

RE: Erie Tropical_Vessel fallen down_27C01

3. november 2022 07:42

Subject	RE: Erie Tropical_Vessel fallen down_27C01
From	Anatolii Harkusha
To	Asger Lindegaard; Alexander Bechjorgensen; Amir Eslampanah; KinHung Woo; Linus Michael; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Siddharth Gujar; Weijie Liu; Hesam Beigy
Sent	27. oktober 2022 14:50
Attachments	  

Hi Asger,

Thank you for commets.

Please check attached report there is investigation.
They pulled the saddles which were not designed for.

Best Regards

Anatolii Harkusha,

Design Engineer, E&S Food Systems

Tel direct: Mobile: +4527778510

anatolii.harkusha@alfalaval.com

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From: Asger Lindegaard <asger.lindegaard@alfalaval.com>

Sent: Thursday, 27 October 2022 14.41

To: Anatolii Harkusha <Anatolii.Harkusha@alfalaval.com>; Alexander BechJorgensen <Alexander.BechJorgensen@alfalaval.com>; Amir Eslampanah <Amir.Eslampanah@alfalaval.com>; KinHung Woo <kinhung.woo@alfalaval.com>; Linus Michael <Linus.Michael@alfalaval.com>; Nikhil Varghese <Nikhil.Varghese@alfalaval.com>; Prakash Aware <Prakash.Aware@alfalaval.com>; Pranay Kapse <Pranay.Kapse@alfalaval.com>; Rahul Jagtap1 <rahul.jagtap1@alfalaval.com>; Siddharth Gujar <Siddharth.Gujar@alfalaval.com>; Weijie Liu <Weijie.Liu@alfalaval.com>; Hesam Beigy <hesam.beigy@alfalaval.com>

Subject: RE: Erie Tropical_Vessel fallen down_27C01

Hello Anatolii

What a mess. Thanks for sharing.

Do you know exactly what happened? Was it just the flimsy saddles or was it lifting it w. the center of gravity to much offset from the saddle?

I suggest you make a proposal for added / changed text in the TS. Then we can discuss it in the next technical meeting.

I do, however, worry that we are overcomplicating the TS.

It is already stated, "*In general, all packing must be done for safe transport..*" and "*The unit shall be placed on a wooden pallet constructed to carry its weight*".

But lets have the discussion.

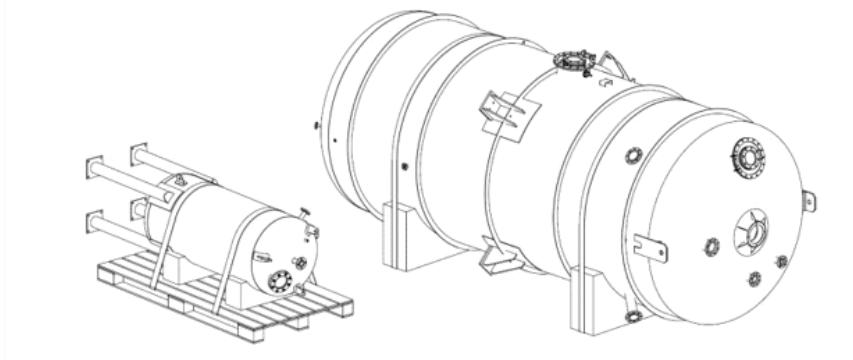
Code 3: Palletised and covered with plastic

The unit shall be placed on a wooden pallet constructed to carry its weight.

The unit is secured to the pallet and covered in 0.15 mm plastic.

Ancillary items, tools and other equipment must be placed on the pallet and secured.

If there is a motor, it must be covered with plastic.



Best Regards

Asger Lindegaard



Asger Lindegaard

Senior Design Engineer, Engineering and Supply

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Classified by Alfa Laval as: Business

From: Anatolii Harkusha <Anatolii.Harkusha@alfalaval.com>

Sent: 27. oktober 2022 14:27

To: Alexander BechJorgensen <Alexander.BechJorgensen@alfalaval.com>; Amir Eslampanah <Amir.Eslampanah@alfalaval.com>; Asger Lindegaard <asger.lindegaard@alfalaval.com>; KinHung Woo <kinhung.woo@alfalaval.com>; Linus Michael <Linus.Michael@alfalaval.com>; Nikhil Varghese <Nikhil.Varghese@alfalaval.com>; Prakash Aware <Prakash.Aware@alfalaval.com>; Pranay Kapse <Pranay.Kapse@alfalaval.com>; Rahul Jagtap1 <rahul.jagtap1@alfalaval.com>; Siddharth Gujar <Siddharth.Gujar@alfalaval.com>; Weijie Liu <Weijie.Liu@alfalaval.com>; Hesam Beigy <hesam.beigy@alfalaval.com>

Subject: Erie Tropical_Vessel fallen down_27C01

Hi All,

I would like to share information that, for the project Erie Tropical, on the vendor workshop site, during loading the vessel part (DEO 27C01) on the transportation saddles, the top part was fallen down due to weak saddles construction (made from wood).

As a result, the vessels had some scratches on the shell and reinforcement ribs, and also some ribs were bent. From the other side, it is good that it was happened in the workshop and not during transportation.











It required that the scratched were removed (polished), ribs were fixed, and whole vessel part is repacked again. To avoid this situation, the saddles are replaced to metal one (see attachment).

I would suggest that some requirements should be added to TS for vessel packing regarding saddles. I will add a question for Technical meeting.

Thank you.

I would suggest that some requirements should be added to TS for vessel packing regarding saddles. I will add a question for Technical meeting.

Thank you.

Best Regards

Anatolii Harkusha,

Design Engineer, E&S Food Systems

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Agitator Nozzle-Fatigue Calculation detail for AL agitators Only

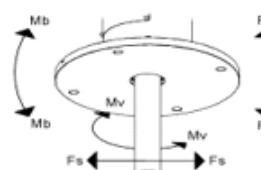
3. november 2022 08:17

Subject	Agitator Nozzle-Fatigue Calculation detail for AL agitators Only
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; KinHung Woo; Linus Michael; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	22. august 2022 14:52

Hi all,

For fatigue calculation when supplier is AL, we can reduce the loads with factors mentioned in below table.

Forces and torques applied to the mounting flange at momentary locking of the propeller	
Torque M_v [Nm]:	1550 <i>Divide by 2,5</i>
Bending torque M_b [Nm]:	13952 <i>Divide by 1,5</i>
Side thrust F_s [N]:	1860 <i>Divide by 1,5</i>
Thrust, propeller F_a [N]:	246
Critical speed [rpm]:	53



Best Regards
Hesam Beigy



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From: Hesam Beigy

Sent: 3. juli 2020 13:56

To: Poul Gaardsted <poul.gaardsted@alfalaval.com>

Cc: Christophe Marsault <christophe.marsault@alfalaval.com>; Preben Rasmussen <preben.rasmussen@alfalaval.com>; Christian Borglum <christian.borglum@alfalaval.com>; Jesper Randrup <jesper.randrup@alfalaval.com>

Subject: RE: AD0572-St1-26R03-Loads from agitator

Dear Poul,

I appreciate your prompt action and help. Such an info is very valuable for us to know and will give us much more room for design for durability.

It is really good that you will be looking into the loads at a later stage, and would be glad to receive the output. In case you needed any info for such an investigation, I would be glad to help, since such an investigation brings value to our design phase.

Thank you once again and wish you a nice weekend.

Best Regards

Hesam Beigy



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From: Poul Gaardsted <poul.gaardsted@alfalaval.com>
Sent: 3. juli 2020 13:48
To: Hesam Beigy <hesam.beigy@alfalaval.com>
Cc: Christophe Marsault <christophe.marsault@alfalaval.com>; Preben Rasmussen <preben.rasmussen@alfalaval.com>; Christian Borglum <christian.borglum@alfalaval.com>
Subject: RE: AD0572-St1-26R03-Loads from agitator

Hi Hesam,

I had a meeting with R&D today where we discussed Loads from agitator to tank flange.

The figures "Forces and Torques applied to the mounting flange at momentary locking of the impeller" are fine to use when making a design to support sufficient stiffness of the tank flange construction. Since we design our agitators to be able to maintain full transfer of the gear motor torque at momentary locking of the impeller at 2/3*impeller diameter, we have to design it also to withstand the inertia of the motor rotor from full speed to stop momentarily – and that is why we add a safety factor on Torque, bending torque and side thrust.

But for fatigue calculations we do follow you in the fact, that it is way to high numbers to use – but we have to realize, that the real dynamic numbers will depend on the flow regime in the tank together with the placement of the agitator (center or off center) and configuration. We have never in R&D regime tested that, so we are a little unsecure in delivering precise numbers – rather it will be estimations. We had a look at the Ekato dynamic load numbers (the example with top mounted with bottom support) – and especially when looking at the dynamic bending torque (approximately a factor 10 lower compared to our design criteria for bending torque WITHOUT safety factor!!) we find it very unrealistic! So we will not go in that direction - instead we will rather advise to use numbers from our datasheet (full load applied), but without safety factors.

So please divide the values according to below factors for your fatigue calculations – then your result will be quite conservative and safe.

Forces and torques applied to the mounting flange at momentary locking of the propeller	
Torque M_v [Nm]:	1550 <i>Divide by 2,5</i>
Bending torque M_b [Nm]:	13952 <i>Divide by 1,5</i>
Side thrust F_s [N]:	1860 <i>Divide by 1,5</i>
Thrust, propeller F_a [N]:	246
Critical speed [rpm]:	53

For now these factors will be an estimation you can use in future projects – we will at later stage - when we have time and resources in R&D – do a project to find out the more precise dynamic forces/torques applied to the tank flange.

I hope this can help further in your design process – otherwise please return to me.

Have a great weekend.

Best Regards

Poul Gaardsted



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From: Hesam Beigy <hesam.beigy@alfalaval.com>

Sent: 2. juli 2020 14:50

To: Poul Gaardsted <poul.gaardsted@alfalaval.com>

Cc: Christophe Marsault <christophe.marsault@alfalaval.com>; Preben Rasmussen <preben.rasmussen@alfalaval.com>; Christian Borglum <christian.borglum@alfalaval.com>

Subject: RE: AD0572-St1-26R03-Loads from agitator

Hi Poul,

Thanks for your time today. As we concluded, I will be waiting for your return after discussing the matter with your R&D. Hopefully soon we can have an answer, before summer vacation starts also in your team



Thanks.

Best Regards

Hesam Beigy



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Technical Lead, E&S Food Systems

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Sent: 2. juli 2020 11:14
To: Hesam Beigy <hesam.beigy@alfalaval.com>
Cc: Christophe Marsault <christophe.marsault@alfalaval.com>; Preben Rasmussen <preben.rasmussen@alfalaval.com>; Christian Borglum <christian.borglum@alfalaval.com>
Subject: RE: AD0572-St1-26R03-Loads from agitator

Hi Hesam,

That is quite a short lifetime... 😊

I must admit, that is sounds quite strange that you get such a short life time – we have not seen tank

break downs due to fatigue if using the “locking of impeller” values for dimensioning.
In this case we are only running 31 RPM, so I wonder how you have calculated this? Can you share it with me?

Best Regards

Poul Gaardsted



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An advertisement for the Alfa Laval TJ40G tank cleaning machine. It features the product name "Alfa Laval TJ40G" and the tagline "Cuts tank cleaning time and costs". Below this, a description states: "This efficient tank cleaning machine reduces cost for energy, water and cleaning agents by up to 70%". A large image of the cylindrical cleaning nozzle is shown, along with a "Start saving" button.

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From: Hesam Beigy <hesam.beigy@alfalaval.com>
Sent: 2. juli 2020 10:51
To: Poul Gaardsted <poul.gaardsted@alfalaval.com>
Cc: Christophe Marsault <christophe.marsault@alfalaval.com>; Preben Rasmussen <preben.rasmussen@alfalaval.com>; Christian Borglum <christian.borglum@alfalaval.com>
Subject: RE: AD0572-St1-26R03-Loads from agitator

Dear Poul,

We have calculated fatigue life of the agitator nozzle assembly. We can only get 270 days lifetime based on the assumption that we will have the agitator locked (and therefore we have the max forces). It is not

very promising lifetime and load case is also not realistic for operation condition. Operation forces shall be much less, therefore operation lifetime will be much higher.

Would you please provide me with operation condition forces?

Thanks for your help in advance.

Best Regards

Hesam Beigy



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Technical Lead, E&S Food Systems

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From: Hesam Beigy

Sent: 4. maj 2020 18:58

To: Poul Gaardsted <poul.gaardsted@alfalaval.com>

Cc: Christophe Marsault <christophe.marsault@alfalaval.com>; Preben Rasmussen <preben.rasmussen@alfalaval.com>; Christian Borglum <christian.borglum@alfalaval.com>

Subject: RE: AD0572-St1-26R03-Loads from agitator

Hi Poul,

Thanks for your reply. We will take note on this.

Best Regards

Hesam Beigy



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From: Poul Gaardsted <poul.gaardsted@alfalaval.com>

Sent: 4. maj 2020 09:50

To: Hesam Beigy <hesam.beigy@alfalaval.com>

Cc: Christophe Marsault <christophe.marsault@alfalaval.com>; Preben Rasmussen

<preben.rasmussen@alfalaval.com>; Christian Borglum <christian.borglum@alfalaval.com>

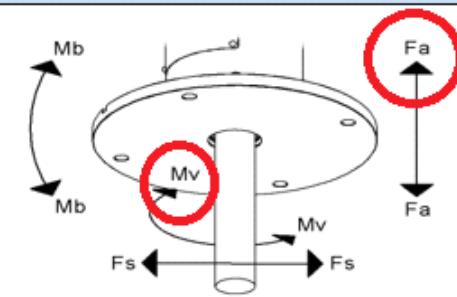
Subject: RE: AD0572-St1-26R03-Loads from agitator

Hi Hesam,

The sketch showed is “generic” in order to meet all situations we can face with an agitator – eg. the rotation direction can vary, same with thrust, depending on the specific configuration.

In this case the agitator is rotating clockwise seen from the top – and the thrust is downwards – it means that the tank flange will face torque /loads in these directions:

Forces and torques applied to the mounting flange at momentary locking of the propeller	
Torque M_v [Nm]:	1550
Bending torque M_b [Nm]:	13952
Side thrust F_s [N]:	1860
Thrust, propeller F_a [N]:	246
Critical speed [rpm]:	53



M_b and F_s could be in any direction.

Please be aware that the above loads is the worst case situation: Locking of the impeller and it includes safety factors due to the inertia from the rotating part in the motor.

Best Regards

Poul Gaardsted



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From: Hesam Beigy <hesam.beigy@alfalaval.com>
Sent: 3. maj 2020 20:54
To: Poul Gaardsted <poul.gaardsted@alfalaval.com>
Cc: Christophe Marsault <christophe.marsault@alfalaval.com>; Preben Rasmussen <preben.rasmussen@alfalaval.com>; Christian Borglum <christian.borglum@alfalaval.com>
Subject: AD0572-St1-26R03-Loads from agitator

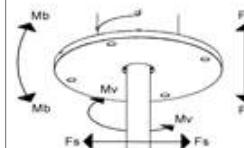
Hi Poul,

I have received attached spec from Christophe, which I need to look into the nozzle loads and fatigue life of vessel nozzle.

By looking at the Force and torque table from agitator spec attached, I can see that loads are given in two direction (+/-) for each line of the loads. For example, for M_b , the torque is 13952 Nm, and the schematic picture shows that this torque shall be expected either as 13952 Nm or -13952 Nm, same for other 3 loads. Considering the 4 loads given in below table, this will result in many different load cases (to be exact 64 different combinations). But, in order to qualify our nozzle for fatigue, we would need specific worst case for correct judgement.

So, my question is how we can reduce the number of variations in load cases and get the worst case scenario for loads based on the design criteria of agitator?

Forces and torques applied to the mounting flange at momentary locking of the propeller	
Torque M_v [Nm]:	1550
Bending torque M_b [Nm]:	13952
Side thrust F_s [N]:	1860
Thrust, propeller F_a [N]:	246
Critical speed [rpm]:	53



Thanks.

Best Regards

Hesam Beigy



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ASME BPE Fittings-Trainings

3. november 2022 08:17

Subject	ASME BPE Fittings-Trainings
From	Hesam Beigy
To	Alexander Bechjorgensen; Amir Eslampanah; Anatolii Harkusha; KinHung Woo; Linus Michael; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Satish Jooluri; Siddharth Gujar; Weijie Liu
Cc	Emeline Rey
Sent	4. oktober 2022 10:42

Hi all,

FYI-there is now a training on learning portal for ASME BPE training-it is a short useful one-suggest you have a look at it for Protein and food design projects.

ASME BPE fittings - webinar recording
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Classified by Alfa Laval as: Business

Bleaching Earth & Filter Aid Specs-Material inside Silos

3. november 2022 08:18

Subject	Bleaching Earth & Filter Aid Specs-Material inside Silos
From	Hesam Beigy
To	Alexander BechJorgensen; Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; KinHung Woo; Linus Michael; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	17. oktober 2022 18:18
Attachments	 

FYI

Best Regards
Hesam Beigy



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From: Andrew Logan <andrew.logan@alfalaval.com>

Sent: 16. november 2020 14:38

To: Jesper Jensen <jesper.jensen@alfalaval.com>; Hesam Beigy <hesam.beigy@alfalaval.com>

Subject: Shell - BE & Filter Aid Specs

Best Regards

Andrew Logan



Andrew Logan

Regional Business Manager - Europe, Edible Oil Systems

Tel direct: +4539536213 - Mobile: +4540287310

andrew.logan@alfalaval.com

Contact me on Lync/Skype: <sip:andrew.logan@alfalaval.com>

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Case (Continuous Improvement) - To be followed up - C2-83169/2022. Installation distributor into scrubber

3. november 2022 08:18

Subject	Case (Continuous Improvement) - To be followed up - C2-83169/2022. Installation distributor into scrubber
From	<u>System C2</u>
To	Hesam Beigy
Sent	2. november 2022 17:10

Title: C2-83169/2022. Installation distributor into scrubber

Responsible: Alexey Shevchenko / Sales-Edible Oil / BU Food Systems / Søborg

Due date: 2022-11-09

Status: To be followed up

Message:

See this for the Deodorizer

Read more about this by logging in to [this link](#)

Case (Supplier claim) - To be followed up - C2-106273/2022. Manufacturing defect - tanks

3. november 2022 08:18

Subject	Case (Supplier claim) - To be followed up - C2-106273/2022. Manufacturing defect - tanks
From	<u>System C2</u>
To	Hesam Beigy
Sent	2. november 2022 11:31

Title: C2-106273/2022. Manufacturing defect - tanks

Responsible: RichardTeles Neves / Customer Project Management / BU Food Systems / Søborg

Due date: 2022-11-09

Status: To be followed up

Message:

Please note this C2 card for the QC inspections you are having

Read more about this by logging in to [this link](#)

Compensator Design and Specification session recording

3. november 2022 08:18

Subject	Compensator Design and Specification session recording
From	Hesam Beigy
To	Alexander BechJorgensen; Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; KinHung Woo; Linus Michael; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	28. september 2022 14:26
Attachments	 

Hi all,

For a project, AD0673, we needed to review spec for compensators, we went through the spec and recorded the session, so, all of you can go through it and get familiar with the process. Documents that was discussed during this session is also attached.

Here is the link of the recording:



[Compensator Specification and Review-20220928_131222-Meeting Recording.mp4](#)

Best Regards
Hesam Beigy



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Classified by Alfa Laval as: Business

Compensators and ducts

3. november 2022 08:18

Subject	Compensators and ducts
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; KinHung Woo; Linus Michael; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	16. august 2022 08:18

Hi all,

A short info:

- Compensators
 - o Design Guideline: [Microsoft Word - Compensator Spec PRN 2015-12-07 \(alfalaval.org\)](https://alfalaval.org/Content/Downloads/Design%20Guidelines/Compensator%20Spec%20PRN%202015-12-07.pdf)
 - o Ordering sheet:
<https://promis.alfalaval.org/qms/FWDFoodWaterDivision/FOSFoodSystems/FOSEdibleOilSystems/Shared%20Documents/Compensator%20Specification%20sheet%20Template.xlsm?d=w56d0629969c641fbbb9217fc0cb14fb>
- Duct Design Guideline: [Standard Vacuum Duct Design \(alfalaval.org\)](https://alfalaval.org/Content/Downloads/Design%20Guidelines/Standard%20Vacuum%20Duct%20Design.pdf)

Best Regards
Hesam Beigy



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Demister Ordering Guide

3. november 2022 08:18

Subject	Demister Ordering Guide
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; KinHung Woo; Linus Michael; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	6. september 2022 08:21
Attachments	

Hello all,

For a recent project, it seemed necessary to illustrate what is necessary to be ordered together with demister.

I have made a small guide. Please find it attached.

Comments are of course welcome 😊

Best Regards
Hesam Beigy



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Deodorizer-Check of Sub-drawings

3. november 2022 08:19

Subject	Deodorizer-Check of Sub-drawings
From	Hesam Beigy
To	Alexander BechJorgensen; Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; KinHung Woo; Linus Michael; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	11. oktober 2022 15:44

Hi all,

We had a session with a US project, to check subdrawings of a Deodorizer column-we recorded the session for training purposes. You are welcome to watch it.

Link to the training:



[Deodorizer_Check of Sub-drawings-20221011_135531-Meeting Recording.mp4](#)

Best Regards
Hesam Beigy



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Deodorizer-Datasheet for Structural Packing

3. november 2022 08:19

Subject	Deodorizer-Datasheet for Structural Packing
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; KinHung Woo; Linus Michael; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Satish Jooluri; Siddharth Gujar; Weijie Liu
Cc	Jam Oskoui
Sent	23. august 2022 12:50

Dear All,

FYI, for Deo, datasheet of Structural packing is uploaded to WinS Documentaiton database.

Link to Wins Database for Continuous Deo: [SoftColumn \(Continuous Deodorizer\) \(sharepoint.com\)](#)

Link to Datasheet for Structural Packing:



[Template_Structural Packing Specification sheet AL.xlsx](#)

Please note that some part of the datasheet need to be filled by Process team.

Best Regards
Hesam Beigy



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FW: 00254225: Skirt Design [ref:_00Dj01sW9M._5003Z1SpM6s:ref]

3. november 2022 08:19

Subject	FW: 00254225: Skirt Design [ref:_00Dj01sW9M._5003Z1SpM6s:ref]
From	Hesam Beigy
To	Umesh Ubarhande; Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; KinHung Woo; Linus Michael; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Satish Jooluri; Siddharth Gujar; Weijie Liu
Cc	Pouria Shahani
Sent	23. august 2022 08:45
Attachments	 

Hi all,

Regarding slotted hole design for skirt in PV Elite. Seems the software does not provide such an option for now. I submitted an idea to incorporate that.

If you have also need for any functionality, it will be a good idea to register the idea in their database.

Best Regards
Hesam Beigy



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From: noreply@salesforce.com <noreply@salesforce.com> **On Behalf Of** PPM-Solution-Support
Sent: 22. august 2022 14:53
To: Hesam Beigy <hesam.beigy@alfalaval.com>
Subject: 00254225: Skirt Design [ref:_00Dj01sW9M._5003Z1SpM6s:ref]

CAUTION. This e-mail originated from outside of Alfa Laval. Please be mindful of attachments and links.
Hi Hesam,

Please see the help topic 'Perform Basering Analysis' at; <https://hexagonppm.fluidtopics.net/r/en-US/PV-Elite-Help-V24/Version-24/317584>, for background information on (skirt) basering analysis performed in PV Elite. There is a 'Basering Design Option'; EN 16.12.5 Analyze, that you may need to consult the EN 13445 (-3) code on for further information.

I can't find a reference to slotted bolt holes, here, although there is mention of scaling BCD, etc., to get particular analysis to 'pass'.

If the available basering analysis in PV Elite does not meet your requirements, then please use the 'Ideas' tile of (PPM) Smart Community to suggest a change to the product to allow required analysis, which you will need to reference, as Change Requests (CRs) are no longer generated in this technical support portal.

I hope that this helps,

Regards,

Duncan McElrue
Senior Technical Support Engineer - Analysis Solutions
Volume Sales – ALI Division
Hexagon

c/o Intergraph UK Ltd
Delta Business Park, Great Western Way
Swindon, Wiltshire SN5 7XP UK
hexagonppm.com

ref:_00Dj01sW9M._5003Z1SpM6s:ref

FW: Agitator installation in Horizontal position-Tolerances

3. november 2022 08:19

Subject	FW: Agitator installation in Horizontal position-Tolerances
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; KinHung Woo; Linus Michael; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	12. september 2022 08:55

FYI

Best Regards
Hesam Beigy



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Classified by Alfa Laval as: Business

From: Hesam Beigy
Sent: 12. september 2022 08:55
To: Suhas Kulkarni <suhas.kulkarni@alfalaval.com>
Cc: Peter Kjær <peter.kjaer@alfalaval.com>
Subject: Agitator installation in Horizontal position-Tolerances

Dear Suhas,

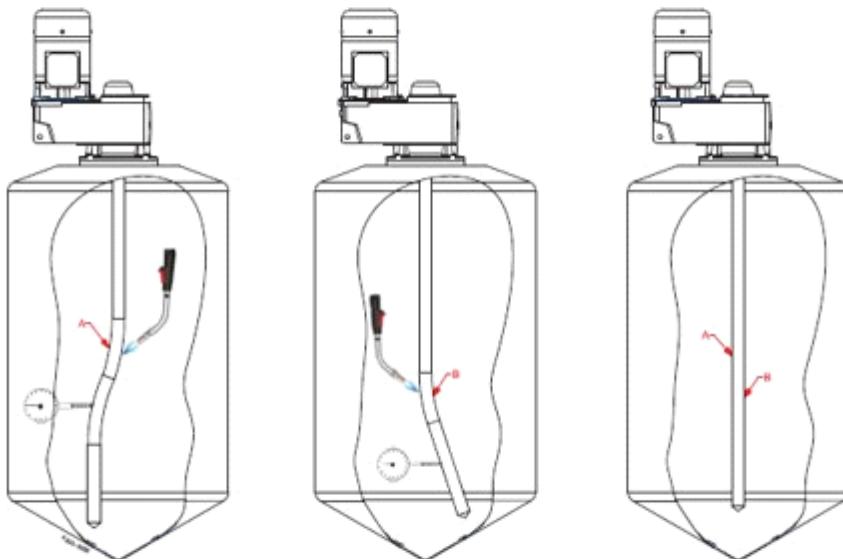
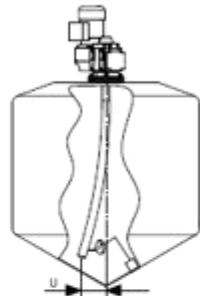
I had a look at 3 vendors manual for tolerance of agitators. Here is the overview:

- Alfa Laval

6.7 Shaft alignment

Shaft to be aligned in bearing frame or in gear motor.

RPM up to:	50	100	500	1000	2800
U (max radial tolerance, ALT)	0.4	0.3	0.2	0.1	0.05
U (max radial tolerance, ALTB)	2.0	1.5	1.0		



After propellers has been welded onto the shaft and / or two shaft parts has been welded together - the shaft must be aligned. If the shafts has been welded according to Alfa Lavals recommendations shown below – the required alignment will be very little as the amount of introduced heat to the shaft is minimized and due to the fact that all shafts has been aligned before delivery from Alfa Laval.

"All-weld shaft connections and propellers to shaft with one welding seam at a time, cool with air and continue with one welding until welding is according to illustration. Use welding procedures which introduce as less heat, tension and bending to the shaft as possible."

Required tool:

1. A gas-welding torch supplied with a mixture of Acetylene and Oxygen gas.
2. A dial indicator.

6 Technical Data

All dimensions in mm unless otherwise stated.

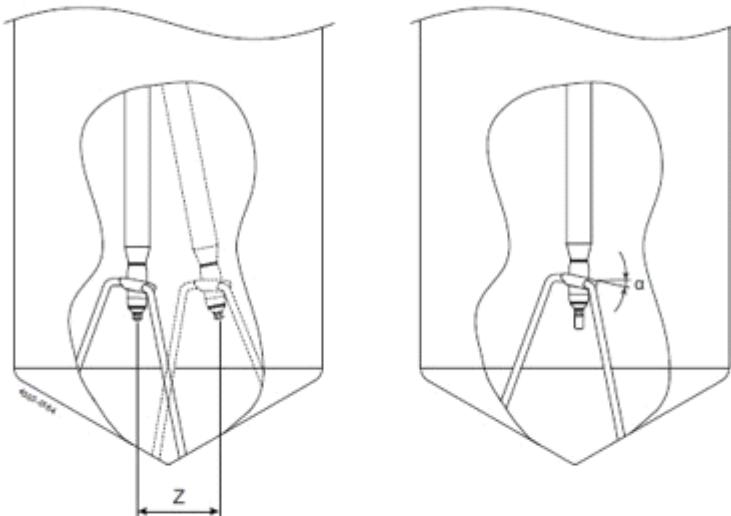
Procedure:

1. Alignment of the shaft is carried out in steps from the bearing frame / gear motor and down to the shaft end.
 2. If the shaft has been exposed to uneven heat around "A" (due to welding of shaft connection or welding of propeller onto shaft) a possible bend can be introduced around "A".
 3. The dial indicator is located about 500-2000 mm below "A" (but above the next bend "B") and the shaft is rotated until the shaft is pointing to the left as shown on the picture.
 4. The welding torch is used on the opposite site of the bend (the right side of the shaft in this example) about 25-50 mm further up or down from the welding area "A". The welding torch is positioned very near the shaft surface without moving it and the surface of the shaft is rapidly heated up (1-10 seconds depending on shaft bend) until a Ø2-10 mm red spot is observed. Observing the dial indicator the shaft will, during the heating process, bend even more to the wrong direction but during cooling it bends back to a "more" align position.
 5. The shaft is cooled down with compressed air until the temperature of the part of the shaft around A is the same as the rest of the shaft and the surrounding temperature (2-10 minutes depending on amount of heat introduced).
 6. Step 3), 4) and 5) are repeated until the alignment is according the specified "U" (which is a function of speed and agitator type).
 7. The next position "B" where the shaft has been exposed to uneven heat is located (due to welding of shaft connection or welding of propeller onto shaft).
 8. The dial indicator is located 500-2000 mm below "B" (but above the next bend) or at the shaft end if the shaft does not have any other bends and the shaft is rotated until the shaft is pointing to the right as shown on the picture.
 9. The welding torch is used on the opposite site of the bend (the left side of the shaft in this example) about 25-50 mm further up or down from the welding area. The welding torch is positioned very near shaft surface without moving it and the surface of the shaft is rapidly heated up (1-10 seconds depending on shaft bend) until a Ø2-10 mm red spot is observed.
 10. The shaft is cooled down with compressed air until the temperature of the part of the shaft around A is the same as the rest of the shaft and the surrounding temperature (2-10 minutes depending on amount of heat introduced).
 11. Step 8), 9) and 10) are repeated until the alignment is according the specified "U" (which is a function of speed and agitator type).
 12. The spot areas where the shaft has been heated and aligned using the welding torch must be cleaning using chemical pickling and or mechanical abrasive polishing.
-

6.9 Bottom support alignment

Shaft alignment (radial and angle misalignment) must be according to values shown in table below.

Shaft length, [mm]	500-1000	2000	3000	4000	5000	6000	7000	7001-15000
Z, [mm], (max)	4	8	10	12	15	22	30	40
α , °, (+/- 1.5°)	12	12	12	12	12	12	12	12



- EKATO

9.3 Preparatory works for assembly

- ▶ Check agitator surface for the following:
 - Roughness.
 - Damage.
- ▶ Check angular tolerance for agitator surface:
 - Permissible variance: max. 0.2° from horizontal position.

The following table shows the maximally permitted flatness defect for foot- and flange-mounting (guide values based on DIN ISO 1101):

Gear unit size	Flatness defect
≤ 67	max. 0.4 mm
77 – 107	max. 0.5 mm
127 – 147	max. 0.7 mm
157 – 187	max. 0.8 mm

Assembly

EKATO FLUID

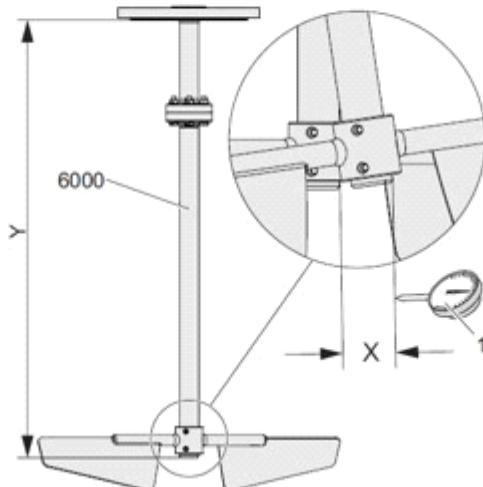


Fig. 9-6:
Check the agitator shaft is straight.

0000000795 - 001

- ▶ Position the measurement gauge (1) on the agitator shaft end.
- ▶ Manually rotate the agitator shaft (6000) on the blower wheel several times.
- ▶ Measure the deflection X.



Observe the following maximum permitted deflection X:

$$X[\text{mm}]/Y[\text{m}] \leq 2$$

i.e. a maximum deflection of 2 mm per meter of agitator shaft length is permitted

-
- ▶ Enter deflection X in the checklist (→ A - 11.1 "Checks prior to start-up").
 - ▶ If deflection exceeds the permissible level: Contact EKATO FLUID (→ A - 17 "EKATO Service"). Presumably, the agitator shaft (6000) may have been bent or damaged during shipment and hence need aligning.

L. SHAFT RUNOUT



Note!

The runout values provided in this section do not apply to the runout measurements for shafts with steady bearings, but the method to straighten a shaft is the same regardless of whether there is a steady bearing or not. Refer to the steady bearing section for maximum allowable runout value for shafts with steady bearings.

1. Check the installed extension shaft runout. Place a dial indicator on the side of the extension shaft at the bottom. Manually turn the flexible motor coupling to rotate the extension shaft one turn.
2. Total shaft runout should not exceed .005" per foot (0.42 mm per meter) FIM (Full Indicator Movement) of shaft length. If the shaft runout is excessive, the shaft can be re-straightened in the field. Rotate the shaft to the maximum positive indicator reading. Apply heat to the shaft at a point 180° from the indicator and just below the first in-tank shaft coupling or just below the mounting surface if there is no in-tank coupling. As heat is applied to the shaft (do not allow surface temperature of shaft to exceed 500°F [260°C]), the shaft will move toward the indicator. After the shaft has moved .030-.060" (0.76-1.52 mm), remove the heat and the shaft will begin to move away from the indicator. The shaft will draw more than it moved initially, and as a result will be straightened. After each heating cycle, recheck the shaft until runout is within tolerance. Do not heat in the same location. Move up or down 2 or 3" (50-70 mm) to avoid reheating the same location.

F. VESSEL MOUNTING

The MRA and MRL style agitators are designed to mount on an ANSI, DIN, or other standard flange, nozzle or pad located on the vessel top head. See Figure 1, page 13, and Figure 2, page 14.

The most frequent cause of mechanical difficulty with an agitator is improper mounting. It is imperative to heed the following guidelines:

1. The agitator extension shaft is designed to run in a true vertical position.
2. Do not angle or side mount the agitator unless it was specifically designed for angle mounting by Chemineer.
3. The agitator drive assembly must be **level within 1/2°** (8.8 mm/m). Any angular misalignment may be corrected by machining the nozzle or pad level and flat, or shimming in the case of non-flange-mounted units. Steady bearing units or units with close internal clearances are required to be **level within 1/4°** (4.4 mm/m)
4. Startup of the agitator with the turbine impacted in solids is beyond the scope of these recommendations.
5. The mounting structure must be rigid enough to meet the requirements described in section F.1 below.

MOUNTING

MR AGITATOR

The nozzle or pad and vessel top head must be rigid enough to support the agitator weight and limit the angular displacement of the agitator drive to 0.05° as a result of the torque and bending moment. Refer to the agitator assembly drawing for the nozzle or pad design loads.

See Table 2 and Table 3, page 15, for the recommended vessel head thickness vs. vessel diameter, agitator case size and mounting nozzle or pad size. These tables are to be used as a guide for determining when vessel head reinforcement is required.

The tables are based upon the use of the ASME flanged and dished heads, atmospheric design pressures and ChemScale® agitation levels of 6 to 7. Elliptical or hemispherical heads of the same diameter and thickness are more rigid than ASME flanged and dished heads. Design pressures greater than atmospheric may require vessel head thickness greater than the table values. Very high ChemScale® agitation levels may require vessel head thickness greater than the table values. If the vessel head is not rigid enough, the head thickness can be increased or a reinforcement pad (Figure 2, page 14) can be added.

THIS INFORMATION IS INTENDED AS A GUIDE, AND DOES NOT RELIEVE THE USER OF COMPLETELY ANALYZING THE ENTIRE MOUNTING SYSTEM. EXTREME APPLICATIONS OR DESIGNS MAY REQUIRE SUPPORT STIFFNESS GREATER THAN THE RECOMMENDATIONS PROVIDED HEREIN. CONSULT CHEMINEER INSIDE SALES FOR DESIGN GUIDANCE.

Best Regards
Hesam Beigy



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Classified by Alfa Laval as: Business

FW: AL EOS Vessel Standards for Demanding Customers

3. november 2022 08:19

Subject	FW: AL EOS Vessel Standards for Demanding Customers
From	Hesam Beigy
To	Prakash Aware; Rahul Jagtap1; Pranay Kapse
Cc	Siddharth Gujar
Sent	26. juni 2022 18:21

FYI-those documents are up and running in our QMS 😊

Best Regards
Hesam Beigy



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From: Hesam Beigy
Sent: 26. juni 2022 18:20
To: Christian Ryo <christian.ryo@alfalaval.com>; Gustavo Alexandretti <gustavo.alexandretti@alfalaval.com>; Raul Velazquez <raul.velazquez@alfalaval.com>; Xindong Ye <xindong.ye@alfalaval.com>; Kailash Sharma <kailash.sharma@alfalaval.com>; Charles Martin <charles.martin@alfalaval.com>; Michele Calzolari <michele.calzolari@alfalaval.com>
Cc: Nicolai Christoffersen <nicolai.christoffersen@alfalaval.com>; Per Martinsen <per.martinsen@alfalaval.com>; KinHung Woo <kinhung.woo@alfalaval.com>; Siddharth Gujar <siddharth.gujar@alfalaval.com>; Ji Patwa <ji.patwa@alfalaval.com>; KinHung Woo <kinhung.woo@alfalaval.com>; Satish Jooluri <satish.jooluri@alfalaval.com>; Amir Eslampanah <amir.eslampanah@alfalaval.com>; Anatolii Harkusha <anatolii.harkusha@alfalaval.com>; Nikhil Varghese <nikhil.varghese@alfalaval.com>; Asger Lindegaard <asger.lindegaard@alfalaval.com>; Mudassir Jikre <mudassir.jikre@alfalaval.com>
Subject: AL EOS Vessel Standards for Demanding Customers

Dear Industry and Site managers,

In the past 2-3 years, our Edible Oil customers are becoming more and more demanding and therefore Vessel team in Denmark have felt the need to create some documents to visualize the "AL Standard".

There are now 3 documents that are finalized:

- **AL Vessel Standard highlights:** this document is mainly targeted for our customers-to explain on high level what is "AL Standard" and mainly deviations from Design Codes are explained (without explicit word "Deviation")-if we want to sell a standard AL project with standard delivery and cost, this document shall help us to avoid lengthy and costly discussions during executions-Document is shared with Global Technology (email below) for using during the negotiation phases, when needed-also accessible for your teams, when needed. **This document is not meant to be shared with fabricators and is solely for our customers.** AL Technical Specificaiton is the document that will be shared with workshop covering these points and more information from contract.
- **Insulation support specifications:** based on few last projects in Denmark, a lot of our customers are pushing to deliver vessels that have provisions for insulation already welded on-we made a standard based on our latest experiences. This document can be shared with customers as well as fabricators.
- **Vessel Nozzle Load Specification:** this is a new rising topic in vessel disciplines-we lately spent on a big project around 1500+ hours only for nozzle

load calculations (fortunately cost would be a change order)-we saw a big need to safeguard our contract basis for this topic, since consequences could be very big. Therefore Vessel team have put together a reasonable standard based on our normal vessel designs-this document shows a table where introduces normal max allowable nozzle loads-**but more importantly, it also introduces exclusions**, exclusions are there to secure that excessive calculation needs are not part of standard AL scope, we can of course do them, but it would be a change order. This document can be shared with customers as well as fabricators.

Thanks to QA team, these documents shall be accessible in all site's QMS (under Vessel Design) now-we will keep those documents updated, so, at all time, you can have access to the latest revisions.

Our team would be glad to have your comments for the next updates, if you came across any need/wish.

Wish you all a nice summer.

Reference Links

Title	Site	Organization
FOS Pipe Spec and Standard List for P...	Soborg	FOS Food Systems

Reference Documents

Title	Site	Organization
Alfa Laval Vessel Standard Highlights	Global	FOS Food Systems
Category : Guidelines/Specifications		
Alfa Laval Vessel Standard Highlights	Global	FOS - Edible Oil Systems
Insulation support specification	Global	FOS - Edible Oil Systems
Vessel nozzle loads specification	Global	FOS - Edible Oil Systems
Rationale for Instrument Nozzle Sizes	Soborg	FOS - Edible Oil Systems
Agitators used in Edible Oil Vessels	Soborg	FOS - Edible Oil Systems
Designation of components, nozzles an...	Soborg	FOS - Edible Oil Systems
Process Tank Guide	Soborg	FOS - Edible Oil Systems
Edible Oil Tank Archive Overview	Soborg	FOS - Edible Oil Systems
Standard Sizes Tank Table	Soborg	FOS - Edible Oil Systems
Insulation Specification	Soborg	FOS - Edible Oil Systems
Category : Templates		

Best Regards
Hesam Beigy



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From: Hesam Beigy

Sent: 6. maj 2022 16:00

To: Alexey Shevchenko <alexey.shevchenko@alfalaval.com>

Cc: Bent Sarup <bent.sarup@alfalaval.com>; Christian Ryo <christian.ryo@alfalaval.com>; Emeline Rey <emeline.rey@alfalaval.com>; Nicolai Christoffersen <nicolai.christoffersen@alfalaval.com>; Per Martinsen <per.martinsen@alfalaval.com>

Subject: AL EOS Vessel Highlight

Dear Alexey and Bent,

Based on recent 2 big projects (P66 and RIIG), it became apparent that we need a more concise document to explain what is AL standard tank/vessel.

The idea behind it was that we shall be able to present a document to customer to inform what is our design and fabrication details-basically what they shall expect to receive.

The work was started already in the beginning of RIIG, but is now completed and reviewed by Vessel team in DK and KL.

Today I shared the document with Shell SINGA project team to discuss with Shell on a detail level to see if that can be accepted as a project specification, instead of extensive requirement that Shell has presented.

I wanted to consult you to see if you see any possibilities to include this in our offers, if customers are into the details.

Appreciate your input.

Link to the documents :

- AL Vessel Highlights: <https://promis.alfalaval.org/qms/FWDFoodWaterDivision/FOSFoodSystems/Shared%20Documents/Alfa%20Laval%20Vessel%20Standard%20Highlights.docx?d=w1fba40d87d23417299037b3016585885>
- AL Standard Nozzle Load: [EOS_Nozzle-Loads.pdf \(alfalaval.org\)](https://www.alfalaval.com/Products-and-Services/Process-Systems/E&S-Food-Systems/AL-Standard-Nozzle-Load)

Best Regards
Hesam Beigy



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FW: Clay static mixer

3. november 2022 08:20

Subject	FW: Clay static mixer
From	Hesam Beigy
To	Alexander BechJorgensen; Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; KinHung Woo; Linus Michael; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	19. oktober 2022 12:14
Attachments	 PDF

Hi All,

Please see below information for the new slurry mixer concept coming from Alexey.

SO, for each project, we shall ask process engineer what they would require and which option is needed. Alexey seems to be more comfortable with the ATM one-good for us too 😊

Best Regards
Hesam Beigy



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From: Hesam Beigy

Sent: 19. oktober 2022 12:13

To: Siddharth Gujar <siddharth.gujar@alfalaval.com>

Cc: Erin Wong <erin.wong@alfalaval.com>; Abinesh Sundararaju <Abinesh.Sundararaju@alfalaval.com>;

Charles Martin <charles.martin@alfalaval.com>; Alexey Shevchenko

<alexey.shevchenko@alfalaval.com>; Ashvini Rajakumar <Ashvini.Rajakumar@alfalaval.com>; KinHung

Woo <kinhung.woo@alfalaval.com>

Subject: RE: Clay static mixer

Hello Siddharth,

Please see below new concept of slurry mixer.

Basically for slurry Mixer, we will have 2 options:

- Option 1: as it is now (attached from RIIG)

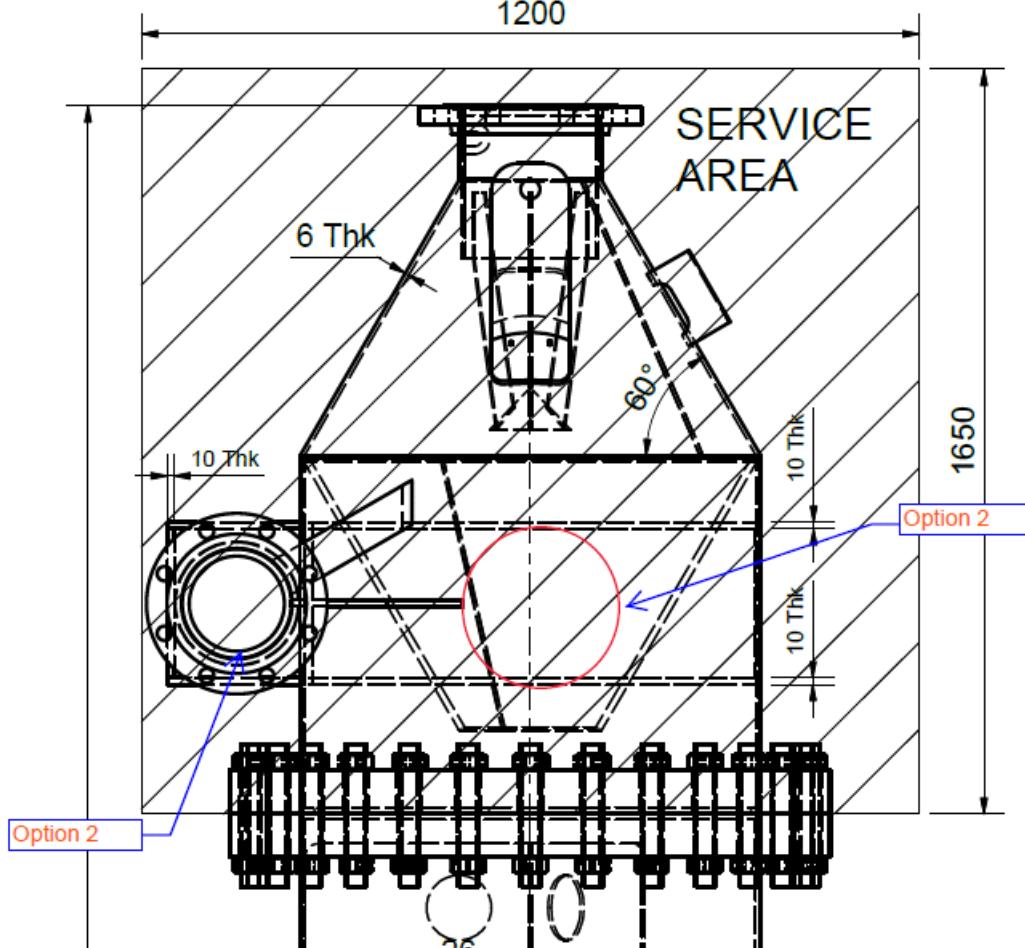
- Oil from Side
- bleaching earth from top
- under vacuum
- Tangential Oil Inlet

- Option 2:

- Oil from Side
- bleaching earth from top
- under ATM
- Normal Radial Oil Inlet

Please note that PID might show different location for oil and bleaching earth nozzles, but physical location of those nozzles wont be controlled by PID as normal.

Could you please help Ashvini to get drawing of the top part with the radial nozzle (option 2)? I suggest to keep thicknesses as it is, since the component is small. For the new nozzle, please use Sch. 40 rating as minimum and add a pad plate if possible.



Best Regards
Hesam Beigy



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From: Alexey Shevchenko <alexey.shevchenko@alfalaval.com>

Sent: 19. oktober 2022 12:06

To: Ashvini Rajakumar <Ashvini.Rajakumar@alfalaval.com>

Cc: Hesam Beigy <hesam.beigy@alfalaval.com>; Erin Wong <Erin.Wong@alfalaval.com>; Abinesh Sundararaju <Abinesh.Sundararaju@alfalaval.com>; Charles Martin <charles.martin@alfalaval.com>

Subject: Clay static mixer

Dear Ashvini,

As per our discussion for using static clay mixer with oil if we use atmospheric slurry mixer tank. The drawing of the existing mixer should be change in a way to get entering point of clay from the side (no tangential inlet is required) and oil from the top. Hesam will modify drawing of the top cover of existing mixer and we will have required flexibility.

