10	±5	±17(1)	25.6	46.1	FAF000150042	
	GM-03a	28	150	151	186	126.3	162	200	128	200	±10	±5	±14	25.6	46.1	FAF000150042	
	GM-03c	4	150	151	186	126.3	162	200	128	200	±10	±5	±16	25.6	46.1	FAF000150042	
	GM-04	18	150	151	186	126.3	162	200	128	200	±10	±5	±6	25.6	46.1	FAF000150042	
	GM-08	9	150	151	186	126.3	162	200	128	200	±10	±5	±19	25.6	46.1	FAF000150042	
	GM-09	18	150	151	186	126.3	162	200	128	200	±10	±5	±5	25.6	46.1	FAF000150042	
	GM-12	1	150	151	186	126.3	162	200	128	200	±10	±5	±5	25.6	46.1	FAF000150042	
	GM-13	36	150	151	186	126.3	162	200	128	200	±10	±5	±10	25.6	46.1	FAF000150042	
3	GM-01	24	150	151	186	126.3	162	200	128	200	±6	±10	±17(1)	25.6	46.1	FAF000150042	
4	GM-02c	4	150	166	205	126.3	175	220	128	200	±10	±5	±22	22.1	41.8	FAF000150060	(2) NOTA
	GM-03b	16	150	166	205	126.3	175	220	128	200	±10	±5	±23	22.1	41.8	FAF000150060	(2) NOTA
5	GM-11	3	200	219	259	180.3	229	300	182	200	−11	±5	±12	56.8	195	FAF000200032	
	GM-15	3	200	219	259	180.3	229	300	182	200	−10	±5	±9	56.8	195	FAF000200032	
6	GM-7	3	300	323	368	285	333	400	287	300	−15	±5	±16	40.6	112	FAF000300006	



1b.

DATI DI PROGETTO
DESIGN DATA

FLUIDO DI PASSAGGIO : GAS TURBINE EXHAUST
FLOWING MEDIUM
TEMPERATURA DI PROGETTO : MAX 604 °C MIN. 190
DESIGN TEMPERATURE

PRESSIONE DI PROGETTO : +550 mmH2O
DESIGN PRESSURE

CONTROLLI E COLLAUDI
TEST AND CONTROLS

- VISIVO E DIMENSIONALE A DISEGNO
- *VISUAL AND DIMENSIONAL*
- PROVA DI TENUTA PNEUMATICA : 0.5 Bar (MIN.10 minutes)
- *PNEUMATIC TEST*
- CERTIFICATI DEI MATERIALI 3.1B- UNI EN 10204/92
- *MATERIAL CERTIFICATE*

NOTA
NOTE

(1) INSTALLAZIONE CON PRE-SET = 50% (MASSIMO MOVIMENTO: GM01 - GM-02b dz=33mm)
INSTALLATION PRE-SET = 50% (MAXIMUM MOVEMENT : GM-01 - GM02b dz=33mm)

(2) LUNGHEZZA COLLETTO = 20 mm : GM-02c - GM-03b
COLLAR END = 20 mm : GM-02c - GM-03b

AS

Rev. 0 and above are RELEASED for ERECTION

KKS DWG. No. 5-HA-000-API-365

Pos. item	Descrizione object	Q.ta' q.ty	Materiale material	Codice/disegno code/dwg.
4	CUFFIA DI PROTEZIONE ESTERNA *EXTERNAL PROTECTION*	1	TESSUTO WELD-STOP	
3	ANELLO INTERNO *INTERNAL RING*	1	ASTM A240 Tp 304	
2	ANELLO ESTERNO *EXTERNAL RING*	1	ASTM A240 Tp 304	
1	SOFFIETTO *BELLOWS* N° 1 Pies	1	ASTM A240 Tp 321	

Rev.							CAD
Rev.							
Rev.							

