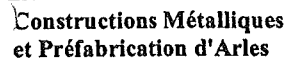


## CHAPTER 3

## PART LISTS





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**Client / Customer : AIR LIQUIDE AGS GmbH**      **Engineered System N° :**

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Rev 0

**NOMENCLATURE/LISTE DE COLISAGE**  
**PART LIST/PACKING LIST**

	Echelle/Scale /
---	--------------------

REF	QTY	DESIGNATION	REV	NORM/NOANCE	EN10204	PODSNET	CERTIF
ITEM	QTY	DESIGNATION	REV	NORM/MATERIAL	CERTIF	NET WEIGHT	VISA
10	107.2m <sup>3</sup>	FOAMGLAS 600x450x100		HLB1000		14400	see Chapter 8

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**Dossier CMP Arles : 783**

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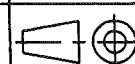
Rev B

**Client / Customer : AIR LIQUIDE AGS GmbH**      **Engineered System N° :**

**Plan N° : 783-03**

## NOMENCLATURE/LISTE DE COLISAGE

PART LIST/PACKING LIST



Echelle/Scale

[illegible]

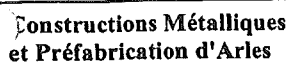
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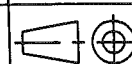
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**Plan N° : 783-03**

**NOMENCLATURE/LISTE DE COLISAGE**  
**PART LIST/PACKING LIST**



Echelle/Scale

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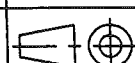
Dossier CMP Arles : 783

Page/Sheet 13/13

Client / Customer : AIR LIQUIDE AGS GmbH Engineered System N° :

Rev A

Plan N° : 783-03

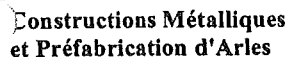
NOMENCLATURE/LISTE DE COLISAGE  
PART LIST/PACKING LIST Echelle/Scale  
1

3.G	1	TOLE (plate) thk 8 dia 800		A240 304	3.1b	35	2
4.1	1	ELEMENT DE FOND (bottom) 3950x2000x5		A240 304	3.1b	310	6
4.2	2	ELEMENT DE FOND (bottom) 3725x2000x5		A240 304	3.1b	290	6
4.3	2	ELEMENT DE FOND (bottom) 1260x2000x5		A240 304	3.1b	305	6
4.4	4	ELEMENT DE FOND (bottom) 4968x2000x5		A240 304	3.1b	1406	6
4.5	4	ELEMENT DE FOND (bottom) 4869x2000x5		A240 304	3.1b	1286	6
4.6	2	ELEMENT DE FOND (bottom) 3217x 769x5		A240 304	3.1b	143	6
4.7	2	ELEMENT DE FOND (bottom) 2557x 769x5		A240 304	3.1b	102	6
6a	1	TOLE (plate) (annular bottom ring section thk 7)	A	A240 304	3.1b	78	
6b	1	TOLE (plate) (annular bottom ring section thk 7) with overlength	A	A240 304	3.1b	85	
10	420	PONTET (scaffolding support) U80x40 Lg 60 thk 5	A	A240 304/304L *	3.1b	160	9
5	1 + 49	ELEMENT DE FRETTTE (stiffening ring section) Lg:5000 sub-assembly item				4430	
5a	1	TOLE (plate) thk 6		A240 304	3.1b		11
5b	1	TOLE (plate) thk 8		A240 304	3.1b		12
6.1	6	SECTEUR D'ANNEAU D'EMBASE (annular bottom ring section) sub-assembly item	A			1377	
6a	3	TOLE (plate) (annular bottom ring section thk 7)		A240 304	3.1b		10
7.1	6	SECTEUR D'ANNEAU DE COMPRESSION (compression ring section) sub-assembly item	A			945	
7a	3	TOLE (plate) thk 15		A240 304	3.1b		13
7.2	1	SECTEUR D'ANNEAU DE COMPRESSION (compression ring section) sub-assembly item	A			110	
7a	1	TOLE (plate) thk 15		A240 304	3.1b		13
7b	1	TOLE (plate) thk 15		A240 304	3.1b		13
8	10	OREILLE DE LEVAGE (lifting lug) sub-assembly item				32	
8a	1	FOURRURE (pad) 120x200x10		A240 304/304L *	3.1b		6
8b	1	TOLE (plate) thk 15		A240 304/304L *	3.1b		13
						11094	
				* or equivalent			
REP	Qty	DESIGNATION	re	NORME/NUANCE	EN10204	RODS/NET	CERTIF
ITEM	Qty	DESIGNATION	re	NORME/MATERIAL	CERTIF	NET WEIGHT	VISA/EXP

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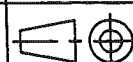
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Rev 0

**Client / Customer : AIR LIQUIDE AGS GmbH      Engineered System N° :**

Plan N° : 783-04

**NOMENCLATURE/LISTE DE COLISAGE**  
**PART LIST/PACKING LIST**



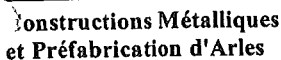
Echelle/Scale

3.1	6	ELEMENT DE VIROLE (shell) 2110x7727x6 (1)	A283 grC	3.1b	4696	14
3.2	6	ELEMENT DE VIROLE (shell) 2110x7727x6 (1)	A283 grC	3.1b	4696	14
3.3	6	ELEMENT DE VIROLE (shell) 2110x7727x6 (1)	A283 grC	3.1b	4696	14
3.4	3	ELEMENT DE VIROLE (shell) 2110x7727x6 (1)	A283 grC	3.1b	2348	14
					16436	
PACKED ON SADDLE N°05						
3.4	3	ELEMENT DE VIROLE (shell) 2110x7727x6 (1)	A283 grC	3.1b	2348	14
3.5	6	ELEMENT DE VIROLE (shell) 2110x7727x6 (1)	A283 grC	3.1b	4696	14
3.6	6	ELEMENT DE VIROLE (shell) 2110x7727x6 (1)	A283 grC	3.1b	4696	14
3.7	6	ELEMENT DE VIROLE (shell) 2110x7727x6 (1)	A283 grC	3.1b	4696	14
					16436	
PACKED ON SADDLE N°06						
(1) sandblasted SA 2.5 and prepainted with primer of zinc 20 microns (both sides)						
REF	QTC	DESIGNATION	rev	NORME/NUANCE	EN10204	POIDS NET Kg
ITEM	Qty	DESIGNATION	rev	NORM/MATERIAL	CERTIF	NET WEIGHT