Saying this I mean: we are not allowed to use mixer for clay as we use for Cargill projects to any other customers.

It is IP of Cargill which we respect.

Best regards,
Alexey Shevchenko



Alexey Shevchenko

Department Manager

Global Technology, Edible Oil Systems

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FW: Conical Heads-Line of Support Definition Code Case 2286-6

3. november 2022 08:20

Subject	FW: Conical Heads-Line of Support Definition Code Case 2286-6
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; KinHung Woo; Linus Michael; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	11. august 2022 08:45

Re-send for our new colleagues mainly

Best Regards
Hesam Beigy



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From: Hesam Beigy

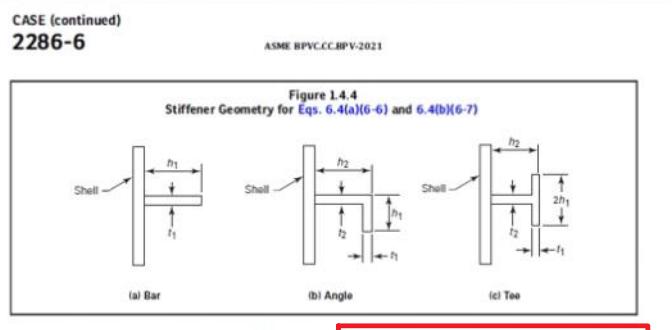
Sent: 9. marts 2022 22:54

To: KinHung Woo <kinhung.woo@alfalaval.com>; Asger Lindegaard <asger.lindegaard@alfalaval.com>; Pouria Shahani <pouria.shahani@alfalaval.com>; Anatolii Harkusha <anatolii.harkusha@alfalaval.com>; Siddharth Gujar <siddharth.gujar@alfalaval.com>; Linus Michael <linus.michael@alfalaval.com>; Nikhil Varghese <nikhil.varghese@alfalaval.com>

Subject: Conical Heads-Line of Support Definition Code Case 2286-6

Hi all,

Found this interesting definition of "line of support" in ASME-main book is not so descriptive, but a code case explains is clearly have asked LH to give their opinion on that also will update you if they advised otherwise.



$I_x' = \text{moment of inertia of ring stiffener plus effective length of shell about centroidal axis of combined section, in.}^4$

$$I_x' = I_t + A_p t_2^2 \frac{L_d}{A_s + L_d} + \frac{L_d^3}{12}$$

L_d, L_{1s} = design length of unstiffened vessel section between lines of support or the total length of tube between tube sheets, in. A line of support is:
for a circumferential line on a head face.

$I_x' =$ moment of inertia of ring stiffener plus effective length of shell about centroidal axis of combined section, in. ⁴	$I_x = I_f + A_g \frac{L_d}{A_g + L_d^2} + \frac{L_d^3}{12}$
$I =$ moment of inertia of full cross-section,	$I = \pi R^2 t$, in. ⁴
$K =$ effective length factor for column buckling; refer to 3.2 for further definition	
$L_B, L_{B1},$ $L_{B2}, L_{B-} =$ length of cylinder between bulkheads or large rings designed to act as bulkheads, in.	
$L_C =$ axial length of cone or conical section, in. (see Figure 1.4.3)	
$L_d =$ effective length of shell, in. (see Figure 1.4.2)	
$L_F =$ one-half of the sum of the distances, L_B , from the centerline of a large ring to the next large ring or head line of support on either side of the large ring, in. (see Figure 1.4.1)	
$L_s =$ one-half of the sum of the distances from the center line of a stiffening ring to the next line of support on either side of the ring, measured parallel to the axis of the cylinder, in. A line of support is described in the definition for L (see Figure 1.4.1), in.	
$L_t =$ overall length of vessel as shown in Figure 1.4.1, in.	
$L_u =$ laterally unbraced (laterally unsupported) length of a cylindrical member that is subject to column buckling, in. This applies to supports for pressure vessels or pedestal type vessels. Stiffening rings are not points of support unless they are externally supported. (Refer also to additional explanation at the end of this nomenclature section.)	
$L_u, L_{11},$ $L_{22}, L_{-} =$ design length of unstiffened vessel section between lines of support or the total length of tube between tube sheets, in. A line of support is:	
(a) a circumferential line on a head (excluding conical heads) at one-third the depth of the head from the head tangent line as shown on Figure 1.4.1	
(b) a stiffening ring that meets the requirements of eq. 3.3.1(a)(i)	
(c) a tubeshell	
$M =$ applied bending moment across the vessel cross-section, in.-kips	
$M_x = L_d / \sqrt{R_c d}$	
$P =$ applied external pressure, ksi	
$P_a =$ allowable external pressure in the absence of other loads, ksi	
$Q =$ applied axial compression load, kips	
$Q_p =$ axial compression load on end of cylinder resulting from applied external pressure, kips	
$R =$ radius to centerline of shell, in.	
$r =$ radius of gyration of cylinder, in.	
$r = \left(D_0^2 + D_l^2 \right)^{1/2}$	
$R_c =$ radius to centroid of combined ring stiffener and effective length of shell, in.	
$R_o =$ radius to outside of shell, in.	
$S =$ elastic section modulus of full shell cross-section, in. ³	

6 (2286-6)

Best Regards
Hesam Beigy



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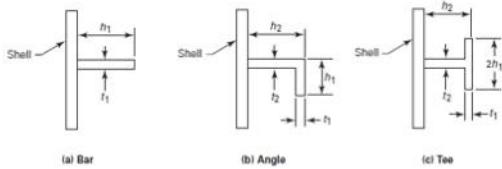
From: Hesam Beigy
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Cc: RichardTeles Neves <RichardTeles.Neves@alfalaval.com>; AD0598 <AD0598@alfalaval.com>; Michael Feng <fw@pp-inspection.cn>; Peter Kjær <peter.kjaer@alfalaval.com>; Siddharth Gujar <siddharth.gujar@alfalaval.com>
Subject: RE: AD0598-RIIG-Calculation Review-26B34A/B & 26R03AB42A-Cone thickness

Dear Ken,

During your talk with your designer, please also ask him to have a look at code case 2286-6 published in 2015; it has the clearest definition of line of support that we know of. But could be good to hear if you have any other definition that allows us to make more slim design as your designer has practiced (our understanding is that based on code case 2286-6, we cannot simply consider "line of support" for conical heads if you don't have stiffener).

Thanks.

Figure 1.4.4
Stiffener Geometry for Eqs. 6.4(a)(6-6) and 6.4(b)(6-7)



I_g' = moment of inertia of ring stiffener plus effective length of shell about centroidal axis of combined section, in.⁴

L_x, L_{1x} = design length of unstiffened vessel section between lines of support or the total length of tube between tube sheets, in. A line of support is:

(a) a circumferential line on a head (excluding conical heads) at one-third the depth of the head from the head tangent line as shown on **Figure 1.4.1**

(b) a stiffening ring that meets the requirements of [ASME BPVC.CC.BPV-2021](#)(6-1)

(c) a tubeshell

M = applied bending moment across the vessel cross-section, in.-kips

M_x = $L_2/\sqrt{R_0 f}$

P = applied external pressure, ksi

P_a = allowable external pressure in the absence of other loads, ksi

Q = applied axial compression load, kips

R = radius to centerline of cylinder, in.

r = radius of gyration of cylinder, in.

$$r = \frac{(D_0^2 + D_1^2)^{1/2}}{4}$$

R_x = radius to centroid of combined ring stiffener and effective length of shell, in.

$$R_x = R + Z_C$$

R_o = radius to outside of shell, in.

S = elastic section modulus of full shell cross-section, in.³

6 (2286-6)

Best Regards
Hesam Beigy



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From: Siddharth Gujjar <Siddharth.Gujar@alfalaval.com>
Sent: 9. marts 2022 18:42

To: Ken Xu SHLH <ken.xu@shlh.com.cn>
Cc: Hesam Beigy <hesam.beigy@alfalaval.com>; Richard Teles Neves <RichardTeles.Neves@alfalaval.com>; AD0598 <AD0598@alfalaval.com>; Michael Feng <fjw@pp-inspection.cn>; Peter Kjær <peter.kjaer@alfalaval.com>
Subject: RE: AD0598-RIIG-Calculation Review-26B34A/B & 26R03AB42A-Cone thickness
Importance: High

Dear Ken,
I was looking deeply on this in code and there is special requirement in appendix 1-8 in ASME Sec. VIII Div.1 for "RULES FOR REINFORCEMENT OF CONES AND CONICAL REDUCERS UNDER EXTERNAL PRESSURE"

(21) **1-8 RULES FOR REINFORCEMENT OF CONES AND CONICAL REDUCERS UNDER EXTERNAL PRESSURE**

(a) The equations of (b) and (c) below provide for the design of reinforcement, if needed, at the cone-to-cylinder junctions for reducer sections and conical heads where all the elements have a common axis and the half-apex angle $\alpha \leq 60$ deg. Subparagraph (e) below provides for special analysis in the design of cone-to-cylinder intersections with or without reinforcing rings where α is greater than 60 deg.

In the design of reinforcement for a cone-to-cylinder juncture, the requirements of UG-41 shall be met.

The nomenclature given below is used in the equations of the following subparagraphs:

A = factor determined from Section II, Part D, Subpart 3, Figure G and used to enter the applicable material chart in Section II, Part D, Subpart 3

A_{el} = effective area of reinforcement at large end intersection

A_{es} = effective area of reinforcement at small end intersection

A_{rl} = required area of reinforcement at large end of cone

373

(b) Reinforcement shall be provided at the large end of the cone when required by (1) or (2). When the large end of the cone is considered a line of support, the moment of inertia for a stiffening ring shall be determined in accordance with (3).

(1) For cones attached to a cylinder having a minimum length of $2.0\sqrt{R_L t_S}$, reinforcement shall be provided at the junction of the cone with the large cylinder for conical heads and reducers without knuckles when the value of Δ obtained from eq. (1) using the appropriate ratio $P/S_1 E_1$ is less than α .

Table 1-8.1
Values of Δ for Junctions at the Large Cylinder for $\alpha \leq 60$ deg

DELETED

375

Can you please clarify how this requirement is fulfilled in calculations?

Thanks
&
Best Regards
--
Siddharth Gujar



Siddharth Gujar

Design Engineer

Tel direct: +91 20 6734 1443 - Mobile: +91 9763498933

siddharth.gujar@alfalaval.com

Contact me on Lync/Skype: <sip:siddharth.gujar@alfalaval.com>

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From: Ken Xu SHLH <ken.xu@shlh.com.cn>

Sent: 08 March 2022 08:19

To: Siddharth Gujar <Siddharth.Gujar@alfalaval.com>

Cc: Hesam Beigy <hesam.beigy@alfalaval.com>; RichardTeles Neves <RichardTeles.Neves@alfalaval.com>; AD0598 <AD0598@alfalaval.com>; Michael Feng <fjw@pp-inspection.cn>; Peter Kjær <peter.kjaer@alfalaval.com>

Subject: 答复 : AD0598-RIIG-Calculation Review-26B34A/B & 26R03AB42A-Cone thickness

Hi Siddharth,

With or without line of support , the calculation as per 1-8 will always be done. See attached please.

The designer can choose the type of line of support(not, both or one end), the construction will be treated as safe as long as one type of line of support is approved. So sometimes we choose both, sometimes we choose not a line.

As per our experience, the calculation length under external pressure will be decreased when we choose it as line of support so the thinner thickness of shell can be available. (inertia moment shall be considered and stiffener shall be added when calculation failed). But we can choose not a line of support if the shell thickness is enough.

Cheers, Ken

发件人: Siddharth Gujar <Siddharth.Gujar@alfalaval.com>

发送时间: 2022年3月7日 18:49

收件人: Ken Xu SHLH <ken.xu@shlh.com.cn>

抄送: Hesam Beigy <hesam.beigy@alfalaval.com>; RichardTeles Neves <RichardTeles.Neves@alfalaval.com>; AD0598 <AD0598@alfalaval.com>; Michael Feng <fjw@pp-inspection.cn>; Peter Kjær <peter.kjaer@alfalaval.com>

主题: RE: AD0598-RIIG-Calculation Review-26B34A/B & 26R03AB42A-Cone thickness

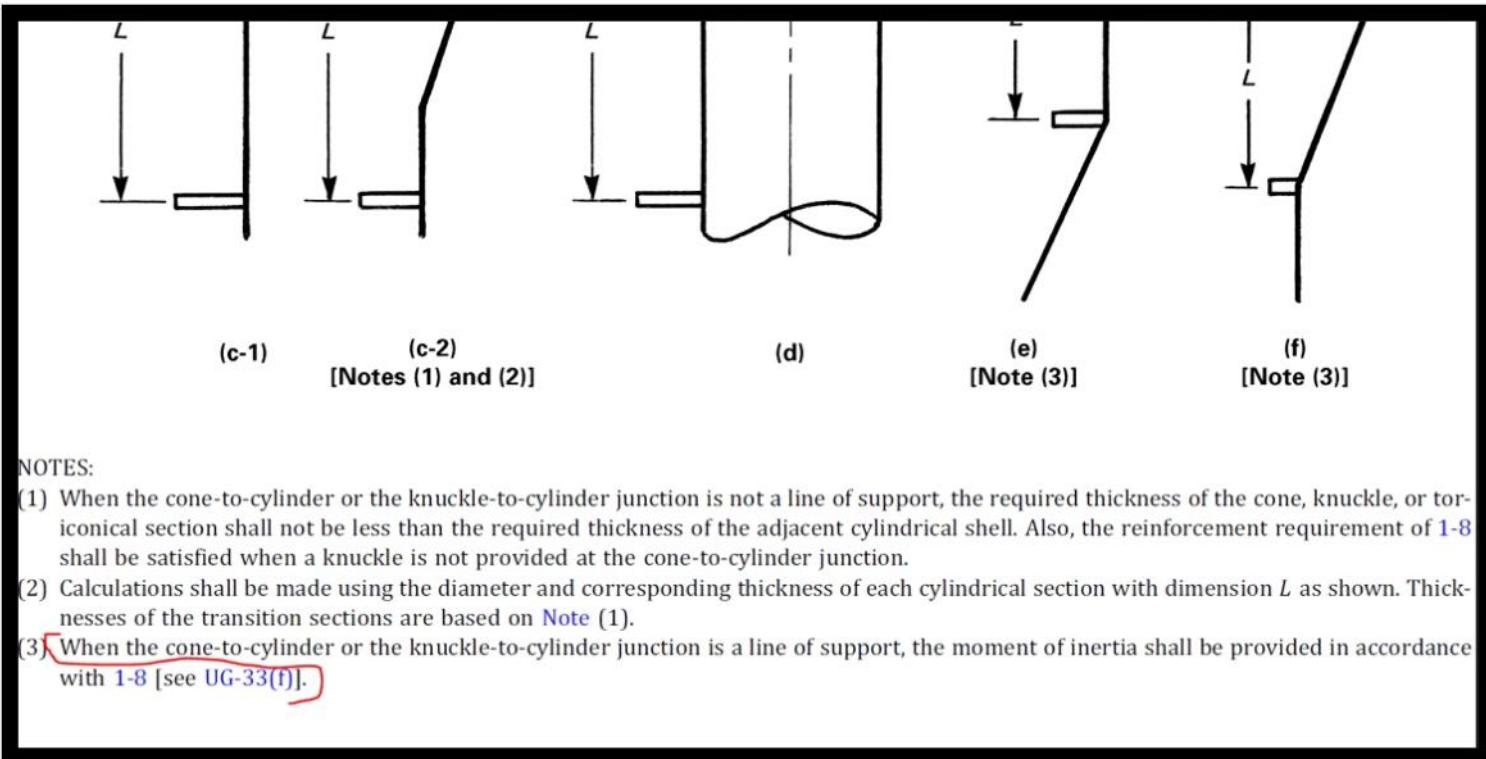
Dear Ken,

Code mentions in note 3 when cone to cylinder junction is line of support we need provide moment of inertia in accordance with 1-8(See UG-33 f)

How do you interpreted the note 3 below

OR

Can you please explain how we satisfy the below condition?



NOTES:

- (1) When the cone-to-cylinder or the knuckle-to-cylinder junction is not a line of support, the required thickness of the cone, knuckle, or toriconical section shall not be less than the required thickness of the adjacent cylindrical shell. Also, the reinforcement requirement of 1-8 shall be satisfied when a knuckle is not provided at the cone-to-cylinder junction.
- (2) Calculations shall be made using the diameter and corresponding thickness of each cylindrical section with dimension L as shown. Thicknesses of the transition sections are based on Note (1).
- (3) When the cone-to-cylinder or the knuckle-to-cylinder junction is a line of support, the moment of inertia shall be provided in accordance with 1-8 [see UG-33(f)].

I can also see in some of the cases for cone you have considered "not a line of support" for cone.

Can you please also explain when you consider cone as line of support and when not a line of support, I can see in same file LH considered one cone as "Both ends line of support" and other as "Not a line of support".

Thanks
&
Best Regards
--
Siddharth Gujar



Siddharth Gujar

Design Engineer

Tel direct: +91 20 6734 1443 - Mobile: +91 9763498933

siddharth.gujar@alfalaval.com

Contact me on Lync/Skype: <sip:siddharth.gujar@alfalaval.com>

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Classified by Alfa Laval as: Business

From: Ken Xu SHLH <ken.xu@shlh.com.cn>

Sent: 07 March 2022 08:57

To: Siddharth Gujar <Siddharth.Gujar@alfalaval.com>

Cc: Hesam Beigy <hesam.beigy@alfalaval.com>; RichardTeles Neves <RichardTeles.Neves@alfalaval.com>; AD0598

<AD0598@alfalaval.com>; Michael Feng <fjw@pp-inspection.cn>; Peter Kjær <peter.kjaer@alfalaval.com>

Subject: 答复 : AD0598-RIIG-Calculation Review-26B34A/B & 26R03AB42A-Cone thickness

CAUTION. This e-mail originated from outside of Alfa Laval. Please be mindful of attachments and links.

Hi Siddharth,

Line of support ≠ stiffener and it's just for calculation.

Cheers, Ken

发件人: Siddharth Gujar <Siddharth.Gujar@alfalaval.com>

发送时间: 2022年3月6日 3:49

收件人: Ken Xu SHLH <ken.xu@shlh.com.cn>

抄送: Hesam Beigy <hesam.beigy@alfalaval.com>; RichardTeles Neves

<RichardTeles.Neves@alfalaval.com>; AD0598 <AD0598@alfalaval.com>; Michael Feng <fjw@pp-inspection.cn>; Peter Kjær <peter.kjaer@alfalaval.com>

主题: AD0598-RIIG-Calculation Review-26B34A/B & 26R03AB42A-Cone thickness

重要性: 高

Dear Ken,

We are reviewing the calculations and found one of the major concerns for conical tanks in tank 26B34A/B & 26R03AB42A

As per PV elite software, LH has consider both end of conical bottom as line of support.

But we don't have stiffener at those position, so we need to use condition as "Not a line of support", and at this condition the bottom cone fails for 5mm thickness as per code.

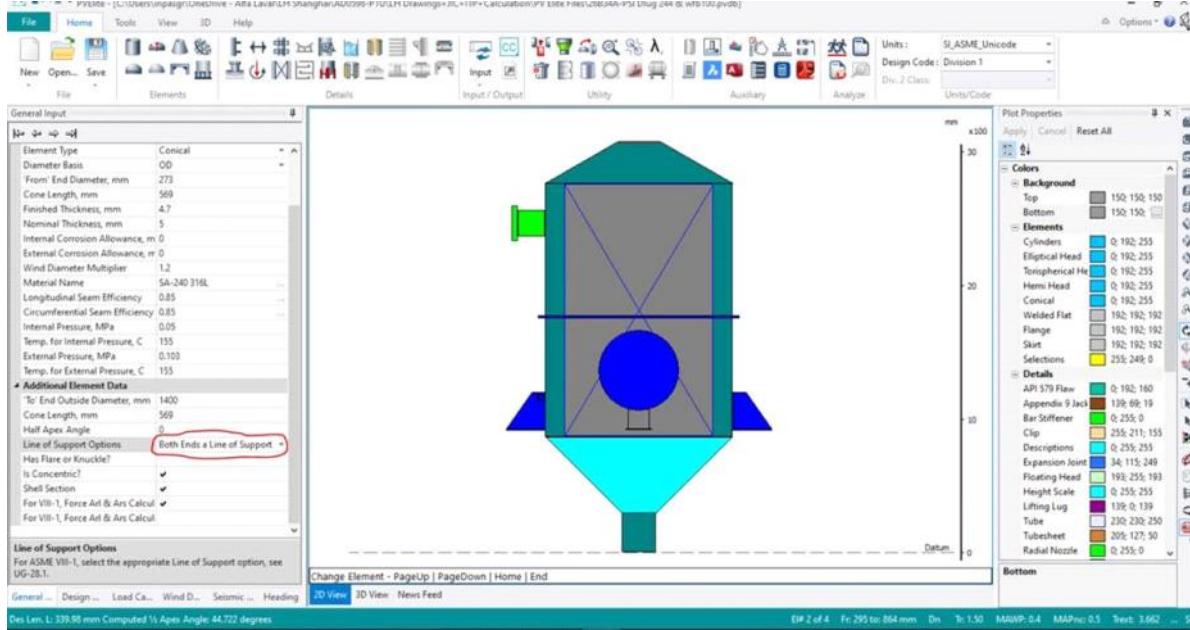
Same is the case for top cone also

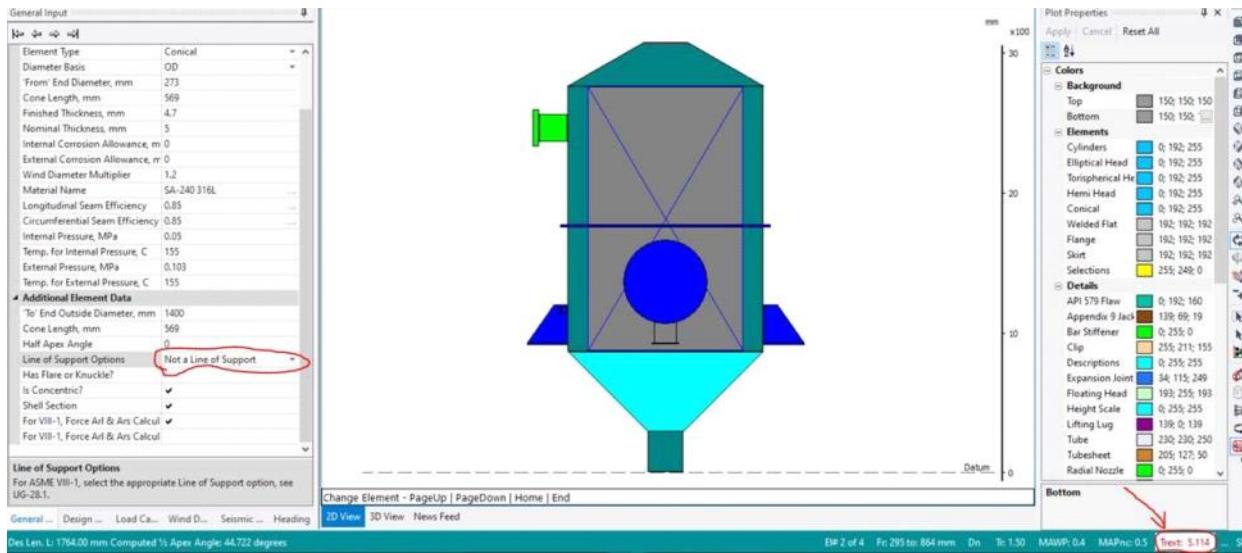
Also for tanks 26R03AB42A and other similar cyclones, we have problem with top cone.

Please talk to your designer urgently and let us know his comments..

I think we need to add extra stiffeners in those vessels.

(See below snapshots when we change the conditions)





Thanks
&
Best Regards
--
Siddharth Gujar



Siddharth Gujar

Design Engineer

Tel direct: +91 20 6734 1443 - Mobile: +91 9763498933

siddharth.gujar@alfalaval.com

Contact me on Lync/Skype: <sip:siddharth.gujar@alfalaval.com>

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FW: Declaration of Conformity as per (EC) No 1935/2004

3. november 2022 08:25

Subject	FW: Declaration of Conformity as per (EC) No 1935/2004
From	Hesam Beigy
To	Alexander BechJorgensen; Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; KinHung Woo; Linus Michael; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	20. september 2022 23:16

FYI

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
Mobile: +45 27778777
hesam.beigy@alfalaval.com
Contact me on Teams: <sip:hesam.beigy@alfalaval.com>

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From: Jens Langvad <jens.langvad@alfalaval.com>
Sent: 20. september 2022 08:00
To: Hesam Beigy <hesam.beigy@alfalaval.com>; Mads Peter Malmskov <Madspeter.Malmskov@alfalaval.com>; Torben HjulerChristensen <torben.hjulerchristensen@alfalaval.com>
Cc: Siddharth Gujar <Siddharth.Gujar@alfalaval.com>

Subject: RE: Declaration of Conformity as per (EC) No 1935/2004

Hi Hesam,

First of all you have to decide if you need EN1935 and/or FDA and then define in your spec.

A tank of stainless steel might be suitable for food – if design is right.

We normally include EU - Food on our declaration of conformity according to MD – sometimes according to PED -- but this is only to save paper and accepted by local authority.

EU : All gaskets + glass + ceramics ... have to meet demands from EN1935/2004 + 10/2011(plastic)

US 21 CFR 177.2600 or equal standard.

Best Regards

Jens Langvad



Jens Langvad

HSE + QA Manager, Brewery

Mobile: +45 27 77 85 14

jens.langvad@alfalaval.com

Contact me on Lync/Skype: <sip:jens.langvad@alfalaval.com>

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Classified by Alfa Laval as: Business

From: Hesam Beigy <hesam.beigy@alfalaval.com>

Sent: 19. september 2022 20:34

To: Jens Langvad <jens.langvad@alfalaval.com>; Mads Peter Malmskov <Madspeter.Malmskov@alfalaval.com>; Torben HjulerChristensen <torben.hjulerchristensen@alfalaval.com>

Cc: Siddharth Gujar <Siddharth.Gujar@alfalaval.com>

Subject: RE: Declaration of Confotmity as per (EC) No 1935/2004

Hi all,

We are working on a quotation for a special steel tank for an EU customer.

They are insisting on [\(EC\) No 1935/2004](#) declaration from AL. Since this seems to be part of your standard requirement, do you know if tanks are made out of stainless steel, is there any risk issuing such a declaration by AL?

For non-steel parts (for gasket and O-rings we are intending to choose FDA approved materials and glass disc for sight glass would come with a food safe declaration from supplier)

Thanks for your input in advance.

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
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Solutions for food and
beverage processing



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FW: Edible Oil Tank Archive - Update 2022

3. november 2022 08:25

Subject	FW: Edible Oil Tank Archive - Update 2022
From	Hesam Beigy
To	Alexander Bechjorgensen; Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; KinHung Woo; Linus Michael; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Satish Jooluri; Siddharth Gujar; WeiJie Liu
Sent	3. oktober 2022 14:50

FYI-QMS is now updated with the latest Tank Archive

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
Mobile: +45 27778777
hesam.beigy@alfalaval.com
Contact me on Teams: <sip:hesam.beigy@alfalaval.com>

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From: Hesam Beigy
Sent: 3. oktober 2022 14:50
To: Mudassir Jikre <mudassir.jikre@alfalaval.com>
Cc: Nikhil Varghese <nikhil.varghese@alfalaval.com>; Emeline Rey <emeline.rey@alfalaval.com>
Subject: RE: Edible Oil Tank Archive - Update 2022

THanks a lot Mudassir.

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
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From: Mudassir Jikre <mudassir.jikre@alfalaval.com>
Sent: 3. oktober 2022 14:40
To: Hesam Beigy <hesam.beigy@alfalaval.com>
Cc: Nikhil Varghese <Nikhil.Varghese@alfalaval.com>; Emeline Rey <emeline.rey@alfalaval.com>
Subject: RE: Edible Oil Tank Archive - Update 2022

Hello Hesam,

Document updated in QMS.

BR,
Mudassir Jikre

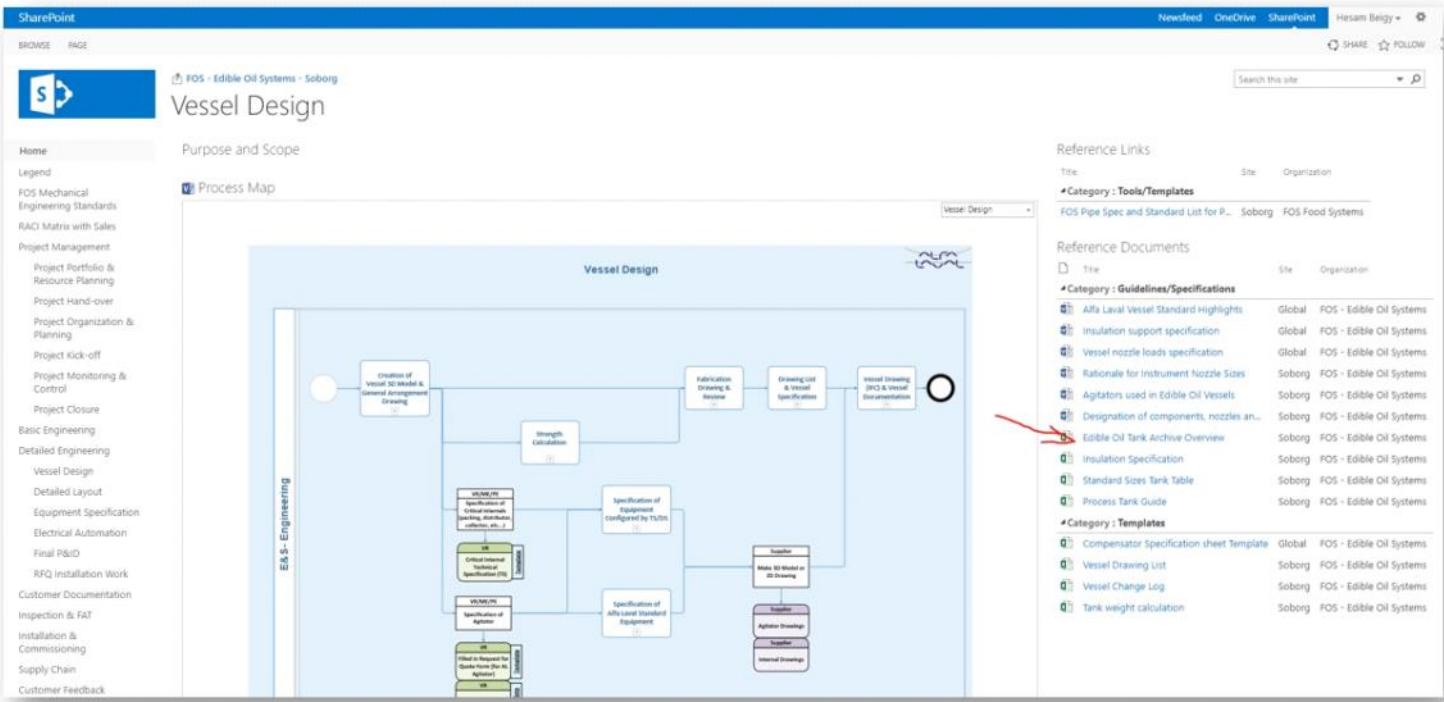
Classified by Alfa Laval as: Business

From: Hesam Beigy <hesam.beigy@alfalaval.com>
Sent: Friday, September 30, 2022 5:17 PM
To: Mudassir Jikre <mudassir.jikre@alfalaval.com>
Cc: Nikhil Varghese <Nikhil.Varghese@alfalaval.com>; Emeline Rey <emeline.rey@alfalaval.com>
Subject: FW: Edible Oil Tank Archive - Update 2022

Hello Mudassir,

We need help for update of a document in QMS. We have an excel sheet, where we had an update now could you please help uploading the new version of this document?

Thanks for your help in advance and wish you a wonderful weekend.



Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
Mobile: +45 27778777
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Contact me on Teams: <sip:hesam.beigy@alfalaval.com>

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Classified by Alfa Laval as: Business

From: Nikhil Varghese <Nikhil.Varghese@alfalaval.com>

Sent: 30. september 2022 15:27

To: Hesam Beigy <hesam.beigy@alfalaval.com>

Subject: RE: Edible Oil Tank Archive - Update 2022

Hello Sir,



Finally updated

Have an amazing weekend.

Best Regards,
Nikhil Varghese



Nikhil Varghese
Design Engineer
Mobile: +45 27778411
nikhil.varghese@alfalaval.com

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Classified by Alfa Laval as: Business

From: Hesam Beigy <hesam.beigy@alfalaval.com>

Sent: 28. september 2022 11:21

To: Nikhil Varghese <Nikhil.Varghese@alfalaval.com>

Subject: RE: Edible Oil Tank Archive - Update 2022

Hi Sir,

IS this ready now for upload to our sharepoint?

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
Mobile: +45 27778777
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Classified by Alfa Laval as: Business

From: Nikhil Varghese <Nikhil.Varghese@alfalaval.com>

Sent: 22. september 2022 15:48

To: Louis Chan <louis.Chan@alfalaval.com>

Cc: Hesam Beigy <hesam.beigy@alfalaval.com>

Subject: RE: Edible Oil Tank Archive - Update 2022

Hello Louis, ☺

Thanks a ton for your help.

Best Regards,
Nikhil Varghese



Nikhil Varghese
Design Engineer
Mobile: +45 27778411
nikhil.varghese@alfalaval.com

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From: Louis Chan <louis.Chan@alfalaval.com>

Sent: 22. september 2022 15:44

To: Nikhil Varghese <Nikhil.Varghese@alfalaval.com>

Cc: Hesam Beigy <hesam.beigy@alfalaval.com>

Subject: RE: Edible Oil Tank Archive - Update 2022

Hi Nikhil,

I had filled the one that I am able to find in our server.

For those US projects, unfortunately I am unable to find the data.

Thanks and have a nice day.

Best Regards,
Louis Chan



Louis Chan
Process Engineer – Refining, Global Technology
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louis.chan@alfalaval.com

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From: Nikhil Varghese <Nikhil.Varghese@alfalaval.com>

Sent: 09 September 2022 17:57

To: Louis Chan <Louis.Chan@alfalaval.com>

Cc: Hesam Beigy <Hesam.Beigy@alfalaval.com>

Subject: Edible Oil Tank Archive - Update 2022

Hello Louis,

Thank you for taking out some time for our call.

I have attached an excel sheet above with all the details in it. We just need information about TPD & Type of Oil.

Let me know if you have any questions.

Wish you a great weekend. 😊

Best Regards,
Nikhil Varghese



Nikhil Varghese
Design Engineer
Mobile: +45 27778411
nikhil.varghese@alfalaval.com

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FW: HotWell SCD (Cargill related issue on Hotwell)

3. november 2022 08:25

Subject	FW: HotWell SCD (Cargill related issue on Hotwell)
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; KinHung Woo; Linus Michael; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	5. september 2022 20:58
Attachments	

Hi all,

I was going through my old mails and found this one.

Design of one special Hotwell for Cargill is done. <https://promis.alfalaval.org/sites/AD0617-Cargill-Turkey-SCD/Engineering%20Purchase%20and%20Logistic/Mechanical%20Engineering/210%20Vessels/Other%20Vessels/TK-231930-Hotwell%20sh%201.pdf>

Please note that bottom of hotwell needed to be welded, while here in the drawing it was wrongly bolted (resulted in lead on site and need for repair).

This mail is only for your information and knowledge sharing.

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
Mobile: +45 27778777
hesam.beigy@alfalaval.com
Contact me on Teams: <sip:hesam.beigy@alfalaval.com>

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From: Preben Rasmussen <preben.rasmussen@alfalaval.com>
Sent: 10. maj 2021 14:16
To: Hesam Beigy <hesam.beigy@alfalaval.com>; Asger Lindegaard <asger.lindegaard@alfalaval.com>;
Siddharth Gujar <Siddharth.Gujar@alfalaval.com>
Cc: Alexey Shevchenko <alexey.shevchenko@alfalaval.com>; Emeline Rey <emeline.rey@alfalaval.com>
Subject: FW: HotWell SCD (Cargill related issue on Hotwell)

Hi guys

Just heads up: Alexey have been discussing Hotwells w Gargill – This type is being developed for RBD and SCD sections.

Other hot wells as per standard.

The design is -0,1 to -0.2barg/atm. This explains the Torospherical head in the sketch – conical will also work.

Head should be flanged for smaller dia's to allow entry for modifications as long as we have no real experience to operate it.

The main reason is to install a suction device to collect vapor – mainly hexane – that can be extracted from the oil.

This is solely for safety reasons; this hexane is potentially explosive even in small amounts.

Please note there are no requirements for ATEX. Incidents are very rare. Venting pump needs ATEX nevertheless, but this will be procured by customer (for AD0617) or by TPM. This suction functionality is only introduced to avoid a potential risk by Cargill own safety organization. However – other customers must be expected to follow.

Plan is to finish development under AD0617, then we need to make process tank description for general distribution.

Best Regards

Preben Rasmussen



Preben Rasmussen

Technical Manager, PES VOT Engineering

Tel direct: +4539536760 - Mobile: +4527529147

preben.rasmussen@alfalaval.com

Contact me on Lync/Skype: <sip:preben.rasmussen@alfalaval.com>

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From: Alexey Shevchenko <alexey.shevchenko@alfalaval.com>
Sent: 10. maj 2021 11:44
To: Preben Rasmussen <preben.rasmussen@alfalaval.com>
Cc: Ashish Mendhe <Ashish.Mendhe@alfalaval.com>; Mamoud Mirzazadeh <Mamoud.Mirzazadeh@alfalaval.com>
Subject: HotWell SCD

Hi Preben
There we are:
Please give me call and I can explain my hand sketch.

Best Regards

Alexey Shevchenko



Alexey Shevchenko

Process Department Manager, Edible Oil Systems Global Technology

Tel direct: +4539536498 - Mobile: +4528101319

alexey.shevchenko@alfalaval.com

Contact me on Lync/Skype: <sip:alexey.shevchenko@alfalaval.com>

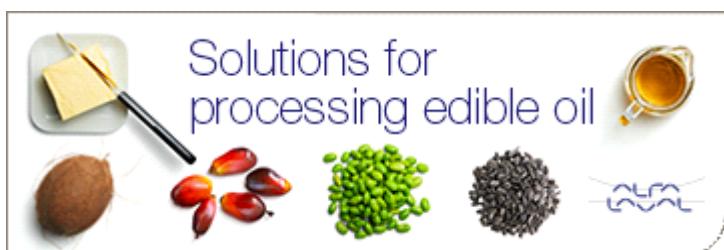
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FW: Introduction to Item Creation in Movex

3. november 2022 08:25

Subject	FW: Introduction to Item Creation in Movex
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; KinHung Woo; Linus Michael; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	5. september 2022 21:02
Attachments	

Hi all,

See attached guide made by Nikhil for item creation in Søborg Movex-in case you forgot about that.

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
Mobile: +45 27778777
hesam.beigy@alfalaval.com
Contact me on Teams: <sip:hesam.beigy@alfalaval.com>

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From: Hesam Beigy

Sent: 21. juli 2021 18:47

To: Anatolii Harkusha <anatolii.harkusha@alfalaval.com>; Pouria Shahani

<Pouria.Shahani@alfalaval.com>

Cc: Nikhil Varghese <Nikhil.Varghese@alfalaval.com>; Siddharth Gujar

<Siddharth.Gujar@alfalaval.com>; Asger Lindegaard <asger.lindegaard@alfalaval.com>

Subject: FW: Introduction to Item Creation in Movex

Hi both,

In case you are struggling to work in Movex and is puzzled how to create items, attached document shall be helpful. This document will be placed to QMS for further reference-after review and approval.

In case you had questions, please contact Nikhil.

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering

Technical Team Leader, E&S Food Systems

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hesam.beigy@alfalaval.com

Contact me on Teams: <sip:hesam.beigy@alfalaval.com>

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From: Nikhil Varghese <Nikhil.Varghese@alfalaval.com>

Sent: 18. marts 2021 14:47

To: Emeline Rey <emeline.rey@alfalaval.com>

Cc: Hesam Beigy <hesam.beigy@alfalaval.com>

Subject: Introduction to Item Creation in Movex

Dear Emeline,

I have created a draft for steps involved within Item Creation in Movex.
Please do have a look & would like to hear your feedback on it.

Best Regards,
Nikhil Varghese

FW: New QC documents available-AL tolerance for vessels

3. november 2022 08:25

Subject	FW: New QC documents available-AL tolerance for vessels
From	Hesam Beigy
To	Alexander BechJorgensen; Amir Eslampahan; Anatolii Harkusha; Asger Lindegaard; KinHung Woo; Linus Michael; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	22. september 2022 17:14

FYA

Best Regards
Hesam Beigy



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From: Hesam Beigy

Sent: 22. september 2022 17:14

To: Daniel Crivelari <daniel.crivelari@alfalaval.com>; Silvia Simonetti <silvia.simonetti@alfalaval.com>; Lei Huang <lei.huang@alfalaval.com>; Satish Jooluri <satish.jooluri@alfalaval.com>; Suhas Kulkarni <suhas.kulkarni@alfalaval.com>; Peter Kjær <peter.kjaer@alfalaval.com>

Cc: Mudassir Jikre <mudassir.jikre@alfalaval.com>; RikkeBjerre Eberhard <rikkebjerre.eberhard@alfalaval.com>; Per Martinsen <per.martinsen@alfalaval.com>; Gustavo Alexandretti <gustavo.alexandretti@alfalaval.com>; Stefano Di Mario <stefano.dimario@alfalaval.com>; Kailash Sharma <kailash.sharma@alfalaval.com>; Raul Velazquez <raul.velazquez@alfalaval.com>; Xindong Ye <xindong.ye@alfalaval.com>; Charles Martin <charles.martin@alfalaval.com>

Subject: New QC documents available-AL tolerance for vessels

Dear QC Network members,

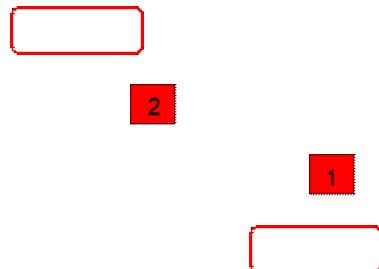
We have now a bit more progress in the documents that we need in place to be able to define AL Quality Level.

Below documents are generated and approved by Peter, Suhas and myself-the idea is that they shall be used in case there is no customer requirements which requires stricter tolerances.

- [Tolerance Standard for Vessels](#)
- [SOP for agitator Alignment](#)

As usual, we would love to hear your feedback and input, in case you need any particular point to be added/changed during the next updates.

Documents are added to the QMS library of QC documents and is available to AL our Food System colleagues:



The screenshot shows a SharePoint 'QC Documents' library. The navigation bar at the top includes 'SharePoint', 'BROWSE', 'FILES', and 'LIBRARY'. The main content area displays a list of documents with columns for 'Content Type', 'Name', 'Modified', 'Modified By', 'Document ID', 'Version', 'Approval Status', and 'Template Version'. The list includes four items:

Content Type	Name	Modified	Modified By	Document ID	Version	Approval Status	Template Version
QMS Reference Document	FOS-Welding Acceptance Guideline	May 20	Mudassir Jikre	ALQMS-664420822-6	1.0	Approved	1.0
QMS Reference Document	General Workshop Standards	May 23	Mudassir Jikre	ALQMS-664420822-7	1.0	Approved	1.0
QMS Reference Document	SOP for Agitator alignment	Tuesday at 11:28 AM	Mudassir Jikre	ALQMS-664420822-8	1.0	Approved	1.0
QMS Reference Document	Tolerance Standard for Vessels	7 hours ago	Mudassir Jikre	ALQMS-664420822-9	1.0	Approved	1.0

The left sidebar contains a 'Legend' section with various process categories like 'Governing Processes', 'Develop', 'Offer', 'Market', 'Convert', 'Deliver', 'Supporting Processes', and 'Recent'. Below the legend is a 'QC Documents' search bar.

Wish you all a nice day/night.

Best Regards
Hesam Beigy



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FW: P002079 - Cargill Mixing Tank-Tripod Installation process

3. november 2022 08:25

Subject	FW: P002079 - Cargill Mixing Tank-Tripod Installation process
From	Hesam Beigy
To	Satish Jooluri; Siddharth Gujar; Asger Lindegaard; Pranay Kapse; Prakash Aware; Rahul Jagtap1; Anatolii Harkusha
Cc	Linus Michael; KinHung Woo
Sent	19. juli 2022 16:24
Attachments	 

Dear all,

Have a look at the good work done by Linus for securing alignment of agitator flange with bottom tri-pod. This can be used for other projects.

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
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From: Linus Michael <Linus.Michael@alfalaval.com>
Sent: 13. juli 2022 05:05
To: Nishant Karwa <nishant.karwa@alfalaval.com>; Hesam Beigy <hesam.beigy@alfalaval.com>
Cc: KinHung Woo <kinhung.woo@alfalaval.com>
Subject: P002079 - Cargill Mixing Tank-Tripod Installation process

Hi Nishant,

Good day.

We have done agitator alignment inspection on RETENTION MIXER TANK - TK091026 on 06/07/2022 with Tunas QC, Sharil.

Attached the inspection report and work procedure for your perusal.

All inspection photos parked under the folder below.



[2022-07-06 CARGILL QUEEN - AGITATOR ALIGNMENT](#)

Thanks and regards,

Linus

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From: Nishant Karwa <nishant.karwa@alfalaval.com>
Sent: Wednesday, June 29, 2022 6:01 AM
To: Linus Michael <Linus.Michael@alfalaval.com>; Hesam Beigy <hesam.beigy@alfalaval.com>
Cc: KinHung Woo <kinhung.woo@alfalaval.com>
Subject: RE: P002079-Cargill Mixing Tank-Tripod Installation process

Hi Linus,

Thanks for reviewing the procedure.

I will ask Tunas to move forward with the same.

Best Regards

Nishant Karwa

Sr. Project Manager, Engineering & Supply

Tel direct: +1 804 236 1245 - Mobile: +1 804 239 9482

nishant.karwa@alfalaval.com

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From: Linus Michael <Linus.Michael@alfalaval.com>
Sent: Monday, June 27, 2022 9:29 PM
To: Nishant Karwa <nishant.karwa@alfalaval.com>; Hesam Beigy <hesam.beigy@alfalaval.com>
Cc: KinHung Woo <kinhung.woo@alfalaval.com>
Subject: RE: P002079-Cargill Mixing Tank-Tripod Installation process

Hi Hesam and Nishant,

Attached final MOS from Tunas for tripod installation for your perusal.
I have no further comments.
Please to revert if you have any.

Thanks and regards,
Linus Michael

Classified by Alfa Laval as: Business

From: Nishant Karwa <nishant.karwa@alfalaval.com>
Sent: Friday, June 24, 2022 6:18 AM
To: Hesam Beigy <hesam.beigy@alfalaval.com>; Linus Michael <Linus.Michael@alfalaval.com>
Subject: RE: P002079-Cargill Mixing Tank-Tripod Installation process

Hi Hesam & Linus,

Thanks for the comments.
I wait for the updated document on Friday to submit the same to Tunas.

Best Regards

Nishant Karwa

Sr. Project Manager, Engineering & Supply

Tel direct: +1 804 236 1245 - Mobile: +1 804 239 9482

nishant.karwa@alfalaval.com

Contact me on MS Lync/Communicator: <sip:nishant.karwa@alfalaval.com>

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From: Linus Michael <Linus.Michael@alfalaval.com>

Sent: Thursday, June 23, 2022 3:27 AM

To: Hesam Beigy <hesam.beigy@alfalaval.com>

Cc: Nishant Karwa <nishant.karwa@alfalaval.com>

Subject: RE: P002079-Cargill Mixing Tank-Tripod Installation process

Dear Hesam,

Sure, will get it done.

Regards,
Linus

Classified by Alfa Laval as: Business

From: Hesam Beigy <hesam.beigy@alfalaval.com>

Sent: Thursday, June 23, 2022 3:20 PM

To: Linus Michael <Linus.Michael@alfalaval.com>

Cc: Nishant Karwa <nishant.karwa@alfalaval.com>

Subject: RE: P002079-Cargill Mixing Tank-Tripod Installation process

Dear Linus,

Thanks for comments,

Could you please get the procedure updated with my comments and yours and provide us with updated one?

Thanks.

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
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From: Linus Michael <Linus.Michael@alfalaval.com>
Sent: 23. juni 2022 08:21
To: Hesam Beigy <hesam.beigy@alfalaval.com>
Cc: Nishant Karwa <nishant.karwa@alfalaval.com>; Pouria Shahani <Pouria.Shahani@alfalaval.com>
Subject: RE: P002079-Cargill Mixing Tank-Tripod Installation process

Dear Hesam,

Thank you for sharing this procedure and to ask my comments. Really appreciate your request. From my review, I have this points below to contribute into making this procedure more efficient. As below:-

1. Additionally Tunas to include the method and occurrences to take/read the dimensions after the agitator support been installed, to standardize all inspector and engineers reading methods in one (avoid any random error).
2. How Tunas to remove the installation of the tripod measurement setup without leaving any weld marks on the tank inner after measurement done. Since most of the agitator

alignment done after final inspection.