Disegn: Drawn: PD	Data: Date: 06-10-04	Cliente : Customer:	Disegno/*Drawing*	Rev.
Contr : Chkd :	Data: Date:	Rif : Ref:	P 31694	
Scala : Scale :	Q.ta': Q.ty :			

COMPENSATORI DI DILATAZIONE " IDROINOX " - Tipo
" *IDROINOX* " *EXPANSION JOINTS* -Type
FML/S

IDROSAPIENS

REV.	DATA Date	DESCRIZIONE/Description	DIS. Dwg.	CONTR. Checked	VISTO Approv.
1	18-10-05	REVISED FOR LABELLING 'AS BUILT' ONLY. NO OTHER CHANGES	A.S.	A.R.	A.N.

LAVRION - METKA
H.R.S.G.
IDROINOX
EXPANSION JOINTS

ALSTOM
ALSTOM POWER ITALIA S.p.A.

SCALA Scale	FIRME/Signature	DATA/Date
1:1	DIS./Dwg. IDROS	06/10/04
	CONTR./Check. A.R.	18/10/04
	VISTO/Approv. A.N.	18/10/04

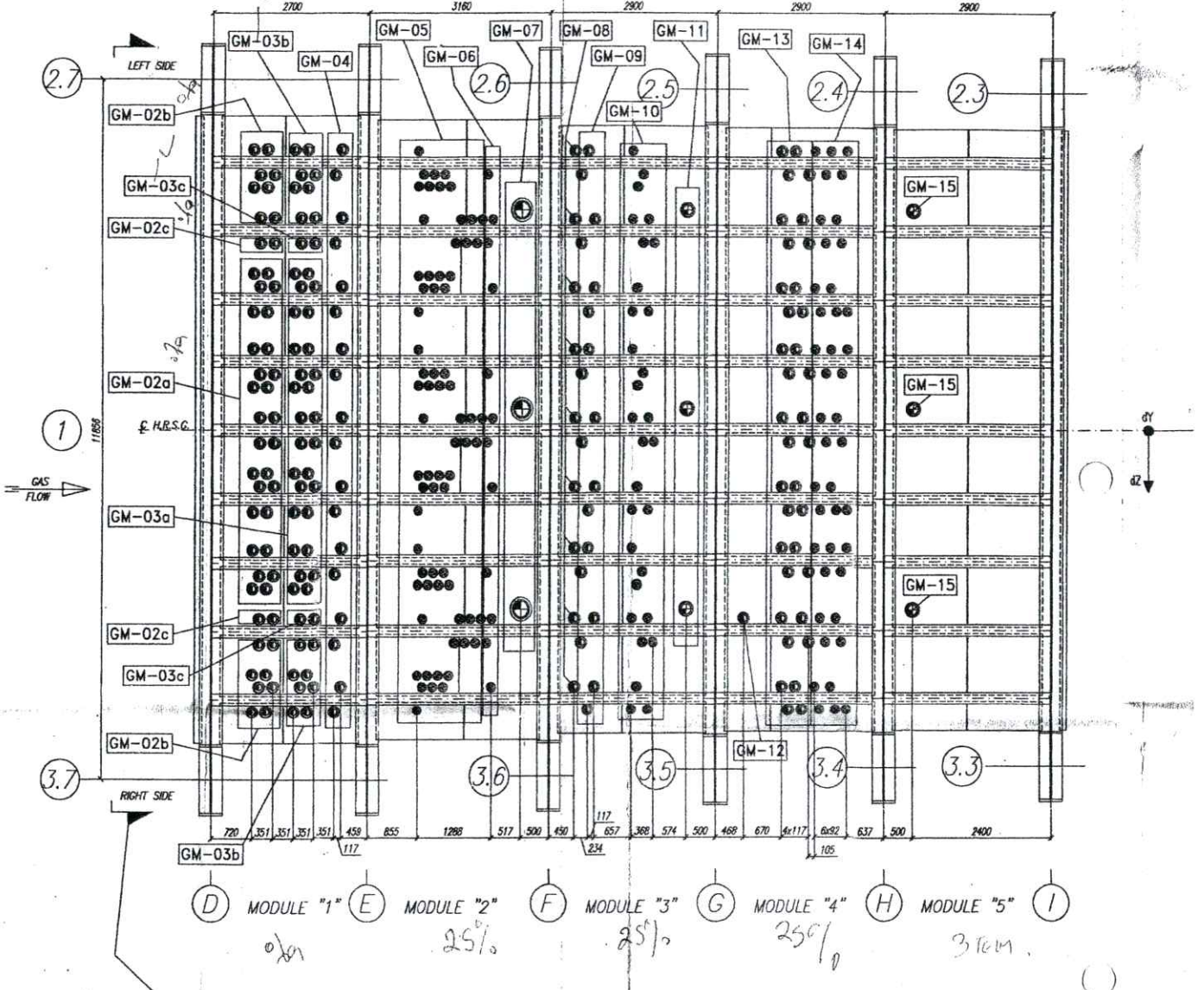
RIFERIMENTO N.
Reference N.