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**Plan N° :783-04**

# NOMENCLATURE/LISTE DE COLISAGE PART LIST/PACKING LIST

Echelle/Scale  
/

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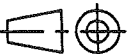
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et Préfabrication d'Arles1, Rue Copernic - Z.I. Nord - 13200 ARLES  
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Plan N° : 783-04

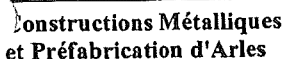
NOMENCLATURE/LISTE DE COLISAGE  
PART LIST/PACKING LIST Echelle/Scale  
/

4.1	7	ELEMENT DE FOND (bottom) 5100x2000x5 (2)		A283 grC	3.1b	7327	16
4.2	2	ELEMENT DE FOND (bottom) 5015x2000x5 (2)		A283 grC	3.1b		16
4.3	4	ELEMENT DE FOND (bottom) 2424x2000x5 (2)		A283 grC	3.1b		16
4.4	4	ELEMENT DE FOND (bottom) 4426x2000x5 (2)		A283 grC	3.1b		16
4.5	4	ELEMENT DE FOND (bottom) 2645x2000x5 (2)		A283 grC	3.1b		16
4.6	4	ELEMENT DE FOND (bottom) 2391x2000x5 (2)		A283 grC	3.1b		16
4.7	4	ELEMENT DE FOND (bottom) 1829x1556x5 (2)		A283 grC	3.1b		16
5.1	9	PLAT 150x20 (ring) Lg ~ 5450		EN10025 S235JRG2*	/	1240	—
5.2	9	PLAT 150x20 (ring) Lg ~ 5450		EN10025 S235JRG2*	/	1240	—
5.3	9	PLAT 150x20 (ring) Lg ~ 5450		EN10025 S235JRG2*	/	1240	—
6.1	3	UPN 140 Lg ~ 5300		EN10025 S235JRG2*	/	285	—
6.2	6	UPN 140 Lg ~ 5600		EN10025 S235JRG2*	/	600	—
9	32+416	PONTET (scaffolding support) U80x40 Lg 60 thk 5		EN10025 S235JRG2*	/	240	—
10	2	PLAQUE MISE A LA TERRE (earthing plate)	A	S.S.	/	1	—
8	11	OREILLE DE LEVAGE (lifting lug) sub-assembly item				40	—
8a	1	FOURRURE (pad) 140x250x10		EN10025 S235JRG2*			—
8b	1	TOLE (plate) thk 15		EN10025 S235JRG2*			—
* or equivalent							
(2) Delivered of 19 plates 2000x5100x5xfor this items sandblasted SA 2.5 and prepainted with primer of zinc 20 microns (both sides)							
						12213	
REF	QTY	DESIGNATION	REV	NORME/NUANCE	EN10204	POIDS NET kg	CERTIF N°
ITEM	Qty	DESIGNATION	REV	NORM/MATERIAL	CERTIF	NET WEIGHT	VISA EXP

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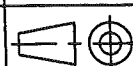


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Rev A

**NOMENCLATURE/LISTE DE COLISAGE**  
**PART LIST/PACKING LIST**



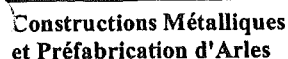
Echelle/Scale

S/E	QTY	DENOMINATION	NORME/MATERIAL	CERTIF.	NET WEIGHT	VISA EXP.
<b>TUBULURE (nozzle) N/A3</b>						
<b>SUB-ASSEMBLY INCLUDING ITEMS:</b>						
8	1	BRIDE EP:19 PERCE DE 36 TROUS Ø18 SUR Ø810 (flange thk.19 drilled 36 holes Ø18 on Ø810) Ra 3.2 to 6.3	A240 304	3.1b		30A/B
7	1	MANCHETTE (neck) Ø762x6 Lg: 915	A240 304	3.1b		5-27
3	8	ASSIETTE (1/2 below) thk.1.5	A240 304/304L	3.1b		17
1	1	MANCHETTE (neck) Ø762x6 Lg: 688	A240 304	3.1b		5-27
1	1	MANCHETTE (neck) Ø762x6 Lg: 170	A240 304	3.1b		5-27
5	8	TUBE (pipe) Ø20x2.3 Lg:420	304L/316L*	/		-
6abc	2+2+2	PLAT (flat) 65x5	A240 304/304L*	/		-
<b>SUB-ASSEMBLY INCLUDING ITEMS:</b>						
9	1	TAMPON (blind flange) Ø850x14	A240 304 *	3.1b		31A/B
4	2	POIGNEE (handle) Ø16	A479 304/304L*	/		-
<b>SUB-ASSEMBLY INCLUDING ITEMS:</b>						
12	1	TOLE (plate) Ø1000x6	A240 304	3.1b		5-27
19	1	1/2 MANCHON(half coupling) 1/4" NPT	304L/316L*	/		-
			* or equivalent			
REP	QTY	DENOMINATION	NORME/MATERIAL	CERTIF.	NET WEIGHT	VISA EXP.