Hope this is helpful.

With regards,
Linus Michael

Classified by Alfa Laval as: Business

From: Hesam Beigy <hesam.beigy@alfalaval.com>
Sent: Thursday, June 23, 2022 1:39 PM
To: Linus Michael <Linus.Michael@alfalaval.com>
Cc: Nishant Karwa <nishant.karwa@alfalaval.com>; Pouria Shahani <Pouria.Shahani@alfalaval.com>
Subject: RE: P002079-Cargill Mixing Tank-Tripod Installation process

Hello Linus,

Could you please go through this document and see if you have more comments?

Thanks.

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
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Classified by Alfa Laval as: Business

From: Nishant Karwa <nishant.karwa@alfalaval.com>
Sent: 22. juni 2022 23:40
To: Hesam Beigy <hesam.beigy@alfalaval.com>; Pouria Shahani <Pouria.Shahani@alfalaval.com>
Subject: RE: P002079-Cargill Mixing Tank-Tripod Installation process

Hi Hesam/ Pouria,
Can you confirm if attached top flange and tripod shaft support installation procedure is OK to be followed for Cargill-Mix Tank project?

Thanks!
Best Regards

Nishant Karwa

Sr. Project Manager, Engineering & Supply

Tel direct: +1 804 236 1245 - Mobile: +1 804 239 9482

nishant.karwa@alfalaval.com

Contact me on MS Lync/Communicator: <sip:nishant.karwa@alfalaval.com>

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Classified by Alfa Laval as: Business

From: izzat@tunasasal.com.my <izzat@tunasasal.com.my>
Sent: Wednesday, June 22, 2022 6:34 AM
To: Nishant Karwa <nishant.karwa@alfalaval.com>
Cc: 'Ganesh' <ganesh@tunasasal.com.my>; zainal <zainal@tunasasal.com.my>; wai@tunasasal.com.my; 'sufian' <sufian@tunasasal.com.my>; 'THEVAENDRAN' <thevaendran@tunasasal.com.my>; faris@tunasasal.com.my; sharill@tunasasal.com.my; 'TA KKSiew' <kksiew@tunasasal.com.my>
Subject: RE: RE: P002079-Cargill Mixing Tank-Delivery of agitator bottom tripod support

Dear Mr Nishant,

We would like to change the method of agitator flange installation and inspection from vertical position

to horizontal position.

FYI, recently, all 5 bleachers from Rodeo Project have successfully applied this method and the result is passed.

Therefore, please find attached revised flange and shaft support installation procedure.

Attached, email showing photos of previous project done using same method.

Best regards,

MOHD IZZAT

TUNAS ASAL SDN. BHD.

P.T 16717,JALAN PERMATA 1/7,

ARAB-MALAYSIAN INDUSTRIES PARK,

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TEL: +606 7990462 / +60195235465

FAX: +606 7990466

izzat@tunasasal.com.my

www.tunasasal.com.my

Classified by Alfa Laval as: Business

FW: Protein Engineering Guideline for Vessels

3. november 2022 08:26

Subject	FW: Protein Engineering Guideline for Vessels
From	Hesam Beigy
To	Alexander BechJorgensen; Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; KinHung Woo; Linus Michael; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	2. november 2022 09:26

Hi all,

For those of you who work/will work on Protein projects, please be aware that we need to follow the guidelines for tanks. You can request access to the file if you needed.

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
Mobile: +45 27778777
hesam.beigy@alfalaval.com
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From: Pablo Almazan <pablo.botijaalmazan@alfalaval.com>
Sent: 17. oktober 2022 16:30
To: Rahul Jagtap1 <rahul.jagtap1@alfalaval.com>

Cc: Hesam Beigy <hesam.beigy@alfalaval.com>; Emeline Rey <emeline.rey@alfalaval.com>
Subject: RE: Protein Engineering Guideline for Vessels

Hi Rahul,

Please go to this link and ask for access:

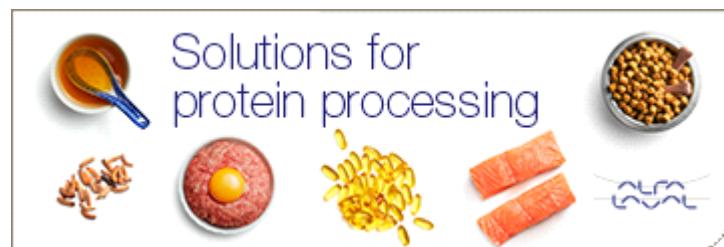
[E&S Protein Engineering Collaboration Site - Home \(sharepoint.com\)](#)

Best regards



Pablo Botija Almazán
Engineering and Industry Manager
E&S Agro & Protein Industry, BU Food Systems
Mobile: +45 27 77 84 40
pablo.botijaalmazan@alfalaval.com
Contact me on MS Lync/Communicator: <sip:pablo.botijaalmazan@alfalaval.com>

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Classified by Alfa Laval as: Business

From: Emeline Rey <emeline.rey@alfalaval.com>
Sent: 17. oktober 2022 16:01
To: Pablo Almazan <pablo.botijaalmazan@alfalaval.com>
Cc: Rahul Jagtap1 <rahul.jagtap1@alfalaval.com>; Hesam Beigy <hesam.beigy@alfalaval.com>
Subject: FW: Protein Engineering Guideline for Vessels

Dear Pablo,
Could you please give access to Rahul to the Protein Engineering Collaboration site?

Best Regards

Emeline Rey



Emeline Rey

Engineering Manager for the Mechanical Engineering & Design Team

Engineering & Supply Food Systems

Tel direct: +4539536244 - Mobile: +4527525328

emeline.rey@alfalaval.com

Contact me on Lync/Skype: <sip:emeline.rey@alfalaval.com>



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Classified by Alfa Laval as: Business

From: Rahul Jagtap1 <rahul.jagtap1@alfalaval.com>
Sent: 17. oktober 2022 15:30
To: Emeline Rey <emeline.rey@alfalaval.com>
Cc: Hesam Beigy <hesam.beigy@alfalaval.com>
Subject: RE: Protein Engineering Guideline for Vessels

Hi Emeline,

I am trying to open Protein Engineering Guideline link provided in below email. So I can refer the latest document but I don't have the access of it.

Please can you provide the access of Protein Engineering Guideline.

Thank you.

Best Regards,
Rahul Jagtap

Classified by Alfa Laval as: Business

From: Emeline Rey <emeline.rey@alfalaval.com>

Sent: 17 January 2022 04:35

To: Rahul Jagtap1 <rahul.jagtap1@alfalaval.com>

Cc: Hesam Beigy <hesam.beigy@alfalaval.com>

Subject: Protein Engineering Guideline for Vessels

Dear Raul,

For info, Protein uses this “Protein Engineering Guideline” to design their tanks. You will probably find relevant info to design the Protein vessels.

I have attached the document, in case you don't have access to the link.

 [PEG-Vessels.docx](#)

As I am not sure someone from our team has reviewed this guide, please let me know if you see something that looks strange, given your experience with EOS tanks.

Best Regards

Emeline Rey



Emeline Rey

Engineering Manager for the Mechanical Engineering & Design Team

Engineering & Supply Food Systems

Tel direct: +4539536244 - Mobile: +4527525328

emeline.rey@alfalaval.com

Contact me on Lync/Skype: <sip:emeline.rey@alfalaval.com>



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Classified by Alfa Laval as: Business

FW: SOP Agitator removal Parcitank

3. november 2022 08:26

Subject	FW: SOP Agitator removal Parcitank
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; KinHung Woo; Linus Michael; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	16. august 2022 08:58
Attachments	

FYI

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
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Classified by Alfa Laval as: Business

From: Peter Kjær <peter.kjaer@alfalaval.com>
Sent: 16. august 2022 08:57
To: Hesam Beigy <hesam.beigy@alfalaval.com>
Subject: SOP Agitator removal Parcitank

FYI

Best Regards

Peter Kjær



Peter Kjær

Senior Quality Engineer

Tel direct: +4539536499 - Mobile: +4527778792

peter.kjaer@alfalaval.com

Contact me on Lync/Skype: <sip:peter.kjaer@alfalaval.com>

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Classified by Alfa Laval as: Business

FW: WinS Solution Responsibles

3. november 2022 08:26

Subject	FW: WinS Solution Responsibles
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; KinHung Woo; Linus Michael; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	17. august 2022 11:43

FYI

Best Regards
Hesam Beigy



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Classified by Alfa Laval as: Business

From: Christian Ryo <christian.ryo@alfalaval.com>

Sent: 12. august 2022 13:34

To: Charles Martin <charles.martin@alfalaval.com>; Xindong Ye <xindong.ye@alfalaval.com>; Kailash Sharma <kailash.sharma@alfalaval.com>; Gustavo Alexandretti <Gustavo.Alexandretti@alfalaval.com>; Raul Velazquez <raul.velazquez@alfalaval.com>; Tatiana Domoratskaya <tatiana.domoratskaya@alfalaval.com>

Cc: Ling Hua <ling.hua@alfalaval.com>; Denis Hren <Denis.Hren@alfalaval.com>; Bent Sarup <bent.sarup@alfalaval.com>; Per Martinsen <per.martinsen@alfalaval.com>; Troels Bertelsen <troels.bertelsen@alfalaval.com>; Jesper Kaalbye <Jesper.Kaalbye@alfalaval.com>; Alexey Shevchenko <alexey.shevchenko@alfalaval.com>; Andrew Logan <andrew.logan@alfalaval.com>; OleOverlade Petersen <oleoverlade.petersen@alfalaval.com>; Hesam Beigy <hesam.beigy@alfalaval.com>; Jesper Jensen <jesper.jensen@alfalaval.com>
Subject: WinS Solution Responsibles

Dear All

Hope all is well in Your end ☺

Based on recent experience I hereby would like to explain the role of Solution Responsibles in relation with WinS Products and process sections.

Each E&S site is responsible for choosing and sizing the products and process sections. In case there is no knowledge or insufficient resources other E&S sites can as usual be asked for support. This support will be charged on an hourly basis. This has to be agreed with various managers. In case of doubt please contact the relevant Industry manager.

When ever a product or process section has been chosen the Project Manager call the solution responsible for a short (max. 30 minutes) clarification meeting, and the solution responsible approves hereafter the chosen solution.

But it is important to state that the overall responsibility for the solutions chosen is still with the individual Project Team at the respective site.

Please secure that this is informed to all involved in project execution.

Best Regards

Christian

Classified by Alfa Laval as: Business

Untitled

Saturday, September 28, 2024 3:51 PM

Lifting Lug for tanks-Protein and EVAP

3. november 2022 08:26

Subject	Lifting Lug for tanks-Protein and EVAP
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; KinHung Woo; Linus Michael; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Satish Jooluri; Siddharth Gujar; BHUSHAN TAPKIRE; Nitin Kuchekar; Vedanti Raut
Cc	Leticia Rydeng; Henrik Francke; Pablo Almazan; Alexander BechJorgensen; Anders Lindberg; Andreas Kyster Jorgensen; Asbjorn Binau; Claus Lund; Emeline Rey; Grete Harboe; Kirsten Nielsen; Lasse Olsen; Søren Vedsted
Sent	29. juli 2022 09:52

Dear all,

We have a C2 card for missing lifting lug on a tank-and therefore Protein Industry has now made a rule which is as follows:

Rules for adding lifting lugs on tanks/vessels (same as Evaporation use):

1. When tanks diameter is ø1000mm or larger, lifting lugs are mandatory (smaller tanks are handled by lifting in top flanges).
2. If there is no top flange, lifting lugs are also needed on tanks below ø1000mm.

So, for the new projects, please make sure that you follow this in your designs.

Best Regards
Hesam Beigy



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Case (Continuous Improvement) - To be implemented - C2-117472/2023. Tank Vendors maneuvers to load and secure the tank equipment to the platform truck (Saddles)

3. marts 2023 15:41

Subject	Case (Continuous Improvement) - To be implemented - C2-117472/2023. Tank Vendors maneuvers to load and secure the tank equipment to the platform truck (Saddles)
From	<u>System C2</u>
To	Hesam Beigy
Sent	3. marts 2023 15:35

A case (Continuous Improvement) has been registered, which might interest you.
The title is "C2-117472/2023. Tank Vendors maneuvers to load and secure the tank equipment to the platform truck (Saddles)"

If you want to read more, you can log in to [this link](#)

Link to Standard Vessel Sketches

14. marts 2023 15:03

Subject	Link to Standard Vessel Sketches
From	Hesam Beigy
To	Alexander BechJorgensen; Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu; Badrul Hisyam
Sent	14. marts 2023 15:03

Dear all,

As discussed during our meeting today, here is the link to our standard sketch whiteboard for vessel team.

keywords: Overflow-Operation Level



Best Regards
Hesam Beigy



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Technical Team Leader, E&S Food Systems
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Classified by Alfa Laval as: Business

RE: Vessel Hours-Budget and Introduction to new tool

16. marts 2023 12:20

Subject	RE: Vessel Hours-Budget and Introduction to new tool
From	Hesam Beigy
To	Alexander BechJorgensen; Amir Eslampanah; Asger Lindegaard; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Siddharth Gujar; Nicolai Christoffersen; Umesh Ubarhande; Emeline Rey; Badrul Hisyam
Cc	Jeff Yau; Christian Ryo
Sent	16. marts 2023 12:20

Dear all,

Thanks for the meeting and input.

Here is the links:

-  [Recording from meeting](#)
- [Link to the tool in QMS](#)

Best Regards
Hesam Beigy



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-----Original Appointment-----

From: Hesam Beigy

Sent: 28. februar 2023 15:35

To: Hesam Beigy; Alexander BechJorgensen; Amir Eslampanah; Asger Lindegaard; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Siddharth Gujar; Nicolai Christoffersen; Umesh Ubarhande; Emeline Rey; Badrul Hisyam

Cc: Jeff Yau; Christian Ryo

Subject: Vessel Hours-Budget and Introduction to new tool

When: 16. marts 2023 11:00-12:00 (UTC+01:00) Brussels, Copenhagen, Madrid, Paris.

Where: DKSO AH-009G Lentilly/Denmark - Soborg

Dear all,

We have now prepared a tool which shall help estimating number of hours per tank as well as giving us direction during execution to know what is our budget.

We would launch the tool during this session and would be discussing how to use it going forward.

Best regards,

Hesam

Microsoft Teams meeting

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Passcode: Ym9w5g

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Classified by Alfa Laval as: Business

RE: Compensators and ducts

17. marts 2023 09:47

Subject	RE: Compensators and ducts
From	Hesam Beigy
To	Alexander BechJorgensen; Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	17. marts 2023 09:47

Dear all,

Please be informed that compensator ordering sheet is now updated-updates are marked with green in below picture.

Note: yellow highlighted points below is optional and each project need to decide if they are needed or not.

Type 1		Type 2		Type 3		Type 4		Type 5 Inline Pressure-balanced		Type 6 Corner Pressure-balanced	
 Note: Spherical Washers on Tie Rods+double nut is needed after each spherical washer											
Deflections 											
E&S Food System Compensator DATA SHEET											
DOCUMENT No: _____ PROJECT No: _____ PROJECT NAME: _____											
REV. _____ DESCRIPTION _____ PREP _____ CHK _____ APP _____ DATE _____											
Note: Minimum Life time to be specified and must exceed 5000 cycles Combined Movement must be allowed if specified											
<small>*FFA content measured as oleic acid Documentation requirement: Type 5 Inline Pressure-balanced Dimensional drawing + part list (quotation + certified for construction) Installation, Operation & Maintenance Manual in English All tie-rods shall be calculated with Euler beam formulas for with n=1 and k=1 ($F = \pi^2 E I / (k L)^2$) - formulas can be seen in this link (minimum safety factor of 2 for calculation shall be considered for sizing tie-rod) All displacements mentioned in this table shall be considered ± Material certificates EN10204 3.1 Sanitary design is needed</small>											
Marking: All items shall be marked with the above TAG No on a stainless steel label. Drawings and datasheets shall also be marked with the TAG No Packing: Crate or woodbox for delivery by truck or sea container Any wood used for packing shall be treated in accordance with ISPM15 and the IPPC registration number must be visible.											

Best Regards
Hesam Beigy



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Classified by Alfa Laval as: Business

From: Hesam Beigy

Sent: 16. august 2022 08:18

To: Amir Eslampanah <amir.eslampanah@alfalaval.com>; Anatolii Harkusha <anatolii.harkusha@alfalaval.com>; Asger Lindegaard <asger.lindegaard@alfalaval.com>; KinHung Woo <kinhung.woo@alfalaval.com>; Linus Michael <linus.michael@alfalaval.com>; Nikhil Varghese <nikhil.varghese@alfalaval.com>; Prakash Aware <prakash.aware@alfalaval.com>; Pranay Kapse <pranay.kapse@alfalaval.com>; Rahul Jagtap1 <rahul.jagtap1@alfalaval.com>; Satish Jooluri <satish.jooluri@alfalaval.com>; Siddharth Gujar <siddharth.gujar@alfalaval.com>; Weijie Liu <weijie.liu@alfalaval.com>

Subject: Compensators and ducts

Hi all,

A short info:

- Compensators
 - o Design Guideline: [Microsoft Word - Compensator Spec PRN 2015-12-07 \(alfalaval.org\)](#)
 - o Ordering sheet:
<https://promis.alfalaval.org/qms/FWDFoodWaterDivision/FOSFoodSystems/FOSEdibleOilSystems/Shared%20Documents/Compensator%20Specification%20sheet%20Template.xlsx?d=w56d0629969c641fbbb9217fc0cb14fb>
- Duct Design Guideline: [Standard Vacuum Duct Design \(alfalaval.org\)](#)

Best Regards
Hesam Beigy



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Classified by Alfa Laval as: Business

Gums Tank-Special Instrument Connection-Welding and fabrication point

17. marts 2023 10:29

Subject	Gums Tank-Special Instrument Connection-Welding and fabrication point
From	Hesam Beigy
To	Claus Lund; Alexander BechJorgensen; Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Cc	Lars LofgrenAndersen
Sent	17. marts 2023 10:29
Attachments	     

Dear all,

For Gums tanks, I2-1 ([LIT](#)) comes with a special connection (find it [here](#) with item number 52010173), which is normally supplied by our supplier and welded to the tank.

There was an issue with ovality of this special connection. The functionality is that we want to avoid forming pocket, where gums will settle down and build up (it means that from inside the tank, by using this instrument and connection, it would be a flush surface with no pocket to allow gums settlement).

To avoid the complications, here is my suggestion:

- Drawing to refer to connection 52010173-to be part of supplier scope for purchase and delivery
- Drawing shall also mention that relevant parts below to be orders and used during welding, testing, inspection and shipping
 - o Welding dummy: 71114210 → for use during welding
 - o Blind Plug: 71181340 → for use during hydrotest
 - o Slotted Nut: 52021715 to be used during transport and inspection

Suggested to put all above items in supplier scope as well

@Claus Lund: is it possible to get a sketched symbol for this?

[Part 2] Weld-in adapter- overview Level						
	RD52	UNI D85	UNI D65	M24 D65	DRD DN50 65 mm (2.56 in) (weld-in flange)	G 1¼" with thread adapter G 1"
Material	316L (1.4435)	316L (1.4435)	316L (1.4435)	316L (1.4435)	316L (1.4435) 304 (1.4301)	316L (1.4404)
Roughness µm (µin) process side	≤ 0.8 (31.5)	≤ 0.76 (29.9)	≤ 0.76 (29.9)	≤ 0.76 (29.9)	≤ 0.76 (29.9)	≤ 0.76 (29.9)
Order number weld-in adapter	52001047 ¹⁾	52006262	214880-0002	71041381	52002041/ 916743-0000	-
Order number weld-in adapter with inspection certificate ²⁾	52006909 ¹⁾	52010173	52010174	71041383	52011899/ -	71444432
Order number for seal replacement (5 pieces) ³⁾	Silicone profile gasket 52014424	Silicone profile gasket 52023572	Silicone profile gasket 52023572	EPDM O-ring 52024267	PTFE flat seal 52024228	Silicone profile gasket 71075662
Order number welding dummy	71181945 ⁴⁾	71114210	71114210	-	71114209	-
Order number blind plug ⁴⁾	71166366	71181340	71181340	71171418	71181450	-
Slotted nut	52021715	52021715	52021715	-	-	-

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
Mobile: +45 27778777
hesam.beigy@alfalaval.com
Contact me on Teams: <sip:hesam.beigy@alfalaval.com>

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From: Hesam Beigy

Sent: 17. marts 2023 10:12

To: 'Ken Xu SHLH' <ken.xu@shlh.com.cn>; f f <fjw@pp-inspection.cn>

Cc: RichardTeles Neves <RichardTeles.Neves@alfalaval.com>; Ian Duus <ian.duus@alfalaval.com>

Subject: RE: RE: Alfa-Laval-NCR-23-001-open

Hi Ken,

Thanks for the reply. I suggest we discuss it more in detail for next time during fabrication.

Have a nice weekend.

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering

Technical Team Leader, E&S Food Systems

Mobile: +45 27778777

hesam.beigy@alfalaval.com

Contact me on Teams: <sip:hesam.beigy@alfalaval.com>

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Classified by Alfa Laval as: Business

From: Ken Xu SHLH <ken.xu@shlh.com.cn>

Sent: 17. marts 2023 09:40

To: f f <fjw@pp-inspection.cn>; Hesam Beigy <hesam.beigy@alfalaval.com>

Cc: RichardTeles Neves <RichardTeles.Neves@alfalaval.com>; Ian Duus <ian.duus@alfalaval.com>

Subject: 答复: RE: Alfa-Laval-NCR-23-001-open

CAUTION. This e-mail originated from outside of Alfa Laval. Please be mindful of attachments and links.
Hi Hesam,

Actually this kind of weld-in adapter is always supplied by Alfa Laval and LH do welding.

To improve ovality, we suggest the people in the jobsite use cooper rod and wooden hammer: put the cooper rod in the hole and use hammer to knock the screw around.

Cheers, Ken

发件人: fjw@pp-inspection.cn <fjw@pp-inspection.cn>

发送时间: 2023年3月17日 9:59

收件人: Hesam Beigy <hesam.beigy@alfalaval.com>

抄送: Ken Xu SHLH <ken.xu@shlh.com.cn>; RichardTeles Neves

<richardteles.neves@alfalaval.com>; Ian Duus <ian.duus@alfalaval.com>

主题: Re: RE: Alfa-Laval-NCR-23-001-open

Dear Hesam

we do not have a nut matching this special thread to check ovality in AD0572-St1. @Ken pls confirm the drawing requirement of material used.

Best Regards

Michael Feng

Mobile:13584192423

[Http://www.pp-inspection.cn](http://www.pp-inspection.cn)

===== 2023-03-15 21:03:03 hesam.beigy@alfalaval.com write in: =====

----- Source-email -----

Subject: RE: Alfa-Laval-NCR-23-001-open

From: Hesam Beigy <hesam.beigy@alfalaval.com>

Date: Wed, March 15, 2023 9:51 pm

To: Ken Xu SHLH <ken.xu@shlh.com.cn>; Michael Feng <fjw@pp-inspection.cn>

CC: RichardTeles Neves <richardteles.neves@alfalaval.com>; Ian Duus <ian.duus@alfalaval.com>

Dear Ken and Michael,

For AD0572-St1 project, we got a claim from customer claiming the ovality of an instrument nozzle.

I see that in our checklist "19B41(20048-3) update to 2021-W8" the ovality is checked, could you please explain how the ovality check has been done? Do you have a nut matching this special thread or do you use the welding dummy to check ovality? Could you also confirm that the material used for this adaptor as specified on the drawing? The item is missing on the material list.

Thanks.

Best Regards

Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
Mobile: +45 27778777
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RE: Gums Tank-Special Instrument Connection-Welding and fabrication point

21. marts 2023 12:30

Subject	RE: Gums Tank-Special Instrument Connection-Welding and fabrication point
From	Hesam Beigy
To	Claus Lund; Alexander BechJorgensen; Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Cc	Lars LofgrenAndersen
Sent	21. marts 2023 12:30

Hi all,

Link has been corrected. Please use this mail with corrected link. Apologize for inconveniences.

Here is the item numbers (was not part of original mail sent out)

No	Name	Qty	Item No
1	welding adaptor UNID85: 52010173	1	9680275773
2	Welding dummy: 71114210	1	9680275775
3	Blind Plug:71181340	1	9680275776
4	Slotted Nutt 52021715	1	9680275777

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
Mobile: +45 27778777
hesam.beigy@alfalaval.com
Contact me on Teams: <sip:hesam.beigy@alfalaval.com>

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Classified by Alfa Laval as: Business

From: Claus Lund <claus.lund@alfalaval.com>

Sent: 21. marts 2023 08:38

To: Hesam Beigy <hesam.beigy@alfalaval.com>; Alexander BechJorgensen <Alexander.BechJorgensen@alfalaval.com>; Amir Eslampanah <Amir.Eslampanah@alfalaval.com>; Anatolii Harkusha <Anatolii.Harkusha@alfalaval.com>; Asger Lindegaard <asger.lindegaard@alfalaval.com>; Badrul Hisyam <Badrul.Hisyam@alfalaval.com>; KinHung Woo <kinhung.woo@alfalaval.com>; Linus Michael <Linus.Michael@alfalaval.com>; Nicolas Nethol <Nicolas.Nethol@alfalaval.com>; Nikhil Varghese <Nikhil.Varghese@alfalaval.com>; Prakash Aware <Prakash.Aware@alfalaval.com>; Pranay Kapse <Pranay.Kapse@alfalaval.com>; Rahul Jagtap1 <rahul.jagtap1@alfalaval.com>; Reza Mahmoudpour <reza.mahmoudpour@alfalaval.com>; Satish Jooluri <Satish.Jooluri@alfalaval.com>; Siddharth Gujar <Siddharth.Gujar@alfalaval.com>; Weijie Liu <Weijie.Liu@alfalaval.com>

Cc: Lars LofgrenAndersen <lars.lofgrenandersen@alfalaval.com>

Subject: RE: Gums Tank-Special Instrument Connection-Welding and fabrication point

Hi Hesam

I am still getting this when I try to open the link 😞

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[Download a compatible PDF reader.](#)

This PDF Document has been protected.

The reader you are using does not support opening files protected by Microsoft Office

/ Claus

Classified by Alfa Laval as: Business

From: Hesam Beigy hesam.beigy@alfalaval.com

Sent: 17. marts 2023 10:30

To: Claus Lund <claus.lund@alfalaval.com>; Alexander BechJorgensen <Alexander.BechJorgensen@alfalaval.com>; Amir Eslampanah <Amir.Eslampanah@alfalaval.com>; Anatolii Harkusha <Anatolii.Harkusha@alfalaval.com>; Asger Lindegaard <asger.lindegaard@alfalaval.com>; Badrul Hisyam <Badrul.Hisyam@alfalaval.com>; KinHung Woo <kinhung.woo@alfalaval.com>; Linus Michael <Linus.Michael@alfalaval.com>; Nicolas Nethol <Nicolas.Nethol@alfalaval.com>; Nikhil Varghese <Nikhil.Varghese@alfalaval.com>; Prakash Aware <Prakash.Aware@alfalaval.com>; Pranay Kapse <Pranay.Kapse@alfalaval.com>; Rahul Jagtap1 <rahul.jagtap1@alfalaval.com>; Reza Mahmoudpour <reza.mahmoudpour@alfalaval.com>; Satish Jooluri <Satish.Jooluri@alfalaval.com>; Siddharth Gujar <Siddharth.Gujar@alfalaval.com>; Weijie Liu <Weijie.Liu@alfalaval.com>

Cc: Lars LofgrenAndersen <lars.lofgrenandersen@alfalaval.com>

Subject: Gums Tank-Special Instrument Connection-Welding and fabrication point

Dear all,

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[PDF](#)

[here](#)with item number 52010173), which is normally supplied by our supplier and welded to the tank.

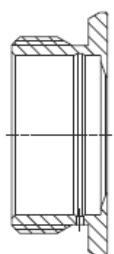
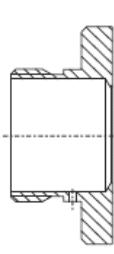
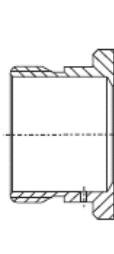
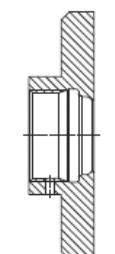
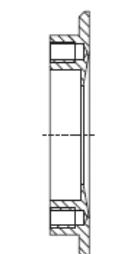
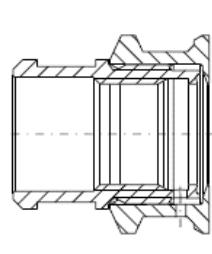
There was an issue with ovality of this special connection. The functionality is that we want to avoid forming pocket, where gums will settle down and build up (it means that from inside the tank, by using this instrument and connection, it would be a flush surface with no pocket to allow gums settlement).

To avoid the complications, here is my suggestion:

- Drawing to refer to connection 52010173-to be part of supplier scope for purchase and delivery
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 - o Welding dummy: 71114210 → for use during welding
 - o Blind Plug: 71181340 → for use during hydrotest
 - o Slotted Nut: 52021715 to be used during transport and inspection

Suggested to put all above items in supplier scope as well

[@Claus Lund](#): is it possible to get a sketched symbol for this?

[Part 2] Weld-in adapter- overview Level						
	 A0008252	 A0008245	 A0017639	 A0008552	 A0008254	 A045641
Material	316L (1.4435)	316L (1.4435)	316L (1.4435)	316L (1.4435)	316L (1.4435) 304 (1.4301)	316L (1.4404)
Roughness µm (µin) process side	≤ 0,8 (31.5)	≤ 0,76 (29.9)	≤ 0,76 (29.9)	≤ 0,76 (29.9)	≤ 0,76 (29.9)	≤ 0,76 (29.9)
Order number weld-in adapter	52001047 ¹⁾	52006262	214880-0002	71041381	52002041/ 916743-0000	-
Order number weld-in adapter with inspection certificate ²⁾	52006909 ¹⁾	52010173	52010174	71041383	52011899/-	71444432
Order number for seal replacement (5 pieces) ³⁾	Silicone profile gasket 52014424	Silicone profile gasket 52023572	Silicone profile gasket 52023572	EPDM O-ring 52024267	PTFE flat seal 52024228	Silicone profile gasket 71075662
Order number welding dummy	71181945 ⁴⁾	71114210	71114210	-	71114209	-
Order number blind plug ⁴⁾	71166366	71181340	71181340	71171418	71181450	-
Slotted nut	52021715	52021715	52021715	-	-	-

Best Regards

Hesam Beigy



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Technical Team Leader, E&S Food Systems
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From: Hesam Beigy
Sent: 17. marts 2023 10:12
To: 'Ken Xu SHLH' <ken.xu@shlh.com.cn>; ff <fjw@pp-inspection.cn>
Cc: RichardTeles Neves <RichardTeles.Neves@alfalaval.com>; Ian Duus <ian.duus@alfalaval.com>
Subject: RE: RE: Alfa-Laval-NCR-23-001-open

Hi Ken,

Thanks for the reply. I suggest we discuss it more in detail for next time during fabrication.

Have a nice weekend.

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
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From: Ken Xu SHLH <ken.xu@shlh.com.cn>
Sent: 17. marts 2023 09:40
To: f f <fjw@pp-inspection.cn>; Hesam Beigy <hesam.beigy@alfalaval.com>
Cc: RichardTeles Neves <RichardTeles.Neves@alfalaval.com>; Ian Duus <ian.duus@alfalaval.com>
Subject: 答复: RE: Alfa-Laval-NCR-23-001-open

CAUTION. This e-mail originated from outside of Alfa Laval. Please be mindful of attachments and links.
Hi Hesam,

Actually this kind of weld-in adapter is always supplied by Alfa Laval and LH do welding.

To improve ovality, we suggest the people in the jobsite use cooper rod and wooden hammer: put the cooper rod in the hole and use hammer to knock the screw around.

Cheers, Ken

发件人: fjw@pp-inspection.cn <fjw@pp-inspection.cn>
发送时间: 2023年3月17日 9:59
收件人: Hesam Beigy <hesam.beigy@alfalaval.com>
抄送: Ken Xu SHLH <ken.xu@shlh.com.cn>; RichardTeles Neves <richardteles.neves@alfalaval.com>; Ian Duus <ian.duus@alfalaval.com>
主题: Re: RE: Alfa-Laval-NCR-23-001-open

Dear Hesam
we do not have a nut matching this special thread to check ovality in AD0572-St1. @Ken pls confirm the drawing requirement of material used.

Best Regards
Michael Feng
Mobile:13584192423
[Http://www.pp-inspection.cn](http://www.pp-inspection.cn)

===== 2023-03-15 21:03:03 hesam.beigy@alfalaval.com write in: =====

----- Source-email -----
Subject: RE: Alfa-Laval-NCR-23-001-open
From: Hesam Beigy <hesam.beigy@alfalaval.com>
Date: Wed, March 15, 2023 9:51 pm
To: Ken Xu SHLH <ken.xu@shlh.com.cn>; Michael Feng <fjw@pp-inspection.cn>
CC: RichardTeles Neves <richardteles.neves@alfalaval.com>; Ian Duus <ian.duus@alfalaval.com>

Dear Ken and Michael,

For AD0572-St1 project, we got a claim from customer claiming the ovality of an instrument nozzle.

I see that in our checklist "19B41(20048-3) update to 2021-W8" the ovality is checked, could you please explain how the ovality check has been done? Do you have a nut matching this special thread or do you use the welding dummy to check ovality? Could you also confirm that the material used for this adaptor as specified on the drawing? The item is missing on the material list.

Thanks.

Best Regards
Hesam Beigy



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Technical Team Leader, E&S Food Systems
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RE: Vessel Hours-budget estimate-Recorded Video

23. marts 2023 09:34

Subject	RE: Vessel Hours-budget estimate-Recorded Video
From	Hesam Beigy
To	Alexander BechJorgensen; Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Cc	Emeline Rey
Sent	23. marts 2023 09:34

Hi again all,

We used the tool and made an estimate for 1st project: Shell Peri.

Session is also recorded and placed in our training Video folder.

You can find the recording



[here](#).

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
Mobile: +45 27778777
hesam.beigy@alfalaval.com
Contact me on Teams: <sip:hesam.beigy@alfalaval.com>

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Classified by Alfa Laval as: Business

From: Hesam Beigy

Sent: 31. januar 2023 15:09

To: Alexander BechJorgensen <Alexander.BechJorgensen@alfalaval.com>; Amir Eslampanah <amir.eslampanah@alfalaval.com>; Anatolii Harkusha <anatolii.harkusha@alfalaval.com>; Asger Lindegaard <asger.lindegaard@alfalaval.com>; KinHung Woo <kinhung.woo@alfalaval.com>; Linus Michael <linus.michael@alfalaval.com>; Nicolas Nethol <nicolas.nethol@alfalaval.com>; Nikhil Varghese <nikhil.varghese@alfalaval.com>; Prakash Aware <prakash.aware@alfalaval.com>; Pranay Kapse <pranay.kapse@alfalaval.com>; Rahul Jagtap1 <rahul.jagtap1@alfalaval.com>; Reza Mahmoudpour <Reza.Mahmoudpour@alfalaval.com>; Satish Jooluri <satish.jooluri@alfalaval.com>; Siddharth Gujar <siddharth.gujar@alfalaval.com>; Weijie Liu <weijie.liu@alfalaval.com>

Cc: Emeline Rey <emeline.rey@alfalaval.com>

Subject: Vessel Hours-budget estimate-Recorded Video

Dear all,

During our technical meeting today, we did record the section for the vessel hours estimate, you can find the video of this recording in our share page.

[Link to the page with various recorded Videos](#)



[Direct link to the video](#)

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
Mobile: +45 27778777
hesam.beigy@alfalaval.com
Contact me on Teams: <sip:hesam.beigy@alfalaval.com>

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CONICAL TRANSITIONS: ASME SECTION VIII, DIVISION 1 WAY

27. marts 2023 08:32

Subject	CONICAL TRANSITIONS: ASME SECTION VIII, DIVISION 1 WAY
From	Hesam Beigy
To	Alexander BechJorgensen; Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	27. marts 2023 08:32
Attachments	

Hi All,

An interesting read for conical transition and explanation on how ASME looks at it.

[\(3\) CONICAL TRANSITIONS: ASME SECTION VIII, DIVISION 1 WAY | LinkedIn](#)

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
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Nut Locking Systems-Comparison Study (by Nord-lock)

11. april 2023 08:27

Subject	Nut Locking Systems-Comparison Study (by Nord-lock)
From	Hesam Beigy
To	Alexander BechJorgensen; Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	11. april 2023 08:23

Hi all,

I found a nice video which does the comparison of various lock system for nuts. It gives us a very good idea when we have need of it.

Get popcorn and watch the



[movie](#) 😊

(Movie is now uploaded to our Vessel library)

Best Regards
Hesam Beigy



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Vacuum Duct Design-Standard Thicknesses and Compensator Specifications

11. april 2023 08:31

Subject	Vacuum Duct Design-Standard Thicknesses and Compensator Specifications
From	Hesam Beigy
To	Alexander BechJorgensen; Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Cc	Umesh Ubarhande
Sent	11. april 2023 08:31

Hi all,

I realized that not all of you might be aware that we have a standard document or duct design, when we need to specify duct routing and thicknesses.

We have 2 main valuable documents, which in the beginning might look very complicated, but, after using them couple of times, hope it is much easier to use:

- [!\[\]\(71d479f2e06bd79f0763382fa47cf34c_img.jpg\) Standard Duct Element Thickness](#)
- [!\[\]\(30b4d89f9c3473cfcf4e3d8dbe7ba294_img.jpg\) Compensator Specification](#)

It might be that we need some sort of training for these documents, so, in case you feel that is necessary, please let me know.

Best Regards
Hesam Beigy



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Classified by Alfa Laval as: Business

Vacuum Duct Design-Standard Thicknesses and Compensator Specifications

11. april 2023 10:25

Subject	Vacuum Duct Design-Standard Thicknesses and Compensator Specifications
From	Hesam Beigy
To	Alexander BechJorgensen; Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Cc	Umesh Ubarhande
Sent	11. april 2023 08:31

Hi all,

I realized that not all of you might be aware that we have a standard document or duct design, when we need to specify duct routing and thicknesses.

We have 2 main valuable documents, which in the beginning might look very complicated, but, after using them couple of times, hope it is much easier to use:

- [!\[\]\(253980b602a8b1120b4cf14df200f151_img.jpg\) Standard Duct Element Thickness](#)
- [!\[\]\(d91ac67f3b43281cb14ff977b0e760b7_img.jpg\) Compensator Specification](#)

It might be that we need some sort of training for these documents, so, in case you feel that is necessary, please let me know.

Best Regards
Hesam Beigy



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Gasket Calculation Tools

11. april 2023 11:46

Subject	Gasket Calculation Tools
From	Hesam Beigy
To	Alexander BechJorgensen; Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	11. april 2023 11:45

Dear all,

FYI-we have 2 gasket calculation tools:

- [Klinger](#)
- [DONIT](#)

Depending on which supplier you will be using, you can calculate the gasket using one of these 2 tools.

As far as I remember, you need to be registered as a user, to be able to use either of tools, but registration is free of charge. So, you can go ahead and register with your AL email address 😊

Best Regards
Hesam Beigy



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From: Donit Tesnit, d.o.o. <info@donit.eu>
Sent: 11. april 2023 11:39
To: Hesam Beigy <hesam.beigy@alfalaval.com>
Subject: DON PRO Users Notice

CAUTION. This e-mail originated from outside of Alfa Laval. Please be mindful of attachments and links.



Headquarters, 11 April 2023

Dear 'DON PRO® Calculator' user,

We are proud to provide you with an updated version of our DON PRO® Calculator comprising new features.
On April 17, 2023, the previous version will be discontinued. Please make sure to save your already done calculations using the old version, as this data will no longer be accessible from this date.

The new DON PRO® feature enables you to perform calculations without registration, unless you are interested in saving or printing your calculations, then registration is required. Already registered users need to reset the password before first log in.

We hope you find the new version useful.

For any questions, please do not hesitate to contact us at donpro@donit.eu.

Sincerely,

DONIT Team



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You can [update your preferences](#) or [unsubscribe from this list](#).

Top Mounted Agitators-runouts-good to know

14. april 2023 15:19

Subject	Top Mounted Agitators-runouts-good to know
From	Hesam Beigy
To	Alexander Bechjorgensen; Amir Eslampanah; Anatoli Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	14. april 2023 15:19

FYI

Best Regards
Hesam Beigy



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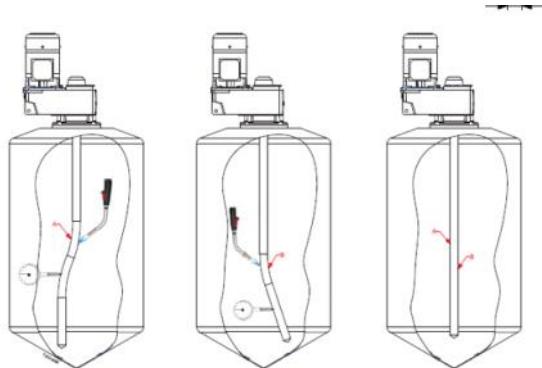
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From: Poul Gaardsted <poul.gaardsted@alfalaval.com>
Sent: 14. april 2023 14:55
To: Nikhil Varghese <Nikhil.Varghese@alfalaval.com>
Cc: Hesam Beigy <hesam.beigy@alfalaval.com>; Rasmus Hansen <rasmus.hansen1@alfalaval.com>
Subject: RE: PTU. Top Mounted Agitators

Hi Nikhil,

To align the shaft, you need to use heat, like described in the instruction manual:



After propellers has been welded onto the shaft and / or two shaft parts has been welded together - the shaft must be aligned. If the shafts has been welded according to Alfa Laval's recommendations shown below - the required alignment will be very little as the amount of introduced heat to the shaft is minimized and due to the fact that all shafts has been aligned before delivery from Alfa Laval.

"All-weld shaft connections and propellers to shaft with one welding seam at a time, cool with air and continue with one welding until welding is according to illustration. Use welding procedures which introduce as less heat, tension and bending to the shaft as possible."

Required tool:
1. A gas-welding torch supplied with a mixture of Acetylene and Oxygen gas.
2. A dial indicator.

It is difficult to say if 13 mm at all is problematic – it very much depends on how the shaft is deformed.

We are at the moment starting up a project to make a simulation model for these shaft runouts in order to find the limit for any configuration and speed of an agitator – but that does not help you in this case.

At the operating speed (31 RPM) for this agitator I actually do not think it will be a problem, but it will of course depend on the stiffness of the tank construction. So I would assess this by operating the agitator with an empty tank and then look if the vibration level at the top of the tank is at a adequate level. During operation with media the forces from the flow pattern in the tank will introduce larger runout than the 13 mm.

Best Regards
Poul Rom Gaardsted



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Product Manager, Cleaning & Mixing, Product Management Fluid Handling
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From: Nikhil Varghese <Nikhil.Varghese@alfalaval.com>
Sent: 14. april 2023 12:53
To: Poul Gaardsted <poul.gaardsted@alfalaval.com>
Cc: Hesam Beigy <hesam.beigy@alfalaval.com>; Rasmus Hansen <rasmus.hansen1@alfalaval.com>
Subject: RE: PTU. Top Mounted Agitators

Hello Poul,
Thank you for your response.

If you could suggest how we can manage the 13mm deviation – that would be helpful. Such as – next steps or if this can be acceptable.

Best Regards,
Nikhil Varghese



Nikhil Varghese
Design Engineer
Mobile: +45 27778411
nikhil.varghese@alfalaval.com

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Solutions for food and beverage processing



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From: Poul Gaardsted <poul.gaardsted@alfalaval.com>
Sent: 14. april 2023 10:36
To: Nikhil Varghese <Nikhil.Varghese@alfalaval.com>
Cc: Hesam Beigy <hesam.beigy@alfalaval.com>; Rasmus Hansen <rasmus.hansen1@alfalaval.com>
Subject: RE: PTU. Top Mounted Agitators

Hi Nikhil,

The shaft has been aligned/straightened from factory – and since all the attachments are “none welded” the shaft should not have lost its straightness unless something has happened to the shaft parts during assembly!

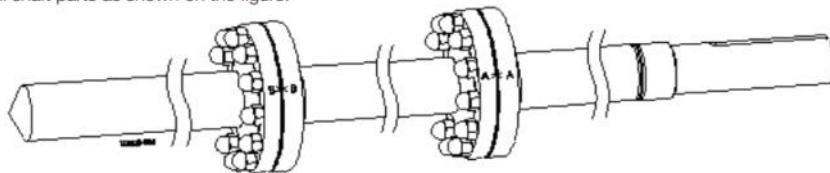
The agitator is configured with two flange couplings – are you sure that the shaft parts have been assembled correctly according to the markings (see below snag from the instruction manual) – A to A and B to B.

If that has not been done it can explain the misalignment!

Step 7

(Only when shaft is divided)

Assemble all shaft parts as shown on the figure.



Best Regards

Poul Rom Gaardsted



Poul Rom Gaardsted, M.Sc.

Product Manager, Cleaning & Mixing, Product Management Fluid Handling

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From: Nikhil Varghese <Nikhil.Varghese@alfalaval.com>

Sent: 14. april 2023 09:45

To: Poul Gaardsted <poul.gaardsted@alfalaval.com>

Cc: Hesam Beigy <hesam.beigy@alfalaval.com>

Subject: FW: PTU. Top Mounted Agitators

Hello Poul,

FYI,

Below you can find the history as we spoke.

Please do let me know how to proceed on this.

Thank you

Best Regards,
Nikhil Varghese



Nikhil Varghese
Design Engineer
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From: Hesam Beigy <hesam.beigy@alfalaval.com>

Sent: 12. april 2023 15:18

To: Rasmus Hansen <rasmus.hansen1@alfalaval.com>

Cc: RichardTeles Neves <RichardTeles.Neves@alfalaval.com>; Sameer Pethkar <Sameer.Pethkar@alfalaval.com>; Nikhil Varghese <Nikhil.Varghese@alfalaval.com>; Reza Mahmoudpour <reza.mahmoudpour@alfalaval.com>

Subject: RE: PTU. Top Mounted Agitators

Hi Rasmus,

For the same project that you have been in contact with Nikhil from our team, we have one agitator without bottom support and during installation of that, customer is facing 13mm reading of shaft alignment as per section 6.7 of the manual (see below). Do you think this would be an issue to run the agitator with that 13mm given that there is no bottom support? If it is not acceptable, do you have any suggestion how this could be fixed?

Thanks.

