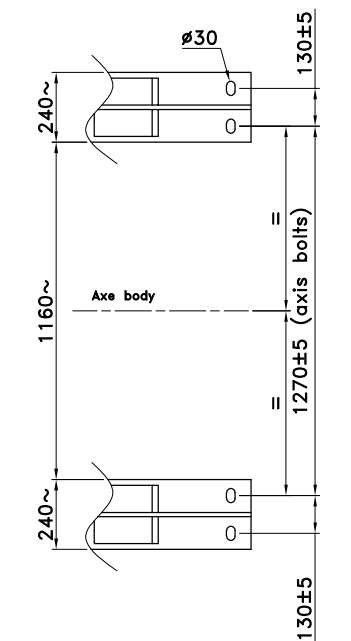


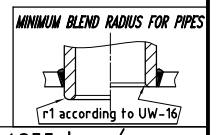
Support holes detail
 All supports are sliding
 One saddle must be free in translation
 in order to compensate the thermal expansion



Only circular projection is valid for accessories orientation

CHARNOZZLE LOADS / TUBULURE RHOES / TUBULURE BELASTUNG
 Directions of loads and moments on nozzle or attachment.

REP. ID	CHARG. (N)	LOAD. (N)	BELAS. (N)	MOMENT (N.m)		
A-L	X	Y	Z	X	Y	Z
A1	1500	1500	1500	750	300	300
A2	750	750	750	500	250	250
A3	100	100	100	0	0	0
B1	1000	1000	1000	750	250	250
B2	1000	1000	1000	1000	1000	1000



According to PED 2014/68/EU:
 -Category: 4
 -Module: H1
 -Notified Body: APAVE
 Calculation according to:
 -Section VIII
 -Division I
 -Edition 2015
 N.D.E and other tests requirements:
 -Corrosion: Shell= 1mm Cover= 1mm
 -Hydraulic test (each side independently)
 -M.D.M.T= -10°C
 Impact test exempted per UCS-66(a) & UHA-51(d)(1)
 Customer and Alfa Laval requirements:
 -X ray= Full internal butt welds (100%)
 -Pickling=None
 -Dye penetrant test= Full channel closure welds (100%) + Full external and internal no X rayed welds (100%)
 -Helium test=None
 -PWHT=None
 -PMI=None
 -Painting= Painting std AL paint system on body and covers
 -Ultrasonic test=None
 -Insulation= By others / Thickness: 100mm
 -Special service=None

WEIGHT	Cover	~1855 kg / cover		
	Unit Empty	~19250 kg		
	Unit Full of water	~25850 kg		
	BODY LIFTING LUG	WELDS DIMENSION		
	65	a=mini		
	Ø50			
CONNECTIONS				
Rep	ND	Flange type	Flanges mat	Service
A1	250	EN 1092-1 11-B PN16	P280GH	HOT INLET
A2	150	EN 1092-1 11-B PN16	P280GH	HOT OUTLET CONDENSATE
A3	25	EN 1092-1 11-B PN16	P280GH	HOT OUTLET NON-CONDENSATE
B1	200	EN 1092-1 11-B PN16	P280GH	COLD INLET
B2	200	EN 1092-1 11-B PN16	P280GH	COLD OUTLET
B3	80	EN 1092-1 11-B PN16	P280GH	COLD DRAIN

Detail drawing No.	Rev.	Size	General dwg. Rev.	MATERIAL
N° 30118-84214DETAILDWG-1	A	A3	B	Shell-Heating surface SA 516 Gr60 / Gr 70
N° 30118-84214DETAILDWG-2	A	A4	D	Covers SA 516 Gr60
				Hookbolts SA193 B7
				Gaskets A : PTFE - 2mm
				B : PTFE - 2mm

FLUID	Spacing mm	Temperature °C		Pressure Barg (MPa)			
		Working In	Working Out	Design	Working	Maximum Allowable Working Pressure	Test
Inner Channel A Water-Steam	8	144.4	143.9/140.4	-10/200	10 (1)	-1 / 10 (-0.1/1)	14.3 (1.43)
Outer Channel B Caustic Water w Soli	20	84.1	130.0	-10/200	10 (1)	10 (1)	14.3 (1.43)