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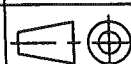


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Page/Sheet 12/12  
Rev B

**NOMENCLATURE/LISTE DE COLISAGE**  
**PART LIST/PACKING LIST**



Echelle/Scale

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**Client / Customer : AIR LIQUIDE AGS GmbH**

**Engineered System N° :**

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Rev 0

**Plan N° : 783-07**

## NOMENCLATURE/LISTE DE COLISAGE

PART LIST/PACKING LIST



Echelle/Scale

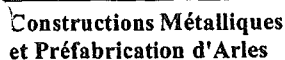
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**NOMENCLATURE/LISTE DE COLISAGE**  
**PART LIST/PACKING LIST**



Echelle/Scale

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Dossier CMP Arles : 783

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Client / Customer : AIR LIQUIDE AGS GmbH Engineered System N° :

Plan N° : 783-14.A1

NOMENCLATURE/LISTE DE COLISAGE  
PART LIST/PACKING LIST

Echelle/Scale  
/

		NOZZLE A1						
S/E.1	1	SUB-ASSEMBLY INCLUDING ITEMS:					23	
TU4	1	TUBE (pipe) RS 8" Sch 10S			A312 TP304L	/		
B3	1	BRIDE (flange) 8" WN 150# FF ANSI B16.5 Ra : 3,2 to 6,3		A	A182 F304L	/		
S/E.2	1	SUB-ASSEMBLY INCLUDING ITEMS:					40.5	
3b	1	TOLE (plate) Thk.12			A240 304/304L	/		
3a	1	MANCHETTE (pipe) Ø508 O.D Thk.5			A240 304/304L	/		
S/E.3	1	SUB-ASSEMBLY INCLUDING ITEMS:					3	
R	1	TOLE (plate) Ø340x6			A240 304	3.1b		33
M	1	1/2 MANCHON(half coupling) 1/4" NPT			304L/316L*	/		
S/E.4	1	SUB-ASSEMBLY INCLUDING ITEMS:					30	
1a	2	COMPENSATEUR (compensator) DN150 PN1			304L/321	3.1b		SEE CHAPTER
		Axial : ±50 Lateral : ±6						
TU1	1	TUBE (pipe) ESS 6" Sch 40S			A312 TP304L	3.1b		7.1
TU2	1	TUBE (pipe) RS 6" Sch 10S			A312 TP304L	/		
TU3	1	TUBE (pipe) RS 6" Sch 10S			A312 TP304L	/		
S/E.5	1	SUB-ASSEMBLY INCLUDING ITEMS:					22	
B1	1	BRIDE (flange) 6" WN 150# RF ANSI B16.5 Ra : 3,2 to 6,3			A182 F304L	/		
B2	1	BRIDE (flange) 6" WN 150# FF ANSI B16.5 Ra : 3,2 to 6,3			A182 F304L	/		
		PIECES LIVREES NON ASSEMBLEES						
		ITEMS DELIVERED IN SEPARATES PARTS						
B1	1	BRIDE (flange) 6" WN 150# RF ANSI B16.5 Ra : 3,2 to 6,3			A182 F304L	/	11	
J1	2	JOINT (gasket) Ø222x168x3			KLINGERSIL C4430	/	0.2	
J2	1	JOINT (gasket) Ø279x168x3 drilled 8 holes Ø22 on Ø241.3			KLINGERSIL C4430	/	0.2	
J3	1	JOINT (gasket) Ø343x219x3 drilled 8 holes Ø22 on Ø298.4		A	KLINGERSIL C4430	/	0.1	
5	0.5	ROULEAU DE LAINE DE ROCHE (rockwool rool)				/	5	
TF1	16+2	TIGE FILETEE (thread stud) M20x 80 MUNIE DE 1			A193 B8M C11	/	9	
E1		ECROU (with 1 nut) HhM20			A194 8M			
TF3	8+1	TIGE FILETEE (thread stud) M20x 120 MUNIE DE 2			A193 B8M C11	/	3.5	
E3		ECROUS (with 2 nuts) HhM20			A194 8M			
TU5	1	TUBE (pipe) RS 3/4" sch 40S Lg: 376			A312 TP304L	/	0.6	
TU6	1+1	TUBE (pipe) RS 3/4" sch 40S Lg: 1200 including overlength			A312 TP304L	/	3.4	
TU7	1	TUBE (pipe) RS 3/4" sch 40S Lg: 100			A312 TP304L	/	0.2	
CO1	2+1	COUDE (elbow) RS LR 90° 3/4" sch 40S			A403 WP304L	/	0.3	
8	1	RACCORD 3 PIECES (3 pieces fitting)			304L/316L*	/	1	
		1/2" NPT MALE / 3/4" BW						
					* or equivalent		153.0	
RDP	Q/6	DESIGNATION		REV	NORM/NUANCE	EN10204	POIDS NET Lb	CERTIF
ITEM	Q/6	DESIGNATION		REV	NORM/MATERIAL	CERTIF	NET WEIGHT	VISA EXC

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Dossier CMP Arles : 783

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Rev A

Client / Customer : AIR LIQUIDE AGS GmbH Engineered System N° :