Quotation Ref: 20200250 Position No. 05e Revision A Tank Reference TM-2108A_26R03AG01 - 33m3		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Item</th> <th>ALSiS Code</th> <th>Model/Size</th> <th>Item No.</th> </tr> <tr> <td>Top, center mounted agitator, ALT</td> <td>5505</td> <td>EnSaOil</td> <td>9618022579</td> </tr> <tr> <td>Welding flange</td> <td>5508</td> <td>N/A</td> <td>N/A</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Price Specification</th> <th>Quantity</th> <th>PPL Per Unit</th> <th>Discount %</th> <th>PPL EUR Total</th> </tr> <tr> <td>Agitator(s)</td> <td>1</td> <td>62206</td> <td>0</td> <td>62206</td> </tr> <tr> <td>Welding flange</td> <td>0</td> <td>0</td> <td>0</td> <td>0,0</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="4">Agitator Construction</th> </tr> <tr> <td>Agitator code</td> <td colspan="3">ALT-ME-GP-90L-DC-57400-3E150002G</td> </tr> <tr> <td>Datasheet ref.</td> <td colspan="3">9618022579, 20200250A05e</td> </tr> <tr> <td>No. of impellers</td> <td colspan="3">3</td> </tr> <tr> <td>Impeller diameter [mm]</td> <td colspan="3">1500</td> </tr> <tr> <td>Thrust direction</td> <td colspan="3">Down</td> </tr> <tr> <td>No. of impeller blades</td> <td colspan="3">2</td> </tr> <tr> <td>Impeller mounting</td> <td colspan="3">Bored, 4 pointed screws</td> </tr> <tr> <td>Low level impeller</td> <td colspan="3">No</td> </tr> <tr> <td>Oil or fluid trap</td> <td colspan="3">Yes</td> </tr> <tr> <td>Bottom support type</td> <td colspan="3">-</td> </tr> <tr> <td>Wear sleeve on shaft</td> <td colspan="3">No</td> </tr> <tr> <td>Intermediate support(s)</td> <td colspan="3">No</td> </tr> <tr> <td>Bearing frame</td> <td colspan="3">No</td> </tr> <tr> <td>Lantern</td> <td colspan="3">Yes</td> </tr> <tr> <td>Shaft length [mm]</td> <td colspan="3">7400</td> </tr> <tr> <td>Shaft seal type</td> <td colspan="3">DC</td> </tr> <tr> <td>Flushing required</td> <td colspan="3">Yes</td> </tr> <tr> <td>Seal face materials</td> <td colspan="3">C/SiC C/SiC</td> </tr> <tr> <td>Elastomers (seals)</td> <td colspan="3">FPM</td> </tr> <tr> <td>Elastomers (stationary)</td> <td colspan="3">FEP</td> </tr> <tr> <td>Seal construction</td> <td colspan="3">Double mechanical</td> </tr> <tr> <td>Dry running capability</td> <td colspan="3">No</td> </tr> <tr> <td>Number of shaft divisions</td> <td colspan="3">2</td> </tr> <tr> <td>Coupling Type</td> <td colspan="3">Flange coupling</td> </tr> <tr> <td>Mounting angle [°]</td> <td colspan="3">180</td> </tr> <tr> <td>Steel parts inside tank</td> <td colspan="3">1.4404</td> </tr> <tr> <td>Steel parts outside tank</td> <td colspan="3">1.4301</td> </tr> <tr> <td>Surface treatment inside</td> <td colspan="3">Shot Peened</td> </tr> <tr> <td>Surface finish inside Ra [µm]</td> <td colspan="3">Ra<3.2</td> </tr> <tr> <td colspan="4">Forces and torques applied to the mounting flange at momentary locking of the propeller</td> </tr> <tr> <td>Torque Mv [Nm]:</td> <td colspan="3">1371</td> </tr> <tr> <td>Bending torque Mb [Nm]:</td> <td colspan="3">12336</td> </tr> <tr> <td>Side thrust Fs [N]:</td> <td colspan="3">1645</td> </tr> <tr> <td>Thrust, propeller Fa [N]:</td> <td colspan="3">239</td> </tr> <tr> <td>Critical speed [rpm]:</td> <td colspan="3">53</td> </tr> </table> <div style="text-align: center; margin-top: 10px;">  </div> <div style="position: absolute; left: 290px; top: 640px;">  </div>	Item	ALSiS Code	Model/Size	Item No.	Top, center mounted agitator, ALT	5505	EnSaOil	9618022579	Welding flange	5508	N/A	N/A	Price Specification	Quantity	PPL Per Unit	Discount %	PPL EUR Total	Agitator(s)	1	62206	0	62206	Welding flange	0	0	0	0,0	Agitator Construction				Agitator code	ALT-ME-GP-90L-DC-57400-3E150002G			Datasheet ref.	9618022579, 20200250A05e			No. of impellers	3			Impeller diameter [mm]	1500			Thrust direction	Down			No. of impeller blades	2			Impeller mounting	Bored, 4 pointed screws			Low level impeller	No			Oil or fluid trap	Yes			Bottom support type	-			Wear sleeve on shaft	No			Intermediate support(s)	No			Bearing frame	No			Lantern	Yes			Shaft length [mm]	7400			Shaft seal type	DC			Flushing required	Yes			Seal face materials	C/SiC C/SiC			Elastomers (seals)	FPM			Elastomers (stationary)	FEP			Seal construction	Double mechanical			Dry running capability	No			Number of shaft divisions	2			Coupling Type	Flange coupling			Mounting angle [°]	180			Steel parts inside tank	1.4404			Steel parts outside tank	1.4301			Surface treatment inside	Shot Peened			Surface finish inside Ra [µm]	Ra<3.2			Forces and torques applied to the mounting flange at momentary locking of the propeller				Torque Mv [Nm]:	1371			Bending torque Mb [Nm]:	12336			Side thrust Fs [N]:	1645			Thrust, propeller Fa [N]:	239			Critical speed [rpm]:	53			<table border="1" style="width: 100%; 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UH1 6)</td> <td>Yes</td> <td>PTC Thermistors</td> <td>Yes</td> </tr> <tr> <td>SS Drive unit cover</td> <td>No</td> <td>Enclosure, IP</td> <td>55</td> </tr> <tr> <td>Corrosion class acc. to EN 12944</td> <td>C2</td> <td>Paint specification</td> <td>Ral5010 Blue</td> </tr> <tr> <td>Rain hat</td> <td>No</td> <td>Operation hours/day</td> <td>24</td> </tr> <tr> <td>Ex protection, motor only</td> <td>No</td> <td>Motor classification</td> <td>-</td> </tr> <tr> <td>Frequency convertible</td> <td>Yes</td> <td>Comments</td> <td>-</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="4">Documentation</th> </tr> <tr> <td>PED approval incl.</td> <td>No</td> <td>Manual, language</td> <td>English as std.</td> </tr> <tr> <td>Documentation, Package</td> <td>Industrial B</td> <td>ATEX, Agitator</td> <td>Ex zone inside/outside None Temp. class None Zone classification None Group None</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="4">Vessel Data</th> </tr> <tr> <td>Shell height [mm]</td> <td>7000</td> <td>Tank Diameter [mm]</td> <td>2800</td> </tr> <tr> <td>Top construction</td> <td>Dome</td> <td>Tank bottom construction</td> <td>Dome</td> </tr> <tr> <td>Max. 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Design pressure [barg]	atm	Design temperature, max. [°C]	90																																																																																																																																																																																																																																																																																																																																																			
Agitator position	Top, center	Number of baffles	4																																																																																																																																																																																																																																																																																																																																																			
Media Data																																																																																																																																																																																																																																																																																																																																																						
Media name	Bleaching earth Tonsil Optimum 210 FF	Temperature [°C]	0 - 90																																																																																																																																																																																																																																																																																																																																																			
Media properties	0	Viscosity [cP] / shear rate [1/s]	7 / Any																																																																																																																																																																																																																																																																																																																																																			
Solids conc. (weight %)	2	Density [kg/l]	0,82																																																																																																																																																																																																																																																																																																																																																			
		Deposit velocity [m/s]	-																																																																																																																																																																																																																																																																																																																																																			
Duties																																																																																																																																																																																																																																																																																																																																																						
Maintain media homogenous	Yes	Liquid - liquid blending	No																																																																																																																																																																																																																																																																																																																																																			
Maintain particle suspension	Yes	Dispersion of particles	No																																																																																																																																																																																																																																																																																																																																																			
Create particle suspension	Yes	Break coagulum	No																																																																																																																																																																																																																																																																																																																																																			
Powder mixing	No	Is in-line mixer used?	No																																																																																																																																																																																																																																																																																																																																																			
Emulsifying	No	Maintain temperature constant	No																																																																																																																																																																																																																																																																																																																																																			
Heat transfer, heating	No	Heat transfer, Cooling	No																																																																																																																																																																																																																																																																																																																																																			
Other description	-																																																																																																																																																																																																																																																																																																																																																					
Comments	-																																																																																																																																																																																																																																																																																																																																																					
Process Information																																																																																																																																																																																																																																																																																																																																																						
Nominal speed [rpm]	31	Tip Speed [m/s]	2,5																																																																																																																																																																																																																																																																																																																																																			
Intensity [m/min]:	8.8	Tank turn over: [min⁻¹]:	3.3																																																																																																																																																																																																																																																																																																																																																			
Pumping Capacity [m³/min]	108.1	Annulus speed at 1 impeller [m/s]	0.137																																																																																																																																																																																																																																																																																																																																																			
Actual Power Draw [kW]:	0.40																																																																																																																																																																																																																																																																																																																																																					

Quotation Ref:	Position No.	Revision	Tank Reference
20200250	05e	A	TM-2108A_26R03AG01 - 33m3
Dimensional Information			
M1 [mm]	923		
M2 [mm]	655		
M3 [mm]	417		
M4 [mm]			
S [mm]	7400		
S1 [mm]			
S2 [mm]	900		
S3 [mm]	1300		
S4 [mm]			
S5 [mm]			
S6 [mm]			
S7 [mm]			
S8 [mm]			
S9 [mm]			
S10 [mm]			
D [mm]	90		
P [mm]	1500		
P [mm] Low Level			
F [mm]	395		
BC [mm]	350		
n [pcs]	12		
H [mm]	22		
SD1 [mm]	3500		
SD2 [mm]	3500		
SD3 [mm]			
ISB1 [mm]			
ISB2 [mm]			
ISB3 [mm]			
Weight [kg]	872.9		
Off center distance	0		
Mounting angle	180°		
Bottom angle	0°		
Min.	30		
K [mm]	211		
Ix [mm]	+0 -25		
Y-dim [mm]	8155 +9999 -5		

Minimum manhole size required to enter the impeller (increased frame height requires increased diameter)
Not calculated for 2-bladed impellers

Comments:
-

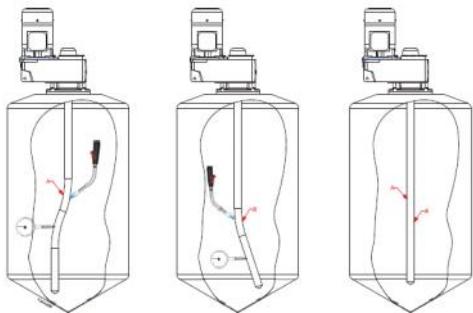
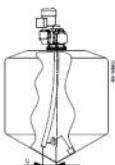
6 Technical Data

All dimensions in mm unless otherwise stated.

6.7 Shaft alignment

Shaft to be aligned in bearing frame or in gear motor.

RPM up to:	50	100	500	1000	2800
U (max radial tolerance, ALT)	0.4	0.3	0.2	0.1	0.05
U (max radial tolerance, ALTB)	2.0	1.5	1.0		



After propellers has been welded onto the shaft and / or two shaft parts has been welded together - the shaft must be aligned. If the shafts has been welded according to Alfa Laval's recommendations shown below - the required alignment will be very little as the amount of introduced heat to the shaft is minimized and due to the fact that all shafts has been aligned before delivery from Alfa Laval.

"All-weld shaft connections and propellers to shaft with one welding seam at a time, cool with air and continue with one welding until welding is according to illustration. Use welding procedures which introduce as less heat, tension and bending to the shaft as possible."

Required tool:

1. A gas-welding torch supplied with a mixture of Acetylene and Oxygen gas.
2. A dial indicator.

Best Regards
Hesam Beigy



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Classified by Alfa Laval as: Business

From: Hesam Beigy
Sent: 6. april 2023 11:03
To: Patrik A. Johansson <patrik.johansson@eurocon.se>
Cc: RichardTeles Neves <RichardTeles.Neves@alfalaval.com>; Sameer Pethkar <Sameer.Pethkar@alfalaval.com>; Niklas Gustafsson <Niklas.Gustafsson@st1.com>; Henrik Aronsson <Henrik.Aronsson@st1.com>
Subject: RE: PTU. Top Mounted Agitators

Hello Patrik,

Thanks for your patience. We are on holidays and therefore delay in response.

Could you please tell what is the 13mm nature? The agitator without bottom support shall not have normally such deviations, since the shaft is delivered balanced. Normally, when the shaft is balanced, and is placed vertically inside the tank, then there shall not be any big un-balance readings.

I will check meanwhile if we have any specific requirements for the shafts without bottom support.

Thanks.

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
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Classified by Alfa Laval as: Business

From: Patrik A. Johansson <patrik.johansson@eurocon.se>
Sent: 5. april 2023 18:17
To: Hesam Beigy <hesam.beigy@alfalaval.com>
Cc: RichardTeles Neves <RichardTeles.Neves@alfalaval.com>; Sameer Pethkar <Sameer.Pethkar@alfalaval.com>; Niklas Gustafsson <Niklas.Gustafsson@st1.com>; Henrik Aronsson <Henrik.Aronsson@st1.com>
Subject: Sv: PTU. Top Mounted Agitators
Importance: High

Hi Hesam,

I Still cannot find the tolerances for the shaft at the bottom for M-2111 in T-2108. **It was checked yesterday with a "Magnetic Clock-test" and we had a maximum offset of 13,0 mm for this one, is this ok or not?**

The 3:rd and last Mixer M-2108 in T-2102 was checked today and it hangs free inside the housing and has a maximum offset "Magnetic Clock-test" of 1,0mm at the middle of the shaft, which is inside the tolerances acc to IOM.

Br
//Patrik Johansson, Field Engineer Piping & Mech, St1 PTU-project.
Patrik.johansson@eurocon.se
+46 73 805 75 65



Från: Patrik A. Johansson
Skickat: den 4 april 2023 16:17
Till: Hesam Beigy <hesam.beigy@alfalaval.com>
Kopia: Richard Teles Neves <RichardTeles.Neves@alfalaval.com>; Sameer Pethkar <Sameer.Pethkar@alfalaval.com>; Niklas Gustafsson <Niklas.Gustafsson@st1.com>; Henrik Aronsson <Henrik.Aronsson@st1.com>
Ämne: Sv: PTU. Top Mounted Agitators

Hi Hesam,
Thanks for the feedback.

New question:
What is the allowed tolerances for the shaft at the bottom for M-2111 in T-2108 that has no bottom bracket ("house"), I cannot find any table for that one, for sure it cannot be the same as the ones with bracket ("house") in the bottom?

Br
//Patrik Johansson, Field Engineer Piping & Mech, St1 PTU-project.
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Från: Hesam Beigy <hesam.beigy@alfalaval.com>
Skickat: den 4 april 2023 08:55
Till: Patrik A. Johansson <patrik.johansson@eurocon.se>
Kopia: Richard Teles Neves <RichardTeles.Neves@alfalaval.com>; Sameer Pethkar <Sameer.Pethkar@alfalaval.com>
Ämne: RE: PTU. Top Mounted Agitators

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Hi Patrik,
Many thanks for sharing the readings.
From datasheet-we have 2 of agitators with bottom support (type ALTB):
- TM-2104_19B42AG01: 40 rpm
- TM-2102_19R02AG01: 59 rpm
Based on the allowed tolerances from manual (page 74 of attached) we can have up to 1,5-2mm-so, your reading is way within tolerance. Well done and thanks for keeping us posted.

Page 74 of pdf file attached:

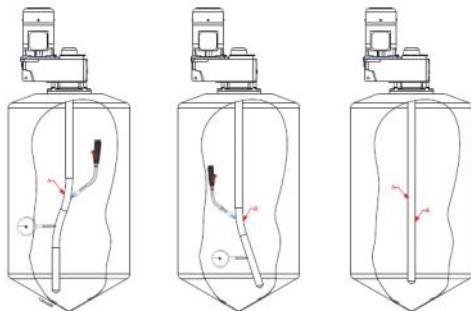
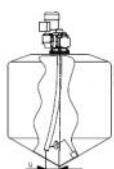
6 Technical Data

All dimensions in mm unless otherwise stated.

6.7 Shaft alignment

Shaft to be aligned in bearing frame or in gear motor.

RPM up to:	50	100	500	1000	2800
U (max radial tolerance, ALT)	0.4	0.3	0.2	0.1	0.05
U (max radial tolerance, ALTB)	2.0	1.5	1.0		



After propellers has been welded onto the shaft and / or two shaft parts has been welded together - the shaft must be aligned. If the shafts has been welded according to Alfa Laval's recommendations shown below – the required alignment will be very little as the amount of introduced heat to the shaft is minimized and due to the fact that all shafts has been aligned before delivery from Alfa Laval.

All-weld shaft connections and propellers to shaft with one welding seam at a time, cool with air and continue with one welding until welding is according to illustration. Use welding procedures which introduce as less heat, tension and bending to the shaft as possible.

Required tool:

1. A gas-welding torch supplied with a mixture of Acetylene and Oxygen gas.
2. A dial indicator.

Best Regards
Hesam Beigy



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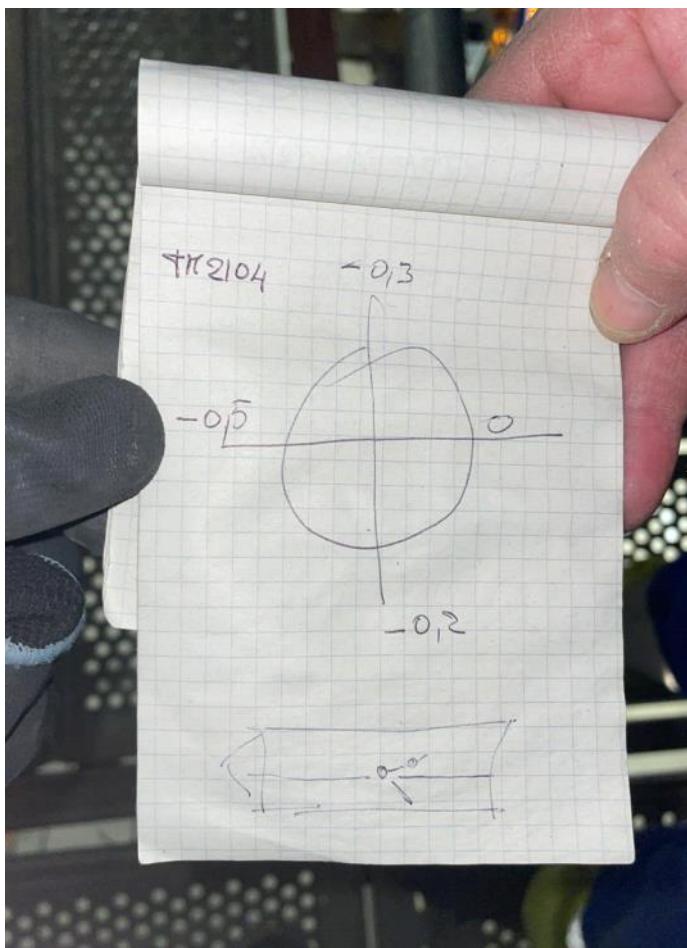


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Classified by Alfa Laval as: Business
From: Patrik A. Johansson <patrik.johansson@eurocon.se>
Sent: 3. april 2023 18:02
To: Hesam Beigy <hesam.beigy@alfalaval.com>
Subject: Sv: PTU. Top Mounted Agitators

Hi Hesam,

Thanks for your reply.
I also today checked the angle with a "clock-magnet" and the shaft has a maximum of 0,5mm at the middle of the shaftlength - very tight! 😊



Br
 //Patrik Johansson, Field Engineer Piping & Mech, St1 PTU-project.
Patrik.johansson@eurocon.se
 +46 73 805 75 65



Från: Hesam Beigy <hesam.beigy@alfalaval.com>
 Skickat: den 3 april 2023 14:59
 Till: Patrik A. Johansson <patrik.johansson@eurocon.se>
 Kopia: Ronald Kuipers <Ronald.Kuipers@st1.com>; Niklas Gustafsson <Niklas.Gustafsson@st1.com>;
 Henrik Aronsson <Henrik.Aronsson@st1.com>; Nolan Forster <Nolan.Forster@st1.com>; Vitaliy
 Shevchenko <vitaliy.shevchenko@alfalaval.com>; Sameer Pethkar <Sameer.Pethkar@alfalaval.com>;
 Richard Teles Neves <RichardTeles.Neves@alfalaval.com>
 Ämne: RE: PTU. Top Mounted Agitators

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Hi Patrik,

Thanks for keeping us updated. Please see below.

Best Regards
 Hesam Beigy



Hesam Beigy, MSc, Mechanical Engineering
 Technical Team Leader, E&S Food Systems
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hesam.beigy@alfalaval.com
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Classified by Alfa Laval as: Business

From: Patrik A. Johansson <patrik.johansson@eurocon.se>

Sent: 31. marts 2023 11:19

To: Hesam Beigy <hesam.beigy@alfalaval.com>; Richard Teles Neves

<RichardTeles.Neves@alfalaval.com>

Cc: Ronald Kuipers <Ronald.Kuipers@st1.com>; Niklas Gustafsson <Niklas.Gustafsson@st1.com>; Henrik

Aronsson <Henrik.Aronsson@st1.com>; Nolan Forster <Nolan.Forster@st1.com>; Vitaliy Shevchenko

<vitaliy.shevchenko@alfalaval.com>

Subject: Sv: PTU, Top Mounted Agitators

Importance: High

Hi Hesam,

We have now finally started to mount these vertical agitators.

T-2104 / M-2109:

The top counter flange is perfectly attached (and not possible to shim), and while rotating the shaft it has a perfect similar position at the bottom (while we manually slowly rotated the shaft it had the same position during these 360°), so the shaft is for all that we can understand perfectly straight, that is good. At the bottom we had to remove the shim-plate and we also had to slide the adjustable support as much as possible towards "east", due to that fact the shaft was leaning a little bit (maybe ~5kg pressure only) to much towards "east". After this adjustment it still has a slight leaning towards the same side (east), it is some "99%" perfect I would say. The bottom coned part of the shaft now has almost no pressure towards the support cone at all. Both me and Ronald was inside and we believe this is good enough. To get this a little bit more perfect we need to start cut, modify & weld.

Do you have any comments or more recommendations?

[Hesam Beigy] As far as the contact between shaft and the house is only limited to the designated area, the lateral forces is not a problem (basically the house is there to support the lateral forces during operation, so, a slight increase of those forces is for sure within the design capacity).

Hanging "free" towards the east side, there is a gap towards west side.

[Hesam Beigy] The house used in this project is with "open" concept, so, there wont be any close fit between shaft and house-so, all is good.



Hanging "free" towards the east side, the bottom of the coned piece of the shaft is touching the east side.





Slightly pushed towards west => perfect position.
[Hesam Beigy] Seems good set up-thanks.





Br
//Patrik Johansson, Field Engineer Piping & Mech, St1 PTU-project.
Patrik.johansson@eurocon.se
+46 73 805 75 65

Från: Patrik A. Johansson <patrik.johansson@eurocon.se>
Skickat: den 10 mars 2023 18:13
Till: Hesam Beigy <hesam.beigy@alfalaval.com>
Kopia: Ronald Kuipers <Ronald.Kuipers@st1.com>; Niklas Gustafsson <Niklas.Gustafsson@st1.com>;
Henrik Aronsson <Henrik.Aronsson@st1.com>; Nolan Forster <Nolan.Forster@st1.com>; Richard Teles
Neves <RichardTeles.Neves@alfalaval.com>; Vitaliy Shevchenko <vitaliy.shevchenko@alfalaval.com>
Ämne: Re: PTU. Top Mounted Agitators

Hesam,
Ok, Thanks for clarifying. New info then, that are not stated elsewhere as far as I can understand.
This instruction is then valid for both of them tanks.

We will look into this next week and inform the contractor.

Br
//Patrik

Från: Hesam Beigy <hesam.beigy@alfalaval.com>
Skickat: fredag, mars 10, 2023 16:38
Till: Patrik A. Johansson <patrik.johansson@eurocon.se>
Kopia: Ronald Kuipers <Ronald.Kuipers@st1.com>; Niklas Gustafsson <Niklas.Gustafsson@st1.com>;
Henrik Aronsson <Henrik.Aronsson@st1.com>; Nolan Forster <Nolan.Forster@st1.com>; Richard Teles
Neves <RichardTeles.Neves@alfalaval.com>; Vitaliy Shevchenko <vitaliy.shevchenko@alfalaval.com>
Ämne: RE: PTU. Top Mounted Agitators

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Hi Patrik,

For the tanks we delivered for this project, there is no need for any tri-pod. Project team have designed the beams in order to avoid the hot work inside the tank.

So, what you should do is to use the hosing attached to the beam to support the shaft. Basically, we have designed a custom bottom support which will replace the tri-pod. This design is a bit more flexible and can help in some cases to avoid hot work. Please note that this housing is connected to beam with bolts-and during installation, you can add/remove/change shim plates to align it with shaft centerline.

When you open the agitator boxes, you probably will see the traditional trip-pod included, you just don't need them anymore-you can scrap them.

Hope this clarifies, but in case needed, please let me know-we will be available for further clarification.



Best Regards
Hesam Beigy



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Technical Team Leader, E&S Food Systems
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From: Patrik A. Johansson <patrik.johansson@eurocon.se>

Sent: 10. marts 2023 15:59

To: RichardTeles Neves <RichardTeles.Neves@alfalaval.com>; Hesam Beigy

<Hesam.Beigy@alfalaval.com>; Vitaliy Shevchenko <vitaliy.shevchenko@alfalaval.com>

Cc: Ronald Kuipers <Ronald.Kuipers@st1.com>; Niklas Gustafsson <Niklas.Gustafsson@st1.com>; Henrik Aronsson <Henrik.Aronsson@st1.com>; Nolan Forster <Nolan.Forster@st1.com>

Subject: Sv: PTU. Top Mounted Agitators

Hi Hesam & Vitaly,

M-2112 (inside T-2108) will not need any bottom bracket, that we already figured out.

But no detailed info from you regarding **M-2108 & M-2109**.

Agitator	Position	Tank/Equipment	Description	Level (Agitator)
M-2108	TOP	T-2102	RETENTION TANK	+8.5
M-2109	TOP	T-2104	GUMS COLLECTING TANK	+8.5 (plf +10.45)
M-2112	TOP	T-2108	2nd stage BLEACHER	+13.0 (plf +13.80) "free"

floating No guide in tank!

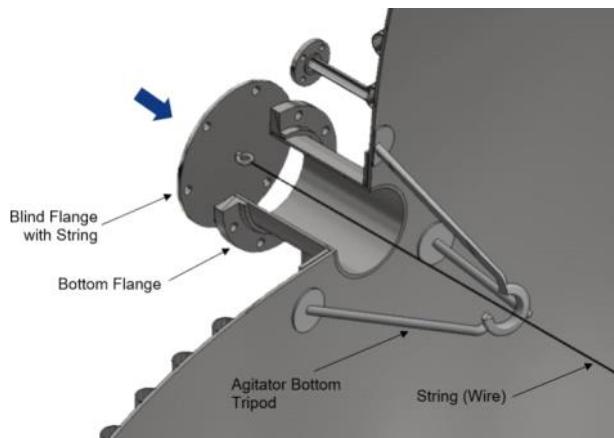
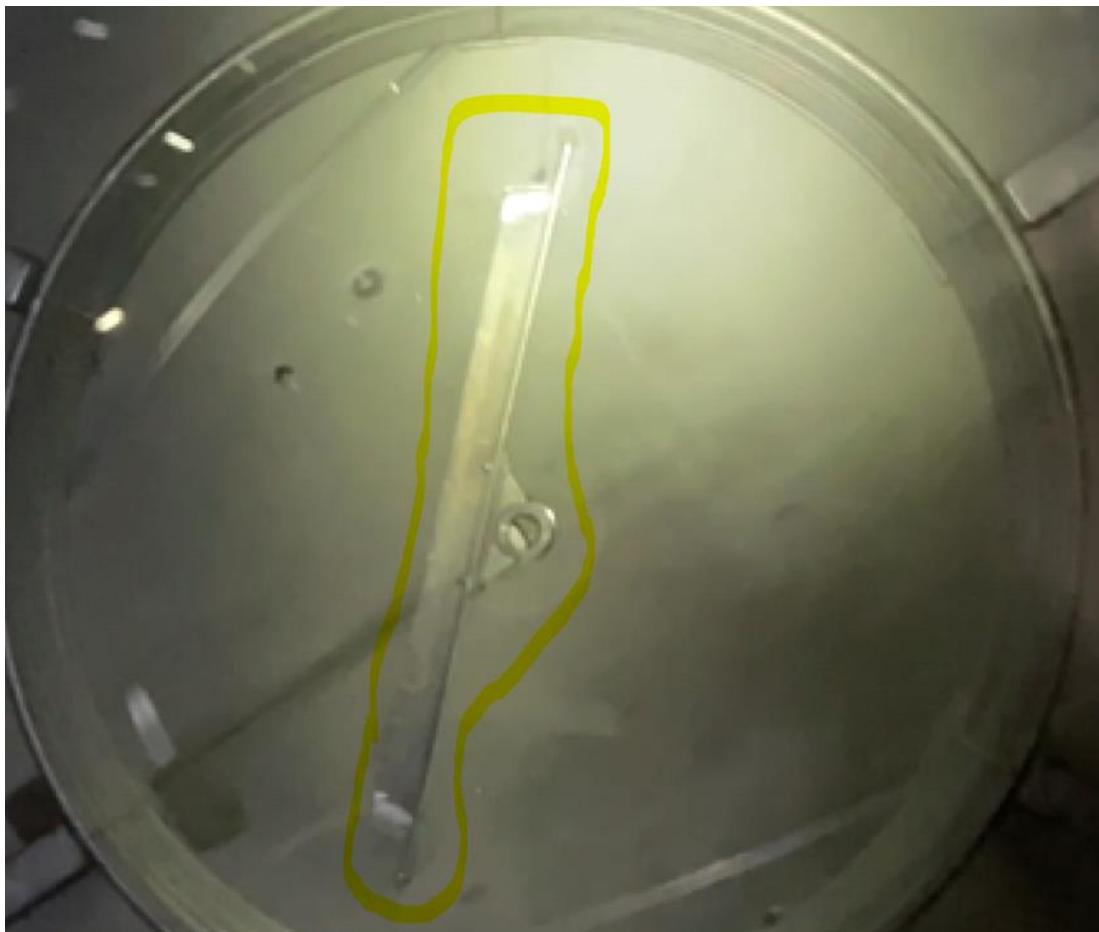
Acc. to drawings there is a "Agitator Bottom Tripod" that comes along with the tank or the mixer, that are to be centered & welded (what kind of weld & what dimension etc) to the tank bottom cone. While looking in inside T-2104 for M-2109 (Gums Collecting Tank) one can see a L-beam (?) with what looks like a bearing? Is that temporary and shall be replaced with the Tripod? Maybe it is a stupid question but I'm a bit confused here...or can we have a quick TEAMS on Monday after lunchtime?

Please explain/elaborate on this a bit, thanks.

Also the AL document: "Reference AL tolerance sheet document no. 664420822 – 9", is that necessary during erection of the top mounted Agitators, we can't find it/don't have it?

T-2104 (M-2109):





"Reference AL tolerance sheet document no. 664420822 – 9"

AGITATOR BOTTOM SUPPORT AND TOP FLANGE INSTALLATION IN HORIZONTAL POSITION



SI. No	Description
8.	<p>Check concentricity of shall from inside by measuring radius from string at 4 locations circumferentially (may be at principal ; and at least at 2 elevations lengthwise. Readjust tripod and support r flange suitably ensure off center of tripod is within accept limit.</p> <ul style="list-style-type: none"> • Reference AL tolerance sheet document no. 664420822 – 9 • Water level within +/- 2 mm all over (+/- 80 thou) • Flange Top face spirit level/plumb: 0.05° across diameter of flange (0.5 mm for 500 mm, 20 thou for 20 inch) • Tripod off center 1mm / Meter (max 10 mm) of any shaft length. (40 thou / 3 feet max 3/8 inch) <p>Ref figure "Concentricity Checking of a string with measuring tap inside the vessel"</p>

Br

//Patrik Johansson, Field Engineer Piping & Mech, St1 PTU-project.

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EUROCON

Från: RichardTeles Neves <RichardTeles.Neves@alfalaval.com>

Skickat: den 6 mars 2023 09:47

Till: Patrik A. Johansson <patrik.johansson@eurocon.se>

Kopia: Vitaliy Shevchenko <vitaliy.shevchenko@alfalaval.com>; Ronald Kuipers <Ronald.Kuipers@st1.com>; Niklas Gustafsson <Niklas.Gustafsson@st1.com>; Henrik Aronsson <Henrik.Aronsson@st1.com>; Hesam Beigy <hesam.beigy@alfalaval.com>

Ämne: RE: PTU. Top Mounted Agitators

VARNING: Det här e-postmeddelandet har skickats utanför din organisation. Klicka inte på länkar eller öppna bifogade filer om du inte känner igen avsändaren och vet att innehållet är säkert.

Patrik

Apologies for picking this up so late.

The engineering team looked into the data manual, and we can see that there is no bottom bracket needed for T-2108_26R03 (MM2111) page 9, 10 attached refers – it has been designed without the bottom bracket.

Sorry for the miss-communication (but a positive outcome - nonetheless)

Quotation Ref:	Position No.	Revision	Tank Reference																																																																									
20200250	05e	A	TM-2108A_26R03AG01 - 33m³	MM-2111																																																																								
Dimensional Information																																																																												
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Best Regards

Richard Neves



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From: RichardTeles Neves
Sent: 01 March 2023 18:55
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Cc: Vitaliy Shevchenko <vitaliy.shevchenko@alfalaval.com>; Ronald Kuipers <Ronald.Kuipers@st1.com>; Niklas Gustafsson <Niklas.Gustafsson@st1.com>; Henrik Aronsson <Henrik.Aronsson@st1.com>
Subject: RE: PTU. Top Mounted Agitators

Patrik,

Bottom bracket Installation

Our understanding is that only T-2108_26R03 needs a **field** bracket installation. The best document we have is a guideline for horizontal installation (vertical is easier) – we believe this can be used a good reference.

As we are 'close' I would recommend a trip by the tank team should you have any doubts, [@Hesam Beigy](#) heads this department so here you have his contact.

General Installation

Find documentation related to installation of Top Mounted Agitators. I can see this has been submitted on the project.

I have received some 'call outs' to note to you;

- Installation: pages 14 to 30
- Tools referred to in page 116: instead of the tool (TE2608084880) , we have provided a tool as presented in page 5 (qty: as per below table)

Agitator tools	1 pc. Shaft Retainer	SS316L	Carbon Steel/SS304L
Agitator tools	1 pc. Shaft Lifting Tool Ø70	SS316L	SS304L
Agitator tools	1 pc. Shaft Lifting Tool Ø80	SS316L	SS304L
Agitator tools	1 pc. Shaft Lifting Tool Ø90	SS316L	SS304L

- Shaft alignment: pages 74 to 77
- For vacuum tanks, pay special attention to flush connections as per described in page 73
(since St1 has only single mechanical, no flushing is required, therefore any flush connection provided shall be blinded with a matching bolt)

Best Regards

Richard Neves



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From: Patrik A. Johansson <patrik.johansson@eurocon.se>
Sent: 27 February 2023 15:49
To: RichardTeles Neves <RichardTeles.Neves@alfalaval.com>
Cc: Vitaliy Shevchenko <vitaliy.shevchenko@alfalaval.com>; Ronald Kuipers <Ronald.Kuipers@st1.com>;
Niklas Gustafsson <Niklas.Gustafsson@st1.com>; Henrik Aronsson <Henrik.Aronsson@st1.com>
Subject: PTU. Top Mounted Agitators
Importance: High

CAUTION. This e-mail originated from outside of Alfa Laval. Please be mindful of attachments and links.
Hi Richard,

Can you please ask the Alfa Laval "Tank-Team", regarding this issue:
The bottom bracket/"Guide" not welded we presume. Is there any more information you can share
regarding the welding of these?
What kind of:
Procedure
Special Tools
How to find the center point, is it already marked-up?

Agitator	Position	Tank/Equipment	Description	Level (Agitator)
M-2108	TOP	T-2102	RETENTION TANK	+8.5
M-2109	TOP	T-2104	GUMS COLLECTING TANK	+8.5 (plf +10.45)
M-2112	TOP	T-2108	2nd stage BLEACHER	+13.0 (plf +13.80) "free" floating No guide in tank!

EXAMPLE:



Quotation Ref:	Position No.	Revision	Tank Reference
20200250	01c	A	TM-2104_19842AG01 - 75 m3 MMA-2109
Item	ALSIIS Code	Model/Size	Item No.
Top, center mounted agitator, ALTB	5506	EnSaOil	9618022790
Welding flange	5508	Ø400/BC350/4xM16	TE2603036570

Agitator Construction	
Agitator code	ALTB-ME-GR-80F-R-S8950-3E1500D2G-B53G
Datasheet ref.	9618022790, 20200250A01c
No. of impellers	3
Impeller diameter [mm]	1500
Thrust direction	Down
No. of impeller blades	2
Impeller mounting	Bored, 4 pointed screws
Low level impeller	No
Oil or fluid trap	Yes
Bottom support type	Type 3 (FPM)
Wear sleeve on shaft	No
Intermediate support(s)	No
Bearing frame	No
Lantern	No
Shaft length [mm]	8950
Shaft seal type	R
Flushing required	No
Seal face materials	FPM
Elastomers (seals)	N/A
Elastomers (stationary)	FEP
Seal construction	Radial seal
Dry running capability	yes
Number of shaft divisions	2
Coupling Type	Sleeve coupling
Mounting angle [°]	180
Steel parts inside tank	1 4404
Steel parts outside tank	1 4301
Surface treatment inside	Shot Peened
Surface finish inside Ra [µm]	Ra<3.2
Forces and torques applied to the mounting flange at momentary locking of the propeller	
Torque Mv [Nm]:	2320
Bending torque Mb [Nm]:	4750
Side thrust Fs [N]:	2784
Thrust, propeller Fa [N]:	458
Critical speed [rpm]:	158



Quotation Ref:	Position No.	Revision	Tank Reference
20200250	01c	A	TM-2104_19842AG01 - 75 m3 MMA-2109
Drive Unit Specification			
Gear type	GR	Motor power [kW]	5.50
Gear Brand	NORD	Efficiency class	IE3
Direct drive	No	Power supply	3x400/690V +/-10%, 50Hz std
Speed level	Slow	Country Code	EU
Food grade oil (acc. UH3 6)	Yes	PTC Thermistors	Yes
SS Drive unit cover	No	Enclosure, IP	55
Corrosion class acc. to EN 12944	C2	Paint specification	Ral5010 Blue
Rain hat	No	Operation hours/day	24
Ex protection, motor only	No	Motor classification	-
Frequency convertible	Yes	Comments	-



Documentation			
PED approval incl.	No	Manual, language	English as std.
Documentation, Package	Industrial B	ATEX, Agitator	CE marking Yes Ex zone inside/outside None Zone classification None Group None
Vessel Data			
Shell height [mm]	8000	Tank Diameter [mm]	3500
Top construction	Fiat	Tank bottom construction	Cone 30 deg
Max. Net. Volume [m³]	75	Min. Volume to stir [m³]	5
Operation pressure, max. [barg]	0.00	Operation pressure, min. [barg]	0.00
Design pressure [barg]	atm	Design temperature, max. [°C]	90
Agitator position	Top, center	Number of baffles	4
Media Data			
Media name	Gums + Veg oil (?)	Temperature [°C]	0 - 90
Media properties	0	Viscosity [cP] / Shear rate [1/s]	3000 / Any
Solids conc. [weight %]	0	Density [kg/l]	0,98
Duties			
Maintain media homogenous	Yes	Liquid-Liquid blending	No
Maintain particle suspension	No	Dispersion of particles	No
Create particle suspension	No	Break coagulum	No
Powder mixing	No	Is in-line mixer used?	No
Emulsifying	No	Maintain temperature constant	No
Heat transfer, heating	No	Heat transfer, Cooling	No
Other description	-		
Comments	-		
Process Information			
Nominal speed [rpm]	40	Tip Speed [m/s]	3.2
Intensity [m/min]:	1.6	Tank turn over: [min⁻¹]:	1.9
Pumping Capacity [m³/min]	139.3	Annulus speed at 1 impeller [m/s]	0.099
Actual Power Draw [kW]:	2.27		

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Br

//Patrik Johansson, Field Engineer Piping & Mech, St1 PTU-project.

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Classified by Alfa Laval as: Business

Slurry Mixer under ATM

19. april 2023 13:10

Subject	Slurry Mixer under ATM
From	Hesam Beigy
To	Alexander BechJorgensen; Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	19. april 2023 13:09
Attachments	

Hi all,

FYI-a new generation of slurry mixer is coming which does the mixing of oil and bleaching earth under normal Atmospheric pressure.

For the new projects, I highly encourage you to use this design and challenge your process team to get this in MEL.

Best Regards
Hesam Beigy



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Classified by Alfa Laval as: Business

From: Ashvini Rajakumar <Ashvini.Rajakumar@alfalaval.com>

Sent: 17. april 2023 09:36

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Cc: Jeff Yau <Jeff.Yau@alfalaval.com>; Charles Martin <charles.martin@alfalaval.com>; Erin Wong <Erin.Wong@alfalaval.com>; Abinesh Sundararaju <Abinesh.Sundararaju@alfalaval.com>; KinHung Woo <kinhung.woo@alfalaval.com>; Hesam Beigy <hesam.beigy@alfalaval.com>

Subject: RE: Clay static mixer_Request for new calculation sheet

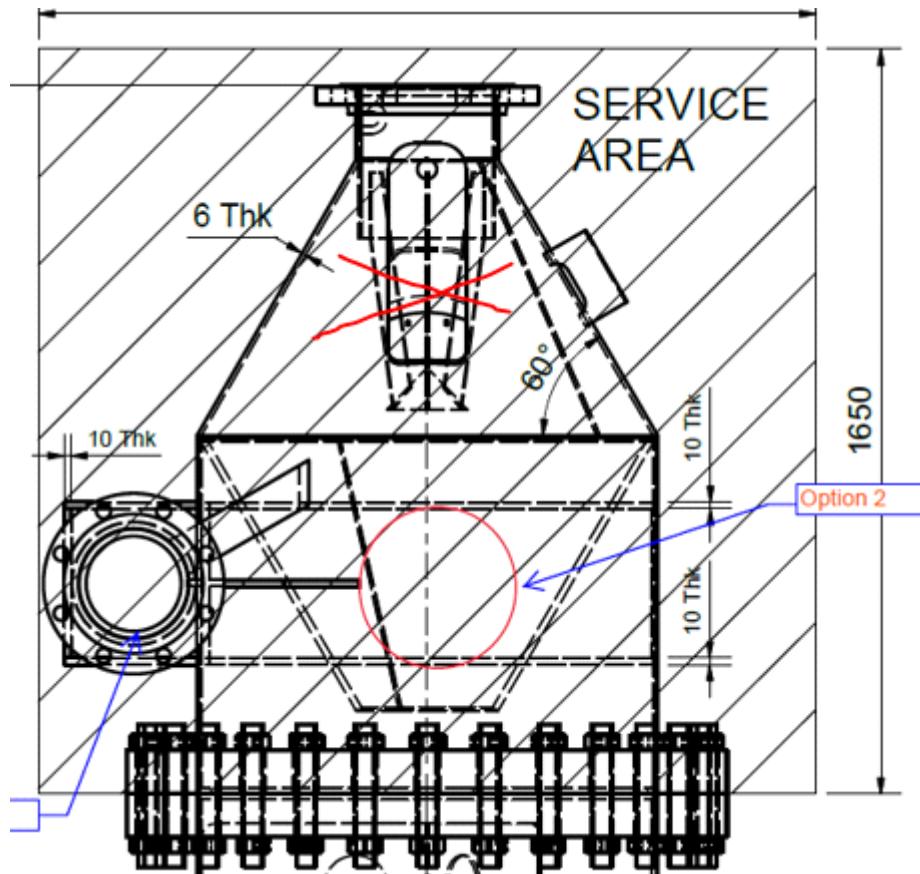
Dear Alexey,

Thank you for your feedback via MS teams today.

In atmospheric application sizing of clay static mixer., the calculation sheet "Bleacher_design_02H" is still valid .

However, the user of the file needs to note the following:

- 1) **Oil Discharge Nozzle (N2-1) size must ensure that fluid velocity is 0.5m/s**
- 2) **Change of orientation of nozzles as per attached PDF:**
 - a) **Oil inlet from top**
 - b) **Clay inlet from the side (Size ie from screw conveying system)**
- 3) **Internal braker which we have currently in upper nozzle inlet (for vacuum application) should be removed for oil as well.**



Thank you.

Best regards,

Ashvini



Ms.Ashvini Rajakumar,

Project Engineer, Engineering & Supply
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From: Ashvini Rajakumar

Sent: Tuesday, January 17, 2023 9:22 PM

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Cc: Jeff Yau <jeff.yau@alfalaval.com>; Charles Martin <charles.martin@alfalaval.com>; Erin Wong <erin.wong@alfalaval.com>; Abinesh Sundararaju <Abinesh.Sundararaju@alfalaval.com>; KinHung Woo <kinhung.woo@alfalaval.com>; Hesam Beigy <hesam.beigy@alfalaval.com>

Subject: RE: Clay static mixer_Request for new calculation sheet

Dear Alexey ,

Thank you for the input on the following:

- Drawing comments
- Oil outlet velocity of this atmospheric slurry mixer design to be set at 0.5m/s.

Also as last discussed week Tuesday , hope you can provide us with the new calculation sheet for clay static mixer.

The current one is only applicable for slurry mixer under vacuum conditions (attached).

This is because we have a number of HVO projects in KL office we have quoted to customer using this similar design.

Dear all,

Please refer to the communications for information.

Thank you.

Best regards,

Ashvini



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ashvini.rajakumar@alfalaval.com
Contact me on Lync/Skype: <sip:ashvini.rajakumar@alfalaval.com>

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Classified by Alfa Laval as: Business

From: Ashvini Rajakumar

Sent: Friday, October 21, 2022 7:06 PM

To: Alexey Shevchenko <alexey.shevchenko@alfalaval.com>; Hesam Beigy <hesam.beigy@alfalaval.com>

Cc: Erin Wong <erin.wong@alfalaval.com>; Abinesh Sundararaju <Abinesh.Sundararaju@alfalaval.com>; Charles Martin <charles.martin@alfalaval.com>; KinHung Woo <kinhung.woo@alfalaval.com>; Siddharth Gujar <siddharth.gujar@alfalaval.com>

Subject: RE: Clay static mixer

Dear [@Hesam](#),

As per our conversation , your required inputs to make the design specific for Shell Singa (2200TPD as output from PTU).

- a) Oil inlet size : 6" (DN 150) based on max pump discharge velocity for oil at 2.0m/s.
- b) Bleaching inlet size : 6" (DN 150) based on vendor (screw conveying system outlet) (*this system is the origin for bleaching earth).
- c) Oil +BE outlet size : please advise if this velocity of 5.9m/s is still valid, since this limit of this velocity is a function of flow.

Dear [@Alexey](#),

Thanks for the clarifying the below item.

Noted that the attached sizing file is not valid for Option 2 conditions.

Could help to check and see what would be the appropriate velocity for item c?

Thank you.