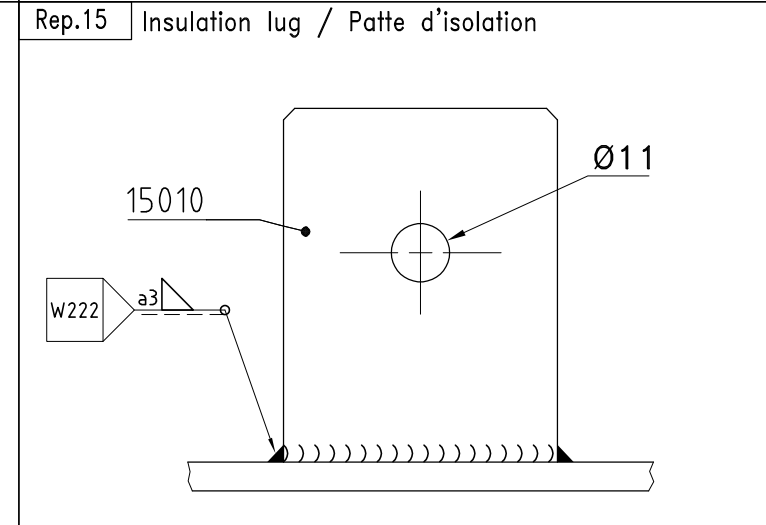
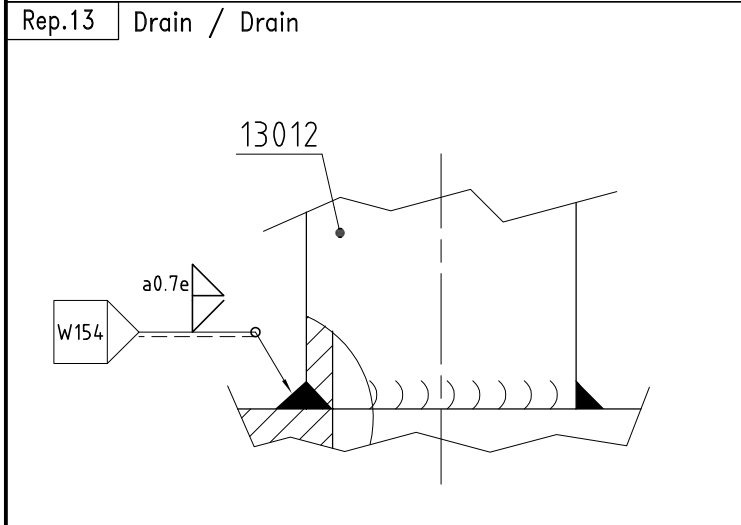
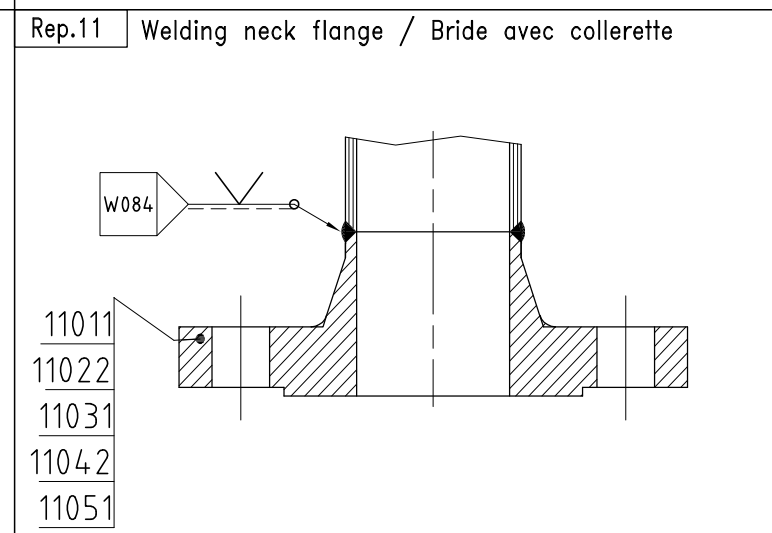
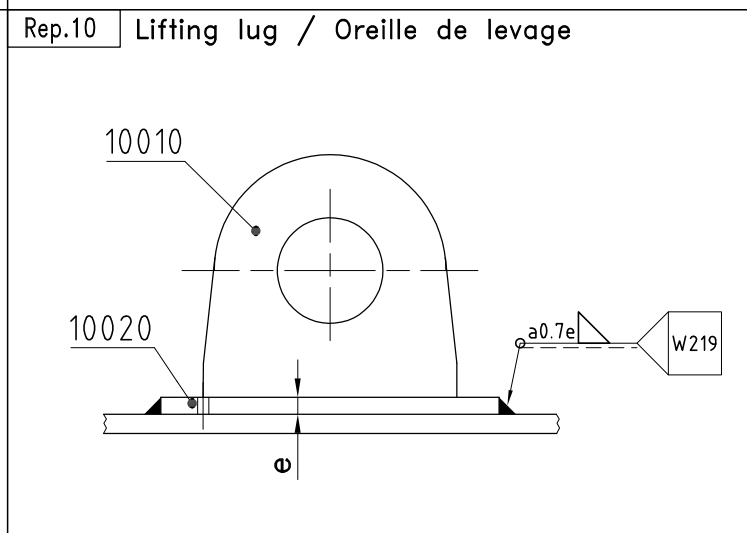