N°. DISEGNO/Drawing No.	TAV./Sh. / di/of
11680MDD06297	1 /

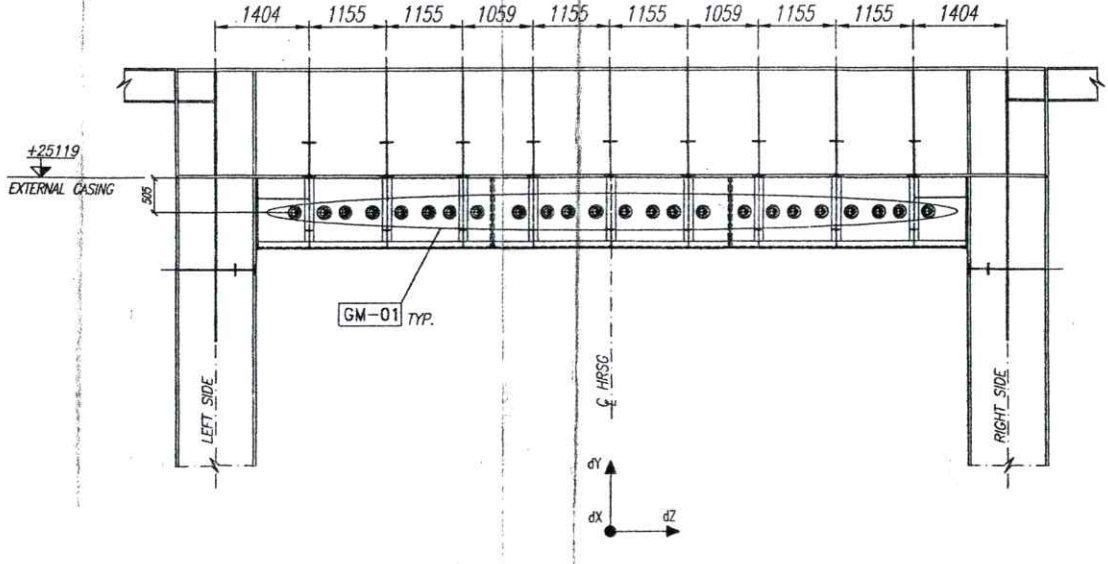
REV. 1

2a.

EXTERNAL VIEW ROOF



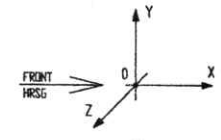
FRONT SIDE – EXTERNAL VIEW

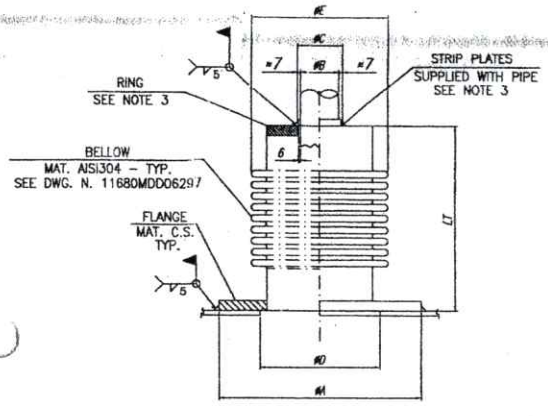


2b.