Best regards,

Ashvini



Ms.Ashvini Rajakumar,

Project Engineer, Engineering & Supply
SEA

Tel switchboard: +60 3 5122 4748

ashvini.rajakumar@alfalaval.com

Contact me on Lync/Skype: <sip:ashvini.rajakumar@alfalaval.com>

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Classified by Alfa Laval as: Business

From: Alexey Shevchenko <alexey.shevchenko@alfalaval.com>

Sent: Friday, October 21, 2022 5:46 PM

To: Hesam Beigy <hesam.beigy@alfalaval.com>; Siddharth Gujar <Siddharth.Gujar@alfalaval.com>

Cc: Erin Wong <Erin.Wong@alfalaval.com>; Abinesh Sundararaju <Abinesh.Sundararaju@alfalaval.com>; Charles Martin <charles.martin@alfalaval.com>; Ashvini Rajakumar <Ashvini.Rajakumar@alfalaval.com>; KinHung Woo <kinhung.woo@alfalaval.com>
Subject: RE: Clay static mixer

Dear Hesam ant Team
Thanks to Ashvini mistake has been found
The message from Hesam should be like:

Basically for slurry Mixer, we will have 2 options:

- Option 1: as it is now (attached from RIIG)
 - o Oil from Side
 - o bleaching earth from top
 - o under vacuum
 - o Tangential Oil Inlet
- Option 2:
 - o Oil-Clay from Side
 - o bleaching earth-Oil from top
 - o under ATM
 - o Normal Radial Oil-Clay Inlet

Best regards,
Alexey Shevchenko



Alexey Shevchenko
Department Manager
Global Technology, Edible Oil Systems
Tel direct: +45 39536498 – Mobile: +45 28101319
alexey.shevchenko@alfalaval.com
Contact me on Teams: [sip:alexey.shevchenko @alfalaval.com](sip:alexey.shevchenko@alfalaval.com)

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Classified by Alfa Laval as: Business

From: Alexey Shevchenko
Sent: Wednesday, October 19, 2022 12:23 PM
To: Hesam Beigy <hesam.beigy@alfalaval.com>; Siddharth Gujar <siddharth.gujar@alfalaval.com>
Cc: Erin Wong <erin.wong@alfalaval.com>; Abinesh Sundararaju <Abinesh.Sundararaju@alfalaval.com>; Charles Martin <charles.martin@alfalaval.com>; Ashvini Rajakumar <Ashvini.Rajakumar@alfalaval.com>; KinHung Woo <kinhung.woo@alfalaval.com>

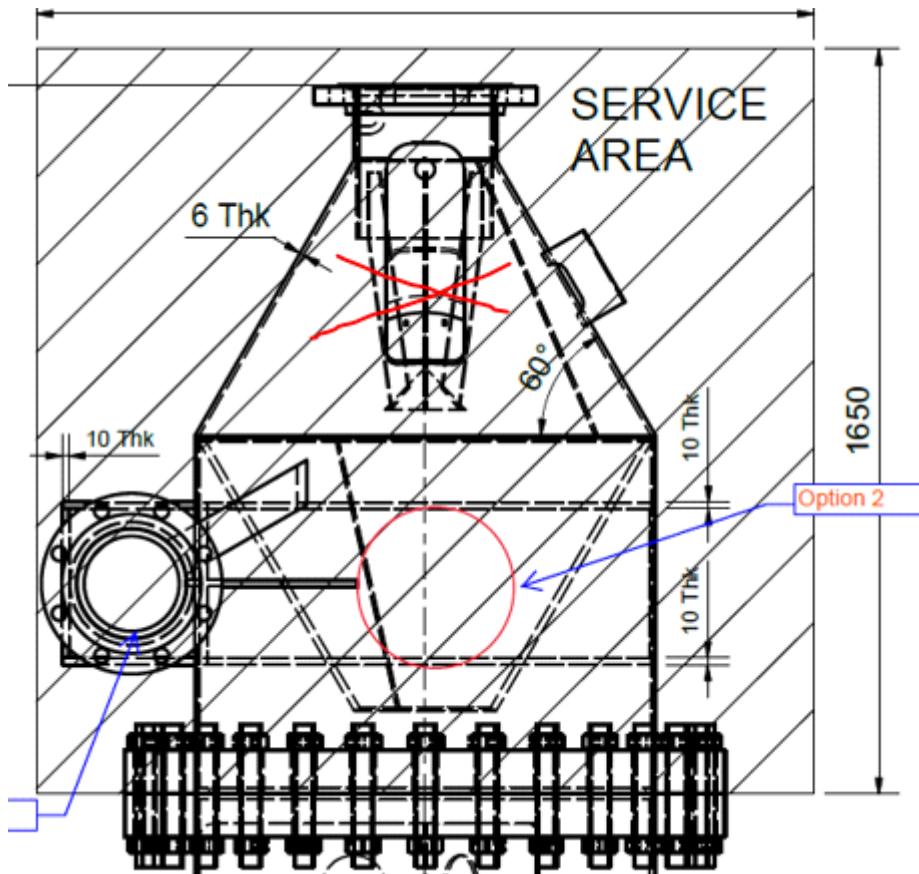
Subject: RE: Clay static mixer

Dear Hesam

Short comment from my end:

Option2 only

Internal braker which we have currently in upper nozzle inlet should be removed for oil as well



Best regards,
Alexey Shevchenko



Alexey Shevchenko
Department Manager
Global Technology, Edible Oil Systems
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Contact me on Teams: [sip:alexey.shevchenko @alfalaval.com](sip:alexey.shevchenko@alfalaval.com)

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Classified by Alfa Laval as: Business

From: Hesam Beigy <hesam.beigy@alfalaval.com>
Sent: Wednesday, October 19, 2022 12:13 PM
To: Siddharth Gujar <Siddharth.Gujar@alfalaval.com>
Cc: Erin Wong <Erin.Wong@alfalaval.com>; Abinesh Sundararaju <Abinesh.Sundararaju@alfalaval.com>; Charles Martin <charles.martin@alfalaval.com>; Alexey Shevchenko <alexey.shevchenko@alfalaval.com>; Ashvini Rajakumar <Ashvini.Rajakumar@alfalaval.com>; KinHung Woo <kinhung.woo@alfalaval.com>
Subject: RE: Clay static mixer

Hello Siddharth,

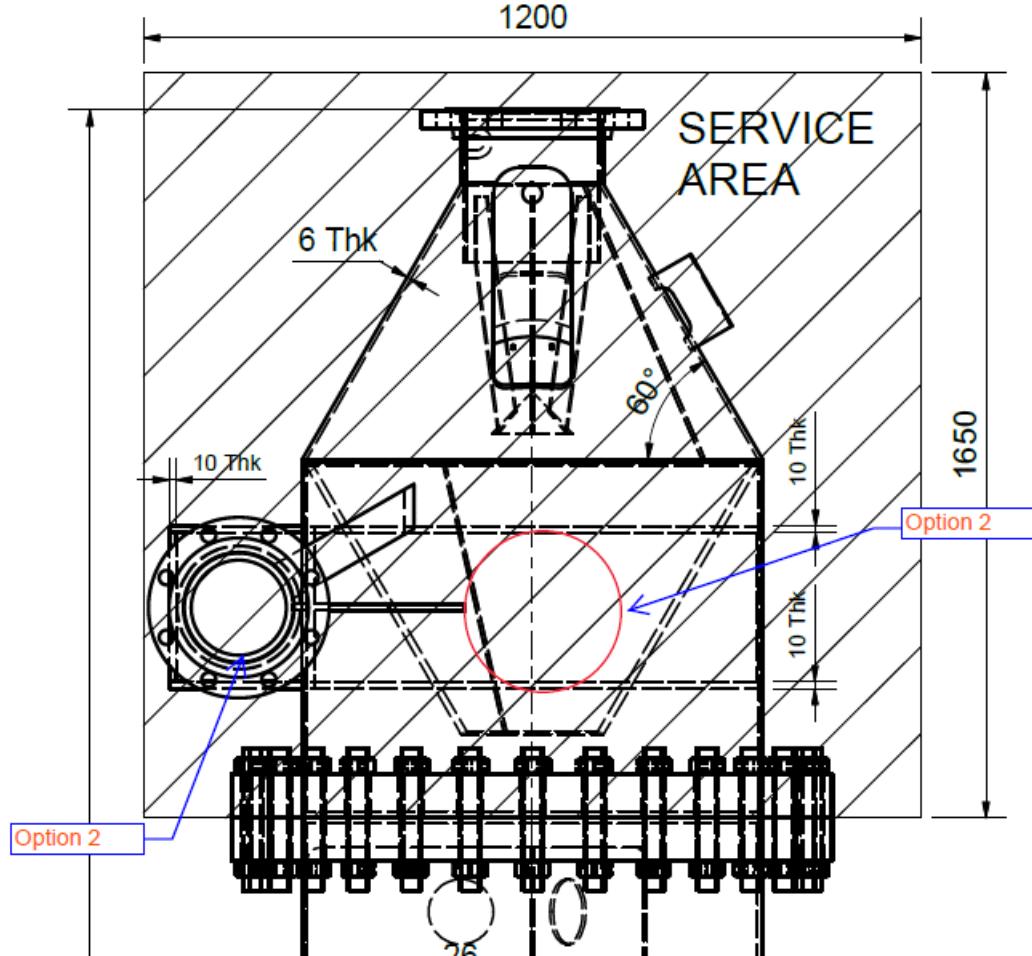
Please see below new concept of slurry mixer.

Basically for slurry Mixer, we will have 2 options:

- Option 1: as it is now (attached from RIIG)
 - o Oil from Side
 - o bleaching earth from top
 - o under vacuum
 - o Tangential Oil Inlet
- Option 2:
 - o Oil from Side
 - o bleaching earth from top
 - o under ATM
 - o Normal Radial Oil Inlet

Please note that PID might show different location for oil and bleaching earth nozzles, but physical location of those nozzles wont be controlled by PID as normal.

Could you please help Ashvini to get drawing of the top part with the radial nozzle (option 2)? I suggest to keep thicknesses as it is, since the component is small. For the new nozzle, please use Sch. 40 rating as minimum and add a pad plate if possible.



Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
 Technical Team Leader, E&S Food Systems
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Classified by Alfa Laval as: Business

From: Alexey Shevchenko <alexey.shevchenko@alfalaval.com>

Sent: 19. oktober 2022 12:06

To: Ashvini Rajakumar <Ashvini.Rajakumar@alfalaval.com>

Cc: Hesam Beigy <hesam.beigy@alfalaval.com>; Erin Wong <Erin.Wong@alfalaval.com>;

Abinesh Sundararaju <Abinesh.Sundararaju@alfalaval.com>; Charles Martin

<charles.martin@alfalaval.com>

Subject: Clay static mixer

Dear Ashvini,

As per our discussion for using static clay mixer with oil if we use atmospheric slurry mixer tank.

The drawing of the existing mixer should be change in a way to get entering point of clay from the side (no tangential inlet is required) and oil from the top. Hesam will modify drawing of the top cover of existing mixer and we will have required flexibility. Saying this I mean: we are not allowed to use mixer for clay as we use for Cargill projects to any other customers.

It is IP of Cargill which we respect.

Best regards,
Alexey Shevchenko



Alexey Shevchenko

Department Manager

Global Technology, Edible Oil Systems

Tel direct: +45 39536498 – Mobile: +45 28101319

alexey.shevchenko@alfalaval.com

Contact me on Teams: [sip:alexey.shevchenko @alfalaval.com](sip:alexey.shevchenko@alfalaval.com)

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Classified by Alfa Laval as: Business

FW: AL EOS Vessel Highlight

27. april 2023 14:22

Subject	FW: AL EOS Vessel Highlight
From	Hesam Beigy
To	Alexander BechJorgensen; Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	27. april 2023 14:13

For your information-Vessel Highlight is now updated to Ver 2.0

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
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Classified by Alfa Laval as: Business

From: Hesam Beigy
Sent: 27. april 2023 14:13
To: Alexey Shevchenko <alexey.shevchenko@alfalaval.com>
Cc: Bent Sarup <bent.sarup@alfalaval.com>; Christian Ryo <christian.ryo@alfalaval.com>; Emeline Rey <emeline.rey@alfalaval.com>; Nicolai Christoffersen <nicolai.christoffersen@alfalaval.com>; Per

Martinsen <per.martinsen@alfalaval.com>

Subject: RE: AL EOS Vessel Highlight

Dear all,

Please be informed that the Alfa Laval Vessel standard is now updated. You can use the same [link](#) to access it.

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering

Technical Team Leader, E&S Food Systems

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hesam.beigy@alfalaval.com

Contact me on Teams: <sip:hesam.beigy@alfalaval.com>

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Classified by Alfa Laval as: Business

From: Hesam Beigy

Sent: 6. maj 2022 16:00

To: Alexey Shevchenko <alexey.shevchenko@alfalaval.com>

Cc: Bent Sarup <bent.sarup@alfalaval.com>; Christian Ryo <christian.ryo@alfalaval.com>; Emeline Rey <emeline.rey@alfalaval.com>; Nicolai Christoffersen <nicolai.christoffersen@alfalaval.com>; Per Martinsen <per.martinsen@alfalaval.com>

Subject: AL EOS Vessel Highlight

Dear Alexey and Bent,

Based on recent 2 big projects (P66 and RIIG), it became apparent that we need a more concise document to explain what is AL standard tank/vessel.

The idea behind it was that we shall be able to present a document to customer to inform what is our design and fabrication details-basically what they shall expect to receive.

The work was started already in the beginning of RIIG, but is now completed and reviewed by Vessel team in DK and KL.

Today I shared the document with Shell SINGA project team to discuss with Shell on a detail level to see if that can be accepted as a project specification, instead of extensive requirement that Shell has presented.

I wanted to consult you to see if you see any possibilities to include this in our offers, if customers are into the details.

Appreciate your input.

Link to the documents :

- AL Vessel Highlights:

<https://promis.alfalaval.org/qms/FWDFoodWaterDivision/FOSFoodSystems/Shared%20Documents/Alfa%20Laval%20Vessel%20Standard%20Highlights.docx?d=w1fba40d87d23417299037b3016585885>

- AL Standard Nozzle Load: [EOS_Nozzle-Loads.pdf \(alfalaval.org\)](#)

Best Regards
Hesam Beigy



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Classified by Alfa Laval as: Business

Vessel's Leg Design

12. maj 2023 11:25

Subject	Vessel's Leg Design
From	Hesam Beigy
To	Alexander BechJorgensen; Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; Prakash Aware; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu; Pranay Kapse
Cc	Claus Lund; Asbjorn Binau
Sent	12. maj 2023 11:25

Dear all,

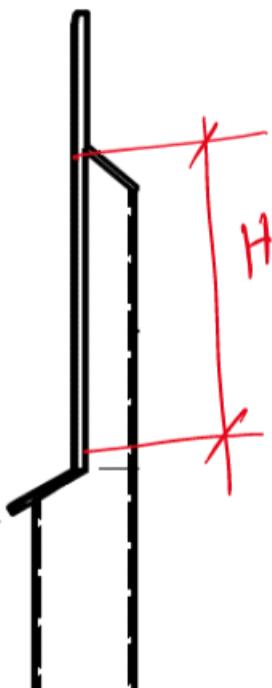
If you remember, I opened a dialogue to look at the leg design and see if we can avoid having a pad plate that goes over shell to head welding (and forms a cross weld).

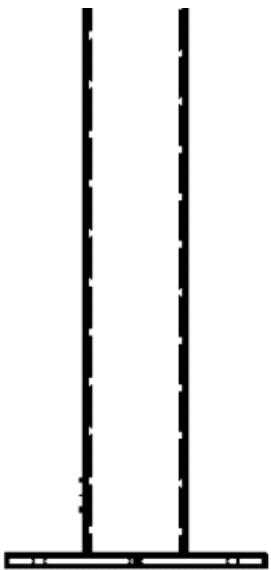
[@Nicolas Nethol](#) have investigated this wish and now we have conclusion.

Conclusion: based on the calculation approach in PV Elite and standards from different companies, there is no good reason change our existing standard.... So, our leg design would remain the same for tanks.

But, what Nico have also doubted was that the H value (shown in below picture) is not evaluated while performing calculation in PV Elite, while in VVD was requesting this as an input and making evaluation if we have enough welding there or not. Nico is in dialogue with Hexagon and will give feedback when he did receive final answer from them.

[@Pranay Kapse](#): for the iVessel, please consider this as the leading standard. However, if we wanted the other design, we can use L-profile. Would it be possible to include also L-profile in the iVessel's leg? (so, leg material can be hollow pipe or L-profile). If L-profile is also included, then the lower part of pad plate can be removed to avoid cross weld.





Best Regards
Hesam Beigy



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Technical Team Leader, E&S Food Systems
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FW: Updated FDV 303 Mk. II manual

15. maj 2023 09:26

Subject	FW: Updated FDV 303 Mk. II manual
From	Hesam Beigy
To	Alexander BechJorgensen; Amir Eslampanah; Anatolii Harkusha; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Cc	Asger Lindegaard
Sent	15. maj 2023 09:26
Attachments	

FYI

Best Regards
Hesam Beigy



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Technical Team Leader, E&S Food Systems
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From: Asger Lindegaard <asger.lindegaard@alfalaval.com>
Sent: 15. maj 2023 09:23
To: Alexey Shevchenko <alexey.shevchenko@alfalaval.com>; Andrew Logan <andrew.logan@alfalaval.com>; Louis Chan <louis.chan@alfalavalonline.mail.onmicrosoft.com>; Hesam Beigy <hesam.beigy@alfalaval.com>; Anders Holten <anders.holten@alfalaval.com>; Jenni Owen <Jenni.Owen@alfalaval.com>; Raul Velazquez <raul.velazquez@alfalaval.com>; Siddharth Gujar <Siddharth.Gujar@alfalaval.com>; Umesh Ubarhande <umesh.ubarhande@alfalaval.com>; Kailash Sharma <kailash.sharma@alfalaval.com>; Lasse Haagensen <lasse@haagenseals.com>
Cc: Bent Sarup <bent.sarup@alfalaval.com>; Emeline Rey <emeline.rey@alfalaval.com>
Subject: Updated FDV 303 Mk. II manual

Dear all

FYI – A new version of the FDV manual is now available. It has been uploaded to the Wins site also.

The changes include:

- New PID for nitrogen.
- New recommendation for Nitrogen pressure (it has been reduced from 6-8 bar g to 3-6 bar g).
- New (corrected) electrical diagram.
- Corrected spare part list.
- Control units (the two three-way valves) removed. They will get a separate manual.
- Improved maintenance assembly / de-assembly description.
- General manual layout updated.

Best Regards

Asger Lindegaard



Asger Lindegaard

Technical Team Lead, Engineering and Supply

Mobile: +4529722824

asger.lindegaard@alfalaval.com

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Classified by Alfa Laval as: Business

FW: New Comment on Incident INC1580089 (Local Admin missing in my Software Center)

17. maj 2023 09:22

Subject	FW: New Comment on Incident INC1580089 (Local Admin missing in my Software Center)
From	Hesam Beigy
To	Asger Lindegaard; Nikhil Varghese; Pouria Shahani; Siddharth Gujar; KinHung Woo; Anatolii Harkusha
Cc	Emeline Rey
Sent	4. april 2022 09:02

All-please be aware that local admin is now removed from Software center-everytime we need to install a software that is not supported by IT (PV Elite for example) we need to create a ticket
:(

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
Mobile: +45 27778777
hesam.beigy@alfalaval.com
Contact me on Teams: <sip:hesam.beigy@alfalaval.com>

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Classified by Alfa Laval as: Business

From: Alfa Laval Service Desk <aalfalaval@service-now.com>

Sent: 4. april 2022 08:10
To: Hesam Beigy <hesam.beigy@alfalaval.com>
Subject: New Comment on Incident INC1580089 (Local Admin missing in my Software Center)

IT

A new comment was posted on your Incident INC1580089.

Comments:

2022-04-04 08:08:54 CEST - Robert Mycka Additional comments (end-user view)

Hello

According to the new AlfaLaval policy the "Local Admin - become" script has been retired. All new local admin requests need to be submitted via IT Service Portal. Please use the below link to submit your request:

[https://alfalaval.service-now.com/sp?
id=sc_cat_item&sys_id=bd57859d1b0af0509fccca711604bcbaa](https://alfalaval.service-now.com/sp?id=sc_cat_item&sys_id=bd57859d1b0af0509fccca711604bcbaa)

Best regards

Click here to view Incident: [LINK](#)

Please quote the incident number INC1580089 on any future correspondence with the Service Desk.

You may reply to this message with additional comments, screenshots and attachments related to the corresponding request. The request will be automatically updated and the Service Desk will be informed.

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Ref:MSG25163249

Vessels With ASCE requirement for occasional load

25. maj 2023 08:48

Subject	Vessels With ASCE requirement for occasional load
From	Hesam Beigy
To	Alexander BechJorgensen; Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Cc	Umesh Ubarhande
Sent	25. maj 2023 08:48
Attachments	

Hi all,

A good information for ASCE design code-for the next projects with ASCE for occasional loads, please let me know, we need to look into some factors in PV Elite.

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
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From: Erki Kikas <erki.kikas@alfalaval.com>

Sent: 24. maj 2023 16:37

To: Kamalesh Pathak <kamalesh.pathak@alfalaval.com>; JorgenFridolin Helt <jorgenfridolin.helt@alfalaval.com>

Cc: Nicolas Nethol <Nicolas.Nethol@alfalaval.com>; Hesam Beigy <hesam.beigy@alfalaval.com>

Subject: FW: AA0678 - Vessel Re-Validation Results

Hi Kamalesh & Jorgen,

Nicolas from Hesam's team helped me to re-validate the PreZero vessels in terms of vacuum and seismic (with extra focus on base plates).

We did the following analysis for all vessels:

1. Case 1:

- a. ASME mechanical calculation for vacuum, considering ASME material (SS 304L equivalent).
- b. ASCE 7-16 mechanical calculation for seismic, considering the mentioned ASME material and using the aligned input from customer civil engineer (as per ASCE 7-16 code):
 - i. Location specific seismic design requirements, as per original customer specification.
 - ii. Response modification factor, R = 3
 - iii. Overstrength factor, Omega0 = 2
 - iv. New load case: $1.4 \times HW + 1.0 \times EQ$, where HW = hydrostatic weight; EQ = earthquake load.

2. Case 2:

- a. EN Mechanical calculation for vacuum considering EN material (1.4307).
- b. ASCE 7-16 mechanical calculation for seismic, considering the mentioned EN material.
 - i. Otherwise, same input as per Case 1b.

3. Case 3:

- a. ASME mechanical calculation for vacuum, considering mentioned EN material.
- b. ASCE 7-16 mechanical calculation for seismic – Identical as Case 2b.

We used our standard PV Elite software.

Some interesting findings:

Calculation input, ASME related:

- EN material has better properties (mechanical strength, etc.) compared to ASME equivalent.

Calculation input, seismic related:

- As a standard here in AL, when we calculate vessels as per ASCE, we always consider factor 0.7 x for EQ (earthquake load). Meaning it is 30% reduction from full load. The argument for this comes from the ASME code. However, in terms of legal significance and local requirements (such as CA Building Code) ASCE can overrule ASME.
- In ASCE 7-16, Chapter 2.3: There are defined some load combinations. Some of the load combinations include earthquake load, which is factor 1 (meaning full effect). This is the main argument, why customer wanted us to consider the full seismic effect.
- In ASCE 7-16, Chapter 15: There is a Table 15.4-2. Seismic Coefficients for Nonbuilding Structures Not Similar to Buildings. This is where the R and Omega0 factors come into play. Again, this is something that customer pointed out, which we were not aware of.
- Conclusion: We just need to better align with customer and internally how we intend to

calculate our equipment (what input to consider, load combinations, etc.). Then we can avoid these long discussions and re-work later. Hesam has a document what defines is the AL vessel standard. Could be an idea to start using this.

Calculation results, ASME related:

- All vessels fail ASME calculation, as we don't comply with connection standards, knuckle radius, connection pipe thickness / standard, etc.
- All cyclones, except E20SE20 fail ASME calculation for vacuum. It is required extra stiffener rings to pass or increase plate thickness, etc.
- Conclusion: Our vessels are vacuum tanks, not pressure vessels. Therefore, they do not fall under ASME. In addition, we are using in our cyclones EN standards / EN materials / EN connections / EN piping – Already this is a conflict with ASME. We should not sell our vessels as ASME.

Calculation results, EN related:

- All vessels pass EN mechanical calculation, also cyclones for vacuum.

Calculation results, ASCE seismic related:

- Cyclone E10SE10 fails seismic calculation for base plate design for all cases. Possible solutions:
 - Mechanical modification: Increase plate thickness from 20 mm to 24 mm or increase bolt hole diam from 30 mm to 50 mm. – I will avoid this for now, as modifications can cause customer to feel insecure and then they will go even more into detail.
 - FEA specifically on vessel leg / base plate, considering the revised input. – I will go with this, as there is a high chance it will pass. Umesh has already made FEM analysis, we just need to adjust input.

For reference, I did the same analysis on the frame. There were no issues found. However, it was not possible to use some parameters such as the overstrength, Omega0.

Problem with frame analysis is that we don't do it in house. Our various suppliers use different software, some are more conservative. It could be an idea to have for seismic projects, frame base plates with 4 holes as default and thicker plate (10 to 20 mm).

Best Regards,



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From: Nicolas Nethol <Nicolas.Nethol@alfalaval.com>
Sent: 24. maj 2023 14:47

To: Hesam Beigy <hesam.beigy@alfalaval.com>; Erki Kikas <erki.kikas@alfalaval.com>
Subject: RE: AA0678 - Vessel Re-Validation

Hi Erki,

Please find attached the word document with my comments about ASME & EN 13445 Mechanical Calculations.

Regards

Best Regards
Nicolas Nethol



Nicolas Nethol. Mechanical Engineering
Static Equipment Design Engineer
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From: Hesam Beigy <hesam.beigy@alfalaval.com>
Sent: Wednesday, May 17, 2023 2:27 PM
To: Erki Kikas <erki.kikas@alfalaval.com>; Nicolas Nethol <Nicolas.Nethol@alfalaval.com>
Subject: RE: AA0678 - Vessel Re-Validation

Hi Erki,

Nico from our team would be able to support you with the other calculations.

[@Nicolas Nethol](#): I have created a folder: [BU FOS-Mechanical Calculation - AA0678 PreZero - All Documents \(sharepoint.com\)](#). The file that I worked with Erik is here



[Cyclone Sep Flash Dia 1600 TS45 E30SE30 - HBY 2-ASCE22.pv](#)

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
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From: Erki Kikas <erki.kikas@alfalaval.com>
Sent: 17. maj 2023 13:27
To: Hesam Beigy <hesam.beigy@alfalaval.com>
Subject: AA0678 - Vessel Re-Validation

Hi Hesam,

Regarding AA0678,

Please inform who is available for checking of vessels and frame.
Ideally, I would like to conclude with this task next week.

In addition, please clarify in writing the possible solution for the E30SE30 tank:
Vessels are going to be installed in California, USA. In our contract it says they are to be ASME design, but no U-stamp.

4.2.6. Vessels

- Cyclonic separator vessels
- Designed for full vacuum
- MoC AISI304
- Flanged connections for 2-phase inlet, vapor outlet and concentrate outlet
- Conical bottom
- Vortex breaker in concentrate outlet
- Pickled and passivated, standard finishing (no specific certification assumed).
- ASME design, no U-stamp



However, vessel name plate says as per Alfa Laval code. Nothing about ASME. In addition, vessels have been made using EN materials.

Can we then avoid having installing the 2 missing stiffener plates by calculating it as EN, as opposed to ASME? Is it legally correct to do it this way?

Best Regards,



Erki Kikas

Project Manager, Evaporation, BU Food Systems

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erki.kikas@alfalaval.com

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Classified by Alfa Laval as: Business

FW: Issue related to C2 card handling

30. maj 2023 14:11

Subject	FW: Issue related to C2 card handling
From	Emeline Rey
To	Asger Lindegaard; Hesam Beigy
Sent	30. maj 2023 14:05

Please see below, also relevant for you I believe!

Best Regards

Emeline Rey



Emeline Rey

Engineering Manager for the Mechanical Engineering & Design Team

Engineering & Supply Food Systems

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From: Mudassir Jikre <mudassir.jikre@alfalaval.com>
Sent: 30. maj 2023 12:51
To: JorgenFridolin Helt <jorgenfridolin.helt@alfalaval.com>; JørgenT Lykkeberg <jorgent.lykkeberg@alfalaval.com>; Christian Ryo <christian.ryo@alfalaval.com>; Bettina Godsk Jorgensen <bettinagodsk.jorgensen@alfalaval.com>; Anders Holten <anders.holten@alfalaval.com>; Henrik Francke <henrik.francke@alfalaval.com>; Arijan Rakipi <Arijan.Rakipi@alfalaval.com>; Pablo Almazan <pablo.botijaalmazan@alfalaval.com>; Christian Waaben <christianskott.waabben@alfalaval.com>; Emeline Rey <emeline.rey@alfalaval.com>; Lars LofgrenAndersen <lars.lofgrenandersen@alfalaval.com>
Cc: Raymond Oldfield <raymond.oldfield@alfalaval.com>; Sarah Terp <Sarah.Terp@alfalaval.com>; Per Martinsen <per.martinsen@alfalaval.com>; OleOverlade Petersen <oleoverlade.petersen@alfalaval.com>; RikkeBjerre Eberhard <rikkebjerre.eberhard@alfalaval.com>; Mikkel Husby <Mikkel.Husby@alfalaval.com>; Mina

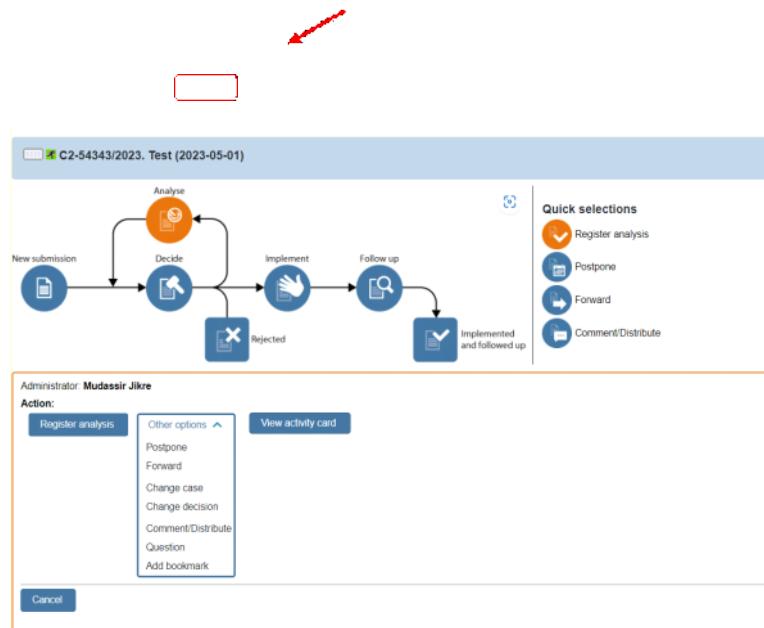
Baratvand <mina.baratvand@alfalaval.com>
Subject: Issue related to C2 card handling

Dear C2 users,

During various instances, it has been observed that C2 cards were not handled correctly as per the expected C2 workflow, which later resulted in showing incorrect data statistics in C2 Power BI Dashboards.

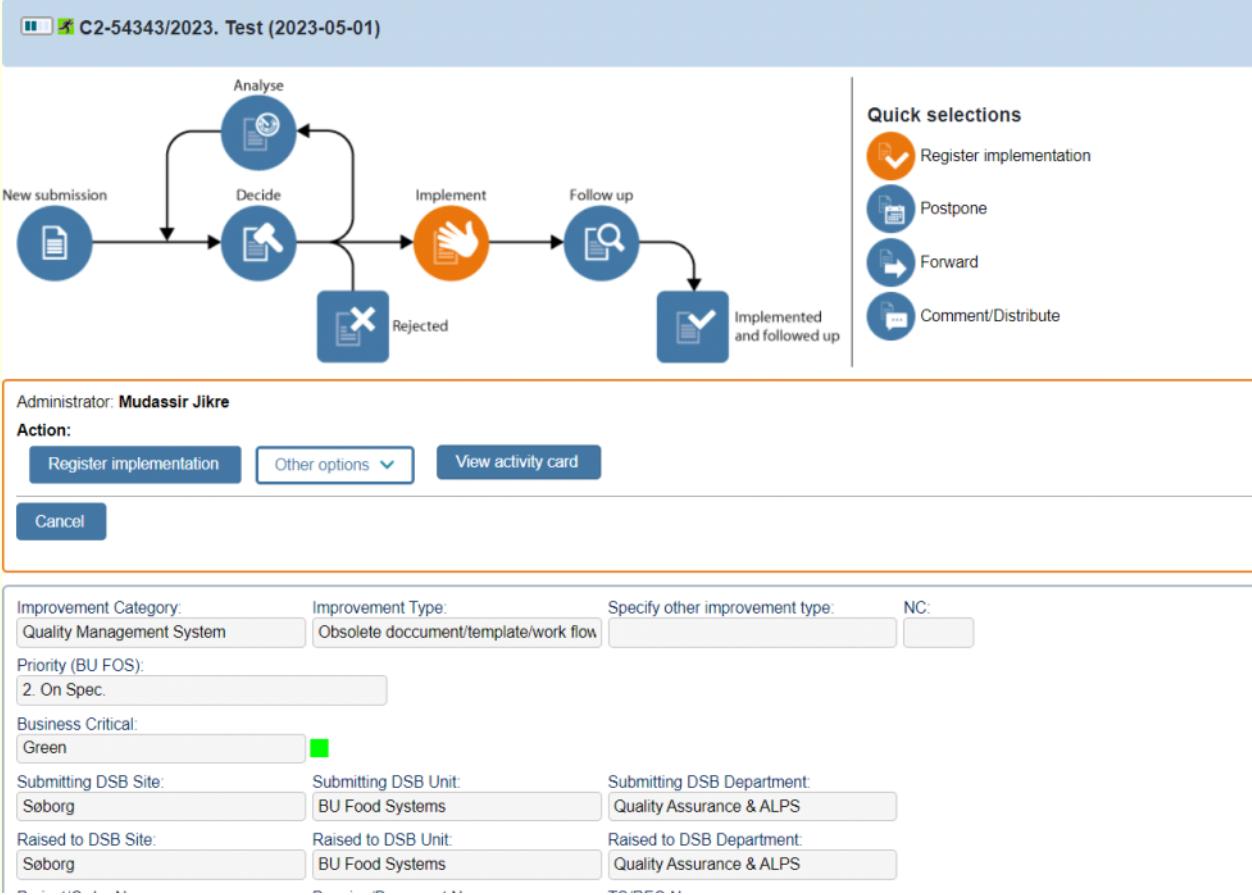
To understand how C2 works & for getting correct data registered in the system, We would like to bring your attention to the following points related to the C2 system.

- 1) You may raise a card to another department but you shall not "forward" the card during the "Decide/Analyze Phase" unless the respective department agrees that it needs to be forwarded to them.
- 2) Please ask or raise questions using the "Question" function given in the C2 system, do not use the "forward" option for the clarifications, this will re-assign the card to the forwarded department.



- 3) Cards will get registered on Raised to "Site+Unit+Department", who are executing the "Implement" phase. The department that will be implementing the card will get a count of the card as a receiver.





- 4) Follow-up stage is only a feedback mechanism it will not change the “Raised to registration” of the card.
- 5) In case of queries, it is recommended to use the C2 collaboration site for more information. [C2 Collaboration - Home \(sharepoint.com\)](#)

Best Regards

Mudassir Jikre



Mudassir Jikre

QHSE Manager, Quality Assurance & ALPS

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RE: Training on Weld Map Review

9. juni 2023 11:45

Subject	RE: Training on Weld Map Review
From	Hesam Beigy
To	Alexander BechJorgensen; Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	9. juni 2023 11:45

Dear all,

Please be informed that Siddharth has recorded a training session for checking weld map.

Video is now uploaded to our training folder and is now accessible for all.



[Best Regards
Hesam Beigy](#)



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From: Siddharth Gujar <Siddharth.Gujar@alfalaval.com>
Sent: 9. juni 2023 10:29
To: Hesam Beigy <hesam.beigy@alfalaval.com>
Cc: Rahul Jagtap1 <rahul.jagtap1@alfalaval.com>; Prakash Aware <Prakash.Aware@alfalaval.com>
Subject: RE: Training on Weld Map Review

Hi Hesam,
Recording for weld map review is ready..
Please have look , I already placed it on Training material folder



[Training on Weld Map Review-20230609_111447-Meeting Recording.mp4](#)

Thanks

--

Siddharth

Classified by Alfa Laval as: Business

-----Original Appointment-----

From: Prakash Aware <Prakash.Aware@alfalaval.com>
Sent: Friday, June 9, 2023 10:13 AM
To: Prakash Aware; Siddharth Gujar; Rahul Jagtap1
Subject: Training on Weld Map Review
When: 09 June 2023 11:00-12:00 (UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi.
Where: ICC SUNDERBANS -2nd Floor - Restricted (2p)

Microsoft Teams meeting

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FW: Contact in AL Korea -Corehex group

13. juni 2023 10:54

Subject	FW: Contact in AL Korea -Corehex group
From	Hesam Beigy
To	Alexander Bechjorgensen; Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weiже Liu
Sent	13. juni 2023 10:54

FYI: A little information for design code for Korea

Best Regards
Hesam Beigy



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From: Darly Yu <darly.yu@alfalaval.com>
Sent: 31. maj 2023 03:50
To: KinHung Woo <kinhung.woo@alfalaval.com>
Cc: Hesam Beigy <hesam.beigy@alfalaval.com>; Badrul Hisyam <Badrul.Hisyam@alfalaval.com>; Ethan Tong <Ethan.Tong@alfalaval.com>; Ashvini Rajakumar <Ashvini.Rajakumar@alfalaval.com>; Denise Loo <Denise.Loo@alfalaval.com>; Sujin Lee <Sujin.Lee@alfalaval.com>
Subject: RE: Contact in AL Korea -Corehex group

Hi KinHung,

I think these questions are related to the questions from Hesam.

In Korea, we have 3 different codes. KEA, KOSHA and KGS.

As per my previous email, you don't need to consider KGS because the medium is Oil.
But considering the design pressure and volume, you need to check KOSHA.
According to KOSHA, the pressure vessel is that

"A chemical process fluid handling vessel or a vessel used in other processes (air or nitrogen containing vessel), where the design pressure exceeds 0.2 Mpa of gauge pressure"

For retention tank, 1st stage reactor and 2nd stage reactor, please check the condition *"The temperature of a liquid in a vessel exceed its boiling point at atmospheric pressure."* If this condition is met, these vessels need to follow KEA.

BR,
Darly Yu

From: KinHung Woo <kinhung.woo@alfalaval.com>
Sent: Tuesday, May 30, 2023 7:35 PM
To: Darly Yu <darly.yu@alfalaval.com>; Sujin Lee <Sujin.Lee@alfalaval.com>
Cc: Hesam Beigy <hesam.beigy@alfalaval.com>; Badrul Hisyam <Badrul.Hisyam@alfalaval.com>; Ethan Tong <Ethan.Tong@alfalaval.com>; Ashvini Rajakumar <Ashvini.Rajakumar@alfalaval.com>; Denise Loo <Denise.Loo@alfalaval.com>
Subject: RE: Contact in AL Korea -Corehex group

Dear Darly and Sujin,

Alfa Laval Malaysia (E&S Department) has a new project with equipments to be commissioned in Korea.

In essence, we are planning to export some pressure vessels into Korea. These pressure vessel list is as shown below;

Equipment Data										
Equipment Tag No <i>*Only equipment under Alfa Laval's scope of supply are included in this list</i>	Equipment Name	Equipment Category	Part	Classification	Medium	Design Pressure (barg)	Design Temperature (°C)	Maximum Allowable Working Pressure (MPa)	Volume (m3)	
08R03	Retention Tank	Tank	Shell	Vacuum	Oil	-1/ATM	0/ 150	0.05	49.3	
08F02A/B/C/D	PE Filter Pressure Leaf Filter	Filter	Shell	Pressure	Oil	-1/ 10 barg	0/ 150	0.6	9.4	
08F08	Polish Filtration Unit Cricket Filter	Filter	Shell	Pressure	Oil	-1/ 14 barg	0/ 150	1.0	0.8	
19F02A/B	Feed Strainer Self Cleaning Filter	Filter	Shell	Pressure	Oil	-1/10 barg	0/ 150	0.6	0.07	
26R02	1st Stage Reactor	Tank	Shell	Vacuum	Oil	-1/ ATM	0/ 150	0.05	49.3	
26R03	2nd Stage Reactor	Tank	Shell	Vacuum	Oil	-1/ ATM	0/ 150	0.05	49.3	
26F02A/B/C/D	Bleaching Filter	Filter	Shell	Pressure	Oil	-1/ 10 barg	0/ 150	0.6	9.4	
26F08	Polish Filtration Unit Cricket Filter	Filter	Shell	Pressure	Oil	-1/ 14 barg	0/ 150	1.0	0.8	

Some are designed for vacuum, whereas some are designed for internal pressure. The medium inside these vessels are oil and some have steam heating internal coils.

Can you advise how we need to proceed with the local legislation in Korea, and which agency would need to be consulted upon? KOSHA, KEA?

Is it possible to get exemption from these parties?

Do we need the vessels designed and manufactured to UStamp instead?

Seeking your advice.

Thank you.

Best Regards,
KinHung Woo



KinHung Woo
Mechanical Engineer

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Classified by Alfa Laval as: Business

Promis-Scrolling Pictures-Workaround

13. juni 2023 10:55

Subject	Promis-Scrolling Pictures-Workaround
From	Hesam Beigy
To	Alexander BechJorgensen; Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu; POOJA MANE
Sent	13. juni 2023 08:39

Hi all,

I was made aware of a functionality in Promis, and I think it is a cool one.

We needed to scroll all the pictures in Promis library and find out some details of a tank. It was so time consuming (and annoying) using the Edge interface.

I have made a short



[document](#)which shows how to scroll pictures in Promis library in a much easier way.

Enjoy!

Best Regards

Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering

Technical Team Leader, E&S Food Systems

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Oils and Fats-Vessel List and Categories

13. juni 2023 11:23

Subject	Oils and Fats-Vessel List and Categories
From	Hesam Beigy
To	Nicolai Christoffersen; Alexander BechJorgensen; Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Cc	Emeline Rey
Sent	13. juni 2023 11:22

Dear all,

Emeline, myself and Global Technology have worked on a list of all tanks that could be possible to have in Oils and Fats. This list is global and global technology will use all their influence to make sure that quotations are written based on these names and new names are not invented, if possible. So, in case you are involved in the Bid phase, you are welcome to reinforce this position.

The list is now showing all tank names and allocated categories, the idea behind category is that when you find several tanks in the same category, from process point of view, one tank can be used for the other purpose within the same category (regardless of coil/agitator options)-it means that if we have:

Category A:

- Tank 1
- Tank 2
- Tank 3

And we are looking for a 9m3 Tank 1-but we do find a 9m3 Tank 3 only in our archive-since these Tank 1 and Tank 3 belong to same category A, then from process point of view it shall be possible to choose the existing 9m3 Tank 3 and do minimum modification and make it into a Tank 1 😊 hope this is clear-otherwise, lets have a dialogue in our next technical meeting.



[Link 1](#): is the link to Industry page, I am not sure if all of you can have access, if you don't have access, use link 2



[Link 2](#): is a local copy of the main list copied to our vessel folder

Going forward, we might need to adjust our Hour Estimate tool to reflect these categories.
[@Nicolai Christoffersen](#): FYI

Best Regards
Hesam Beigy



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FW: Update to RACI Matrix

15. juni 2023 10:22

Subject	FW: Update to RACI Matrix
From	Hesam Beigy
To	Alexander BechJorgensen; Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	15. juni 2023 09:52

Update of RACI matrix for approval of documentation and completion of delivery

Best Regards
Hesam Beigy



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From: Christian Ryo <christian.ryo@alfalaval.com>
Sent: 15. juni 2023 09:08
To: Aysan Azheer <Aysan.Azheer@alfalaval.com>; Erik Gambarini <Erik.Gambarini@alfalaval.com>; Hamza Cil <Hamza.Cil@alfalaval.com>; Ian Duus <ian.duus@alfalaval.com>; Jacob Thers <Jacob.Thers@alfalaval.com>; Jesper Jensen <jesper.jensen@alfalaval.com>; Nicolai Christoffersen <nicolai.christoffersen@alfalaval.com>; Philipp Bueser <Philipp.Bueser@alfalaval.com>; Thillai Kali <thillai.kali1@alfalaval.com>; Victor Heltoft <victor.heltoft@alfalaval.com>; Vitaliy Shevchenko <vitaliy.shevchenko@alfalaval.com>
Cc: Bettina Godsk Jorgensen <bettinagodsk.jorgensen@alfalaval.com>; Katja Parry <Katja.Parry@alfalaval.com>; Per Martinsen <per.martinsen@alfalaval.com>; Mudassir Jikre <mudassir.jikre@alfalaval.com>; Hesam Beigy <hesam.beigy@alfalaval.com>; Asger Lindegaard <asger.lindegaard@alfalaval.com>; Emeline Rey <emeline.rey@alfalaval.com>; Lars LofgrenAndersen <lars.lofgrenandersen@alfalaval.com>; Anders Holten <anders.holten@alfalaval.com>
Subject: RE: Update to RACI Matrix

RACI is now updated:

Please check if You can see it.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
	Made by:	Reviewed by:	Approved by:	Date	Rev.																		Comment
Responsibility Matrix	DKSOERY	DKSOCRO	06-11-2018	3A																			Updated Inspection Activities
Activity	Role																						EOS Work Distribution
	Global Sales	Global Technology	Sc	Other BU	Industry & Engineering Manager / Group Leader	Quotation Engineer	PM	Technical PM	Process Engineer	Technical Designer CADISON	Mechanical Engineer	Mech & Design Eng.	INVENTOR	Vessel Responsible (Mech. & Design Eng.)	Automation & Electrical Engineer	Purchaser	Project Assistant Order Handler	Shipping	Supplier	Solution Responsible	Workshop (If Produced in E&S Workshop)	Commissioning Eng.	Doc Hub
327 Inspection of critical equipment																							
318 Documentation / Manual																							
319 Request documentation from Suppliers								I	A	R													A/R
320 Check and Upload documentation received from Suppliers								I	A	R													1
321 Spare part list for project								A	R														
322 Operator Manual								A/R	C														
323 Installation Manual								A/R	R														
324 Check availability of all documentation in Promis + make request for Doc Hub								A	R	R	R	R	R	R	R								
325 Inform purchase when documentation has been received, checked and approved								I	A	C	C	C	C	C	C								
326 Compilation of all project documents								I	A/R														
327 Documentation review								Make sure that the correct metadata is put for the final documentation files in															
								328 Promis (Content type = AL for Service + System and Module number entered)															
								329 Enter "Serial Number" of AL main equipment in "Project Details" in Promis															
								Notify the project number to Inge Moller once the correct Module number/system															

Best Regards

Christian Ryo



Christian Ryo

Industry & Engineering manager, Oils & Fats Systems, Engineering

Tel direct: +4539536275 - Mobile: +45277778502

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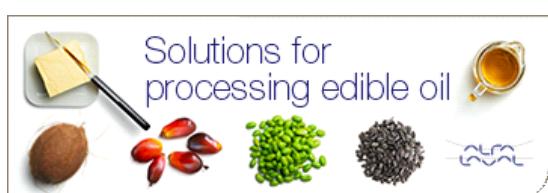
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From: Christian Ryo

Sent: Thursday, June 15, 2023 8:49 AM
To: Aysan Azheer <aysan.azheer@alfalaval.com>; Erik Gambarini <erik.gambarini@alfalaval.com>; Hamza Cil <hamza.cil@alfalaval.com>; Ian Duus <ian.duus@alfalaval.com>; Jacob Thers <jacob.thers@alfalaval.com>; Jesper Jensen <jesper.jensen@alfalaval.com>; Nicolai Christoffersen <nicolai.christoffersen@alfalaval.com>; Philipp Bueser <philipp.bueser@alfalaval.com>; Thillai Kali <thillai.kali1@alfalaval.com>; Victor Heltoft <victor.heltoft@alfalaval.com>; Vitaliy Shevchenko <vitaliy.shevchenko@alfalaval.com>
Cc: Bettina Godsk Jorgensen <bettinagodsk.jorgensen@alfalaval.com>; Katja Parry <katja.parry@alfalaval.com>; Per Martinsen <per.martinsen@alfalaval.com>; Mudassir Jikre <mudassir.jikre@alfalaval.com>; Hesam Beigy <hesam.beigy@alfalaval.com>; Asger Lindegaard <asger.lindegaard@alfalaval.com>; Emeline Rey <emeline.rey@alfalaval.com>; Lars LofgrenAndersen <lars.lofgrenandersen@alfalaval.com>; Anders Holten <anders.holten@alfalaval.com>
Subject: Update to RACI Matrix

Dear Team

As there often is payment related to sub suppliers delivery of certificates and documentation we need to align the way we work.

Today this is not 100% clear have the workflow is, so We have decided to add an extra step in the RACI Matrix.

The extra step is described below, and the RACI Matrix will be updated accordingly.

Inform purchase when documentation has been received, checked and approved.

This applies for each PO.

Best Regards

Christian Ryo



Christian Ryo

Industry & Engineering manager, Oils & Fats Systems, Engineering

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FW: Max Shipping Dimensions for vessels

16. juni 2023 08:43

Subject	FW: Max Shipping Dimensions for vessels
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Cc	Joy Butcher; Wagner Yatsuda; Ismar Kuralic; Mikkel Husby; Rocio Shirley; Emeline Rey
Sent	16. juni 2023 08:43

Dear Vessel Team,

We had a discussion yesterday with supply team looking into shipping complications. It seems that for some projects, we probably could have been helping project team with decreasing shipping cost.

In order to optimize the shipping cost, I would propose to practice this procedure that has been done for few projects and seems to be working

- Most of vessels
 - o When choosing references or making new tanks, please take note on the shipping dimensions, as a rule of thumb, **Shell ID shall be below 3,6m and Total height below 11,4m**-if you need to exceed from these dimensions for layout or other reasons, you are encouraged to discuss the matter with PM and Shipping and make a common decision
 - o If references are pre-chosen, you are super welcome to challenge the decision and flag the potential cost of non-easy shipping
 - o For vessels on brackets (lugs), you are encouraged to consider the total Width of Cargo which shall be preferably below 4m, for vessels on legs/skirts, normally we would be able to keep the max 4m width of cargo by placing the lifting and tailing lugs in a way that total width stays within 4m with max Shell ID 3,6m
- SCD, Deodorizer, Scrubber
 - o Here we wont be able to do much here, so, we wont be able to decrease the dimensions, for example the case below mentioned by Christian, there is no way around it
- maybe Dryer, Deaerator, Break Tank, Bleacher
 - o Sometimes for these tanks we can do little adjustment, take dialogue with Global Technology/Process team if you see sizes beyond the standard shipping sizes

Please let me know what you think about this, in case you had any questions/comments/doubts, you can as usual contact me or bring it up in our next Technical Meeting.

Best Regards
Hesam Beigy



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From: Christian Waaben <christianskott.waabben@alfalaval.com>
Sent: 15. juni 2023 19:37
To: Rocio Shirley <Rocio.Shirley@alfalaval.com>; Hesam Beigy <hesam.beigy@alfalaval.com>
Cc: Jana Koubatian <Jana.Koubatian@alfalaval.com>
Subject: RE: Max Shipping Dimensions for vessels

Hello Hesam,

We recommend, from a shipping perspective, not to produce vessels any higher than 1160 mm in order to fit on a flat rack container (transport length of 1160 cm max) - this is shipping for sea freight of cause.

When it comes to the inland transportation we need to apply for road permits for vessels exceeding total length of approximately 1400 cm. But this depends on the origin and destination.

For the diameter (transport width and height) it starts to get critical exceeding 400 cm. We need to check that carriers are willing to accept vessels exceeding 400 cm, and also do road survey at origin and destination.

In general we can transport everything, but from a total cost point of view I think we should aim to stick for above.

For the Bio Oils project we needed to charter a smaller vessel (here meaning ship) for the Stripping Colum being approx. 2800 x 420 x 420 cm . This with a cost of EUR 250.000,00 also covering the 6 other units for this project. If we could have fitting on flat rack containers we would have been looking at total cost of EUR 100.000,00 - 150.000,00.

Thanks,

Best Regards

Christian Waaben



Christian Waaben

Shipping & Logistics Manager

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From: Rocio Shirley <Rocio.Shirley@alfalaval.com>
Sent: Thursday, June 15, 2023 7:13 PM
To: Hesam Beigy <hesam.beigy@alfalaval.com>; Christian Waaben <christianskott.waaben@alfalaval.com>
Cc: Jana Koubatian <Jana.Koubatian@alfalaval.com>
Subject: RE: Max Shipping Dimensions for vessels

Adding Jana for visibility

Probably she can answer this

thanks

Classified by Alfa Laval as: Business

From: Hesam Beigy <hesam.beigy@alfalaval.com>
Sent: Thursday, June 15, 2023 8:19 AM
To: Christian Waaben <christianskott.waaben@alfalaval.com>; Rocio Shirley <Rocio.Shirley@alfalaval.com>

Subject: Max Shipping Dimensions for vessels

Hi Christian and Rocio,

It seems that in the project execution, we sometimes forget that we need to keep vessel dimensions within the normal shipping dimensions.