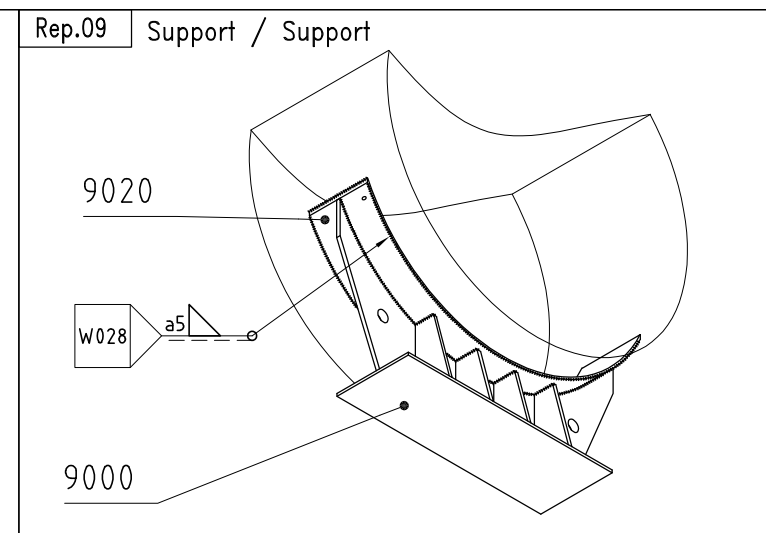
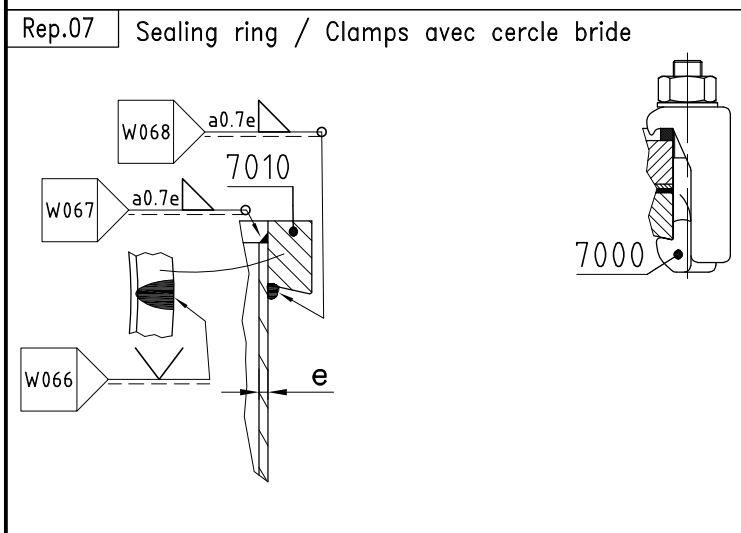
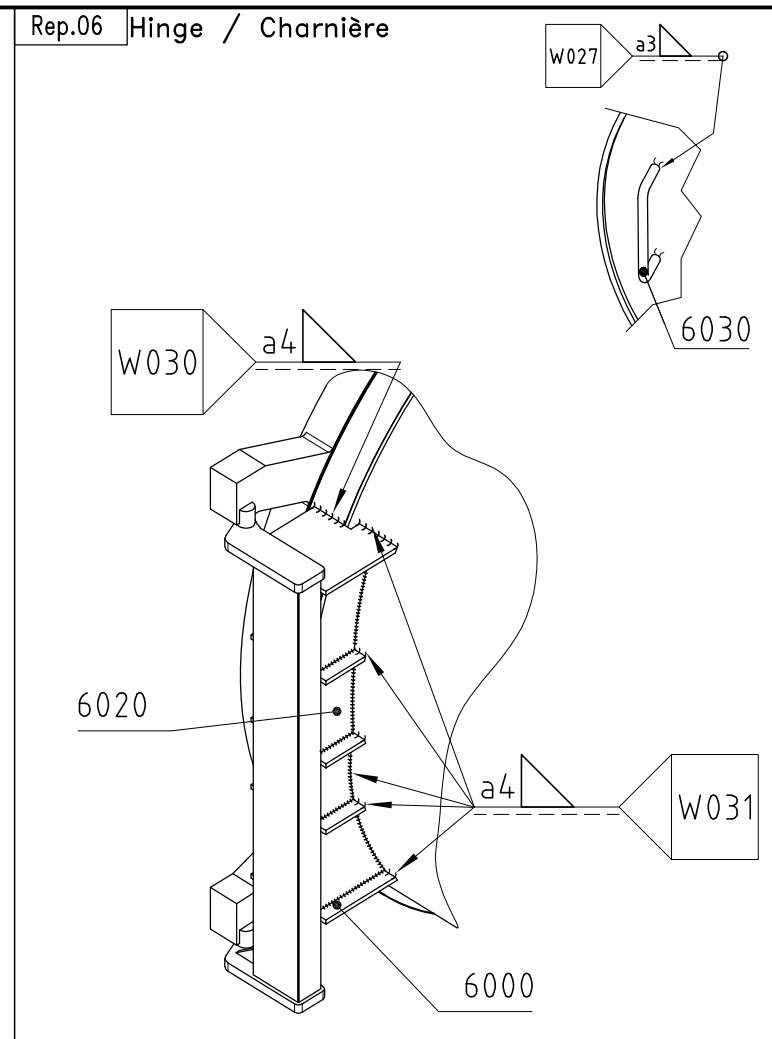
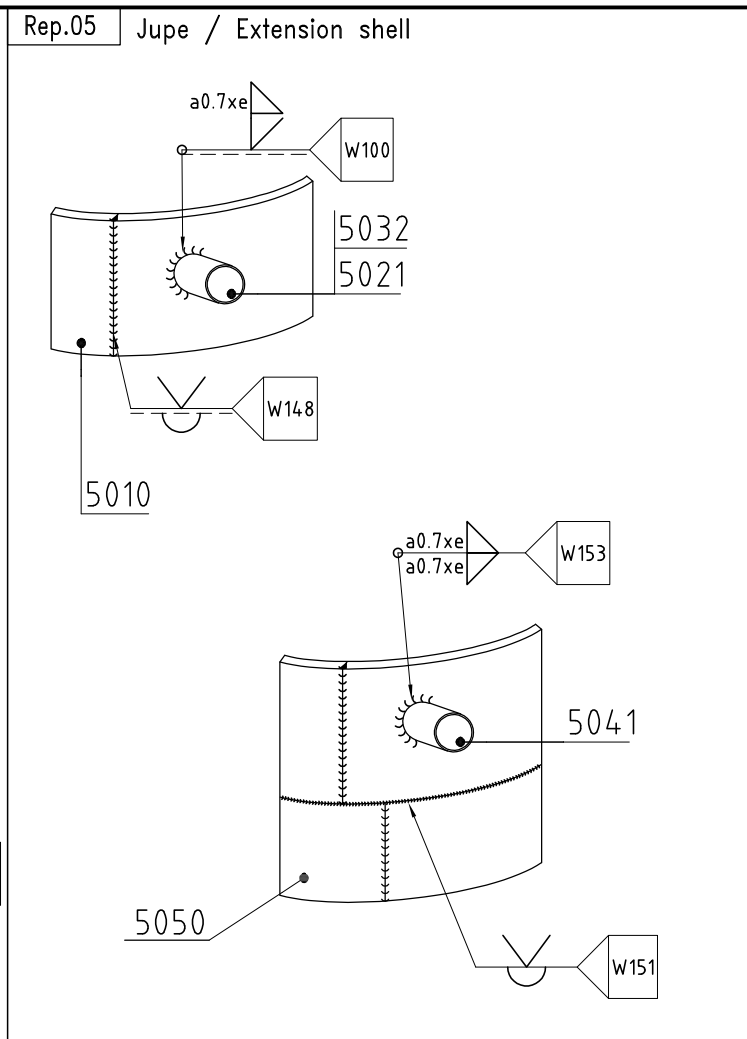
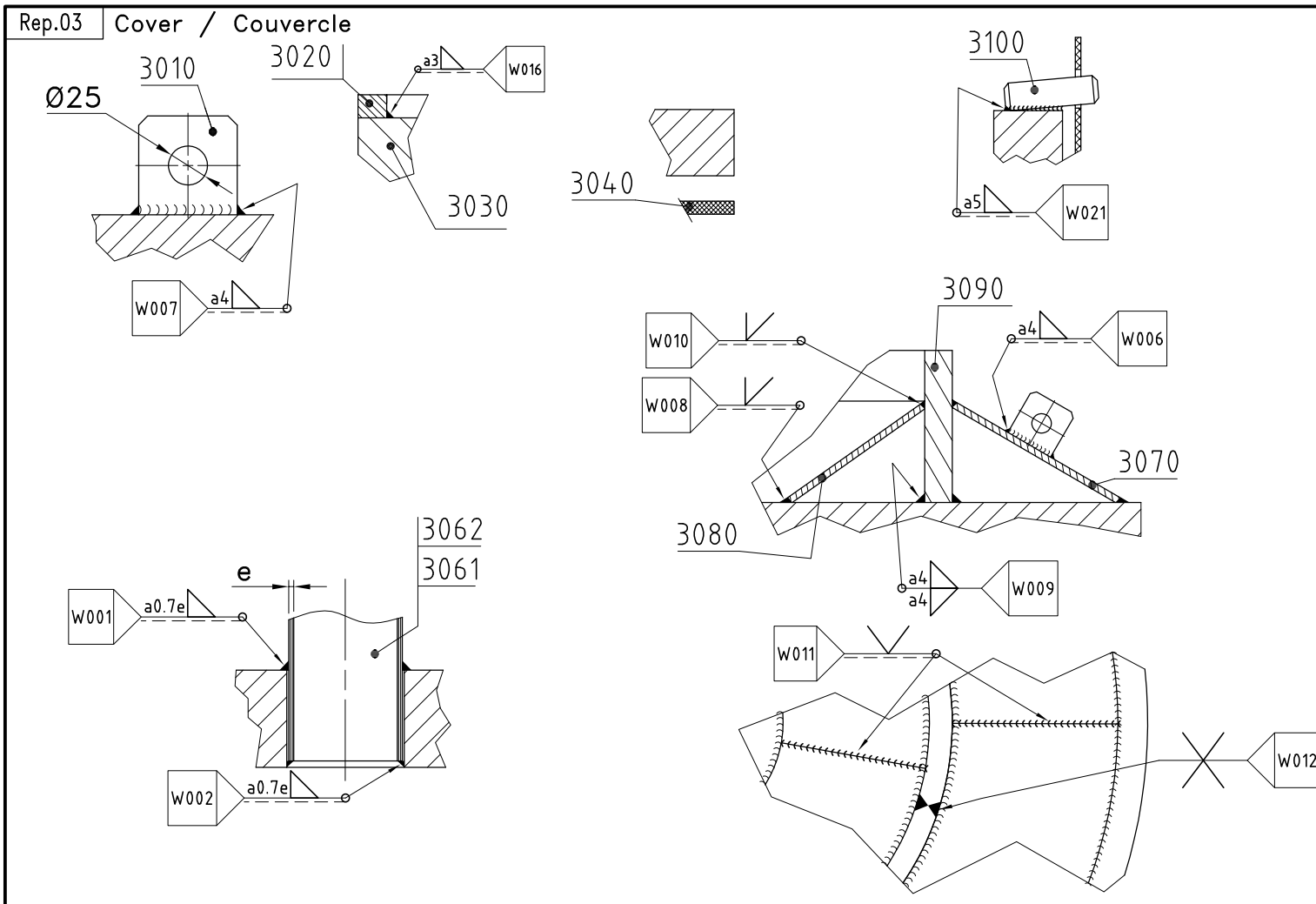
Customer **Martinswerk GmbH** Order N° 17HES30118-84214
 Item N° 14C11W030 / 14C11W031 Customer Order N° 3007530
 Serial N° From 30118-84214 to 30118-84215