MODULE	IDENTIF. COMPON.	ITEM	DESCRIPTION	Q.ty	DIMENSIONS							MAXIMUM MOVEMENTS				DESIGN TEMPERATURE (GAS SIDE) (°C)	DESIGN PRESSURE (GAS SIDE) (mmH2O)	PIPE MATERIAL (NOTE 3)
					DN ND	øA (mm)	øB (mm)	øC (mm)	øD (mm)	øE (mm)	LT (mm)	dx (mm)	dy (mm)	dz (mm)	NOTE			
UPPER FRONT PANEL	HS12	GM-01	HPHTSH outlet links	24	100	200	114,3	128	SLOT 156x170	186	200	±6	±10	±17	(1)	604	+550	SA335 P91
1	RS12	GM-02a	HTRH outlet links	28	100	200	114,3	128	155	186	200	±5	±10	±19		604	+550	SA335 P91
		GM-02b	HTRH outlet links	16	100	200	114,3	128	SLOT 156x170	186	200	±5	±10	±17	(2)	604	+550	SA335 P91
		GM-02c	HTRH outlet links	4	100	220	114,3	128	160	205	200	±5	±10	±22		604	+550	SA335 P91
	RS4	GM-03a	LTRH inlet links	28	100	200	114,3	128	155	186	200	±5	±10	±14		604	+550	SA335 P91
		GM-03b	LTRH inlet links	16	100	220	114,3	128	SLOT 156x170	205	200	±5	±10	±23		604	+550	SA335 P91
		GM-03c	LTRH inlet links	4	100	200	114,3	128	160	186	200	±5	±10	±16		604	+550	SA335 P91
	HS1	GM-04	HPLTSH1 inlet links	18	100	200	114,3	128	155	186	200	±5	±10	±6		604	+550	SA335 P22
2	HE7-HE10	GM-05	HPEVAP risers	69	80	200	88,9	103	130	158	200	±5	±10	±20		444	+550	SA106 Gr.B
	HW14	GM-06	HPECO1 outlet links	12	80	160	88,9	103	130	158	200	±5	±10	±18		444	+550	SA106 Gr.B
	HE1	GM-07	HPEVAP downcomer	3	250	400	273	287	315	368	300	±5	-15	±16		444	+550	SA106 Gr.B
3	IS5	GM-08	IPSH outlet links	9	100	200	114,3	128	155	186	200	±5	±10	±19		321	+550	SA106 Gr.B
	LS1	GM-09	LPSH inlet links	18	100	200	114,3	128	155	186	200	±5	±10	±5		321	+550	SA106 Gr.B
	IE6-IE8	GM-10	IPEVAP risers	30	80	160	88,9	103	130	158	200	±5	±10	±14		321	+550	SA106 Gr.B
	IE1	GM-11	IPEVAP downcomer	3	150	300	168,3	182	210	259	200	±5	-11	±12		321	+550	SA106 Gr.B
4	IW4	GM-12	IPECO outlet links	1	100	200	114,3	128	155	186	200	±5	±10	±5		254	+550	SA106 Gr.B
	LE5-LE6	GM-13	LPDAER1 risers	36	100	200	114,3	128	155	186	200	±5	±10	±10		254	+550	SA106 Gr.B
	LE7	GM-14	LPDAER2 risers	42	80	160	88,9	103	130	158	200	±5	±10	±10		254	+550	SA106 Gr.B
5	LE1	GM-15	LPDAER downcomer	3	150	300	168,3	182	210	259	200	±5	-10	±9		190	+550	SA106 Gr.B

dX

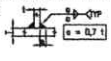




NOTES:
1) INSTALLATION PRE-SET= 50% (MAXIMUM MOVEMENT: GM-1... dz= 33mm);
2) INSTALLATION PRE-SET= 50% (MAXIMUM MOVEMENT: GM-2b... dz= 33mm);
3) SA335 P91 PIPE TO HAVE SA335 P91 RING & STRIP PLATES.
SA335 P22 PIPE TO HAVE SA387 Gr.22 RING & STRIP PLATES.
SA106 Gr.B PIPE TO HAVE SA516 Gr.70 (OR EQUIVALENT) RING & STRIP PLATES.