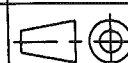
Plan N° : 783-14.A2

NOMENCLATURE/LISTE DE COLISAGE  
PART LIST/PACKING LIST

Echelle/Scale  
/

		NOZZLE A2						
S/E.1	1	SUB-ASSEMBLY INCLUDING ITEMS:					23	
TU4	1	TUBE (pipe) RS 8" Sch 10S		A312 TP304L	/			
B3	1	BRIDE (flange) 8" WN 150# FF ANSI B16.5 Ra : 3,2 to 6,3	A	A182 F304L	/			
S/E.2	1	SUB-ASSEMBLY INCLUDING ITEMS:					40,5	
3b	1	TOLE (plate) Thk.12		A240 304/304L	/			
3a	1	MANCHETTE (pipe) Ø508 O.D Thk.5		A240 304/304L	/			
S/E.3	1	SUB-ASSEMBLY INCLUDING ITEMS:					3	
R	1	TOLE (plate) Ø340x6		A240 304	3.1b			33
M	1	1/2 MANCHON(half coupling) 1/4" NPT		304L/316L*	/			
S/E.4	1	SUB-ASSEMBLY INCLUDING ITEMS:					30	
1a	2	COMPENSATEUR (compensator) DN150 PN1		304L/321	3.1b			SEE CHAPTER
		Axial : ±50 Lateral : ±6						
TU1	1	TUBE (pipe) ESS 6" Sch 40S		A312 TP304L	3.1b		7.1	
TU2	1	TUBE (pipe) RS 6" Sch 10S		A312 TP304L	/			
TU3	1	TUBE (pipe) RS 6" Sch 10S		A312 TP304L	/			
S/E.5	1	SUB-ASSEMBLY INCLUDING ITEMS:					22	
B1	1	BRIDE (flange) 6" WN 150# RF ANSI B16.5 Ra : 3,2 to 6,3		A182 F304L	/			
B2	1	BRIDE (flange) 6" WN 150# FF ANSI B16.5 Ra : 3,2 to 6,3		A182 F304L	/			
		PIECES LIVREES NON ASSEMBLEES ITEMS DELIVERED IN SEPARATES PARTS						
B1	1	BRIDE (flange) 6" WN 150# RF ANSI B16.5 Ra : 3,2 to 6,3		A182 F304L	/		11	
J1	2	JOINT (gasket) Ø222x168x3		KLINGERSIL C4430	/		0.2	
J2	1	JOINT (gasket) Ø279x168x3 drilled 8 holes Ø22 on Ø241.3		KLINGERSIL C4430	/		0.2	
J3	1	JOINT (gasket) Ø343x219x3 drilled 8 holes Ø22 on Ø298.4	A	KLINGERSIL C4430	/		0.1	
5	0.5	ROULEAU DE LAINE DE ROCHE (rockwool rool)			/		5	
TF1	16+2	TIGE FILETEE (thread stud) M20x 80 MUNIE DE 1		A193 B8M C11	/		9	
E1		ECROU (with 1 nut) HhM20		A194 8M				
TF3	8+1	TIGE FILETEE (thread stud) M20x 120 MUNIE DE 2		A193 B8M C11	/		3.5	
E3		ECROUS (with 2 nuts) HhM20		A194 8M				
TU5	1	TUBE (pipe) RS 3/4" sch 40S Lg: 376		A312 TP304L	/		0.6	
TU6	1+1	TUBE (pipe) RS 3/4" sch 40S Lg: 1200 including overlength		A312 TP304L	/		3.4	
TU7	1	TUBE (pipe) RS 3/4" sch 40S Lg: 100		A312 TP304L	/		0.2	
CO1	2+1	COUDE (elbow) RS LR 90° 3/4" sch 40S		A403 WP304L	/		0.3	
8	1	RACCORD 3 PIECES (3 pieces fitting)		304L/316L*	/		1	
		1/2" NPT MALE / 3/4" BW						
				* or equivalent			153.0	
RPT	Qty	DESIGNATION	REV	NORMENUNANCE	ENI0204	ROISNED 26	CERTIF N°	
ITEM	Qty	DESIGNATION	REV	NORM/MATERIAL	CERTIF	NET WEIGHT	WISA EXT	

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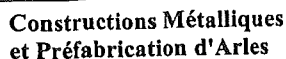
**Dossier CMP Arles : 783**Page/Sheet 6/6  
Rev A**Client / Customer : AIR LIQUIDE AGS GmbH** Engineered System N° :**Plan N° : 783-14.G1****NOMENCLATURE/LISTE DE COLISAGE**  
PART LIST/PACKING LIST Echelle/Scale  
/

NOZZLE G1									
S/E.1	1	SUB-ASSEMBLY INCLUDING ITEMS:						15	
R1	1	REDUCTION 4"/6" (Concentric reducer 4"/6" Sch 10S)				A403 WP304L	/		
B	1	BRIDE (flange) 4" WN 150# RF ANSI B16.5 Ra : 3,2 to 6,3			A	A182 F304L	/		
CO1	1	COUDE (elbow) RS LR 6"sch 10S				A403 WP304L			
S/E.2	1	SUB-ASSEMBLY INCLUDING ITEMS:						50	
3a	1	TOLE (plate) Thk.12				A240 304/304L	/		
3b	1	MANCHETTE (pipe) Ø508 O.D Thk.5				A240 304/304L	/		
S/E.3	1	SUB-ASSEMBLY INCLUDING ITEMS:						3	
N	1	TOLE (plate) Ø340x6				A240 304	3.1b		33
M	1	1/2 MANCHON(half coupling) 1/4" NPT				304L/316L*	/		
S/E.4	1	SUB-ASSEMBLY INCLUDING ITEMS:						30	
1a	2	COMPENSATEUR (compensator) DN6" PN1				321	3.1b	} SEE CHAPTER 7.1	
TU1	1	TUBE (pipe) ESS 6" Sch 40S				A312 TP304L	3.1b		
TU2	1	TUBE (pipe) RS 6" Sch 10S				A312 TP304L	/		
TU3	1	TUBE (pipe) RS 6" Sch 10S				A312 TP304L	/		
S/E.5	1	SUB-ASSEMBLY INCLUDING ITEMS:						21	
R1	1	REDUCTION 4"/6" (Concentric reducer 4"/6" Sch 10S)				A403 WP304L	/		
B	1	BRIDE (flange) 4" WN 150# RF ANSI B16.5 Ra : 3,2 to 6,3			A	A182 F304L	/		
TU4	1	TUBE (pipe) RS 6" Sch 10S Lg.805				A312 TP304L	/		
PIECES LIVREES NON ASSEMBLEES									
ITEMS DELIVERED IN SEPARATES PARTS									
4	0.5	ROULEAU DE LAINE DE ROCHE (rockwool rool)					/	5	
E	32 + 4	ECROU (nut) HM16				A194 8M	/	1.6	
TF	16 + 2	TIGE FILETEE (threaded stud) M16x100				A193 B8M Cl 1	/	3.2	
J	2	JOINT (gasket) Ø174x114x3				KLINGERSIL	/	0.1	
						C4430			
5	2	TOLE PLIEE (plate) U 50x50 thk.5 Lg.1450 (1)				A240 304/304L	/	11	
6	1	TOLE PLIEE (plate) U 50x50 thk.5 Lg.350				A240 304/304L	/	1.5	
7	2	TOLE PLIEE (plate) U 50x50 thk.5 Lg.410				A240 304/304L	/	3.1	
8	1	ETRIER FILETE (threaded stirrup) Ø12 for pipe 6"				SS	/	0.1	
9	6	ECROU (nut) HM12				SS	/	0.1	
10	2	RONDELLE (washer) L12				SS	/	0.1	
11	2	TOLE (plate) 100x100x5				A240 304/304L	/	1	
								146	
						* or equivalent			
REP	Qty	DESIGNATION			rev	NORMENANCE	EN10204	PODSNET	GERMAN
ITEM	Qty	DESIGNATION			rev	NORM/MATERIAL	CERTIF	NET WEIGHT	USA, EN