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Rev	Modification	Date	Name	Issued by Drawer	Checked by Designer	Approved by Order Handler
F						
E						
D	Add HTA Surface on name plate	14/09/2017	J. BOUILLLOT			
C	Changed corrosion value	09/06/2017	J. BOUILLLOT			
B	Modified quote - see mark B	24/05/2017	J. BOUILLLOT			
A	Add detail drawing	16/05/2017	J. BOUILLLOT			
O	Dimension sketch / Plan dimensionnel	05/05/2017	J. BOUILLLOT			

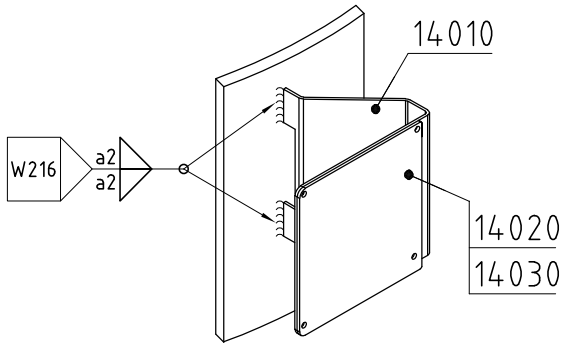
SHE Type 3H-C-1T / 285.7m2 Dwg No 30118-84214GENERALDWG Rev D Size A3 Scale 1/26