MARKING INSTRUCTIONS FOR SHOP DRAWINGS AND ERECTION:
- EACH COMPONENT WILL BE MARKED AS INDICATED:
- EXAMPLE : GM-01
DENOTES UNIT NUMBER — DENOTES ERECTION MARK
- ○ MEANS BILL OF MATERIAL POSITION. -SHOP
- ▭ MEANS MARK'S NUMBER. -ERECTION

WELDINGS:
- ALL WELDS TO BE CONTINUOUS FILLET WELDS UNLESS OTHERWISE SPECIFIED.
- NOT DIMENSIONED FILLET WELDS SHALL HAVE A DIMENSION "a" EQUAL TO 0,7 TIMES THE MINIMUM THICKNESS TO BE WELDED.

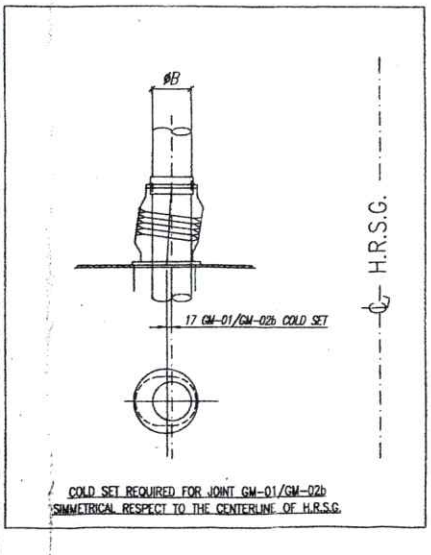


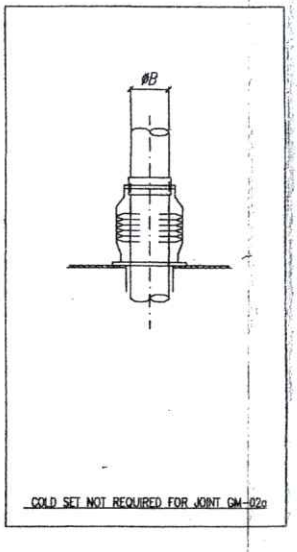
- ⚑ MEANS FIELD WELDING.

NOTES:
- ALL DIMENSIONS ARE MILLIMETERS UNLESS DIFFERENTLY SHOWN.
- ALL ELEVATIONS REFER TO QUOTE +0,00 FINISHED GROUND FLOOR.
- ARRANGEMENT SHOWN IS FOR (1) ONE UNIT, (1) ONE UNIT ON THIS CONTRACT.
- FOR ALL OTHER MANUFACTURING, TESTING AND PAINTING INSTRUCTIONS REFER TO M.R. 11680MDR06290.

NOTES FOR ERECTION:
- METALLIC EXPANSION JOINTS SHALL BE INSTALLED ON EACH PIPE BEFORE THE WELDING OF PIPE.
- METALLIC EXPANSION JOINTS TO BE PROTECTED DURING ERECTION.

REFERENCE DRAWINGS:
- FOR MODULE INSULATED PANELS - ROOF ASSEMBLY SEE DWG. N. 11680MDD06254





Rev. 1 and above are RELEASED for ERECTION

KKS DWG. No. 5-HA-000-API-362

REV.	DATA Date	DESCRIZIONE/Description	DIS. Dwg.	CONTR. Checked	VISTO Approv.
2	18-10-05	REVISED FOR LABELLING "AS BUILT" ONLY. NO OTHER CHANGES	A.S.	A.R.	A.N.
1	07/10/04	REVISED WHERE INDICATED WITH ⚠1	L.L.	A.R.	A.N.

SCALA Scale 1:25

FIRME/Signature	DATA/Date
DIS./Dwg. I.C.IMP.	16/07/04
CONTR./Check. A.R.	23/07/04
VISTO/Approv. A.N.	23/07/04

LAVRION - METKA
H.R.S.G.
HRSG METAL JOINTS ASSEMBLY AND DETAILS

RIFERIMENTO N. Reference N.

N°. DISEGNO/Drawing No. 11680MDD06296

TAV./Sh. / DI/of

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REV. 1 2