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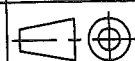
**Dossier CMP Arles : 783**

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RevA

**Client / Customer : AIR LIQUIDE AGS GmbH**      **Engineered System N° :**

**Plan N° : 783-16.D**

# NOMENCLATURE/LISTE DE COLISAGE PART LIST/PACKING LIST



Echelle/Scale

TUBULURE D (nozzle D)					
D/1	1	SUB-ASSEMBLY INCLUDING ITEMS:			14
TU1	1	TUBE Ø60.3x2.77(pipe 2" sch 10S) lg: 2675 (1) WELDED	A	A312 TP304L	3.1b
CO1	1	COUDE Ø60.3x2.77(elbow LR 2" sch 10S 90°) WELDED		A403 WP304L	/
TU2	1	TUBE Ø60.3x3.91(pipe 2" sch 40S) lg:353 SEAMLESS		A312 TP304L	/
R	1	TOLE Ep.6 (plate thk 6) Ø150		A240 304	3.1b
M	1	MANCHON (half coupling) 1/4" NPT		304L/316L*	/
D/3	1	SUB-ASSEMBLY INCLUDING ITEMS:			7
TU6	1	TUBE Ø60.3x2.77(pipe 2" sch 10S) lg: 700 (1) WELDED		A312 TP304L	/
CO5	1	COUDE Ø60.3x2.77(elbow LR 2" sch 10S 90°) WELDED		A403 WP304L	/
B1	1	BRIDE (flange) WN 2" 150# RF ANSI B16.5 Ra 3.2 to 6.4		A182 F304L	/
D/4	1	SUB-ASSEMBLY INCLUDING ITEMS:			5
TU10	1	TUBE Ø88.9x2.11(pipe 3" sch 5S) lg:213 (1) WELDED		A312 TP304L	/
B2	1	BRIDE (flange) SO 3" 150# RF ANSI B16.5 Ra 3.2 to 6.4		A182 F304L	/
(1) including an overlength of 200 mini				* or equivalent	27
REP	Qté	DESIGNATION	rev	NORME/NUANCE	CERTIF
ITEM	Qty	DESIGNATION	rev	NORM/MATERIAL	CERTIF

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Dossier CMP Arles : 783

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Rev 0

Client / Customer : AIR LIQUIDE AGS GmbH Engineered System N° :

Plan N° : 783-16.R1

NOMENCLATURE / LISTE DE COLISAGE  
PART LIST / PACKING LIST

Echelle/Scale  
/

		NOZZLE R1									
S/E.1	1	SUB-ASSEMBLY INCLUDING ITEMS:								29	
B	1	BRIDE (flange) DIN 2635 form C DN80					A182 F304L	/			
TU1	1	TUBE (pipe) RS 3" sch 10S lg:1540 (1)					A312 TP304L	/			
CO2	1	COUDE (elbow) RS LR 3" sch 10S 90°					A403 WP304L	/			
4	1	TUBE (pipe) RS 12" sch 5S lg:355					A312 TP304L	/			
5	1	TOLE (plate) thk.5 Ø340					A240 304L	/			
S/E.2	1	SUB-ASSEMBLY INCLUDING ITEMS:								27	
TU5	1	TUBE (pipe) RS 3" sch 10S lg: 1968 (1)					A312 TP304L	/			
CO5	1	COUDE (elbow) RS LR 3" sch 10S 90°					A403 WP304L	/			
CO4	1	COUDE (elbow) RS LR 3" sch 10S 90°					A403 WP304L	/			
TU6	1	TUBE (pipe) SS 3" sch 40S lg: 213					A312 TP304L	3.1b			21A-B
S/E.3	1	SUB-ASSEMBLY INCLUDING ITEMS:								3	
R	1	TOLE (plate) thk.6 Ø190					A240 304	3.1b			33
M	1	1/2 MANCHON (half coupling) 1/4"NPT					304L/316L*	/			

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**Plan N° : 783-16.R1**

**NOMENCLATURE / LISTE DE COLISAGE**  
**PART LIST / PACKING LIST**

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 Echelle/Scale  
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(1) including overlength of 200 mini

\* or equivalent

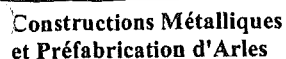
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REP	Qty	DESIGNATION	rev	NORM/NUANCE	EN10204	POIDS/NET WT	CERTIF. N°
ITEM	Qty	DESIGNATION	rev	NORM/MATERIAL	CERTIF.	NET WEIGHT	VISA EXP.