Could you please tell me what is absolute max LxWxH for standard shipping of vessels without need of special transport/escort?

Thanks.

Best Regards
Hesam Beigy



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FW: Shipping Saddles-Recommended Width

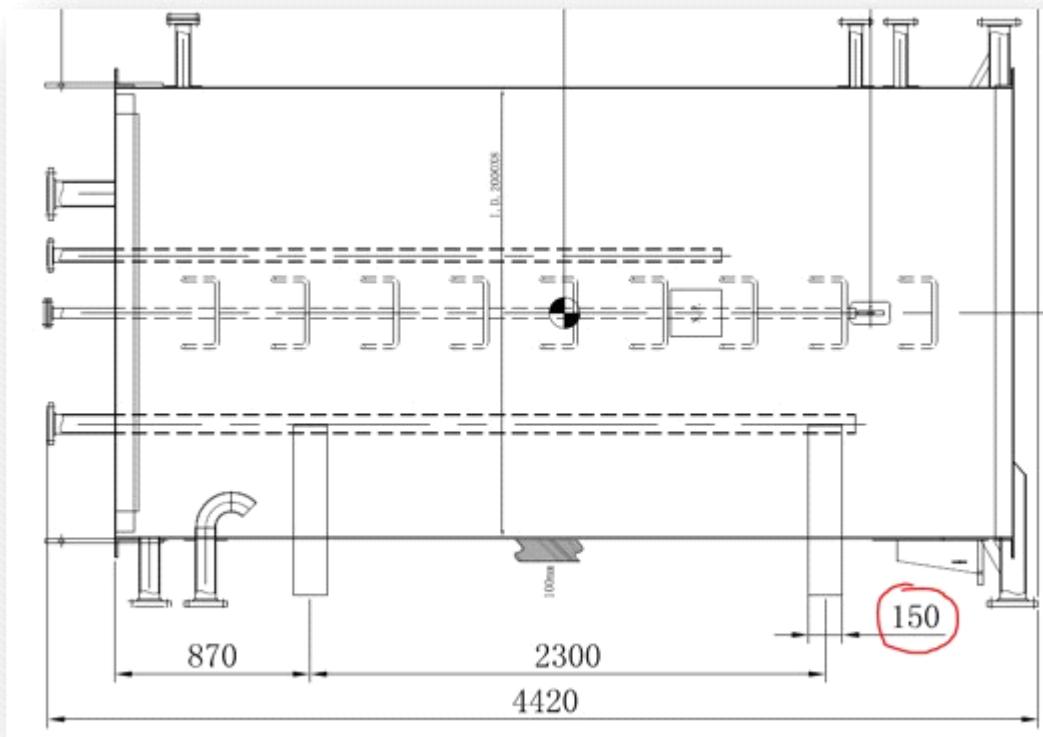
16. juni 2023 10:06

Subject	FW: Shipping Saddles-Recommended Width
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Cc	Rocio Shirley; Mikkel Husby; Ismar Kuralic; Joy Butcher; Wagner Yatsuda; Christian Waaben
Sent	16. juni 2023 10:06

Hi all,

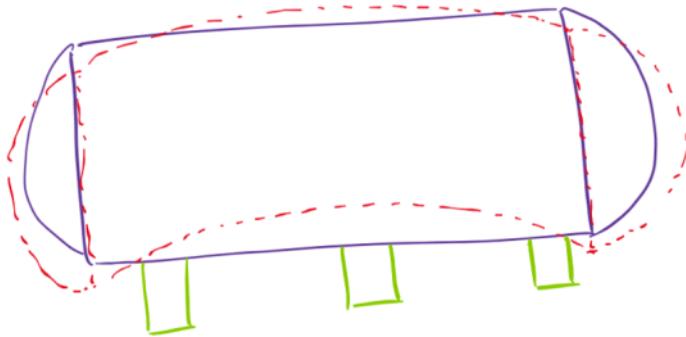
Please see below rule of thumb for dimension of support saddle width for transportation.

As mentioned below, this is only a guide, and it is not a requirement, but when receiving the shipping drawing from vendors, it could be used as a valuable reference.



Diameter	Weight	Saddle width
<1 m	<3 ton	100~150 mm
1~2 m	3~5 ton	150~200 mm
2~3 m	5~10 ton	250~300 mm
>3 m	>10 ton	300~350 mm

Please note that based on my research, we only shall use 2 saddle support for transportation, so, any number of saddle greater than 2 is not allowed. The reason is that if we use for example 3 saddle supports, there is a risk of deformation on shell with 3 lashing location on the truck bed (as an example shown below, if middle support is higher, there is a risk we will make a banana - delicious but not what we want 😊).



FYI: All TS templates (for Oils and Fats, Evaporation and Brewery) is now updated with below text and highlighted in yellow, which means in each project, you need to align with PM and Shipping if the text need to be updated/removed:

Besides the code requirement, all vessels must be shipped on saddles. All tanks must have 2 supports only and a greater number of supports is not allowed-until clearly approved by Alfa Laval. Support of tank by legs during the transport is not allowed. For saddle width, table below can be used as a recommendation, but determining final width of support saddles is supplier responsibility and it shall be chosen in a way that shell will not face any local deformation during transport:

Diameter	Weight	Saddle width
<1 m	<3 ton	100~150 mm
1~2 m	3~5 ton	150~200 mm
2~3 m	5~10 ton	250~300 mm
>3 m	>10 ton	300~350 mm

Best Regards
Hesam Beigy



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From: Ken Xu SHLH <ken.xu@shlh.com.cn>
Sent: 16. juni 2023 08:42
To: Hesam Beigy <hesam.beigy@alfalaval.com>
Subject: 回复 : Shipping Saddles-Recommended Width

CAUTION. This e-mail originated from outside of Alfa Laval. Please be mindful of attachments and links.
Hi Hesam,

There is not any critical standard. Please find the below list for your reference.

Diameter	Weight	Saddle width
<1 m	<3 ton	100~150 mm
1~2 m	3~5 ton	150~200 mm
2~3 m	5~10 ton	250~300 mm
>3 m	>10 ton	300~350 mm

Cheers, Ken

Classified by Alfa Laval as: Business

Tube sheet calculation by PV Elite

16. juni 2023 15:57

Subject	Tube sheet calculation by PV Elite
From	Amir Eslampanah
To	Hesam Beigy; Nicolas Nethol; Siddharth Gujar; Reza Mahmoudpour; Nikhil Varghese; Asger Lindegaard
Sent	15. juni 2023 17:00

Greetings,

I found a helpful webinar by Hexagon in which a tube sheet is modeling in PV Elite. It does not cover everything but sounds like a good start. There are two parts but the first part is not about tube sheet:

[Part 2](#)

Best regards,
Amir Eslampanah



Amir Eslampanah

Senior Design Engineer, E&S Food Systems

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Classified by Alfa Laval as: Business

RE: Material Comparison Table

21. juni 2023 13:40

Subject	RE: Material Comparison Table
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	21. juni 2023 13:39

Hi all,

Nikhil has found a table which comes handy when comparing materials in various standards.

See this

[PDF table.](#)

Best Regards
Hesam Beigy



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Technical Team Leader, E&S Food Systems
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From: Nikhil Varghese <Nikhil.Varghese@alfalaval.com>

Sent: 16. maj 2023 16:25
To: Hesam Beigy <hesam.beigy@alfalaval.com>
Subject: Material Comparison Table

Hello Hesam,
Found an interesting table for the materials we use.
Could be useful in our team for projects.

Thank you 😊

Best Regards,
Nikhil Varghese



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Design Engineer
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Classified by Alfa Laval as: Business

RE: Compensator Design and Specification session recording

23. juni 2023 10:21

Subject	RE: Compensator Design and Specification session recording
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	23. juni 2023 10:21

Hi all,

For your information, I have now updated the compensator spec sheet and added a sample drawing in a new tab in the file. It might be beneficial to send that also together with the RFQ, so, supplier knows what we are looking for.

Native PDF file of the drawing is also added to our library with below link.

[Link to specification in QMS](#)



[Link to sample drawing in our library](#)

Best Regards
Hesam Beigy



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From: Hesam Beigy

Sent: 6. oktober 2022 09:54

To: Alexander BechJorgensen <Alexander.BechJorgensen@alfalaval.com>; Amir Eslampanah <amir.eslampanah@alfalaval.com>; Anatolii Harkusha <anatolii.harkusha@alfalaval.com>; Asger Lindegaard <asger.lindegaard@alfalaval.com>; KinHung Woo <kinhung.woo@alfalaval.com>; Linus Michael <linus.michael@alfalaval.com>; Nikhil Varghese <nikhil.varghese@alfalaval.com>; Prakash Aware <prakash.aware@alfalaval.com>; Pranay Kapse <pranay.kapse@alfalaval.com>; Rahul Jagtap1 <rahul.jagtap1@alfalaval.com>; Satish Jooluri <satish.jooluri@alfalaval.com>; Siddharth Gujar <siddharth.gujar@alfalaval.com>; Weijie Liu <weijie.liu@alfalaval.com>

Subject: RE: Compensator Design and Specification session recording

There is another session available. See



[here](#).

Best Regards
Hesam Beigy



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Technical Team Leader, E&S Food Systems
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Classified by Alfa Laval as: Business

From: Hesam Beigy

Sent: 28. september 2022 14:26

To: Alexander BechJorgensen <Alexander.BechJorgensen@alfalaval.com>; Amir Eslampanah <amir.eslampanah@alfalaval.com>; Anatolii Harkusha <anatolii.harkusha@alfalaval.com>; Asger Lindegaard <asger.lindegaard@alfalaval.com>; KinHung Woo <kinhung.woo@alfalaval.com>; Linus Michael <linus.michael@alfalaval.com>; Nikhil Varghese <nikhil.varghese@alfalaval.com>; Prakash Aware <prakash.aware@alfalaval.com>; Pranay Kapse <pranay.kapse@alfalaval.com>; Rahul Jagtap1 <rahul.jagtap1@alfalaval.com>; Satish Jooluri <satish.jooluri@alfalaval.com>; Siddharth Gujar <siddharth.gujar@alfalaval.com>; Weijie Liu <weijie.liu@alfalaval.com>

Subject: Compensator Design and Specification session recording

Hi all,

For a project, AD0673, we needed to review spec for compensators, we went through the spec and recorded the session, so, all of you can go through it and get familiar with the process. Documents that was discussed during this session is also attached.

Here is the link of the recording:



[Compensator Specification and Review-20220928_131222-Meeting Recording.mp4](#)

Best Regards
Hesam Beigy



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Classified by Alfa Laval as: Business

Packing and Shipping of tanks

23. juni 2023 15:25

Subject	Packing and Shipping of tanks
From	Hesam Beigy
To	Amir Eslampnah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	23. juni 2023 15:24
Attachments	 

Hi all,

Seems that we have had few incidents lately due to wrong packing, saddle design during shipping.

Please be very careful and make sure below steps are done for your projects:

- Lifting drawings: these drawings must be submitted to AL for review, we need to calculate lifting and tailing scenarios-lifting/support by legs is generally not allowed
- Loading inspection: during loading an AL inspector shall be present to secure loading is done correctly and lifting points are clear as per lifting instructions
- Upon arrival to site, we need to ask client to confirm tanks are delivered without damage and take over the tanks-normaly this need to happen max 1-2 weeks after delivery

See damage reports attached and pictures in this mail thread.

Best Regards
Hesam Beigy



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From: AnneCathrine Lillelund <annecathrine.lillelund@alfalaval.com>
Sent: 23. juni 2023 14:42
To: Hesam Beigy <hesam.beigy@alfalaval.com>; Joy Butcher <Joy.Butcher@alfalaval.com>; ROBERTO DOMINGUEZ <Roberto.Dominguez@alfalaval.com>; OleOverlade Petersen <oleoverlade.petersen@alfalaval.com>
Subject: FW: G150 packing

Best Regards

Anne Cathrine Lillelund



Anne Cathrine Lillelund

Senior Process Engineer, Brewery Projects

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Contact me on Teams: <sip:annecathrine.lillelund@alfalaval.com>



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Classified by Alfa Laval as: Business

From: RichardTeles Neves <RichardTeles.Neves@alfalaval.com>

Sent: Friday, June 16, 2023 10:29 AM

To: Rocio Shirley <Rocio.Shirley@alfalaval.com>

Cc: AnneCathrine Lillelund <annecathrine.lillelund@alfalaval.com>; ROBERTO DOMINGUEZ <Roberto.Dominguez@alfalaval.com>; CC0794-G150 <CC0794@alfalaval.com>

Subject: G150 packing

Rocio,

Please confirm with Packser & Red boxes as follows:

(for me it is clear on photo's Red Boxes applied another layer between the blue plastic and the tank shell)

	Falco	Proffinox – SB03.BT02 SB04.BT01	Proffinox – other	Acura	
Packser – cradles	Please confirm who made the metal cradles	Packser made these wooden cradles as I understand			
Packser - wrapping	Please advise what layers of wrapping were applied	Please advise what layers of wrapping were applied			
Red boxes – cradles		Please confirm who made the metal cradles			
Red boxes - wrapping		Please advise what layers of wrapping were applied			
? – cradles			Who was resp for this? Acura or 3 rd party		
? - wrapping			Who was resp for this? Acura or 3 rd party		

Proffinox

We use "red boxes" to make packing on previous Profinox deliveries,

Q21.BT01	GLD.FNS.Q21.BT01.T K01	PFX-22-006-02 -1	PRE-RUN BEER TANK 51BBL (splD22) filtration buffer	Proffinox
Q22.BT02	GLD.FNS.Q22.BT02.T K01	PFX-22-006-02 -2	PRE-RUN BEER TANK 51BBL (splD22) filtration buffer	Proffinox
Q23.BT03	GLD.FNS.Q23.BT03.T K01	PFX-22-006-02 -3	PRE-RUN BEER TANK 51BBL (splD22) filtration buffer	Proffinox
CB1.BT01	GLD.FRM.CB1.BT01.T K01	PFX-22-006-01 -1	CENTRIFUGUE BEER BUFFER TANK 90BBL (splD16)	Proffinox
CB1.BT02	GLD.FRM.CB1.BT02.T K01	PFX-22-006-01 -2	CENTRIFUGUE BEER BUFFER TANK 90BBL (splD16)	Proffinox
CB1.BT03	GLD.FRM.CB1.BT03.T K01	PFX-22-006-01 -3	CENTRIFUGUE BEER BUFFER TANK 90BBL (splD16)	Proffinox
SB01.BT01	GLD.FNS.SB01.BT01.1 TK01	PFX-22-006-03 -1	BEER SURGE TANK 100BBL (splD41)	Proffinox
SB03.BT01	GLD.FNS.SB03.BT01.1 TK01	PFX-22-006-03 -2	BEER SURGE TANK 100BBL (splD41)	Proffinox





And "packser" for these

SB03.BT02	GLD.FNS.SB03.BT02.TK01	PFX-22-006-03-3	BEER SURGE TANK 100BBL (spID41)	Proffinox
SB04.BT01	GLD.FNS.SB04.BT01.TK01	PFX-22-006-03-4	BEER SURGE TANK 100BBL (spID41)	Proffinox





Falco

Packser has made packing for Falco.



FX7.CP05 / 1671 / 03-06-2023



YH1.YP04 / 1617 / 17-04-2023

ACURA





Other – Red boxes
Proffinox 03-05 – Packser (need to replace Red boxes / walked off the site) [did Falco, Acura
tanks – shrink wrap]

Best Regards

Richard Neves



Richard Neves
Senior Project Manager
Customer Project Management, Food Systems
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Classified by Alfa Laval as: Business

Half pipe jacket/coil for tanks with installations within EU

11. juli 2023 13:16

Subject	Half pipe jacket/coil for tanks with installations within EU
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	11. juli 2023 13:14

Hi all,

We are having dialogue from time to time for tanks and coils (inside or outside) and PED requirement. In case you were working on any of EU projects, please make sure that you use PED official guideline B-04 with below descitption.

Long story short, a coil in/outside the tank can mean that the tank+coil need to be CE marked. Please note that as per this guideline, we cannot CE mark the coil separately, if it falls within PED requirement for CE marking.

Logically, we would like to avoid coils as much as we can, so, we reduce cost and we can use "AL design" instead of ASME/EN designs.

In case you needed more information or help for your projects, I would be glad to help.

Guideline B-04

Pressure Equipment Directive PED 2014/68/EU Commission's Working Group "Pressure"

Guideline related to: Article 2(2) and Article 2 (3)

Question	Which type of pressure equipment is a heat exchanger ?
Answer	<p>Heat exchangers are considered to be vessels.</p> <p>As an exception, heat exchangers which consist of straight or bent pipes which may be connected by common circular header(s) made also from pipe are classified according to Article 2 (3) last sentence as piping if, and only if, the three following conditions are met:</p> <ul style="list-style-type: none">- air is the secondary fluid,- they are used in refrigeration systems, in air conditioning systems or in heat pumps,- the piping aspects are predominant. <p>For such heat exchangers with headers, the piping aspects are pre-dominant if $\text{Cat}_p \geq \text{Cat}_v$ where:</p> <p>Cat_p = Abstract category that would be applicable according to the PED if the heat exchanger were classified as piping using DN of the biggest header.</p> <p>Cat_v = Abstract category that would be applicable according to the PED if the biggest header, without the connecting piping, were classified as a vessel (i.e. for determining Cat_v, not the total volume V of the heat exchanger is taken into account, but only the volume V_H of the biggest header).</p> <p>When the result is $\text{Cat}_v > \text{Cat}_p$, the appropriate vessel classification shall be determined by using the volume of the entire heat exchanger (headers plus connecting tubes).</p> <p>The abstract category approach for determining the predominant aspect is</p>

	<p>When the result is Cat₁>Cat₂, the appropriate vessel classification shall be determined by using the volume of the entire heat exchanger (headers plus connecting tubes).</p> <p>The abstract category approach for determining the predominant aspect is limited to this specific application dealt with in Article 2 (3). The use of this concept outside this context is not supported by the directive and thus is not permissible.</p>
Reason	
Note	<p>Piping heat exchangers which do not meet the requirements of the exception are not to be classified according to the last sentence of Article 2 (3) as piping; they are to be classified as vessels. For example:</p> <ul style="list-style-type: none"> - Heat exchangers which are not used in refrigeration systems, in air conditioning systems or in heat pumps, and for which the main purpose is to heat or cool the contained fluid by using the surrounding air; - Half-pipe coil or a similar « jacket » construction that heat or cool a vessel;

PED_2014-68-EU_Guidelines_EN_v6.0

Page 70 of 246

- Pipe coil that is inside a vessel to heat or cool its content.

Accepted by Working Party Guidelines (WPG) on:	30/06/2015
Accepted by Working Group Pressure (WGP) on:	08/01/2016

Best Regards
Hesam Beigy



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From: Hesam Beigy

Sent: 19. februar 2021 15:19

To: Preben Rasmussen <preben.rasmussen@alfalaval.com>

Cc: Jesper Jensen <jesper.jensen@alfalaval.com>; Alexey Shevchenko

<alexey.shevchenko@alfalaval.com>; Flemming Andersen <Flemming.Andersen@alfalaval.com>;

Deepak Yadav <deepak.yadav@alfalaval.com>

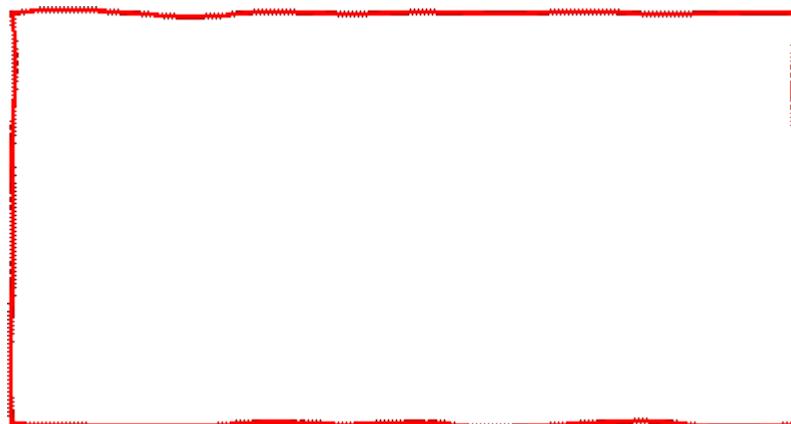
Subject: RE: AD0598-Half pipe coils

Hi Preben,

I am lacking info on initial agreements between E&S and GT (MU) regarding coils. Could you please give input on below topic?

The concern is raised by me for Shell Netherland-based on Guideline B-04 that we discussed briefly over the mail. We end up with Category 2 for majority of vessels in Shell based on this official guideline.

Thanks.



Guideline B-04

**Pressure Equipment Directive PED 2014/68/EU
Commission's Working Group "Pressure"**

Guideline related to: Article 2(2) and Article 2 (3)

Question	Which type of pressure equipment is a heat exchanger ?
.	.

Question	Which type of pressure equipment is a heat exchanger ?
Answer	<p>Heat exchangers are considered to be vessels.</p> <p>As an exception, heat exchangers which consist of straight or bent pipes which may be connected by common circular header(s) made also from pipe are classified according to Article 2 (3) last sentence as piping if, and only if, the three following conditions are met:</p> <ul style="list-style-type: none"> - air is the secondary fluid, - they are used in refrigeration systems, in air conditioning systems or in heat pumps, - the piping aspects are predominant. <p>For such heat exchangers with headers, the piping aspects are pre-dominant if $\text{Cat}_p \geq \text{Cat}_v$, where:</p> <p>$\text{Cat}_p$ = Abstract category that would be applicable according to the PED if the heat exchanger were classified as piping using DN of the biggest header.</p> <p>Cat_v = Abstract category that would be applicable according to the PED if the biggest header, without the connecting piping, were classified as a vessel (i.e. for determining Cat_v, not the total volume V of the heat exchanger is taken into account, but only the volume V_H of the biggest header).</p> <p>When the result is $\text{Cat}_v > \text{Cat}_p$, the appropriate vessel classification shall be determined by using the volume of the entire heat exchanger (headers plus connecting tubes).</p> <p>The abstract category approach for determining the predominant aspect is limited to this specific application dealt with in Article 2 (3). The use of this concept outside this context is not supported by the directive and thus is not permissible.</p>
Reason	

	- Pipe coil that is inside a vessel to heat or cool its content.
Accepted by Working Party Guidelines (WPG) on:	30/06/2015
Accepted by Working Group Pressure (WGP) on:	08/01/2016

Best Regards

Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering

Technical Lead, E&S Food Systems

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From: Alexey Shevchenko <alexey.shevchenko@alfalaval.com>

Sent: 19. februar 2021 14:55

To: Flemming Andersen <Flemming.Andersen@alfalaval.com>; Deepak Yadav <deepak.yadav@alfalaval.com>

Cc: Jesper Jensen <jesper.jensen@alfalaval.com>; Hesam Beigy <hesam.beigy@alfalaval.com>

Subject: RE: AD0508 Half ring coils

<deepak.yadav@alfalaval.com>

Cc: Jesper Jensen <jesper.jensen@alfalaval.com>; Hesam Beigy <hesam.beigy@alfalaval.com>

Subject: RE: AD0598-Half pipe coils

Dear All,

Half pipe was accepted alternative in past. Instead of having coils inside of the vessel we shifted to jacketed solution. Issue with coils is following: risk to get pressurized vessel by steam and risk to get oil into condensate line.

Potential risk to get oil into condensate which is reused for steam generation makes some of our customers scared and demanding to avoid coils. That is a reason why we took coils away.

The solution with using half pipe has been discussed with E&S and we never had response that is a problem.

The reason of necessity heating at cone part is described by Jesper. We never calculated area of this HE since it is not required for the process. It is emergency solution only.

If regulation has changed and we need to "rethink" the straight forward option is to switch to electrical heating. Steam tracing of the bottom is never effective due to quite low contact surface and heavy cost in maintains/installation as well.

Best Regards

Alexey Shevchenko



Alexey Shevchenko

Process Department Manager, Edible Oil Systems Global Technology

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alexey.shevchenko@alfalaval.com

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From: Flemming Andersen <Flemming.Andersen@alfalaval.com>
Sent: 19. februar 2021 10:51
To: Alexey Shevchenko <alexey.shevchenko@alfalaval.com>; Deepak Yadav <deepak.yadav@alfalaval.com>
Cc: Jesper Jensen <jesper.jensen@alfalaval.com>; Hesam Beigy <hesam.beigy@alfalaval.com>
Subject: RE: AD0598-Half pipe coils

You need to separate things

One thing is to keep temp during standstill. This is taken care of by electrical tracing and proper insulation in scope of B//Shell. By adding several half pipes we introduce major cost in approval of the entire vessel

Where we can agreed to have half pipe is where it is required to heat up process rest is standard engineering decision to cost

I am aware HAZOP has been done but we face major cost overrun with this (PED requirements) and really the issue of keeping temp is with Shell/BT

Therefor may I ask where GT specific requires half coils to heat the process during normal operation ?

Best Regards

Flemming Andersen





Flemming Andersen

Senior Project Management, Engineering & Supply

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From: Jesper Jensen <jesper.jensen@alfalaval.com>

Sent: 19. februar 2021 10:36

To: Hesam Beigy <hesam.beigy@alfalaval.com>; Flemming Andersen <Flemming.Andersen@alfalaval.com>

Cc: Alexey Shevchenko <alexey.shevchenko@alfalaval.com>; Deepak Yadav <deepak.yadav@alfalaval.com>

Subject: RE: AD0598-Half pipe coils

Hi Hesam

This Half coil is part of the HVO standard agreed with Global technology.

We need to insure we can get the process back online after a long emergency stop (power break, solid fat in tanks)

We have done the Hazop

Changing this now is a big deal.

Please clarify both with Global technology and project management (for this project)
Before we go down this road.

Best Regards

Jesper Jensen



Jesper Jensen

Senior Process Engineer Edible Oil Engineering

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Jesper.jensen@alfalaval.com

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-----Original Appointment-----

From: Hesam Beigy <hesam.beigy@alfalaval.com>

Sent: 19. februar 2021 09:52

To: Jesper Jensen; Sachin Khedkar; Flemming Andersen

Cc: JimL Andersen

Subject: AD0598-Half pipe coils

When: 23. februar 2021 13:00-14:00 (UTC+01:00) Brussels, Copenhagen, Madrid, Paris.

Where: Microsoft Teams Meeting

Hi Jesper and Sachin,

We are having problems with half pipe coils added to tanks.

Basically the issue is that there is a very new interpretation of PED which is saying that half pipe (or internal coils) must be considered as vessel (previously we were considering that as part of piping).

So, based on this, as per PED, we won't need CE marking only if we have volume of max 20 liters and 2,5 barg (for steam as media). This will give us around 0,5m² heat exchange area (interface of half coil and vessel's head).

In order to be able to minimize the cost, we need to look into application of the half pipe coils in the tanks.

~~area (interface of heat coil and vessels ready).~~

In order to be able to minimize the cost, we need to look into application of the half pipe coils in the tanks.

Basically suggestion is:

- Case1: If we need to use the heat to run the process: half pipe could be reasonable
- Case 2: If we only need warming up due to maintenance or start up, it is reasonable to add heat tracing instead

So, we need to fill out the table attached and make a decision on Coil/heat tracing matrix.

Br
Hesam

Microsoft Teams meeting

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FW: Cargill Rubik-Ducting Issue-Lessons learned and repair report

12. juli 2023 16:10

Subject	FW: Cargill Rubik-Ducting Issue-Lessons learned and repair report
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Cc	Umesh Ubarhande
Sent	12. juli 2023 16:10
Attachments	

A good read – just to see what can also go wrong 😊

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
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From: Hesam Beigy

Sent: 12. juli 2023 15:37

To: Benoit Fouwe <Benoit_Fouwe@cargill.com>; Steve Koerselman <Steve_Koerselman@cargill.com>; Andy Dell <Andy_Dell@cargill.com>; Kenneth Wen <Kenneth_Wen@cargill.com>; Timmy Tan <Timmy_Tan@cargill.com>; Herma Van Dasselaar <Herma_Van_Dasselaar@cargill.com>; Muhammad-

Hatta Zakaria <Muhammad-Hatta_Zakaria@cargill.com>

Cc: Alexey Shevchenko <alexey.shevchenko@alfalaval.com>; William Younggreen

<william.younggreen@alfalaval.com>; Christian Ryo <christian.ryo@alfalaval.com>; Bent Sarup

<bent.sarup@alfalaval.com>; Charles Martin <charles.martin@alfalaval.com>; Jeff Yau

<jeff.yau@alfalaval.com>; KinHung Woo <kinhung.woo@alfalaval.com>; WeiHeng Tee

<weihsing.tee@alfalaval.com>; Per Martinsen <per.martinsen@alfalaval.com>; Linus Michael

<linus.michael@alfalaval.com>

Subject: Cargill Rubik-Ducting Issue-Lessons learned and repair report

Dear all,

Following to our meeting today, please find updated Case report for Rubik ducting issue and lessons learned.

Kindly inform me if you have any comments or suggestions regarding the report.

Best Regards

Hesam Beigy



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-----Original Appointment-----

From: Benoit Fouwe <Benoit_Fouwe@cargill.com>

Sent: 6. juli 2023 10:34

To: Benoit Fouwe; Steve Koerselman; William Younggreen; Alexey Shevchenko; Andy Dell; Hesam Beigy; Kenneth Wen; Timmy Tan

Subject: Rubik : performance guarantees / status bellow report & discussion

When: 12. juli 2023 15:00-16:00 (UTC+01:00) Brussels, Copenhagen, Madrid, Paris.

Where: Réunion Microsoft Teams

CAUTION. This e-mail originated from outside of Alfa Laval. Please be mindful of attachments and links.

Agenda :

- Status final report on bellow repair and learnings
- Performance guarantees not realized

Réunion Microsoft Teams

Participez à partir de votre ordinateur, de votre application mobile ou de l'appareil de la salle

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Code secret : A5haK9

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172043974@t.plcm.vc

ID de vidéoconférence : 112 035 051 3

[Autres instructions VTC](#)

Ou composer le numéro (audio seulement)

[+33 1 85 65 29 74](tel:+33185652974),[#48698487](tel:48698487#) France, Paris

ID Conférence Téléphone: 486 984 87#

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[Pour en savoir plus](#) | [Options de réunion](#)

RE: Final and intermediate Inspections-How and what to do

14. juli 2023 11:31

Subject	RE: Final and intermediate Inspections-How and what to do
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	14. juli 2023 11:31
Attachments	      

Dear all,

We had a meeting with Linus, where we walked through the QC inspection during project

execution.

We recorded the session, and placed in our training portal-



You can also find the documents that was shown during the call attached.

In case you needed more information or had questions, you know how to find me 😊

Have a nice weekend all.

Best Regards
Hesam Beigy



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-----Original Appointment-----

From: Hesam Beigy
Sent: 12. juli 2023 12:42
To: Hesam Beigy; Linus Michael
Subject: Final Inspections-How and what to do
When: 14. juli 2023 10:30-11:30 (UTC+01:00) Brussels, Copenhagen, Madrid, Paris.
Where: Microsoft Teams Meeting

Microsoft Teams meeting

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RE: Compensator and ducting discussion

21. juli 2023 08:37

Subject	RE: Compensator and ducting discussion
From	Hesam Beigy
To	Chandraprakash Kurmi; Jitesh Dedhia; NileshK Patil; Deepak Shimpi; Pallavi Shivdas; Prashant Teke; Rahul Patil; Dhiraj Ghaywat; Amol Chavan; Kamlesh Badhe
Cc	Umesh Ubarhande; Amir Eslampanah; Anatolii Harkusha; Nicolas Nethol; Nikhil Varghese; Reza Mahmoudpour; Weijie Liu
Sent	21. juli 2023 08:28
Attachments	  

Dear all,

Thanks for the meeting and lots of good discussions.

Please find attached documents that we went through in our ducting and compensator discussions:

- [Link to compensator specification sheet](#)
- AL Duct Design specification
- Compensator sample drawing
- Compensator spec

For thermal expansion, as discussed, ASME Section II-part D specifies thermal expansion as below for 304 material:

Table TE-1
Thermal Expansion for Ferrous Materials (Cont'd)

Temperature, °C	Coefficients for 27Cr Steels			Coefficients for Austenitic Stainless Steels (Group 3) [Note (3)]			Coefficients for Other Austenitic Stainless Steels (Group 4) [Note (4)]		
	A	B	C	A	B	C	A	B	C
20	9.0	9.0	0	15.3	15.3	0	14.7	14.7	0
50	9.3	9.2	0.28	16.0	15.6	0.47	15.2	15.0	0.45
75	9.4	9.2	0.51	16.5	15.9	0.87	15.6	15.2	0.84
100	9.5	9.3	0.74	17.0	16.2	1.3	16.0	15.4	1.2
125	9.6	9.4	0.99	17.4	16.4	1.7	16.3	15.6	1.6
150	9.7	9.4	1.2	17.8	16.6	2.2	16.5	15.7	2.0
175	9.8	9.5	1.5	18.1	16.8	2.6	16.8	15.9	2.5
200	9.9	9.5	1.7	18.4	17.0	3.1	16.9	16.0	2.9
225	10.0	9.6	2.0	18.6	17.2	3.5	17.1	16.1	3.3
250	10.1	9.6	2.2	18.8	17.4	4.0	17.3	16.3	3.7
275	10.2	9.7	2.5	18.9	17.5	4.5	17.4	16.4	4.2
300	10.3	9.7	2.7	19.1	17.7	4.9	17.6	16.5	4.6
325	10.5	9.8	3.0	19.2	17.8	5.4	17.7	16.6	5.0
350	10.6	9.9	3.3	19.3	17.9	5.9	17.8	16.6	5.5
375	10.8	9.9	3.5	19.4	18.0	6.4	18.0	16.7	5.9
400	10.9	10.0	3.8	19.5	18.1	6.9	18.1	16.8	6.4
425	11.1	10.0	4.1	19.6	18.2	7.4	18.3	16.9	6.8
450	11.2	10.1	4.3	19.8	18.3	7.9	18.4	17.0	7.3
475	11.3	10.2	4.6	20.0	18.4	8.3	18.6	17.1	7.8
500	11.4	10.2	4.9	20.2	18.4	8.9	18.8	17.2	8.2
525	11.5	10.3	5.2	20.4	18.5	9.4	19.0	17.2	8.7
550	11.6	10.4	5.5	20.6	18.6	9.9	19.2	17.3	9.2
575	11.6	10.4	5.8	20.9	18.7	10.4	19.4	17.4	9.7
600	11.7	10.5	6.1	21.1	18.8	10.9	19.6	17.5	10.2
625	11.7	10.5	6.4	21.4	18.9	11.4	19.8	17.6	10.6
650	11.8	10.6	6.7	21.6	19.0	12.0	20.0	17.7	11.1
675	11.9	10.6	7.0	21.7	19.1	12.5	20.3	17.8	11.7
700	12.0	10.7	7.2	21.7	19.2	13.1	20.5	17.9	12.2
725	12.2	10.7	7.6	21.5	19.3	13.6	20.7	18.0	12.7
750	12.4	10.8	7.9	21.2	19.4	14.1	20.9	18.1	13.2
775	12.9	10.8	8.2	20.6	19.4	14.7	21.2	18.2	13.7
800	13.4	10.9	8.5	19.7	19.4	15.2	21.4	18.3	14.3
825	14.2	11.0	8.8	18.4	19.4	15.6	21.6	18.4	14.8

GENERAL NOTE: Coefficient A is the instantaneous coefficient of thermal expansion $\times 10^{-6}$ (mm/mm/°C). Coefficient B is the mean coefficient of thermal expansion $\times 10^{-6}$ (mm/mm/°C) in going from 20°C to indicated temperature. Coefficient C is the linear thermal expansion (mm/m) in going from 20°C to indicated temperature.

(3) Group 3 alloys (by nominal composition):

16Cr-12Ni-2Mo	18Cr-10Ni-Cb	18Cr-18Ni-2Si
16Cr-12Ni-2Mo-N	18Cr-10Ni-Ti	19Cr-9Ni-Mo-W
16Cr-12Ni-2Mo-Ti	18Cr-11Ni	21Cr-11Ni-N
18Cr-8Ni	18Cr-13Ni-3Mo	
18Cr-8Ni-N	18Cr-15Ni-4Si	

Table 1A (Cont'd)
Section I; Section III, Division 1, Classes 2 and 3,* Section VIII, Division 1; and Section XII
Maximum Allowable Stress Values, S , for Ferrous Materials
(*See Maximum Temperature Limits for Restrictions on Class)

Line No.	Nominal Composition	Product Form	Spec. No.	Type/Grade	Alloy Desig./ UNS No.	Class/ Condition/ Temper	Size/ Thickness, mm	P-No.	Group No.
1	18Cr-3Ni-12Mn	Wld. tube	SA-688	TPXM-29	S24000	8	3
2	18Cr-5Ni-3Mo	Smls. tube	SA-789	...	S31500	10H	1
3	18Cr-5Ni-3Mo	Wld. tube	SA-789	...	S31500	10H	1
4	18Cr-5Ni-3Mo	Smls. pipe	SA-790	...	S31500	10H	1
5	18Cr-5Ni-3Mo	Wld. pipe	SA-790	...	S31500	10H	1
6	18Cr-8Ni	Forgings	SA-182	F304L	S30403	...	>130	8	1
7	18Cr-8Ni	Forgings	SA-182	F304L	S30403	...	>130	8	1
8	18Cr-8Ni	Forgings	SA-965	F304L	S30403	8	1
9	18Cr-8Ni	Forgings	SA-965	F304L	S30403	8	1
10	18Cr-8Ni	Bar	SA/IS G4303	SUS304L	8	1
11	18Cr-8Ni	Forgings	SA-182	F304L	S30403	...	≤130	8	1
12	18Cr-8Ni	Forgings	SA-182	F304L	S30403	...	≤130	8	1
13	18Cr-8Ni	Smls. tube	SA-213	TP304L	S30403	8	1
14	18Cr-8Ni	Smls. tube	SA-213	TP304L	S30403	8	1
15	18Cr-8Ni	Plate	SA-240	304L	S30403	8	1

Best Regards
Hesam Beigy



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-----Original Appointment-----

From: Chandraprakash Kurmi <chandraprakash.kurmi@alfalaval.com>
Sent: 11. juli 2023 06:22
To: Chandraprakash Kurmi; Hesam Beigy; Jitesh Dedhia; NileshK Patil; Deepak Shimpi; Pallavi Shivedas; Prashant Teke; Rahul Patil; Dhiraj Ghaywat; Amol Chavan; Kamlesh Badhe
Subject: Compensator discussion

When: 21. juli 2023 09:30-17:30 (UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi.

Where: ICC_GIR -2nd Floor - Restricted (8p)

Flat Head-Design and fabrication

21. juli 2023 11:08

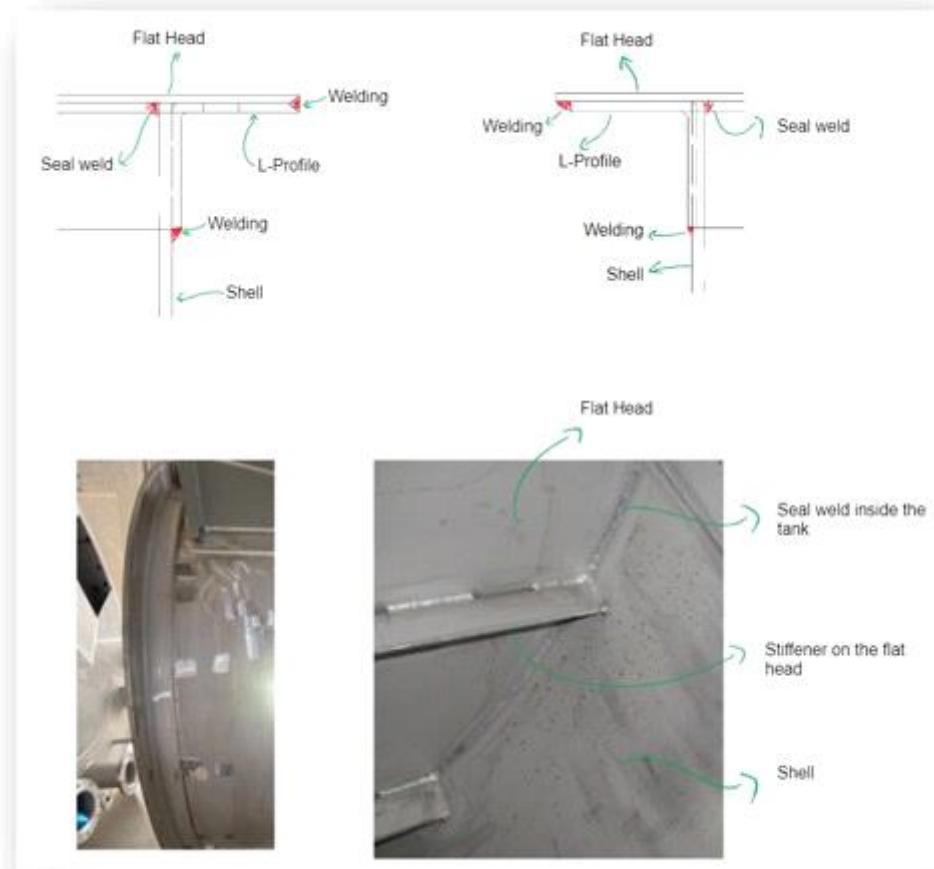
Subject	Flat Head-Design and fabrication
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	21. juli 2023 11:07

Hi all,

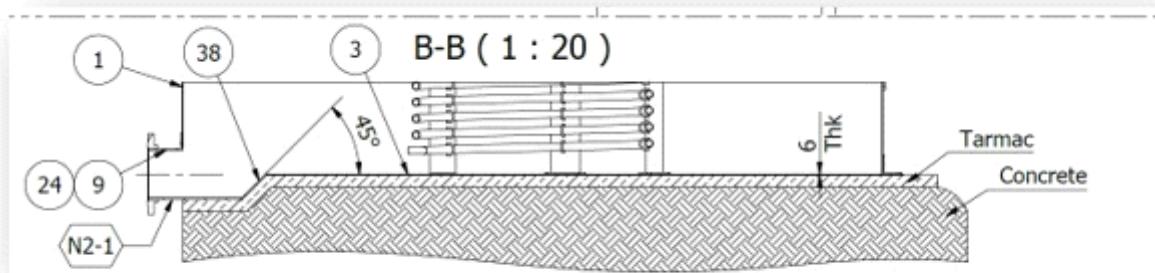
We had a talk regarding flat head design, and it seems that there is a confusion.

For flat head, our normal procedure is:

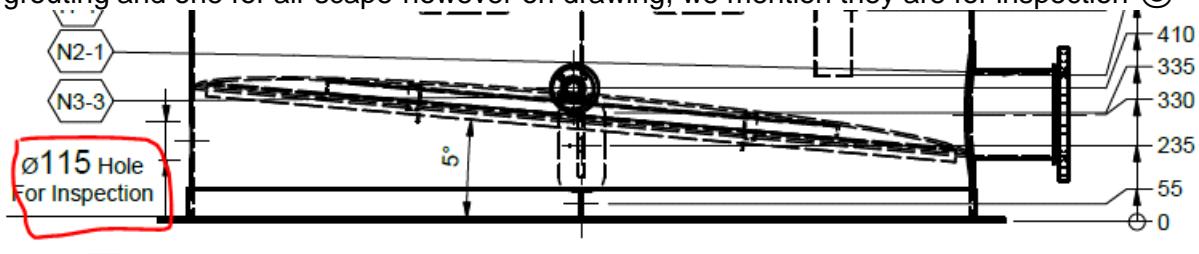
- We only use flat head (bottom or top) when we don't have any internal or external pressure-if we have vacuum or overpressure, we will use cone (bigger than 30 Degree) or dished
- It will not meet ASME/EN requirement-as part of AL standard we have informed customers that we take exception from code (text added in Rev 4 of the document)
 - o Please note that we normally add 2 L-profiles inside/outside the tank, to help with deformation during welding and stability of the head
- For welding, here is what we have been doing



- For bottom flat heads, we need a note on drawing to show that they must be supported by concrete-see below example



- For tanks with bottom flat, where grouting is needed, we need to provide 2 holes one for grouting and one for air scape-however on drawing, we mention they are for inspection 



If client needs calculation for these heads, they need to pay extra-and we doo make PV elite or detailed FEA. AS an alternative, we can use Roark's formulas-maybe one shall develop excel sheet first time we have a project with this need.

Best Regards
Hesam Beigy



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Solutions for food and
beverage processing



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Compensator-New Global Supplier based in India

24. juli 2023 10:05

Subject	Compensator-New Global Supplier based in India
From	Hesam Beigy
To	Umesh Ubarhande; Bettina Godsk Jorgensen; Milind Alavani; MunSiong Wong; Ismar Kuralic; Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Cc	Bhavin Siddhpura
Sent	24. juli 2023 10:05
Attachments	

Dear colleagues,

I wanted to share some exciting developments from my recent visit to India. While I was there last week, I had the pleasure of meeting with the Ratnaflex team, who have been providing compensators for our projects in India and have a history of collaboration with AL Malaysia too.

During our meeting, we engaged in a comprehensive technical dialogue and delved into their internal workflow. Ratnaflex's representatives provided detailed explanations of their working methods and the meticulous calculations they employ when specifying compensators.

As a result of this discussion, I am pleased to inform you that we can now add Ratnaflex to our global list of Compensator suppliers. Going forward, we can direct project inquiries to them, with the understanding that any purchases will be processed through AL India (one from Milind team will need to be involved).

Additionally, Ratnaflex is offering another valuable service: reviewing the placement of compensators.

For the initial projects involving Ratnaflex, I kindly request that you involve me in the process. This way, we can ensure a smooth and practical collaboration between our teams.

If you need to get in touch with Ratnaflex, our contact person there is Mr. Bhavin, who is also copied on this email.

Have a nice Monday.

Best Regards
Hesam Beigy



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Technical Team Leader, E&S Food Systems
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FW: Stamps

24. juli 2023 12:10

Subject	FW: Stamps
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satis Jooluri; Siddharth Gujar; Weijie Liu
Cc	Marina Morales
Sent	24. juli 2023 10:35
Attachments	

Dear all,

We have now worked out stamps for our vendor/customer document reviews. Please from now on, when approving any documents for vendor/customer, use stamps as designed in attached.

The way how you can get these stamps are explained below-in case you had any questions, you can reach out to Marina.

Best Regards
Hesam Beigy



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From: Marina Morales <Marina.Morales@alfalaval.com>

Sent: 14. juli 2023 16:03

To: Hesam Beigy <hesam.beigy@alfalaval.com>

Subject: Stamps

Hi Hesam,

Here are the stamps, I have tested the method to use it in different computers and it works 😊. All the stamps are merged in 1 PDF attached to this email

HOW TO IMPORT STAMPS

1. Open "Tools" → JavaScript → Debugger (Enable if it is not)
 - Type in debugger the code: `App.getPath("user","stamps")` or `app.getPath("app", "stamps")`;
 - Should give back as a result a Directory similar to either
 - o `C:\Users\[user name]\AppData\Roaming\Adobe\Acrobat\DC\Stamps`
 - o `C:\Program Files (x86)\Adobe\Acrobat\Acrobat\plug_ins\Annotations\Stamps\ENU\`
- (In case of this not working you can do it the old-fashioned way)
2. Paste a copy of the pdf in either of those Directories.
3. Open Adobe and the stamps should be already under new category "**New Dynamic**"
4. In case of not having a **Name** for the stamp there will be a pop up prompting the user to insert the Name they want to be shown on the Stamps
 - If name is already assigned, the user can change it by going to "Edit" in Adobe: **Edit** → **Preferences** → **Identity** → **Name**

NOTE: DO NOT MODIFY THE PDF THE STAMPS WONT WORK IF NOT DONE PROPERLY

Classified by Alfa Laval as: Business

FW: Axion_PAE Project - Engineering - AL Document Control Processes/Templates

24. juli 2023 12:12

Subject	FW: Axion_PAE Project - Engineering - AL Document Control Processes/Templates
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	24. juli 2023 12:11
Attachments	    

Dear all,

Please see this for US projects.