TN-097-07

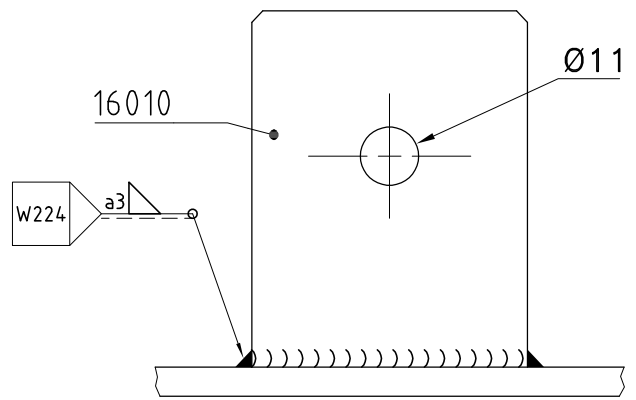


E				Issued by drawer	Approved by designer	This document and its contents are the exclusive property of Alfa Laval, and may not be copied, reproduced, transmitted or communicated to a third party, nor used for any purpose without written permission. This document constitutes a contractual obligation on the part of Alfa Laval only to the extent expressly agreed upon.	Alfa Laval Spiral sas NEVERS - FRANCE
	D						
	C						
	B						
	A	Add weld W012 on rep 03	24/05/2017	J. BOUILLOT	Title		
O	First issue / Emission originale	16/05/2017	J. BOUILLOT	Dwg No		30118-84214DETAILDWG-1	
Rev	Modification	Date	Name			Scale	Size
						/	A3
						Rev.	
						0	



Rep.14 Name plate / Plaque de firme



Rep.16 Earthing lug / Patte de mise à la terre




ALFA LAVAL

SPIRALWÄRMEÜBERTRAGER Typ 3H-C-1T		Material SA 516 Gr60
Fabrik-Nr. 30118-*		Leergewicht 19250 kg
Positions-Nr. **		
	KANAL A	KANAL B
Fluid / Gruppe	Water-Steam / 1	Caustic Water w Soli / 1
Volumen	3550 Lit.	3050 Lit.
Druck (PS - MAWP)	-1/10 barg	10 barg
Temp. Min/ Max (TS - Design temp)	-10 / 200 deg. C	-10 / 200 deg. C
Wärmeübertragungsfläche	285.7 m2	
Prüfdruck	14.3 barg	14.3 barg
Dichtungsmaterial / Dicke	PTFE / 2 mm	
Schrauben	Qty: 2x47 Type: 1"x10" Recommended torque: 500 N.m	
 ACHTUNG Alfa Laval Spiral sas, Nevers, FRANCE www.alfalaval.com		Herstellungsjahr: 2017 Prüfdatum:  0060

*	**
84214	14C11W030
84215	14C11W031

TN099-04

E													
D													
C													
B													
A	Add HTA Surface	14/09/2017	PF.DUBOIS	Title Detail drawing Dessin de détail				Scale /	Size A4				
O	First issue / Emission originale	16/05/2017	J.BOUILLOT	Dwg No 30118-84214DETAILDWG-2				Rev. A					
Rev	Modification	Date	Name										

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