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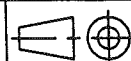
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Rev 0

**Client / Customer : AIR LIQUIDE AGS GmbH**      **Engineered System N° :**

**Plan N° : 783-16.R2**

**NOMENCLATURE / LISTE DE COLISAGE**  
**PART LIST / PACKING LIST**



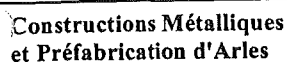
Echelle/Scale

		NOZZLE R2				
S/E.1	1	SUB-ASSEMBLY INCLUDING ITEMS:			29	
B	1	BRIDE (flange) DIN 2635 form C DN80	A182 F304L	/		
TU1	1	TUBE (pipe) RS 3" sch 10S lg:1540 (1)	A312 TP304L	/		
CO2	1	COUDE (elbow) RS LR 3" sch 10S 90°	A403 WP304L	/		
4	1	TUBE (pipe) RS 12" sch 5S lg:355	A312 TP304L	/		
5	1	TOLE (plate) thk.5 Ø340	A240 304L	/		
S/E.2	1	SUB-ASSEMBLY INCLUDING ITEMS:			27	
TU5	1	TUBE (pipe) RS 3" sch 10S lg: 1968	A312 TP304L	/		
CO5	1	COUDE (elbow) RS LR 3" sch 10S 90°	A403 WP304L	/		
CO4	1	COUDE (elbow) RS LR 3" sch 10S 90°	A403 WP304L	/		
TU6	1	TUBE (pipe) SS 3" sch 40S lg: 213	A312 TP304L	3.1b		21A-B
S/E.3	1	SUB-ASSEMBLY INCLUDING ITEMS:			3	
R	1	TOLE (plate) thk.6 Ø190	A240 304	3.1b		33
M	1	1/2 MANCHON (half coupling) 1/4"NPT	304L/316L*	/		
		(1) including overlength of 200 mini	* or equivalent		59	
REP.	Qty	DESIGNATION	rev	NORME/NUANCE	ENI0204	FONDS MET 42 CERTIF N
ITEM	Qty	DESIGNATION	rev	NORM/MATERIAL	CERTIF	NET WEIGHT VISA EX

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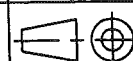
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**Client / Customer : AIR LIQUIDE AGS GmbH**      *Engineered System N° :*

**Plan N° : 783-16.R2**

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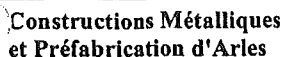


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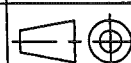
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**Plan N° : 783-16.R3**

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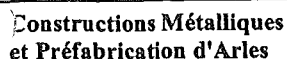
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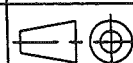


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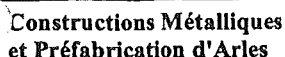
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PART LIST / PACKING LIST

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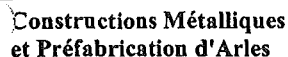


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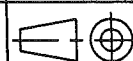
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**NOMENCLATURE / LISTE DE COLISAGE**  
**PART LIST / PACKING LIST**



Echelle/Scale

[illegible]

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Rev 0**Client / Customer : AIR LIQUIDE AGS GmbH** Engineered System N° :**Plan N° : 783-16.R5****NOMENCLATURE / LISTE DE COLISAGE**  
**PART LIST / PACKING LIST** Echelle/Scale /

		NOZZLE RS							
S/E.1	1	SUB-ASSEMBLY INCLUDING ITEMS:						29	
B	1	BRIDE (flange) DIN 2635 form C DN80				A182 F304L	/		
TU1	1	TUBE (pipe) RS 3" sch 10S lg:1540 (1)				A312 TP304L	/		
CO2	1	COUDE (elbow) RS LR 3" sch 10S 90°				A403 WP304L	/		
4	1	TUBE (pipe) RS 12" sch 5S lg:355				A312 TP304L	/		
5	1	TOLE (plate) thk.5 Ø340				A240 304L	/		
S/E.2	1	SUB-ASSEMBLY INCLUDING ITEMS:						25	
TU5	1	TUBE (pipe) RS 3" sch 10S lg: 1968 (1)				A312 TP304L	/		
CO5	1	COUDE (elbow) RS LR 3" sch 10S 90°				A403 WP304L	/		
CO4	1	COUDE (elbow) RS LR 3" sch 10S 90°				A403 WP304L	/		
TU6	1	TUBE (pipe) SS 3" sch 40S lg: 213				A312 TP304L	3.1b		21A-8
S/E.3	1	SUB-ASSEMBLY INCLUDING ITEMS:						3	
R	1	TOLE (plate) thk.6 Ø190				A240 304	3.1b		33
M	1	1/2 MANCHON (half coupling) 1/4"NPT				304L/316L*	/		

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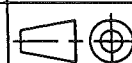
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**Dossier CMP Arles : 783**Page/Sheet 9/9  
Rev 0

**Client / Customer : AIR LIQUIDE AGS GmbH      Engineered System N° :**

**Plan N° : 783-16.R5**

**NOMENCLATURE / LISTE DE COLISAGE**  
**PART LIST / PACKING LIST**



Echelle/Scale

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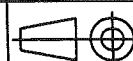
**Dossier CMP Arles : 783**

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Rev 0

**Client / Customer : AIR LIQUIDE AGS GmbH**      **Engineered System N° :**

**Plan N° : 783-16.Y**

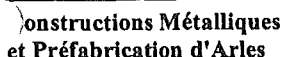
**NOMENCLATURE/LISTE DE COLISAGE**  
**PART LIST/PACKING LIST**



Echelle/Scale

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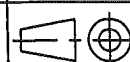




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**NOMENCLATURE/LISTE DE COLISAGE**  
**PART LIST/PACKING LIST**



Echelle/Scale

S/E		QTY	DESCRIPTION	QTY	NORM/MATERIAL	CERTIF	NET WEIGHT	VIS. P.D.
<b>TUBULURE (nozzle) F1</b>								
S/E 1		1	<b>SUB-ASSEMBLY INCLUDING ITEMS:</b>				53	
15	2	1	COMPENSATEUR (compensator) PN 0.5bar axia/lateral ±15		A240 321	/		
16	1	1	VIROLE (shell) O.D.=808 thk.4		A240 304/304L	/		
16a	1	1	VIROLE (shell) O.D.=808 thk.4		A240 304/304L	/		
17	1	1	VIROLE (shell) O.D.=808 thk.4		A240 304/304L	/		
<b>TUBULURE (nozzle) L3</b>								
S/E 2		1	<b>SUB-ASSEMBLY INCLUDING ITEMS:</b>				20	
TU5	1	1	TUBE Ø88.9x3.05 (pipe 3" sch 10S) RS Lg:2200 (1)		A312 TP304L	3.1b		23
B1	1	1	BRIDE (flange) DIN 2635 form C DN80		A182 F304L	3.1b		24
S/E 3		1	<b>SUB-ASSEMBLY INCLUDING ITEMS:</b>				12	
6	2	1	COMPENSATEUR (compensator) DN 150 PN 0.5bar Axial ±50 Lateral ±15		A240 321	/		
5	1	1	TOLE (plate) thk.15		A240 304/304L	/		
TU3	1	1	TUBE (pipe) RS 6" sch 10S		A312 TP304L	/		
TU4	1	1	TUBE (pipe) RS 6" sch 10S		A312 TP304L	/		
(1) including overlength of 200 mini					* or equivalent			
REF.	QTY	DESIGNATION		QTY	NORM/MATERIAL	CERTIF	NET WEIGHT	VIS. P.D.
ITEM	QTY	DESIGNATION		QTY	NORM/MATERIAL	CERTIF	NET WEIGHT	VIS. P.D.