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
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From: DocumentControl <DocumentControl@alfalaval.com>
Sent: 14. juli 2023 14:56
To: Renato Manso <Renato.Manso@alfalaval.com>; Wagner Yatsuda <wagner.yatsuda@alfalaval.com>; Felipe Kanashiro <felipe.kanashiro@alfalaval.com>; Hesam Beigy <hesam.beigy@alfalaval.com>; Marcio Oliveira <Marcio.Oliveira@alfalaval.com>; Marcio Ciola <marcio.ciola@alfalaval.com>; Tiago Foster <Tiago.Foster@alfalaval.com>; Alison Miyasaki <alison.miyasaki@alfalaval.com>; David Anderson <david.anderson@alfalaval.com>; Bruno de Moraes <Bruno.DeMoraes@alfalaval.com>; Pamela Fabre <Pamela.Fabre@alfalaval.com>; Matthew Koban <matthew.koban@alfalaval.com>; Marcel Saavedra <marcel.saavedra@alfalaval.com>; Nicolas Nethol <Nicolas.Nethol@alfalaval.com>
Cc: Jenni Owen <Jenni.Owen@alfalaval.com>; DocumentControl <DocumentControl@alfalaval.com>; Raul Velazquez <raul.velazquez@alfalaval.com>
Subject: Axion_PAE Project - Engineering - AL Document Control Processes/Templates
Importance: High

Hi Team,

Please go through Document Control (DC) (DocumentControl@alfalaval.com), in lieu of personal email for any “DC” related processes, correspondence, submittals, questions or concerns, etc.

Attached are some practical guidelines and templates to be utilized throughout the duration of the project, i.e., **Document Revision Management**, **Document Control Coversheet Template**, **Internal Lessons Learned_Document Issues**, **Engineering- Document Control Practical Guidelines** and **Formal Submittal Email Template to DC**, to help you understand and follow the proper DC processes in order to minimize miscommunication and errors.

Once the Project PROMIS/External sites are established, I will send a link to the location of the Master Document Register (MDR)/Transmittal Tracker. While inputting your information into the “MDR”, please note that the “Transmittal Tracker”, located on the 2nd tab is for Document Control editing purposes only. You may utilize the information as needed, but there are no edits/modifications to be done by anyone other than DC.

Also, you may refer to our various helpful Document Control guides located in Teams



[here](#). Please ensure that you follow these guidelines/templates when submitting documents to DC and ensure the use of the "Formal Submittal Email Template to DC" when submitting packages each time. Note that the daily cut off time for processing submittal packages will be 3PM EST. Anything received after 3PM, will be processed the next business day.

Please let me know if you have any questions.

Thanks,

Brittany Bland



Brittany Bland

Document Controls Specialist, Food Systems | Food & Water
brittany.bland@alfalaval.com

Alfa Laval Inc (US)

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Classified by Alfa Laval as: Business

Oils and Fat Tanks-Datasheet in Vessel app-Guideline

26. juli 2023 09:21

Subject	Oils and Fat Tanks-Datasheet in Vessel app-Guideline
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Cc	Emeline Rey; Umesh Ubarhande
Sent	26. juli 2023 09:21

Hello all,

Please be informed that we got a new training content for guideline about how to create tank datasheets in Oils & Fat industry.



[Best Regards
Hesam Beigy](#)



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Technical Team Leader, E&S Food Systems
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FW: Heartwell-Inspection Release Certificate

1. august 2023 11:24

Subject	FW: Heartwell-Inspection Release Certificate
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satis Jooluri; Siddharth Gujar; Weijie Liu
Sent	1. august 2023 11:24
Attachments	

Dear all,

For the complicated projects, where customers are demanding-I recommend to implement Inspection Release Certificate, where we ask Customer's inspector to sign off that they have approved that shipment can be done and quality is okay with them.

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
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immediately by e-mail and delete this e-mail from your system. Personal data and email will be handled in accordance with the [Alfa Laval Privacy Policy](#).

From: Siddharth Gujar <Siddharth.Gujar@alfalaval.com>
Sent: 1. august 2023 05:39
To: Hesam Beigy <hesam.beigy@alfalaval.com>
Cc: Anatolii Harkusha <Anatolii.Harkusha@alfalaval.com>
Subject: RE: Heartwell-Inspection Release Certificate

Here you go..

Classified by Alfa Laval as: Business

From: Hesam Beigy <hesam.beigy@alfalaval.com>
Sent: Monday, July 31, 2023 9:16 PM
To: Siddharth Gujar <Siddharth.Gujar@alfalaval.com>
Cc: Anatolii Harkusha <Anatolii.Harkusha@alfalaval.com>
Subject: Heartwell-Inspection Release Certificate

Hi Siddharth,

Could you please share the word file of the Inspection Release Certificate with us? We want to use it in Heartwell.

Thanks.



Inspection Release Certificate (IRC)

The Goods listed below is/are released by Bilfinger Tebodin for Inspection.
Vendor is to contact the Project Expediter to discuss shipping details.

Note: the issuance of this IRC neither relieves Vendor from any contractual obligations, nor shall it be interpreted in any way so as it implies acceptance of the Goods. Contractual responsibility for the completeness, compliance and technical accuracy of all items referenced remains solely with the Vendor.

Project:	Shell Nederland Raffinaderij B.V.	Vendor:	Alfa Laval/ L&H
Order nr:	Red Green - PTU 1000	Vendor contact:	Siddharth Gujar
Requisition:	nIT54306-VDC-7199001-D05-006_B	Vendor address:	Zhangjiagang, China
Scope:	Tanks & Vessels	Vendor ref.:	N.A
Release nr:	IRC03	Date of IRC:	2023-01-10

Released items

Tag Shell	Tag AL	Description
V1020	19B01	Feed Tank
V1043	19B45	Off-Spec Tank (Outside the refinery)
T1052	19B21	Lye Dosing Tank
T1090	19B31	Hot Water Tank
V1039B	26B06B	Precoat Tank
V1092	55b01	Hot Well
V1044A	26B34A	Cyclone
V1044B	26B34B	Cyclone
V1031A	26M03A	Slurry Mixer
V1031B	26M03B	Slurry Mixer
V1062A	26R03AB42A	Cyclone
V1082B	26R03bB42b	Cyclone
V1033	26R02BB42A	Cyclone
E1030A	26W34A	Condenser
E1030b	26W34b	Condenser

Basis of IRC: Document review Visual inspection Witness Test Final inspection

Type of IRC: Whole order Part of order Conditional

List of conditions (outstanding items)

Description	Ref. Spec.	Verification before shipment
Dimension report and material certificate reviewed. Visual and dimension inspection performed. Documents not submitted in MDB: Zhangjiagang LH Factory within 4 weeks after scheduled delivery.	The following files have not been submitted in the MDB directory: 1 Drawings. 1-1 As Built Drawing. 1-2 Nameplate Photocopy. 1-3 Lifting Drawing. 2-1 Declaration of Conformity. 4 Certificate of	



Inspection Release Certificate (IRC)

		Compliance By L&H Picking Certificate.			
		4-1 Examination Record of Surface Finishing and Cleaning.			
		5 Paint Protocol.			
		5-1 Datasheet for Paint.			
		5-2 Painting Examination Record.			
		6 Quality Assurance and Guarantee Card.			
		6-2 Certificate of Product Quality.			
		6-3 Technical Charter of Product.			
		7 Test Report			
		7-1 Vessel Check List			
<i>Conditional Release Authorized by:</i>		'Requisition Engineer' Hans-Peter Twaalfhoven			
Inspection Release Certificate Approval					
<i>Tebodin inspector:</i>		<i>Vendor contact:</i>		<i>Shelf contact:</i>	
Name:	Mr Kenny Wang	Name:	Mr. Xu Jian	Name:	Mr. Liao
Date:	2023-01-10	Date:	2023-01-10	Date:	2023-01-10
Signature		Signature		Signature	
This Inspection Release Certificate is NOT meant to be Release note for shipment. The Release note for Shipment will be sent separately.					

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
 Technical Team Leader, E&S Food Systems
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Classified by Alfa Laval as: Business

FW: Silo Datasheet

1. august 2023 15:32

Subject	FW: Silo Datasheet
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	1. august 2023 15:31

Hello all,

FYI-if you need a datasheet for Silo in your projects, you can use a datasheet that was made for one of our projects.

Sample is placed in our Vessel library-



[link](#)

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
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From: Ashvini Rajakumar <Ashvini.Rajakumar@alfalaval.com>
Sent: 1. august 2023 15:26
To: Hesam Beigy <hesam.beigy@alfalaval.com>
Cc: Nikhil Varghese <Nikhil.Varghese@alfalaval.com>; Nicolas Nethol <Nicolas.Nethol@alfalaval.com>; Jeff Yau <Jeff.Yau@alfalaval.com>
Subject: RE: Silo Datasheet

Dear Hesam ,

Yes, I am doing well . Hope you are as well 😊

Congrats on the new project ! Good to hear that the silo datasheet was comprehensive and the best you have seen.

This file was the last version I had prepared for Singa and submitted to the silo maker at the time.

Thank you.

Best regards,

Ashvini



Ms.Ashvini Rajakumar,

Project Engineer, Engineering & Supply
SEA
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From: Hesam Beigy <hesam.beigy@alfalaval.com>
Sent: Tuesday, July 25, 2023 1:26 AM
To: Ashvini Rajakumar <Ashvini.Rajakumar@alfalaval.com>
Cc: Nikhil Varghese <Nikhil.Varghese@alfalaval.com>; Nicolas Nethol <Nicolas.Nethol@alfalaval.com>
Subject: RE: Silo Datasheet

Dear Ashvini,

Long time no seen 😊 hope you are doing well.

We got a new project and are working on process datasheets. The best Silo datasheet I have seen so far is the one that you prepared for Singa-have you by any chance have a more recent datasheet for Silos? Or attached is the latest?

Thanks for your help in advance.

Best Regards
Hesam Beigy



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From: Ashvini Rajakumar <Ashvini.Rajakumar@alfalaval.com>
Sent: 12. august 2022 02:44
To: Hesam Beigy <hesam.beigy@alfalaval.com>
Cc: Alex Colman <Alex.Colman@alfalaval.com>; Abinesh Sundararaju <Abinesh.Sundararaju@alfalaval.com>; Anatolii Harkusha <Anatolii.Harkusha@alfalaval.com>; Satisf Jooluri <Satisf.Jooluri@alfalaval.com>; Jody Stier <Jody.Stier@alfalaval.com>
Subject: RE: Silo Datasheet

Dear Hesam,

Kindly find the datasheet for Silos for Singa.

Thank you.

Best regards,

Ashvini



Ms.Ashvini Rajakumar,

Project Engineer, Engineering & Supply
SEA
Tel switchboard: +60 3 5122 4748 – Mobile: 6019- 4177386
ashvini.rajakumar@alfalaval.com
Contact me on Lync/Skype: <sip:ashvini.rajakumar@alfalaval.com>

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From: Hesam Beigy <hesam.beigy@alfalaval.com>
Sent: Thursday, August 11, 2022 9:10 PM
To: Ashvini Rajakumar <Ashvini.Rajakumar@alfalaval.com>
Cc: Alex Colman <Alex.Colman@alfalaval.com>; Abinesh Sundararaju <Abinesh.Sundararaju@alfalaval.com>; Anatolii Harkusha <Anatolii.Harkusha@alfalaval.com>; Satis Jooluri <Satish.Jooluri@alfalaval.com>; Jody Stier <Jody.Stier@alfalaval.com>
Subject: Silo Datasheet

Dear Ashvini,

I remember you were working on a datasheet for Silos for Singa. Could you please share the original datasheet file with us? We want to use it for other projects in US.

Thanks.

Best Regards
Hesam Beigy



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Classified by Alfa Laval as: Business

FW: BETE spray nozzles w. BSP thread

8. august 2023 14:03

Subject	FW: BETE spray nozzles w. BSP thread
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	8. august 2023 14:03

FYI-please be more specific when you purchase the spray nozzles.

BSP comes in two version: BSPP /BSPT

We normally for EU will go for BSPP

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
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Contact me on Teams: <sip:hesam.beigy@alfalaval.com>

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From: Asger Lindegaard <asger.lindegaard@alfalaval.com>
Sent: 8. august 2023 13:49

To: Hesam Beigy <hesam.beigy@alfalaval.com>; Nikhil Varghese <Nikhil.Varghese@alfalaval.com>; Amir Eslampanah <Amir.Eslampanah@alfalaval.com>; Nicolas Nethol <Nicolas.Nethol@alfalaval.com>

Subject: BETE spray nozzles w. BSP thread

Hello everyone.

I have just learned that when you purchase BETE spray nozzles w. specified BSP thread you will receive BSPT (T for tapered thread).

You need to be aware and chose a socket that fits.



Best Regards

Asger Lindegaard



Asger Lindegaard

Technical Team Lead, Engineering and Supply

Mobile: +4529722824

asger.lindegaard@alfalaval.com

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Classified by Alfa Laval as: Business

PED Desktop Calculator

9. august 2023 13:02

Subject	PED Desktop Calculator
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	9. august 2023 11:15

Hi All,

Please be aware that I got a [link](#) to download latest LRQA PED desktop calculator.

I have placed the installation files [here](#)in our library.

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
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FW: FEA Requirement for tanks

10. august 2023 16:31

Subject	FW: FEA Requirement for tanks
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satis Jooluri; Siddharth Gujar; Weijie Liu
Sent	10. august 2023 16:31
Attachments	  

FYI-this is not a complete list of requirements, but it is a good read. Amir/myself would be able to help, in case you needed to review tank FEAs

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
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From: Hesam Beigy

Sent: 10. august 2023 16:30

To: AnneCathrine Lillelund <annecathrine.lillelund@alfalaval.com>; RichardTeles Neves <RichardTeles.Neves@alfalaval.com>

Cc: Reza Mahmoudpour <Reza.Mahmoudpour@alfalaval.com>

Subject: FEA Requirement for tanks

Hi Richard and AnneCathrine,

Reference to FEA report provided by vendor for lifting of the tank:

Report is made based on "mechanical engineering practice". **But, I am afraid it is not meeting ASME Section VIII-Div. 2 requirements (note: Div. 1 has no requirement for design of lifting equipment, therefore Div. 2 is only relevant).**

Note 1: If they have created the FEA in ANSYS or Inventor software, maybe we can help them with some of below items, we are sailing in the same boat (we need ANSYS files to see if we can generate these mandatory assessment as per ASME Section VIII-Div. 2).

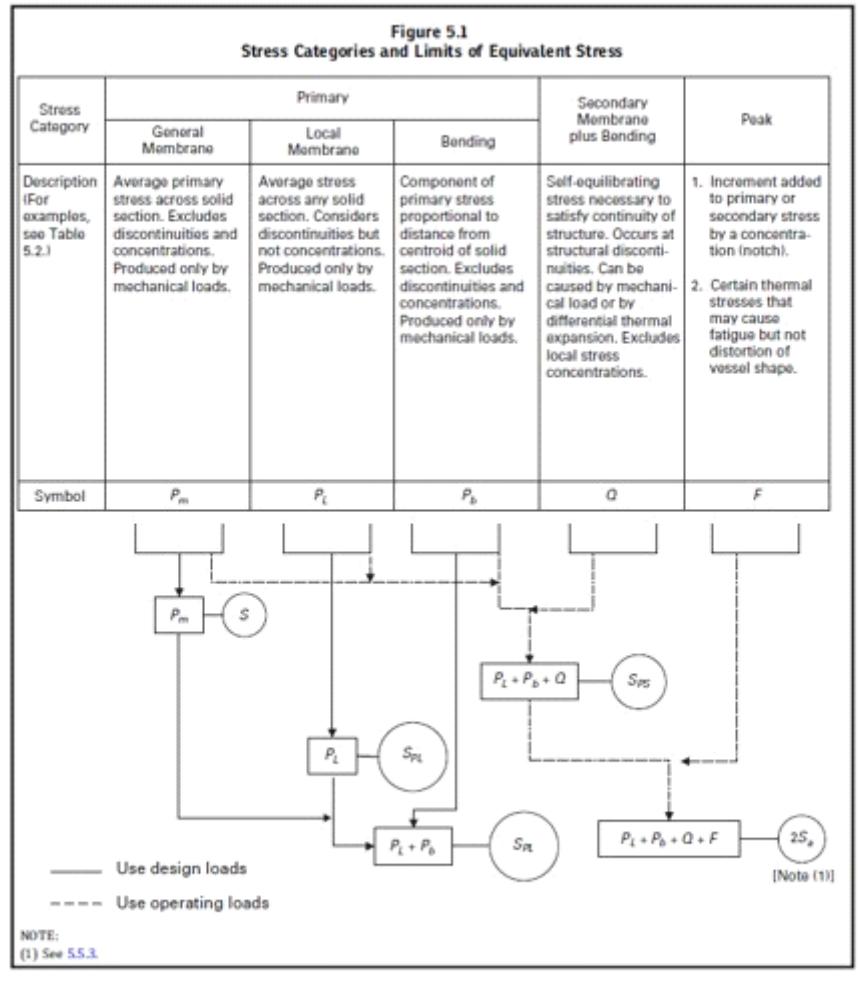
Comments:

- What we are missing is:
 - o Loads: they have not considered chock factor and safety factor for lifting, normally a safety factor of 1,5 or even 2 is required here
 - o They have considered 45° in sling angle, this angle can be variable during lifting (from 90° to 0°), various scenarios need to be considered
- Evaluation as per ASME Section VIII-Div. 2-Part 5
 - o It seems that Elastic method is used, for such a method, ASME requires as minimum below evaluations to be made (they are missing from the report):
 - Load cases shall be considered as per below table 5.3
 - Stress classifications shall be done as per Figure 5.1
 - Ratcheting as per 5.5.6 shall be investigated
 - Protection against local failure as per 5.3
 - In attached report, it seems that the head stresses during lifting is not evaluated
 - They have looked only at Von Mises stresses, and by no means Von Mises can be used for evaluating a tank as per ASME design, and interpretation and code stresses as per below instructions shall be extracted from FEA and then separate analysis and post processing need to be done

Table 5.3
Load Case Combinations and Allowable Stresses for an Elastic Analysis

Load Combinations [Note (1)]	Stress Assessment and Allowable Stress [Note (2)]				
	General Primary Membrane	Local Primary Membrane	Local Primary Membrane Plus Bending	Range of Primary Plus Secondary	Range of Primary Plus Secondary Plus Peak
	P_m	P_L	$P_L + P_b$	$P_L + P_b + Q$	$P_L + P_b + Q + F$
Design					
(1) $P + P_s + D$ (2) $P + P_s + D + L$ (3) $P + P_s + D + L + T$ (4) $P + P_s + D + S_s$ (5) $0.6D + \{0.6W \text{ or } 0.7E\}$ [Note (3)] (6) $\Omega_p P + P_s + D + \{0.6W \text{ or } 0.7E\}$ [Note (4)] (7) $\Omega_p P + P_s + D + 0.75(L + T) + 0.75S_s$ [Note (4)] (8) $\Omega_p P + P_s + D + 0.75[0.6W \text{ or } 0.7E] + 0.75L + 0.75S_s$ [Note (4)] (9) Other design load combinations as defined in the User's Design Specification	S	S_{PL}	S_{PL}	Not applicable	
Operating					
(10) $P_o + P_{So} + D_o$ (11) $P_o + P_{So} + D_o + L_o$ (12) $P_o + P_{So} + D_o + L_o + T_o$ (13) $P_o + P_{So} + D_o + S_o$ (14) $P_o + P_{So} + D_o + \{0.6W \text{ or } 0.7E\}$ (15) $P_o + P_{So} + D_o + 0.75(L_o + T_o) + 0.75S_o$ (16) $P_o + P_{So} + D_o + 0.75[0.6W \text{ or } 0.7E] + 0.75L_o + 0.75S_o$ (17) Other operating load combinations as defined in the User's Design Specification		Not applicable		S_{PS} (see 5.5.1.4)	
Pressure Test					
(18) $P_T + P_S + D + 0.6W_{PT}$	See 5.2.2.5	Not applicable	See 5.2.2.5		Not applicable
GENERAL NOTE: Loads listed herein shall be considered to act in the combinations described above; whichever produces the most unfavorable effect in the component being considered. Effects of one or more loads not acting shall be considered.					
NOTES: (1) The parameters used in the Load Combinations column are defined in Table 5.2. (2) See Figure 5.1 for additional guidance on stress categories and limits on equivalent stress. (3) This load combination addresses an overturning condition for foundation design. It does not apply to design of anchorage (if any) to the foundation. Refer to ASCE/SEI 7, 2.4.1, Exception 2 for an additional reduction to W that may be applicable. (4) The product of $\Omega_p P$ is used in lieu of the design pressure, P , for evaluation of P_m , P_L , and $P_L + P_b$ stress assessments since it is unlikely the occasional loads would occur at the same time as the maximum design pressure, P .					

5.15 FIGURES



5.5.6 RATCHETING ASSESSMENT — ELASTIC STRESS ANALYSIS

5.5.6.1 Elastic Ratcheting Analysis Method.

(a) To evaluate protection against ratcheting the following limit shall be satisfied.

$$\Delta S_{n,k} \leq S_{PS} \quad (5.78)$$

(b) The primary plus secondary equivalent stress range, $\Delta S_{n,k}$, is the equivalent stress range, derived from the highest value across the thickness of a section, of the combination of linearized general or local primary membrane stresses plus primary bending stresses plus secondary stresses ($P_L + P_B + Q$), produced by specified operating pressure and other specified mechanical loads and by general thermal effects. The effects of gross structural discontinuities but not of local structural discontinuities (stress concentrations) shall be included. Examples of this stress category for typical pressure vessel components are shown in [Table 5.6](#). Load case combinations to be considered for this stress category for typical pressure vessel components are shown in [Table 5.3](#).

(c) The maximum range of this equivalent stress is limited to S_{PS} . The quantity S_{PS} represents a limit on the primary plus secondary equivalent stress range and is defined in [\(d\)](#). In the determination of the maximum primary plus secondary equivalent stress range, it may be necessary to consider the effects of multiple cycles where the total stress range may be greater than the stress range of any of the individual cycles. In this case, the value of S_{PS} may vary with the specified cycle, or combination of cycles, being considered since the temperature extremes may be different in each case. Therefore, care shall be exercised to assure that the applicable value of S_{PS} for each cycle, or combination of cycles, is used (see [5.5.3](#)).

(d) The allowable limit on the primary plus secondary stress range, S_{PS} , is computed as the larger of the quantities shown below.

(1) Three times the average of the S values for the material from [Annex 3-A](#) at the highest and lowest temperatures during the operational cycle.

(2) Two times the average of the S_y values for the material from [Annex 3-D](#) at the highest and lowest temperatures during the operational cycle, except that the value from [\(1\)](#) shall be used when the ratio of the minimum specified yield strength to ultimate tensile strength exceeds 0.70 or the value of S is governed by time-dependent properties as indicated in [Annex 3-A](#).

5.5.6.2 Simplified Elastic-Plastic Analysis. The equivalent stress limit on the range of primary plus secondary equivalent stress in [5.5.6.1](#) may be exceeded, provided all of the following are true:

(a) The range of primary plus secondary membrane plus bending equivalent stress, excluding thermal stress, is less than S_{PS} .

(b) The value of the alternating stress range in [5.5.3.2, Step 4](#) is multiplied by the factor $K_{e,k}$ (see [eqs. \(5.31\) through \(5.33\)](#), or [5.5.3.3](#)).

(c) The material of the component has a ratio of the specified minimum yield strength to specified minimum tensile strength of less than or equal to 0.80.

(d) The component meets the secondary equivalent stress range requirements of [5.5.6.3](#).

5.5.6.3 Thermal Stress Ratcheting Assessment. The allowable limit on the secondary equivalent thermal stress range to prevent ratcheting, when applied in conjunction with a steady-state general or local primary membrane equivalent stress, is determined below. This procedure can only be used with an assumed linear or parabolic distribution of a secondary stress range (e.g., thermal stress).

Step 1. Determine the ratio of the primary membrane stress to the specified minimum yield strength from Annex 3-D, at the average temperature of the cycle.

$$X = \left(\frac{P_m}{S_y} \right) \quad (5.79)$$

Step 2. Compute the secondary membrane equivalent stress range, ΔQ_m , using elastic analysis methods.

Step 3. Compute the secondary membrane plus bending equivalent thermal stress range, ΔQ_{mb} , using elastic analysis methods.

Step 4. Determine the allowable limit on the secondary membrane plus bending equivalent thermal stress range, S_{Qmb} .

(a) For a secondary equivalent thermal stress range with a linear variation through the wall thickness

$$S_{Qmb} = S_y \left(\frac{1}{X} \right) \quad \text{for } 0 < X < 0.5 \quad (5.80)$$

$$S_{Qmb} = 4.0 S_y (1 - X) \quad \text{for } 0.5 \leq X \leq 1.0 \quad (5.81)$$

(b) For a secondary equivalent stress range from thermal loading with a parabolic constantly increasing or decreasing variation through the wall thickness

$$S_{Qmb} = S_y \left(\frac{1}{0.1224 + 0.9944X^2} \right) \quad \text{for } 0.0 < X < 0.615 \quad (5.82)$$

$$S_{Qmb} = 5.2 S_y (1 - X) \quad \text{for } 0.615 \leq X \leq 1.0 \quad (5.83)$$

Step 5. Determine the allowable limit on the secondary membrane equivalent thermal stress range, S_{Qm} .

$$S_{Qm} = 2.0 S_y (1 - X) \quad \text{for } 0 < X < 1.0 \quad (5.84)$$

Step 6. To demonstrate protection against ratcheting, the following two criteria shall be satisfied:

$$\Delta Q_m \leq S_{Qm} \quad (5.85)$$

$$\Delta Q_{mb} \leq S_{Qmb} \quad (5.86)$$

5.5.6.4 Progressive Distortion of Non-Integral Connections. Screwed-on caps, screwed-in plugs, shear ring closures, and breech lock closures are examples of non-integral connections that are subject to failure by bell-mouthing or other types of progressive deformation. If any combination of applied loads produces yielding, such joints are subject to ratcheting because the mating members may become loose at the end of each complete operating cycle and may start the next cycle in a new relationship with each other, with or without manual manipulation. Additional distortion may occur in each cycle so that interlocking parts, such as threads, can eventually lose engagement. Therefore primary plus secondary equivalent stresses that produce slippage between the parts of a non-integral connection in which disengagement could occur as a result of progressive distortion, shall be limited to the minimum specified yield strength at temperature, S_y , or evaluated using the procedure in 5.5.7.2.

5.3 PROTECTION AGAINST LOCAL FAILURE

5.3.1 OVERVIEW

5.3.1.1 In addition to demonstrating protection against plastic collapse as defined in 5.2, the applicable local failure criteria below shall be satisfied for a component. These requirements apply to all components where the thickness and configuration of the component are established by using design-by-analysis rules. It is not necessary to evaluate protection against local failure (5.3), if the component design is in accordance with Part 4 (e.g., component wall thickness and weld detail per 4.2).

5.3.1.2 Two analysis methodologies are provided for evaluating protection against local failure under applied design loads. When protection against plastic collapse is satisfied by the method in 5.2.3, either method listed below is acceptable.

(a) The analysis procedures in 5.3.2 provide an approximation of the protection against local failure based on the results of an elastic analysis.

(b) A more accurate estimate of the protection against local failure of a component can be obtained using the elastic-plastic stress analysis procedures in 5.3.3.

5.3.2 ELASTIC ANALYSIS — TRIAXIAL STRESS LIMIT

The algebraic sum of the three linearized primary principal stresses from Design Load Combination (1) of [Table 5.3](#) shall be used for checking this criterion.

$$(\sigma_1 + \sigma_2 + \sigma_3) \leq 45$$

(5.5)

Vendor is also missing buckling analysis as per ASME Section VIII-Div. 2-5.4.

Load factor shall be calculated as per FEA and must be higher than what is specified in below code section:

5.4 PROTECTION AGAINST COLLAPSE FROM BUCKLING**5.4.1 DESIGN FACTORS**

5.4.1.1 In addition to evaluating protection against plastic collapse as defined in [5.2](#), a design factor for protection against collapse from buckling shall be satisfied to avoid buckling of components with a compressive stress field under applied design loads.

5.4.1.2 The design factor to be used in a structural stability assessment is based on the type of buckling analysis performed. The following design factors shall be the minimum values for use with shell components when the buckling loads are determined using a numerical solution (i.e., bifurcation buckling analysis or elastic-plastic collapse analysis).

(a) Type 1 - If a bifurcation buckling analysis is performed using an elastic stress analysis without geometric nonlinearities in the solution to determine the pre-stress in the component, a minimum design factor of $\Phi_B = 2/B_{cr}$ shall be used (see 5.4.1.3). In this analysis, the pre-stress in the component is established based on Design Load Combinations (1) through (9) in Table 5.3.

(b) Type 2 - If a bifurcation buckling analysis is performed using an elastic-plastic stress analysis with the effects of non-linear geometry in the solution to determine the pre-stress in the component, a minimum design factor of $\Phi_B = 1.667/\beta_{cr}$ shall be used (see 5.4.1.3). In this analysis, the pre-stress in the component is established based on Design Load Combinations (1) through (9) in Table 5.3.

(c) Type 3 - If a collapse analysis is performed in accordance with 5.2.4, and imperfections are explicitly considered in the analysis model geometry, the design factor is accounted for in the factored load combinations in Table 5.5. It should be noted that a collapse analysis can be performed using elastic or plastic material behavior. If the structure remains elastic when subject to the applied loads, the elastic-plastic material model will provide the required elastic behavior, and the collapse load will be computed based on this behavior.

5.4.1.3 The capacity reduction factors, β_{cr} , shown below shall be used unless alternative factors can be developed from published information.

(a) For unstiffened or ring stiffened cylinders and cones under axial compression

$$\beta_{cr} = 0.207 \quad \text{for } \frac{D_0}{t} \geq 1247 \quad (5.12)$$

$$\beta_{cr} = \frac{338}{389 + \frac{D_0}{t}} \quad \text{for } \frac{D_0}{t} < 1247 \quad (5.13)$$

(b) For unstiffened and ring stiffened cylinders and cones under external pressure

$$\beta_{cr} = 0.80 \quad (5.14)$$

(c) For spherical shells and spherical, torispherical, elliptical heads under external pressure

$$\beta_{cr} = 0.124 \quad (5.15)$$

5.4.2 Numerical Analysis. If a numerical analysis is performed to determine the buckling load for a component, all possible buckling mode shapes shall be considered in determining the minimum buckling load for the component. Care should be taken to ensure that simplification of the model does not result in exclusion of a critical buckling mode shape. For example, when determining the minimum buckling load for a ring-stiffened cylindrical shell, both axisymmetric and non-axisymmetric buckling modes shall be considered in determination of the minimum buckling load.

Best Regards
Hesam Beigy



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Solutions for food and
beverage processing



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RE: Agitators-General and useful information

11. august 2023 14:46

Subject	RE: Agitators-General and useful information
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	11. august 2023 14:42

Hi all,

An update on the agitator information (highlighted in Yellow)

- [!\[\]\(7322c5c26206c369fec9d4c6eb7ca42e_img.jpg\) Scale of agitation](#)
- [!\[\]\(67ef0eb2df19624418f8ea37d8697b34_img.jpg\) Documentation package of AL agitators](#)
- [!\[\]\(e2c8d49f4afbd3e52f8b195ea1aca701_img.jpg\) Documentation package of Chemineer](#)
- [!\[\]\(a7c078d2b568ef1586a61e9c605ac38a_img.jpg\) Documentation package of EKATO](#)
- [!\[\]\(69d720cbee6e7f5cc3efbf969195dd76_img.jpg\) TS and Datasheet samples](#)
- [!\[\]\(764874808ea805112e74b27a63bc885a_img.jpg\) Sample of agitator drawing for check](#)
- [!\[\]\(41c741620e69e0acdc706f70ac94c2a8_img.jpg\) Gums tank agitator sample](#)
- [!\[\]\(d517ba8cf6654dfddb1cbae2bc37342f_img.jpg\) Quality control of agitators at workshops](#)
- Baffle Design and general design considerations-see [!\[\]\(e2b60cd7d06d29ee35596b59e1b7e541_img.jpg\) this book](#) page 354 and onwards
- [!\[\]\(f0f18f6cf81ea12d1c53dc2b887a51f5_img.jpg\) Agitator](#)
 - o [!\[\]\(b728777cf84a7702c809e556994c7178_img.jpg\) Agitator shaft Retainer](#)
 - o [!\[\]\(685f7a7131a5ea0e1bb542bfb9bc5e69_img.jpg\) Agitator shaft lifting tool](#)
 - o [!\[\]\(740e3fc017085f308c7051abbef7c42a_img.jpg\) Agitator shaft clamp](#)

Also, have a look at our Information notebook, there are some more information there.-[Link](#)

Best Regards
Hesam Beigy



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From: Hesam Beigy
Sent: 9. august 2023 12:05
To: Amir Eslampanah <amir.eslampanah@alfalaval.com>; Anatolii Harkusha <anatolii.harkusha@alfalaval.com>; Asger Lindegaard <asger.lindegaard@alfalaval.com>; Badrul Hisyam <badrul.hisyam@alfalaval.com>; KinHung Woo <kinhung.woo@alfalaval.com>; Linus Michael <linus.michael@alfalaval.com>; Nicolas Nethol <nicolas.nethol@alfalaval.com>; Nikhil Varghese <nikhil.varghese@alfalaval.com>; POOJA MANE <pooja.mane@alfalaval.com>; Prakash Aware <prakash.aware@alfalaval.com>; Pranay Kapse <pranay.kapse@alfalaval.com>; Rahul Jagtap1 <rahul.jagtap1@alfalaval.com>; Reza Mahmoudpour <Reza.Mahmoudpour@alfalaval.com>; Satish Jooluri <satish.jooluri@alfalaval.com>; Siddharth Gujar <siddharth.gujar@alfalaval.com>; Weijie Liu <weijie.liu@alfalaval.com>
Subject: Agitators-General and useful information

Hi all,

A little bit of information for agitators:

- [PDF](#)
[Scale of agitation](#)
- [Documentation package of AL agitators](#)
- [Documentation package of Chemineer](#)
-

Documentation package of EKATO

- [TS and Datasheet samples](#)
- [Sample of agitator drawing for check](#)
- [Gums tank agitator sample](#)
- [Quality control of agitators at workshops](#)
- Baffle Design and general design considerations-see
[!\[\]\(dadb72aac3faf2ff48d5b51ea32c7a13_img.jpg\) PDF](#) [this book](#) page 356 and onwards

Also, have a look at our notebook, there are some more information.

Happy reading.

Best Regards
Hesam Beigy



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Case (Continuous Improvement) - Implemented and followed up - C2-178433/2023. Drawing Title block & Nameplate data

15. august 2023 10:20

Subject	Case (Continuous Improvement) - Implemented and followed up - C2-178433/2023. Drawing Title block & Nameplate data
From	<u>System C2</u>
To	Hesam Beigy
Sent	15. august 2023 10:18

Title: C2-178433/2023. Drawing Title block & Nameplate data

Status: Implemented and followed up

Message:
FYI

Read more about this by logging in to [this link](#)

Vessel Inspection Documents

18. august 2023 19:40

Subject	Vessel Inspection Documents
From	Hesam Beigy
To	Genesis Alcala
Cc	Felipe Kanashiro; Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; POOJA MANE; Prakash Aware; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	18. august 2023 19:39

Hello Genesis,

Once again, a warm welcome to the team. Following to the session we had, here are the documents and databases to be used:

- General Quality Control Documents-[Link](#)
- Vessel Library-[Link](#)
- QC folder under Vessel Library-

[Link](#)
- ASME 2023 Books-

[Link](#)
- QC control samples-

[Link](#)
- TS sample from Heartwell-

[Link](#)
- TS attachment samples from Heartwell-

[Link](#)
- Final documentation Sample-

[link](#)
- Training for inspections-

[Link](#)
- Training for weld map review-

[Link](#)
- General Vessel Team information notebook-[Link](#) (search for inspection in that notebook and you will find lots of material)
- Alfa Laval vessel standard-[Link](#) (for customers only-not for suppliers)
- General team presentation-

[Link](#)

I would keep the folder in our vessel library updated with latest QC information, so, feel free to check the folder once in a while.

Have fun reading them 😊

Best Regards
Hesam Beigy



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FW: New orders from SC or E&S sites. Order Specification form and sales budget

19. august 2023 18:30

Subject	FW: New orders from SC or E&S sites. Order Specification form and sales budget
From	Hesam Beigy
To	Reza Mahmoudpour; Nicolas Nethol; Nikhil Varghese
Sent	19. august 2023 18:29
Attachments	

FYI

Best Regards
Hesam Beigy



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From: ReneO Hansen <reneo.hansen@alfalaval.com>
Sent: 18. august 2023 13:24
To: Amir Eslampanah <Amir.Eslampanah@alfalaval.com>
Cc: Hesam Beigy <hesam.beigy@alfalaval.com>; Emeline Rey <emeline.rey@alfalaval.com>; Per Martinsen <per.martinsen@alfalaval.com>
Subject: New orders from SC or E&S sites. Order Specification form and sales budget

Hi Amir,

For future new orders regarding engineering hours support please follow the attachment.. Internal PO's and sales budgets needs to be filled out before the project will be created in the ERP system.

Thanks in advance

Best Regards

ReneO Hansen



ReneO Hansen

Senior Project Coordinator, Customer Project Management, BU Food Systems

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Classified by Alfa Laval as: Business

Klinger Gasket Installation manual and bolt torques for Klinger Quantum

24. august 2023 18:05

Subject	Klinger Gasket Installation manual and bolt torques for Klinger Quantum
From	Hesam Beigy
To	Alexander BechJorgensen; Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Cc	Jam Oskoui; Torben HjulerChristensen; Umesh Ubarhande; Peter Kjær; Suhas Kulkarni
Sent	25. maj 2023 10:00

Hi All,

Some while ago, we worked with Klinger to make a torque table for standard flange installation torques for our standard Klinger Quantum gasket.

You can find the installation manual +torques for different flanges in our library with this

 [link](#).

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
Mobile: +45 27778777
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Contact me on Teams: <sip:hesam.beigy@alfalaval.com>

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FW: Surface Finish for machined flanges

24. august 2023 21:58

Subject	FW: Surface Finish for machined flanges
From	Hesam Beigy
To	Amir Eslampannah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu; Siddharth Gujar; Claus Lund
Cc	Emeline Rey
Sent	24. august 2023 21:57

Dear all,

Please see below surface finish explanations.

It seems that our drawings are not fully specifying- [@Siddharth Gujar](#): could you please make comments on relevant drawings and inform [@Claus Lund](#)for the updates needed?

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
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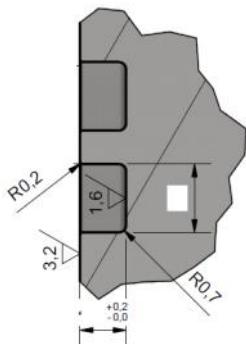
From: Hesam Beigy
Sent: 24. august 2023 21:55
To: 'Ing. Carlos Cotarelo' <ccotarelo@proffinox.com>; calidad@proffinox.com; gestrada@proffinox.com; gplozano@gplozano@proffinox.com
Cc: Satish Jooluri <satish.jooluri@alfalaval.com>; [Jody Stier](mailto:jody.stier@alfalaval.com) <jody.stier@alfalaval.com>; [Genesis Alcala](mailto:genesis.alcala@alfalaval.com) <genesis.alcala@alfalaval.com>; ROBERTO DOMINGUEZ <roberto.dominguez@alfalaval.com>; Anatolii Harkusha <anatolii.harkusha@alfalaval.com>
Subject: Surface Finish for machined flanges

Dear Proffinox team

For Alfa Laval standard flanges (manhole, sight glass, LIT and etc), below surface finish shall be followed:

- O-ring grooves

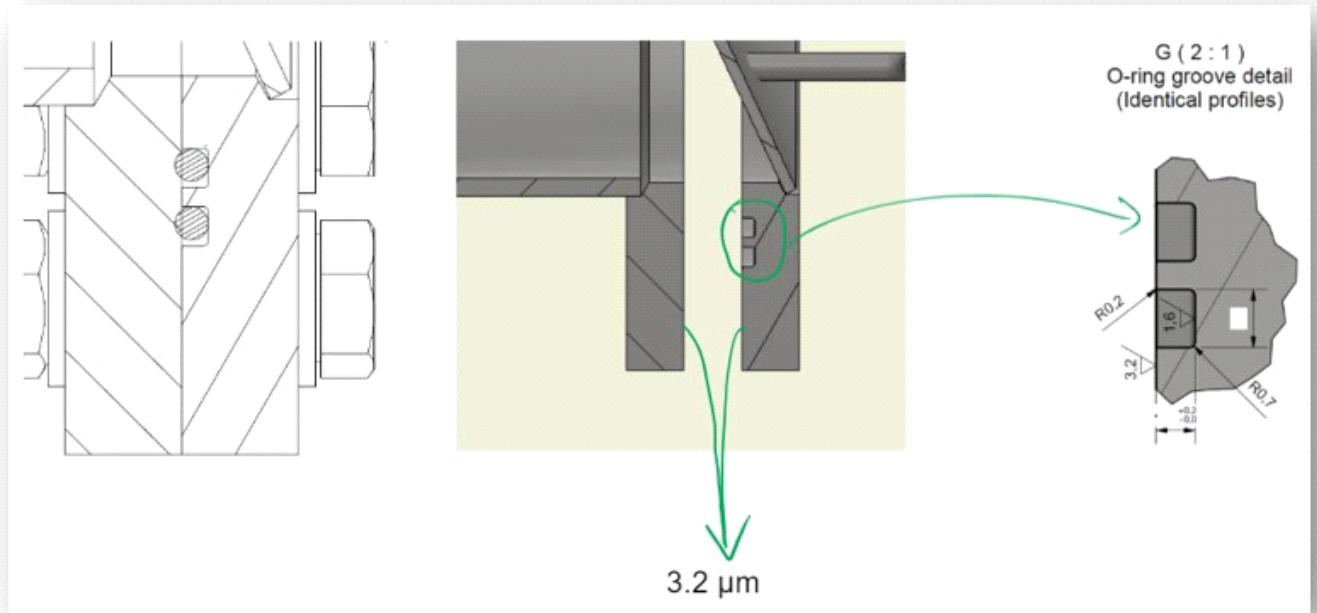
G (2 : 1)
O-ring groove detail
(Identical profiles)



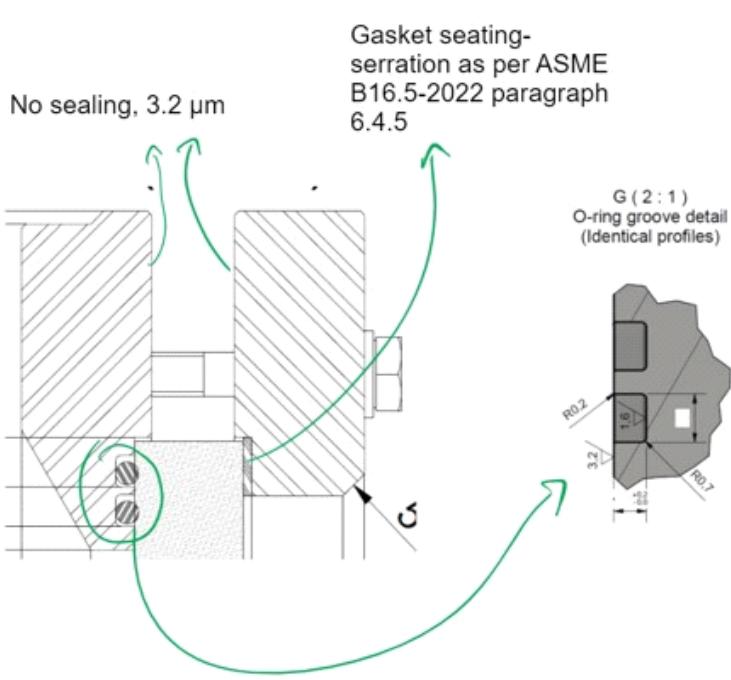
- Gasket Seating surfaces: serration as per B16.5-2022 paragraph 6.4.5 (see below)

With this, we will have below surface finish acceptance criteria:

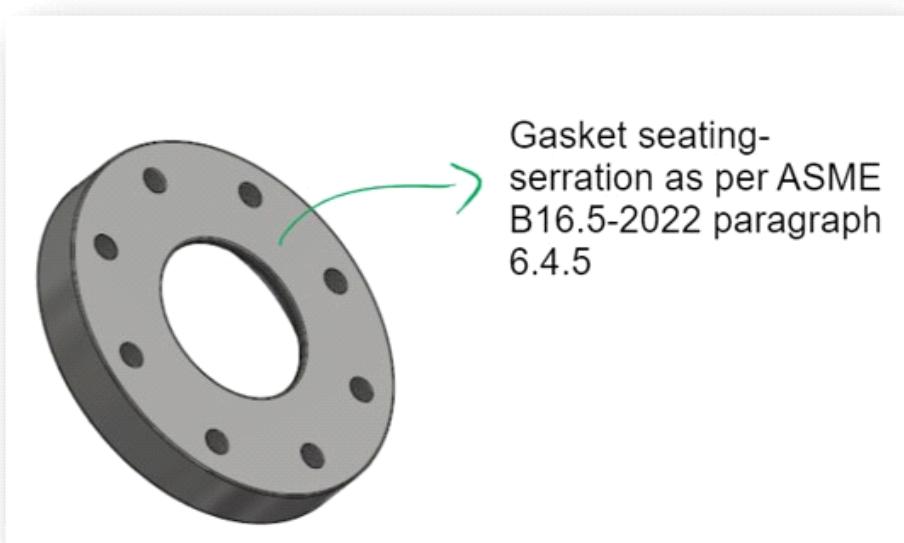
- **Manholes**



- **Sight Glass**



- Machined flanges except for sight glass/manhole with gasket type sealing



Flange face finish as per ASME B16.5-2022

6.4.5 Flange Facing Finish. Flange facing finishes shall be in accordance with paras. 6.4.5.1 through 6.4.5.3, except that other finishes may be furnished by agreement between the user and the manufacturer. The finish of the gasket contact faces shall be judged by visual comparison with Ra standards (see ASME B46.1) and not by instruments having stylus tracers and electronic amplification.

6.4.5.1 Tongue and Groove and Small Male and Female. The gasket contact surface finish shall not exceed 3.2 μm (125 $\mu\text{in.}$) roughness.

6.4.5.2 Ring Joint. The side wall surface finish of the gasket groove shall not exceed 1.6 μm (63 $\mu\text{in.}$) roughness.

6.4.5.3 Other Flange Facings. Either a serrated concentric or serrated spiral finish having a resultant surface finish from 3.2 μm to 6.3 μm (125 $\mu\text{in.}$ to 250 $\mu\text{in.}$) average roughness shall be furnished. The cutting tool employed should have an approximate 1.5 mm (0.06 in.) or larger radius, and there should be from 1.8 grooves/mm through 2.2 grooves/mm (45 grooves/in. through 55 grooves/in.).

O-ring surface finish for one of Supplier's manuals:

4.1 Surface Finish for Static O-Ring Seals

The design charts indicate a surface roughness value not to exceed 32 micro-inches (32 rms) on the sealing surfaces for static seals with a maximum of 16 rms recommended for face-type gas seals. These figures are good general guidelines, but they do not tell the whole story.

Equally important is the method used to produce the finish. If the surface is produced by turning the part on a lathe, or by some other method that produces scratches and ridges that follow the direction of the groove, a very rough surface will still seal effectively. Some methods such as end milling or routing, however, will produce scratches that cut across the O-ring. Even these may have a rather high roughness value if the profile across them shows rounded "valleys" that the rubber can readily flow into. Usually, these tool marks have sharp, deep, angular valleys that the O-ring material will not penetrate or fill completely. For this type of surface, the recommended roughness values should not be exceeded.

Best Regards
Hesam Beigy



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FW: Spray nozzles

25. august 2023 20:08

Subject	FW: Spray nozzles
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	25. august 2023 20:05

FYI-special spray nozzle calculation sheet for Bleachers

Best Regards
Hesam Beigy



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From: Anatolii Harkusha <Anatolii.Harkusha@alfalaval.com>
Sent: 25. august 2023 14:35
To: Siddharth Gujar <Siddharth.Gujar@alfalaval.com>
Cc: Hesam Beigy <hesam.beigy@alfalaval.com>
Subject: RE: Spray nozzles

Hi Siddharth,

I have uploaded both calculations in General folder (see below)

Name	Status	Date modified	Type	Size
Pressure lost Oil Ring Bleachers	Normal	8/25/2023 8:24 AM	Microsoft Excel 97...	32 KB
Spray nozzles for bleacher	Normal	8/25/2023 8:29 AM	Microsoft Excel M...	13 KB

Please consider that I would suggest having double check:

- Equal area for inlet nozzle and diameter of sprayers
- Pressure drops on the sprayers, which shall not be more than oil pressure before inlet nozzle (avoiding flow reduction). This data should be in material balance – operation pressure.

Let me know if you have any issue.