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Dossier CMP Arles : 783

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Client / Customer : AIR LIQUIDE AGS GmbH

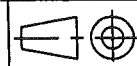
Engineered System N° :

Rev A

Plan N° : 783-17.F1/L3

NOMENCLATURE/LISTE DE COLISAGE

PART LIST/PACKING LIST



Echelle/Scale

/

PIECES LIVREES NON-ASSEMBLEES ITEMS DELIVERED IN SEPARATE PARTS						
1	1	COURONNE (plate) Ø1360xØ500x40		A240 304	3.1b	402
8	2	U40x30x3 (plate)		A240 304/304L	/	0.1
9	2	TOLE (plate) 100x100x5		A240 304/304L	3.1b	1
10	1	VIROLE (shell) O.D.940x4 lg 170		A240 304/304L	/	16
11	3	CORNIERE (angle) 50x50x5 lg:100		304/304L		1.2
12	16	ECROU (nut) HM10		ISO3506-2 A4	/	0.2
13	10m	FIL (wire) Ø1.2		S.S.	/	0.4
14	3	ROULEAU DE LAINE DE ROCHE (rockwool roof)		ROCKWOOL	/	10
18	2	PLAT (tole) 177x50x12		A240 304/304L	/	1.7
19	2	PLAT (tole) 218x50x12		A240 304/304L	/	2.1
J1	1	JOINT PLAT Ø200xØ89x3 percé de 8 trous Ø18 sur Ø160 (gasket Ø200xØ89x3 drilled 8 holes Ø18 on Ø160)	A	KLINGERSIL C4430	/	0.2
R1	1	COURONNE (plate) O.D.310 thk.8		A240 304/304L	/	3.5
TF1	8+1	TIGE FILETEE M16x100 AVEC 2 ECROUS HM16 (threaded stud HM16x100 with 2 nuts HM16)	A	A193 B8M C11 A194 8M	/	3.5
TU	1	TUBE Ø168.3x7.11 (pipe 6" sch 40S) SS lg:2065 (1)		A312 TP304L	3.1b	60
TU6	1	TUBE (pipe) RS 1/2" sch 10S		A312 TP304L	/	0.3
TU7	2	TUBE (pipe) RS 1/2" sch 10S		A312 TP304L	/	0.6
TU1	1	TUBE (pipe) SS 3" sch 40S lg. 220		A312 TP304L	3.1b	2.5
20	1	TOLE EP.10 (plate thk 10) Ø200		A240 304L	/	2.5
21	1	Bouchon à tête hexagonale (hexagon head plug) 3000# 1/4" NPT		304/316L*	/	0.2
5	1	ELECTROVANNE 3/2 DN5 HERION (solenoid valve) 24V DC	A	BRASS	/	1
26	1	RACCORD (fitting) Ø6 1/4" male NPT	A	304/316L*	/	/
27	1	RACCORD (fitting) Ø12 1/4" male NPT	A	304/316L*	/	/
28	1	SUPPORT Thk.3	A	A240 304/304L	/	/
29	2	Boulon (bolt) HM5x40	A	S.S.	/	/
(1) including overlength of 200 mini				* or equivalent		
REP	QTY	DESIGNATION	REF	NORM/MATERIAL	ENVISAGE	REMARQUES
REP	QTY	DESIGNATION	REF	NORM/MATERIAL	ENVISAGE	REMARQUES
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Dossier CMP Arles : 783

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Client / Customer : AIR LIQUIDE AGS GmbH Engineered System N° :

Plan N° : 783-17.F2/L4

NOMENCLATURE/LISTE DE COLISAGE

PART LIST/PACKING LIST

Echelle/Scale  
/

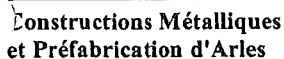
		PIECES LIVREES NON ASSEMBLEES ITEMS DELIVERED IN SEPARATE PARTS					
1	1	COURONNE (plate) Ø1360xØ500x40		A240 304	3.1b	402	25
8	2	U40x30x3 (plate)		A240 304/304L	/	0.1	
9	2	TOLE (plate) 100x100x5		A240 304/304L	3.1b	1	34
10	1	VIROLE (shell) O.D.940x4 lg 170		A240 304/304L	/	16	
11	3	CORNIERE (angle) 50x50x5 lg:100		304/304L		1.2	
12	16	ECROU (nut) HM10		ISO3506-2 A4	/	0.2	
13	10m	FIL (wire) Ø1.2		S.S.	/	0.4	
14	3	ROULEAU DE LAINE DE ROCHE (rockwool rool)		ROCKWOOL	/	10	
18	2	PLAT (tole) 177x50x12		A240 304/304L	/	1.7	
19	2	PLAT (tole) 218x50x12		A240 304/304L	/	2.1	
J1	1	JOINT PLAT Ø200xØ89x3 percé de 8 trous Ø18 sur Ø160 (gasket Ø200xØ89x3 drilled 8 holes Ø18 on Ø160)	A	KLINGERSIL C4430	/	0.2	
R1	1	COURONNE (plate) O.D.310 thk.8		A240 304/304L	/	3.5	
TF1	8+1	TIGE FILETEE M16x100 AVEC 2 ECROUS HM16 (threaded stud HM16x100 with 2 nuts HM16)	A	A193 B8M Cl 1 A194 8M	/	3.5	
TU	1	TUBE Ø168.3x7.11 (pipe 6" sch 40S) SS lg:2065 (1)		A312 TP304L	3.1b	60	32-A/B/C
TU6	1	TUBE (pipe) RS 1/2" sch 10S		A312 TP304L	/	0.3	
TU7	2	TUBE (pipe) RS 1/2" sch 10S		A312 TP304L	/	0.6	
TU1	1	TUBE (pipe) SS 3" sch 40S lg. 220		A312 TP304L	3.1b	2.5	21-A-B
20	1	TOLE EP.10 (plate thk 10) Ø200		A240 304L	/	2.5	
21	1	Bouchon à tête hexagonal (hexagon head plug) 3000# 1/4" NPT		304/316L*	/	0.2	
25	1	ELECTROVANNE 3/2 DN5 HERION (solenoid valve) 24V DC	A	BRASS	/	1	
26	1	RACCORD (fitting) Ø6 1/4" male NPT	A	304/316L*	/	/	
27	1	RACCORD (fitting) Ø12 1/4" male NPT	A	304/316L*	/	/	
28	1	SUPPORT Thk.3	A	A240 304/304L	/	/	
29	2	Boulon (bolt) HM5x40	A	S.S.	/	/	
		(1) including overlength of 200 mini		* or equivalent			
REP.	QTY	DESIGNATION	QTY	NORME/ANNEE	ENUSCH	POIDS NET/Kg	CERTIF. N°
ITEM	QTY	DESIGNATION	QTY	NORME/ANNEE	CERTIF.	NET WEIGHT	DISCLOSURE

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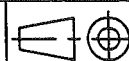


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Rev 0

**NOMENCLATURE/LISTE DE COLISAGE**  
**PART LIST/PACKING LIST**



Echelle/Scale

		TUBULURE O1 (nozzle O1)				
S/E 1	1	SUB-ASSEMBLY INCLUDING ITEMS:				4
TU1	1	TUBE Ø17,2x2,3 (pipe 3/8" sch 40S ) seamless Lg3750 (1)	A312 TP304L	/		-
3	1	ROND Ø25 (rod)	A479 304/304L	3.1b		30
		(1) including overlength of 200 mini				4
REP.	Q16	DESIGNATION	NORME/NUANCE	CERTIF	Poids net kg	Certificat
ITEM	Orc	DESIGNATION	NORM/MATERIAL	CERTIF	NET WEIGHT	VISA EXP

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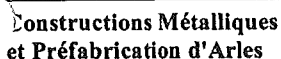
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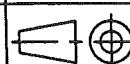


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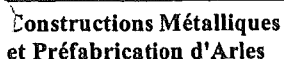
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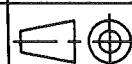


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Rev A

## PART LIST/PACKING LIST

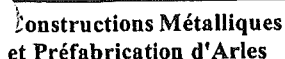


		TUBULURE L7 (nozzle L2)					
		PIECES LIVREES NON ASSEMBLEES ITEMS DELIVERED IN SEPARATES PARTS					
TU1	1	TUBE Ø17,2x2,3 (bending pipe 3/8" sch 40S ) S.S. Lg: 1100 (1)	A312 TP304L	3.1b	1	} 26A-B	
TU2	1	TUBE Ø17,2x2,3 (bending pipe 3/8" sch 40S ) S.S. Lg: 4000 (1)	A312 TP304L	3.1b	4		
TU3	1	TUBE Ø17,2x2,3 (bending pipe 3/8" sch 40S ) S.S. Lg: 3700 (1)	A312 TP304L	3.1b	2		
U4	2	TUBE Ø17,2x2,3 (pipe 3/8" sch 40S ) SEAMLESS Lg: 6000	A312 TP304L	3.1b	10		
U5	1	TUBE Ø17,2x2,3 (bending pipe 3/8" sch 40S ) S.S. Lg: 2200 (2)	A312 TP304L	3.1b	2.5		
1	5	ROND Ø6 (rod)	A479 304/304L	/	1		
			A				
		(1) including overlength of 200 mini					21
		(2) including overlength of 200 mini at each end	* or equivalent				
REP	QIG	DENIGNATION	NORM/MATERIAL	CERTIF	Poids net		
PROV	OP	DENIGNATION	NORM/MATERIAL	CERTIF	Net weight		

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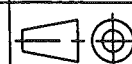
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Rev 0

**Engineered System N° :**

PART LIST/PACKING LIST



Echelle/Scale

TUBULURE L5 (nozzle L5)					
<b>S/E.1</b>	<b>1</b>	<b>SUB-ASSEMBLY INCLUDING ITEMS:</b>			6
TU1	1	TUBE Ø17,2x2,3 (bending pipe 3/8" sch 40S ) S.S. Lg: 5000 (1)	A312 TP304L	/	
3	1	ROND Ø25 (rod)	A479 304/304L	3.1b	28
<b>PIECES LIVREES NON ASSEMBLEES ITEMS DELIVERED IN SEPARATES PARTS</b>					
TU2	2	TUBE Ø17,2x2,3 (pipe 3/8" sch 40S ) SEAMLESS Lg: 6000	A312 TP304L	/	10
U3	1	TUBE Ø17,2x2,3 (bending pipe 3/8" sch 40S ) S.S. Lg: 2500(2)	A312 TP304L	/	3
1	2	ROND Ø6 (rod)	A479 304/304L	/	0.5
2	1	TUBE Ø26.9x3.91 (pipe 3/4" sch 80S ) WELDED Lg: 60	A312 TP304L	/	0.5
4	1	TOLE (plate) 80x30x5	A240 304L*	/	0.5
(1) including overlength of 200 mini					
(2) including overlength of 200 mini at each end					
* or equivalent					
RDP	Q15	DESIGNATION	rev	NORM/NUANCE	CERTIF
ITEM	Q15	DESIGNATION	rev	NORM/MATERIAL	CERTIF

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