Best Regards

Anatolii Harkusha,

Mechanical Engineer, Engineering & Supply - USA

Tel direct: Mobile: +18046886933

anatolii.harkusha@alfalaval.com



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Classified by Alfa Laval as: Business

From: Siddharth Gujar <Siddharth.Gujar@alfalaval.com>

Sent: Friday, August 25, 2023 5:45 AM

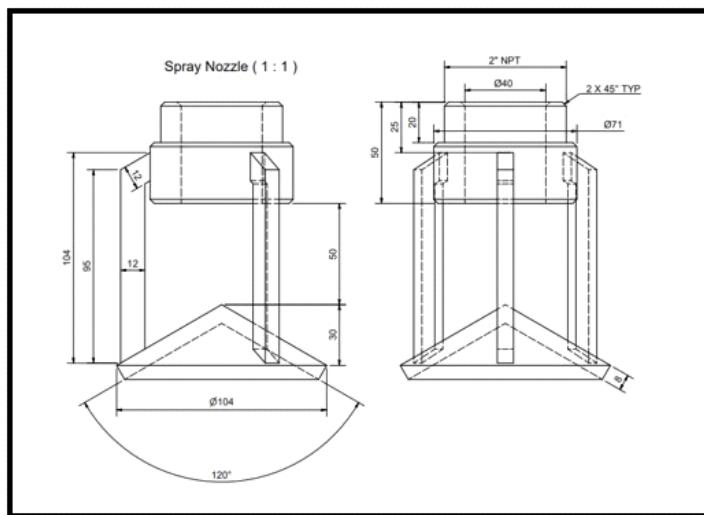
To: Anatolii Harkusha <Anatolii.Harkusha@alfalaval.com>

Cc: Hesam Beigy <hesam.beigy@alfalaval.com>

Subject: FW: Spray nozzles

Hi Anatolii,

Do you know where you have stored the calculation sheet for sizing of spray nozzles (China hat type)? Which you developed for RIIG project or for any other project?



Thanks

--

Siddharth

Classified by Alfa Laval as: Business

From: Alexey Shevchenko <alexey.shevchenko@alfalaval.com>

Sent: Friday, August 25, 2023 3:06 PM

To: Siddharth Gujar <Siddharth.Gujar@alfalaval.com>

Cc: Ganesh Patil <ganesh.patil@alfalaval.com>; Aakruti Makode <Aakruti.Makode@alfalaval.com>;

Kumar Shivam <kumar.shivam@alfalaval.com>; Deepak Dhole <deepak.dhole@alfalaval.com>; Satish Jooluri <Satish.Jooluri@alfalaval.com>

Subject: RE: Spray nozzles

Hi Siddharth

I do not know what is E&S best practice for such case says, but for slurry I would not

recommend to go with 1"

2" is sound correct.

Best regards,

Alexey Shevchenko



Alexey Shevchenko

Department Manager

Global Technology, Oils and Fats Systems

Tel direct: +45 39536498 – Mobile: +45 28101319

alexey.shevchenko@alfalaval.com

Contact me on Teams: <sip:alexey.shevchenko@alfalaval.com>

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Classified by Alfa Laval as: Business

From: Siddharth Gujar <Siddharth.Gujar@alfalaval.com>

Sent: 24. august 2023 07:30

To: Alexey Shevchenko <alexey.shevchenko@alfalaval.com>

Cc: Ganesh Patil <ganesh.patal@alfalaval.com>; Aakruti Makode <Aakruti.Makode@alfalaval.com>;

Kumar Shivam <kumar.shivam@alfalaval.com>; Deepak Dhole <deepak.dhole@alfalaval.com>; Satish Jooluri <Satish.Jooluri@alfalaval.com>

Subject: RE: Spray nozzles

Hi Alexey,

In new Quality Roasting Project (P002483) Customer wants to replace spiral spray nozzles to China Hat spray nozzles.

For bleacher, with only Oil as media we can directly replace the spiral spray nozzles to China hat type spray nozzle size.(1 inch size is used for now)

But for Bleacher, with slurry + oil, what is minimum size of spray nozzle(China hat type) we should use so nozzles will not choke ?

In all recent project, we have 2 inch China hat type spray nozzle, can we use 1" spray nozzles in this bleacher also, so that we don't need to change header size , also no need to check velocity from spray nozzles.

Thanks

--

Siddharth

Classified by Alfa Laval as: Business

From: Satish Jooluri <Satish.Jooluri@alfalaval.com>

Sent: Wednesday, August 23, 2023 7:46 PM

To: Siddharth Gujar <Siddharth.Gujar@alfalaval.com>

Cc: Ganesh Patil <ganesh.patal@alfalaval.com>; Aakruti Makode <Aakruti.Makode@alfalaval.com>; Kumar Shivam <kumar.shivam@alfalaval.com>; Deepak Dhole <deepak.dhole@alfalaval.com>

Subject: RE: Spray nozzles

Siddharth,

As per our meeting today, please discuss with Alexey on the spray nozzle sizing and let us know the verdict.

Regards,

Satish Jooluri,

Mechanical Engineer, Engineering & Supply Team – USA

Food Systems | Food & Water

Mobile: +1 432-246-1431



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Classified by Alfa Laval as: Business

From: Satish Jooluri
Sent: Tuesday, August 22, 2023 1:55 PM
To: Siddharth Gujar <siddharth.gujar@alfalaval.com>
Cc: Ganesh Patil <ganesh.patil@alfalaval.com>; Aakruti Makode <aakruti.makode@alfalaval.com>
Subject: RE: Spray nozzles

Siddharth,

Currently we have 1 1/2" inlet pipe, with 1" spray nozzles of four (4) count. Lets keep the same sizes and just change the type to China Hat spray nozzles.

Regards,
Satish Jooluri,
Mechanical Engineer, Engineering & Supply Team – USA
Food Systems | Food & Water
Mobile: +1 432-246-1431



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From: Siddharth Gujar <siddharth.Gujar@alfalaval.com>
Sent: Tuesday, August 22, 2023 12:53 PM
To: Satish Jooluri <Satish.Jooluri@alfalaval.com>
Subject: RE: Spray nozzles

Hi Satish,
Can you please tell me if we need to 3/4" spray nozzle as mentioned below instead of current 1" nozzles..
If yes, please tell me the number of spray nozzles and also inlet header size.

Thanks

--

Siddharth

Classified by Alfa Laval as: Business

From: Satish Jooluri <Satish.Jooluri@alfalaval.com>
Sent: Tuesday, August 22, 2023 8:33 PM
To: Siddharth Gujar <Siddharth.Gujar@alfalaval.com>
Subject: FW: Spray nozzles

Hi Siddharth,

Please see the attached document and below referenced for sizing of the spray nozzles.

Regards,
Satish Jooluri,
Mechanical Engineer, Engineering & Supply Team – USA
Food Systems | Food & Water
Mobile: +1 432-246-1431



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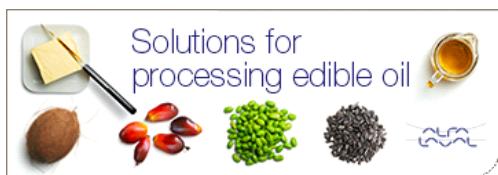
From: Ganesh Patil <ganesh.patil@alfalaval.com>
Sent: Wednesday, August 16, 2023 9:57 AM
To: Satish Jooluri <Satish.Jooluri@alfalaval.com>
Cc: Kumar Shivam <kumar.shivam@alfalaval.com>
Subject: FW: Spray nozzles

Best Regards



Ganesh Patil
Project/Process Engineer, E&S- Oils and Fats Systems
Tel direct: +1 804 236 1392 - Mobile: +1 804 205 0607
ganesh.patil@alfalaval.com

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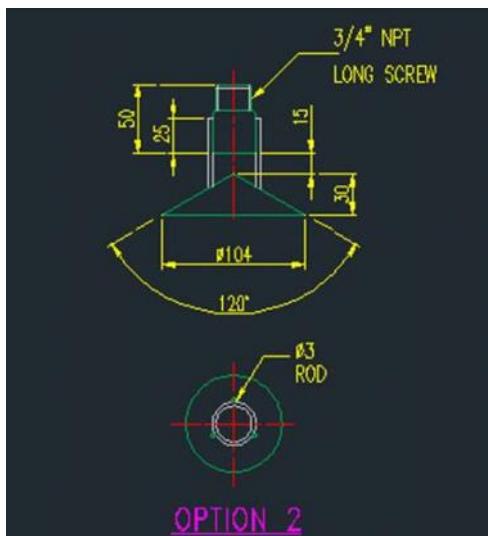
Classified by Alfa Laval as: Business

From: Ganesh Patil
Sent: Thursday, November 19, 2020 10:18 AM
To: Asger Lindgaard <asger.lindgaard@alfalaval.com>
Cc: Felipe Kanashiro <felipe.kanashiro@alfalaval.com>; Raul Velazquez <raul.velazquez@alfalaval.com>
Subject: FW: Spray nozzles

Hello Asger,

FYI. As discussed during vessel review meeting.

Only 26-1R03 and 26-2R03 will require these as optional fabricated spray nozzles.



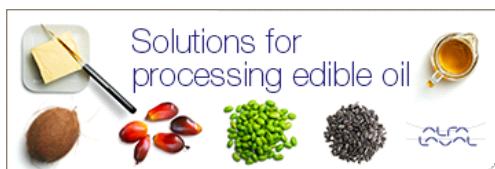
Thank You.

Best Regards



Ganesh Patil
Project/Process Engineer, E&S- Edible Oil Systems
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From: Ganesh Patil
Sent: Friday, February 28, 2020 8:52 AM
To: Asger Lindgaard <asger.lindgaard@alfalaval.com>
Cc: Felipe Kanashiro <felipe.kanashiro@alfalaval.com>; Raul Velazquez <raul.velazquez@alfalaval.com>
Subject: FW: Spray nozzles

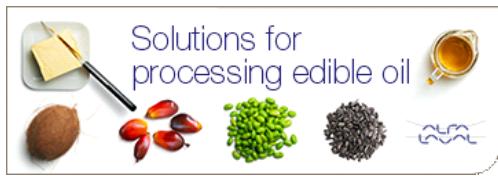
Hello Asger,
For reference. Check this type of spray nozzles with traditional R02 Bleacher.
Thank You.

Best Regards



Ganesh Patil
Project/Process Engineer, E&S- Edible Oil Systems
Tel direct: +1 804 236 1392 - Mobile: +1 804 205 0607
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From: Sten Appel <sten.appel@alfalaval.com>

Sent: Thursday, February 14, 2019 12:26 PM

To: Ganesh Patil <ganesh.patil@alfalaval.com>; Wagner Yatsuda

<wagner.yatsuda@alfalaval.com>

Subject: Spray nozzles

RE: Half Jacket - PED2014/68/EU & PED GUIDELINES

30. august 2023 10:34

Subject	RE: Half Jacket - PED2014/68/EU & PED GUIDELINES
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satis Jooluri; Siddharth Gujar; Weijie Liu
Sent	30. august 2023 10:33
Attachments	  

Hi all,

A little update on this topic-we had a meeting to clarify the point with the notified body who did the clarifications attached.

Minutes of meeting is now added to our vessel library-please go through it.



Conclusion in form of a table:

Part	PED	Conclusion	Calculation	Hazard Analysis	External Loads
Coil	Category II (as an example)	Category II (as an example)	Needed for certification	Needed	As per AL Nozzle Load document
Bottom Head	Category II (as an example)	Category II (as an example)	Needed for certification	Needed	As per AL Nozzle Load document
Shell	SEP	SEP	Not needed for certification	Needed-but it is okay to say no calculation required	As per AL Nozzle Load document
Top Head	SEP	SEP	Not needed for certification	Needed-but it is okay to say no calculation required	As per AL Nozzle Load document

Best Regards

Hesam Beigy



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Technical Team Leader, E&S Food Systems
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From: Hesam Beigy
Sent: 27. august 2023 00:03
To: Amir Eslampanah <amir.eslampanah@alfalaval.com>; Anatolii Harkusha <anatolii.harkusha@alfalaval.com>; Asger Lindegaard <asger.lindegaard@alfalaval.com>; Badrul Hisyam <badrul.hisyam@alfalaval.com>; KinHung Woo <kinhung.woo@alfalaval.com>; Linus Michael <linus.michael@alfalaval.com>; Nicolas Nethol <nicolas.nethol@alfalaval.com>; Nikhil Varghese <nikhil.varghese@alfalaval.com>; POOJA MANE <pooja.mane@alfalaval.com>; Prakash Aware <prakash.aware@alfalaval.com>; Pranay Kapse <pranay.kapse@alfalaval.com>; Rahul Jagtap1 <rahul.jagtap1@alfalaval.com>; Reza Mahmoudpour <Reza.Mahmoudpour@alfalaval.com>; Satish Jooluri <satish.jooluri@alfalaval.com>; Siddharth Gujar <siddharth.gujar@alfalaval.com>; Weijie Liu <weijie.liu@alfalaval.com>
Subject: FW: Half Jacket - PED2014/68/EU & PED GUIDELINES

FYI-updated declaration from notified body for the PED interpretation, when we have half pipe coil outside the tank or a coil inside the tank.

Best Regards
Hesam Beigy



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Technical Team Leader, E&S Food Systems
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Contact me on Teams: <sip:hesam.beigy@alfalaval.com>

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From: Kawecki, Artur <artur.kawecki@lrqa.com>
Sent: 24. august 2023 16:31
To: Hesam Beigy <hesam.beigy@alfalaval.com>; Mikuła, Joanna <joanna.mikula@lrqa.com>
Cc: Rasmus Severin Pallesen <RasmusSeverin.Pallesen@alfalaval.com>; Ian Duus <ian.duus@alfalaval.com>; Nicolas Nethol <Nicolas.Nethol@alfalaval.com>; Nordic INS <nordicins@lrqa.com>; Katowice <katowice@lrqa.com>
Subject: RE: Half Jacket - PED2014/68/EU & PED GUIDELINES

Dear Hesam,

Apologise for delay in answer to your query. However, after vacation back I on permanent trip.

Please find additional clarification to our previous declaration.

It does no matter where coil is located. Still the vessel is single unit consisting of two working chambers.
And the procedure shall be same.

Next week I am only available on Monday before noon, preferably 10 am.
After 12 am I need to visit client for inspection.

Regards

Artur Kawęcki, LRQA
Service Delivery Team Leader – Poland & Nordic, Inspection Service

Senior Surveyor, ASME Authorised Inspector Supervisor
artur.kawecki@lrqa.com | M + 48 601 740 754

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The advertisement features a dark blue background with a white diagonal stripe. On the left, the text "PED Desktop Calculator" is displayed in large, bold, white font. Below it, a smaller white text asks, "Do you want to know which risk category & conformity assessment modules apply to your equipment?". A green button with white text "Access the free tool" is positioned in the center. To the right, there's a photograph of a complex industrial valve assembly with a pressure gauge. The LRQA logo is in the bottom right corner of the ad area.

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From: Hesam Beigy <hesam.beigy@alfalaval.com>
Sent: Wednesday, August 23, 2023 6:53 PM
To: Mikuła, Joanna <joanna.mikula@lrqa.com>; Kawecki, Artur <artur.kawecki@lrqa.com>
Cc: Rasmus Severin Pallesen <RasmusSeverin.Pallesen@alfalaval.com>; Ian Duus <ian.duus@alfalaval.com>; Nicolas Nethol <Nicolas.Nethol@alfalaval.com>; Nordic INS <nordicins@lrqa.com>; Katowice <katowice@lrqa.com>
Subject: RE: Half Jacket - PED2014/68/EU & PED GUIDELINES

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Dear Joanna and Artur,

A kind follow up on this topic-waiting for the update on the declaration.

Also, for your information, our end client seems to have still a different opinion about the matter, so, we are trying to arrange a meeting and we would need Artur in the meeting to discuss it with the 3rd party that they are also going to involve. We will get back to you as soon as a date was proposed by end client. Meanwhile, if there is any days within next week that does not work for you, would appreciate if you could let us know, so, we wont plan anything for those days.

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
Mobile: +45 27778777
hesam.beigy@alfalaval.com
Contact me on Teams: <sip:hesam.beigy@alfalaval.com>

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From: Hesam Beigy
Sent: 11. august 2023 10:17
To: Mikuła, Joanna <joanna.mikula@lrqa.com>; Katowice <katowice@lrqa.com>
Cc: Rasmus Severin Pallesen <rasmusseverin.palleesen@alfalaval.com>; Ian Duus <ian.duus@alfalaval.com>; Nicolas Nethol <nicolas.nethol@alfalaval.com>; Nordic INS <nordicins@lrqa.com>; Kawecki, Artur <artur.kawecki@lrqa.com>
Subject: RE: Half Jacket - PED2014/68/EU & PED GUIDELINES

Dear Joanna,

Thanks for your follow up and clarification. Have a nice weekend.

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
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hesam.beigy@alfalaval.com
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From: Mikuła, Joanna <joanna.mikula@lrqa.com>
Sent: 11. august 2023 09:30
To: Hesam Beigy <hesam.beigy@alfalaval.com>; Katowice <katowice@lrqa.com>
Cc: Rasmus Severin Pallesen <RasmusSeverin.Pallesen@alfalaval.com>; Ian Duus <ian.duus@alfalaval.com>; Nicolas Nethol <Nicolas.Nethol@alfalaval.com>; Nordic INS <nordicins@lrqa.com>; Kawecki, Artur <artur.kawecki@lrqa.com>
Subject: RE: Half Jacket - PED2014/68/EU & PED GUIDELINES

Dear Hesam,

I spoke to Arthur. Unfortunately this question will have to wait until 21.08. when Artur returns from holiday.

Thank you in advance for your patience and understanding.

Best regards
Joanna

Classified by Alfa Laval as: Business

From: Hesam Beigy <hesam.beigy@alfalaval.com>
Sent: Friday, 11 August 2023 08:26
To: Katowice <katowice@lrqa.com>
Cc: Rasmus Severin Pallesen <RasmusSeverin.Pallesen@alfalaval.com>; Ian Duus <ian.duus@alfalaval.com>; Nicolas Nethol <Nicolas.Nethol@alfalaval.com>; Nordic INS <nordicins@lrqa.com>; Mikuła, Joanna <joanna.mikula@lrqa.com>; Kawecki, Artur <artur.kawecki@lrqa.com>
Subject: RE: Half Jacket - PED2014/68/EU & PED GUIDELINES

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Hello,

It seems that Artur is on leave, would it be possible for you to help us with below question?

Thanks.

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
Mobile: +45 27778777
hesam.beigy@alfalaval.com
Contact me on Teams: <sip:hesam.beigy@alfalaval.com>

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From: Hesam Beigy
Sent: 11. august 2023 08:25
To: Kawecki, Artur <artur.kawecki@lrqa.com>
Cc: Rasmus Severin Pallesen <rasmusseverin.pallesen@alfalaval.com>; Ian Duus <ian.duus@alfalaval.com>; Nicolas Nethol <nicolas.nethol@alfalaval.com>; Nordic INS <nordicins@lrqa.com>; Mikuła, Joanna <joanna.mikula@lrqa.com>
Subject: RE: Half Jacket - PED2014/68/EU & PED GUIDELINES

Dear Artur,

Thanks a lot for your effort and providing the declaration.

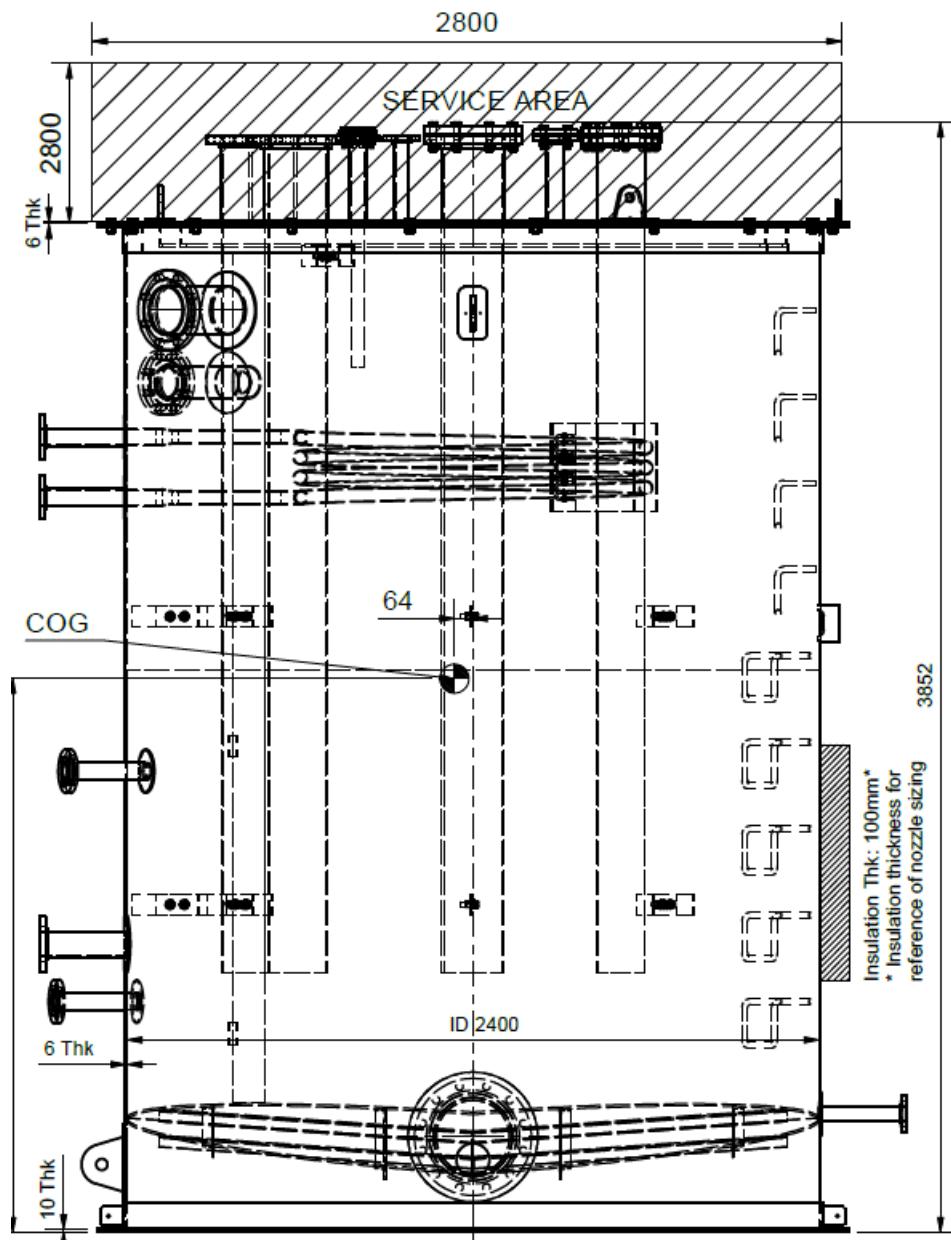
We had an internal discussion, and had a question, which might arise the need for updating the declaration.

What if the coil is inside the tank (one example below) ? Shall it be treated with the same procedure that you described in attached or the tank would be exempted from CE marking?

I would appreciate if you could update attached with this information, so, we hopefully can cover

all cases that we are foreseeing.

Thanks.



Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
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hesam.beigy@alfalaval.com
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From: Kawecki, Artur <artur.kawecki@lrqa.com>
Sent: 9. august 2023 10:58
To: Hesam Beigy <hesam.beigy@alfalaval.com>; Mikuła, Joanna <joanna.mikula@lrqa.com>
Cc: Rasmus Severin Pallesen <RasmusSeverin.Pallesen@alfalaval.com>; Ian Duus <ian.duus@alfalaval.com>; Nicolas Nethol <Nicolas.Nethol@alfalaval.com>; Nordic INS <nordicins@lrqa.com>
Subject: RE: Half Jacket - PED2014/68/EU & PED GUIDELINES

Dear Hesam,

Please find our opinion and recommendation to case under consideration.

I hope it will make you sure about way you shall follow in assessment process of the vessel.

In case of questions let me know.

Regards

Artur Kawęcki, LRQA
Service Delivery Team Leader – Poland & Nordic, Inspection Service
Senior Surveyor, ASME Authorised Inspector Supervisor
artur.kawecki@lrqa.com | M + 48 601 740 754

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From: Hesam Beigy <hesam.beigy@alfalaval.com>
Sent: Tuesday, August 8, 2023 1:17 PM
To: Mikuła, Joanna <joanna.mikula@lrqa.com>
Cc: Rasmus Severin Pallesen <RasmusSeverin.Pallesen@alfalaval.com>; Ian Duus <ian.duus@alfalaval.com>; Kawecki, Artur <artur.kawecki@lrqa.com>; Nicolas Nethol <Nicolas.Nethol@alfalaval.com>
Subject: RE: Half Jacket - PED2014/68/EU & PED GUIDELINES

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Dear Joanna,

Thanks for clarification. Please find attached signed version.

Please proceed with this inquiry and let us know as soon as declaration was ready.

FYI-I have changed AL email address on attached document.

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
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Contact me on Teams: <sip:hesam.beigy@alfalaval.com>

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From: Mikuła, Joanna <joanna.mikula@lrqa.com>

Sent: 8. august 2023 11:55

To: Hesam Beigy <hesam.beigy@alfalaval.com>

Cc: Rasmus Severin Pallesen <RasmusSeverin.Pallesen@alfalaval.com>; Ian Duus <ian.duus@alfalaval.com>; Kawecki, Artur <artur.kawecki@lrqa.com>; Nicolas Nethol <Nicolas.Nethol@alfalaval.com>

Subject: RE: Half Jacket - PED2014/68/EU & PED GUIDELINES

Hi Hesam,

The end of the year in this context means that whatever other consultation you need by the end of 2023, it can be carried out based on this offer. I will not need to issue another offer. All you need to do, is send a request to us with your drawings and then Arthur will confirm how many hours and he needs and deadline for the project. And that's it.

As for when this particular review will be carried out, Artur will probably write later today when this work will be possible.

If any question just let me know. I will be happy to help.

Best
Joanna

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From: Hesam Beigy <hesam.beigy@alfalaval.com>

Sent: Tuesday, 8 August 2023 11:36

To: Mikuła, Joanna <joanna.mikula@lrqa.com>

Cc: Rasmus Severin Pallesen <RasmusSeverin.Pallesen@alfalaval.com>; Ian Duus <ian.duus@alfalaval.com>; Kawecki, Artur <artur.kawecki@lrqa.com>; Nicolas Nethol <Nicolas.Nethol@alfalaval.com>

Subject: RE: Half Jacket - PED2014/68/EU & PED GUIDELINES

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Hello again Joanna,

Apologize for the other mail-saw your mail just now. Could you please clarify the timeline? You mentioned below by end of the year? Did you mean by end of this week probably?

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
Mobile: +45 27778777
hesam.beigy@alfalaval.com
Contact me on Teams: <sip:hesam.beigy@alfalaval.com>

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From: Mikuła, Joanna <joanna.mikula@lrqa.com>
Sent: 8. august 2023 11:32
To: Nicolas Nethol <Nicolas.Nethol@alfalaval.com>
Cc: Hesam Beigy <hesam.beigy@alfalaval.com>; Rasmus Severin Pallesen <RasmusSeverin.Pallesen@alfalaval.com>; Ian Duus <ian.duus@alfalaval.com>; Kawecki, Artur <artur.kawecki@lrqa.com>
Subject: FW: Half Jacket - PED2014/68/EU & PED GUIDELINES

CAUTION. This e-mail originated from outside of Alfa Laval. Please be mindful of attachments and links.
Dear Nicolas,

Based on below request I am pleased to inform you that we can carry out such consultations for you. For this product, the anticipated number of hours is 3h.
I am enclosing our proposal.
It will be possible to carry out both the consultation on the following product and others, by the end of this year. This will save us additional work should any more work on your part arise.

If you accept our proposal, please send me the signed attached document by email. Once we have received it, Arthur will be able to start this work.

Best
Joanna

Z wyrazami szacunku / Med vänliga hälsningar / Best regards / Bien à vous / Saludos / Beste Grüße / Cumprimentos / 诚挚 / Distinti Saluti / Med vennlig hilsen,

Joanna Mikuła

Sales Executive Poland and Nordics
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From: Hesam Beigy <hesam.beigy@alfalaval.com>
Sent: Friday, 4 August 2023 09:14
To: Kawecki, Artur <artur.kawecki@lrqa.com>; Kawecki, Artur <Artur.Kawecki@lr.org>; Mikuła, Joanna <joanna.mikula@lrqa.com>
Cc: Joanna.Mikula@lr.org; Rasmus Severin Pallesen <RasmusSeverin.Pallesen@alfalaval.com>; Ian Duus <ian.duus@alfalaval.com>; Nicolas Nethol <Nicolas.Nethol@alfalaval.com>; artur.kawecki@lr.org
Subject: RE: Half Jacket - PED2014/68/EU & PED GUIDELINES

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Hello Artur,

Long time no seen 😊 hope you are doing well. My colleague have tried to contact you and Joanna, but seems that the emails bounced back due to IT issues-I am trying to re-send it to you. Hope it is transmitted this time.

Could you please look into the request below from Nicolas?

Thanks for your help.

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
Mobile: +45 27778777
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Contact me on Teams: <sip:hesam.beigy@alfalaval.com>

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From: Nicolas Nethol <Nicolas.Nethol@alfalaval.com>
Sent: 3. august 2023 15:36
To: artur.kawecki@lr.org
Cc: Joanna.Mikula@lr.org; Hesam Beigy <hesam.beigy@alfalaval.com>; Rasmus Severin Pallesen <RasmusSeverin.Pallesen@alfalaval.com>; Ian Duus <ian.duus@alfalaval.com>
Subject: Half Jacket - PED2014/68/EU & PED GUIDELINES

Dear Artur and Joanna,

I got your contact from my colleague, Hesam. We are writing to seek LRQA assistance in clarifying the interpretation of the guidelines related to the Pressure Equipment Directive 2014/68/EU. Specifically, we are seeking guidance regarding atmospheric pressure vessels that have a welded coil attached to the tank wall, operating at pressures above 0.5 bar.

Currently, we are in the process of designing tanks that operate at atmospheric pressure for both design and operation. These vessels have coils welded to the external wall, where vapor circulates at a pressure of 2.53 Kg/cm². It's important to note that these coils are only used during equipment shutdown and are not in constant use. Please see attached a sample drawing of such design.

We have already reviewed PED guidelines B-04 and B-19 and are attempting to reach an agreement with our client on the possible categorization of these vessels. We have encountered the following scenarios:

Case 1:

The vessel as a whole does not fall under any category or would be classified under Article 4(3) of PED 2014/68/EU.

Case 2:

We should treat the vessel as two separate units, with only the coil requiring categorization according to Directive 2014/68/EU. The main part of vessel (which has Atmospheric design) would not need to follow PED requirement since pressure is below 0,5barg.

Case 3:

The entire equipment should be classified based on the highest classification of any of its components-in this case, both coil and main vessel shall be designed and fabricated as per category that coil will have.

What we need is a declaration/statement from you, similar to the one you provided previously, a copy attached.

Before you start working on the declaration, our Project team would need an estimated:

- Total cost for your hours and services
- Expected date that we can have the declaration

Thank you for your time and attention to this matter. We greatly value your expertise in this area and hope to receive your response soon.

Best Regards
Nicolas Nethol



Nicolas Nethol, Mechanical Engineering
Static Equipment Design Engineer
Mobile: +45 27 77 84 69
nicolas.nethol@alfalaval.com
Contact me on Teams: <sip:nicolas.nethol@alfalaval.com>

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RE: Unlocking Efficiency: Leveraging Tank Design Reuse Across Projects with CAD Tool Database (Vessel App)

7. september 2023 09:03

Subject	RE: Unlocking Efficiency: Leveraging Tank Design Reuse Across Projects with CAD Tool Database (Vessel App)
From	Hesam Beigy
To	Reza Mahmoudpour; Siddharth Gujar; KinHung Woo; Anatolii Harkusha; Satish Jooluri; Nicolas Nethol
Cc	Prakash Aware; Rahul Jagtap1; Weijie Liu; Nikhil Varghese
Sent	7. september 2023 09:00
Attachments	

Dear all,

We are in need of regular reporting of re-use of tanks that we do when projects initiates in Alfa Laval.

I have created the excel sheet and filled it out with the data that I could gather.

Please remember for each and every project that you start, when reference drawings are chosen and are final, we need to add data to this list, so, higher managers can see value addition that our team is generating by controlling the process—that's what Ole calls Gold in below correspondences ☺

we are at the first stage only focusing on copying the tanks with main dimensions remaining the same, and after some while, I guess we can be a bit more ambitious ☺

Target for re-use is around 80-90% and this initiative have support from Ole Bak-see below.

Excel sheet is placed in our [calculation folder](#)-a link also attached.

Thanks for your good work.

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
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hesam.beigy@alfalaval.com
Contact me on Teams: <sip:hesam.beigy@alfalaval.com>

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From: Ole Bak <Ole.Bak@alfalaval.com>
Sent: 3. juli 2023 16:02
To: Hesam Beigy <hesam.beigy@alfalaval.com>
Cc: Per Martinsen <per.martinsen@alfalaval.com>; Emeline Rey <emeline.rey@alfalaval.com>
Subject: RE: Unlocking Efficiency: Leveraging Tank Design Reuse Across Projects with CAD Tool Database (Vessel App)

Hessam,

This looks like a gold mine!

Best regards

Ole Bak



Ole Bak
Vice President, Engineering & Supply
Business Unit Food Systems, Food & Water Division
Tel direct: +45 39 536491 - Mobile: +45 51 434543
ole.bak@alfalaval.com
Contact me on Teams: <sip:ole.bak@alfalaval.com>

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From: Per Martinsen <per.martinsen@alfalaval.com>
Sent: 3. juli 2023 15:01
To: Ole Bak <Ole.Bak@alfalaval.com>
Subject: FW: Unlocking Efficiency: Leveraging Tank Design Reuse Across Projects with CAD Tool Database (Vessel App)

Ole,

Please see below from Hesam.

The new vessel app has already secured a high level of reuse leading to significant savings on the three mentioned project.

This is a good story that you are welcome incorporate in the presentation tomorrow.

Best regards,
Per Martinsen



Per Martinsen
Head of Project Engineering, Business Unit Food Systems,
Mobile: +4529275515
per.martinsen@alfalaval.com
Contact me on Teams: <sip:per.martinsen@alfalaval.com>

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From: Hesam Beigy <hesam.beigy@alfalaval.com>
Sent: 3. juli 2023 14:44
To: Per Martinsen <per.martinsen@alfalaval.com>
Cc: Emeline Rey <emeline.rey@alfalaval.com>
Subject: Unlocking Efficiency: Leveraging Tank Design Reuse Across Projects with CAD Tool Database (Vessel App)

Hi Per,

Regarding the Vessel App and the benefits of leveraging our existing data in the project execution, I have compiled the relevant statistics for your reference. Please see below table.

I would like to emphasize that in the projects listed below, our team was actively involved from

the early stages, even before reference drawings were selected or layouts were initiated. This enabled us to engage in in-depth discussions with the process team and global technology experts to optimize volumes for maximum reusability.

Our experienced Vessel engineers shall be normally leading these discussions, ensuring a comprehensive understanding of the process and overview of the tanks done in previous projects globally. Currently, I am taking charge of the sessions dedicated to selecting our tank references. These sessions serve not only as a means of choosing the tanks but also as an opportunity to educate and mentor the new members of our team. Additionally, I have made recordings of some of these sessions, allowing team members in different time zones to access them and incorporate them into their training.

Based on our conversations we had and my experience, reusing tanks without modifying their main dimensions can result in approximately 40% reduction in engineering hours. This saving could potentially be even greater if we also copy over nozzles or internals (agitators, structural packings and etc). However, it's essential to establish a well-defined alignment to facilitate this copying process.

Last but not least, by collaborating and leveraging the VesselApp database and its historical data, I foresee the possibility of instilling a culture of reusability throughout our organization on a global scale and across sites.

If you require any additional information, please feel free to let me know.

Project	Execution Site	Total number of tanks	Re-used Tanks	% of re-use
Shell Peri	Richmond	72	64	88,9%
CEPSA Bio Oil	Søborg	64	58	90,6%
Shell Singa	KL	52	44	84,6%

Best Regards
Hesam Beigy



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Filter Leaf Cleaning Tank-Coil details (B37 tanks)

8. september 2023 08:46

Subject	Filter Leaf Cleaning Tank-Coil details (B37 tanks)
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satis Jooluri; Siddharth Gujar; Weijie Liu
Sent	9. august 2023 17:22
Attachments	  

Hi all,

We have had a discussion for one of projects, and it seems that we need an alignment on the coil design in these filter leaf cleaning tanks. I have made a sketch how the coil shall be-please find it attached.

Important things:

- Collar ID (51,6mm) shall be checked by supplier before placing the coil pipes in
- Gap between the collar and the coil pipe shall be maintained-due to weight of coil, at the end of pipe, gap might be slightly different, however, this need to be minimized by correct installation
- Collar and coil shall not be welded
- Coils and other internals in this tank shall be pre-fabricated
- Internal in this tank shall be placed inside the tank before cone is welded to shell
- A sample of the tank is attached
- A newer design of this tank is also being prepared with "cage design"-for new projects, we need to use cage design after agreement with project manager (cage design model is slightly more expensive than the original and old design)

Please secure that this design is used for all projects.

Thanks.

Best Regards
Hesam Beigy



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答复: 26B37-Filter Leaves Cleaning Tank

8. september 2023 08:55

Subject	答复: 26B37-Filter Leaves Cleaning Tank
From	Ken Xu SHLH
To	Hesam Beigy
Cc	Asger Lindegaard; Anatolii Harkusha; Siddharth Gujar; KinHung Woo; Bettina Godsk Jorgensen
Sent	30. juni 2021 11:49

CAUTION. This e-mail originated from outside of Alfa Laval. Please be mindful of attachments and links.
Hi Hesam,

See my replies in red please.

Best Regards,

<p>徐智斌 Ken Xu Sales Manager Shanghai L & H Stainless Equipment Co., Ltd. 上海建弢不锈钢设备制造有限公司</p> <p>Building 1, No. 1333 Lixue Road, Ma Lu Township, Jia Ding Borough Shanghai 201801, P.R. China 上海市嘉定区马陆镇励学路1333号1栋</p> <p>mob +86 1307 217 6392 ddi +8621 5990 6935 fax +8621 5990 6910 email ken.xu@shlh.com.cn website www.shlh.com.cn</p>	
--	---

发件人: Hesam Beigy <hesam.beigy@alfalaval.com>

发送时间: 2021年6月29日 16:39

收件人: Ken Xu SHLH <ken.xu@shlh.com.cn>

抄送: Asger Lindegaard <asger.lindegaard@alfalaval.com>; Anatolii Harkusha <Anatolii.Harkusha@alfalaval.com>; Siddharth Gujar <Siddharth.Gujar@alfalaval.com>; KinHung Woo <kinhung.woo@alfalaval.com>; Bettina Godsk Jorgensen <bettinagodsk.jorgensen@alfalaval.com>

主题: 26B37-Filter Leaves Cleaning Tank

Dear Ken,

We have received a request to improve the functionality of 26B37 and therefore a new design proposal is now approved.

We are working on detailing the solution, but before finalizing the solution, would need a bit help from you to make detail drawings.

The new concept for 26B37 would be:

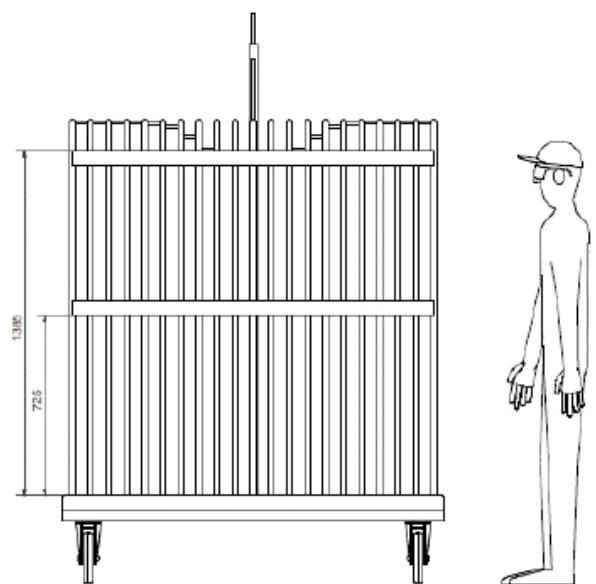
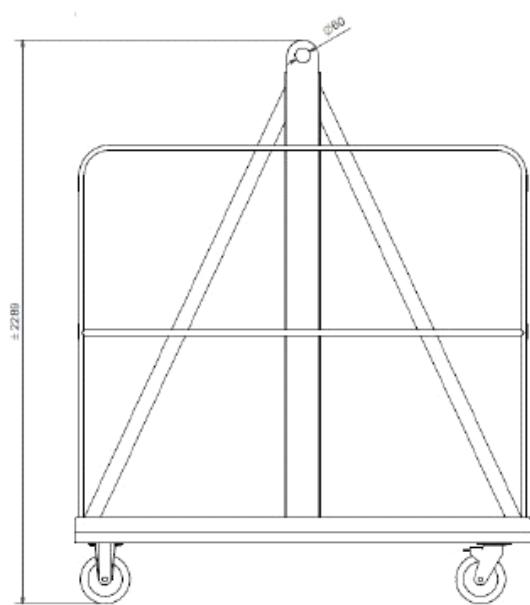
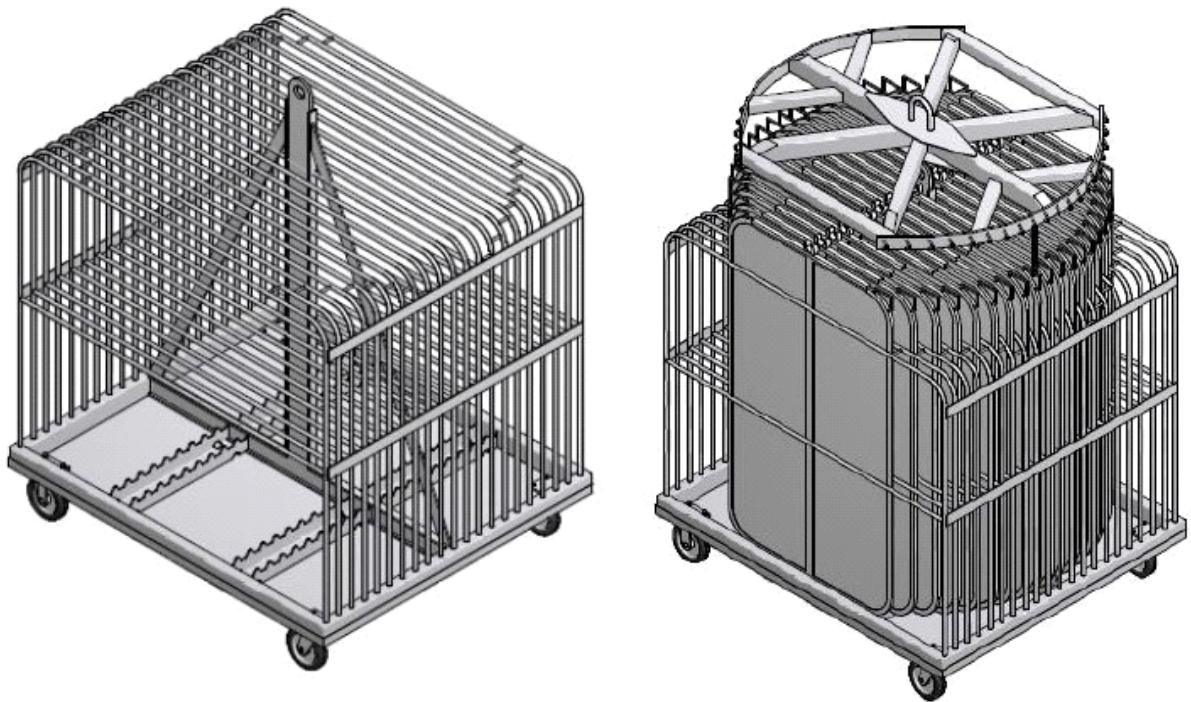
- Increase diameter of 26B37 by 200 (new ID: 2200mm)
- Remove the rods in 26B37
- Make the Filter Leave cage as per 3D file "Frame_3D_26_06_2021"
- Prepare a trolley big enough for transportation of cage inside the customer building
- The weight of cage+filter leaves to be considered around 4,9 Tons (Trolley need to be designed for this load-safety factors are already applied in this weight)

For now, we are interested to know:

- Size of trolley: shall we design as it fits or cage or there are some standard sizes that you prefer to use? Material to be 316(L). **[LH Ken]: No standard size for us. But I think four SS universal wheels should be used basically.**
- An estimate with breakdown for the change of the cost of the tank for below scope:
 - o 26B37 tank (internal coil+ coil support+ sparge ring): material 316(L) **[LH Ken]: +EUR3000**
 - o Cage as per 3D file "Frame_3D_26_06_2021" **[LH Ken]: ~EUR6000**
 - o Trolley with leaves**[LH Ken]: ~EUR16000**.

See below some pictures for inspiration of the trolley and cage that is needed for transportation.

Thanks.



Best regards,
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering

Technical Team Leader, E&S Food Systems

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One Sample for shipping tanks with Insulation

17. september 2023 22:08

Subject	One Sample for shipping tanks with Insulation
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	17. september 2023 22:07
Attachments	   

FYI

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
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From: RichardTeles Neves <RichardTeles.Neves@alfalaval.com>

Sent: 6. september 2023 13:06

To: Hesam Beigy <hesam.beigy@alfalaval.com>; Nicolas Nethol <Nicolas.Nethol@alfalaval.com>

Cc: AnneCathrine Lillelund <annecathrine.lillelund@alfalaval.com>; Nitin Deshmukh

<nitin.deshmukh@alfalaval.com>; CC0794-G150 <CC0794@alfalaval.com>

Subject: Fwd: Tanks supplied to Molson

Best Regards

Richard Neves

Richard Neves

Senior Project Manager

Customer Project Management, Food Systems

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Classified by Alfa Laval as: Business

From: John Piazza <John.Piazza@promachbuilt.com>

Sent: Wednesday, September 6, 2023 1:03:47 PM

To: RichardTeles Neves <RichardTeles.Neves@alfalaval.com>

Cc: Hesam Beigy <hesam.beigy@alfalaval.com>; CC0794-G150 <CC0794@alfalaval.com>; AnneCathrine Lillelund <annecathrine.lillelund@alfalaval.com>

Subject: FW: Tanks supplied to Molson

CAUTION. This e-mail originated from outside of Alfa Laval. Please be mindful of attachments and links.

Richard,

I hope the email trail provides some insights. Feel free to reach out to a particular member of my team for further assistance.

Best Regards,
John

John W. Piazza | Vice President and General Manager



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From: Mark Spence <Mark.Spence@promachbuilt.com>

Sent: Tuesday, September 5, 2023 3:12 PM

To: John Piazza <John.Piazza@promachbuilt.com>; Gregory Collier

<Gregory.Collier@promachbuilt.com>; Marcus Kienemann <Marcus.Kienemann@promachbuilt.com>;

Mark Spence <Mark.Spence@promachbuilt.com>

Cc: George Terlep <George.Terlep@promachbuilt.com>

Subject: RE: Tanks supplied to Molson

Greg, John,

ABS did carefully plan the shipping skid into the tank design. They specifically had some tank tabs which the shipping skid could "bolt" onto to minimize any movement of the tanks. Rubber spacers to minimize rub. It does not look like some of the orange clamps had the rubber spacer, but you could do the same thing for those (and that would be recommended).

Marcus – fyi – I put a bunch of the tank photos on the PJID 2121 directory. You may also have more from your warehouse visit when they came to US.

Thanks,
Mark

Mark Spence | Director of Engineering

Statco-DSI, a ProMach Product Brand

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O 314-382-1525 | C314-580-9287

E Mark.Spence@ProMachBuilt.com

Web www.Statco-DSI.com

From: Gregory Collier <Gregory.Collier@promachbuilt.com>

Sent: Tuesday, September 5, 2023 10:36 AM

To: Marcus Kienemann <Marcus.Kienemann@promachbuilt.com>
Cc: John Piazza <John.Piazza@promachbuilt.com>; Mark Spence <Mark.Spence@promachbuilt.com>;
George Terlep <George.Terlep@promachbuilt.com>
Subject: RE: Tanks supplied to Molson

Thanks Marcus. Do we have pics of how the tanks arrived?

Gregory Collier | Vice President of Beverage Technologies

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O 314-382-1525 | C314-799-3065

//////////

From: Marcus Kienemann <Marcus.Kienemann@promachbuilt.com>
Sent: Tuesday, September 5, 2023 10:33 AM
To: Gregory Collier <Gregory.Colloier@promachbuilt.com>
Cc: John Piazza <John.Piazza@promachbuilt.com>; Mark Spence <Mark.Spence@promachbuilt.com>;
George Terlep <George.Terlep@promachbuilt.com>
Subject: RE: Tanks supplied to Molson

When I drove the boat over from China, it is important to hit the waves at a 45 and not head-on.

But in all seriousness, I like how ABS ships their tanks. They had the tanks wrapped /padded for transport; and they rested the tanks on a frame they built, it had saddles with casters for ease of transport and crane pickup.

Thanks,

Marcus Kienemann | Sr. Process Engineer
Statco-DSI, a ProMach Product Brand
O 314-382-1525 ext. 60159 | C314-307-1794

//////////

From: Gregory Collier <Gregory.Colloier@promachbuilt.com>
Sent: Tuesday, September 5, 2023 10:15 AM
To: Marcus Kienemann <Marcus.Kienemann@promachbuilt.com>
Cc: John Piazza <John.Piazza@promachbuilt.com>; Mark Spence <Mark.Spence@promachbuilt.com>;
George Terlep <George.Terlep@promachbuilt.com>
Subject: RE: Tanks supplied to Molson

Marcus,

Please see below. Are you able to comment?

Gregory Collier | Vice President of Beverage Technologies

Statco-DSI, a ProMach Product Brand

O 314-382-1525 | C314-799-3065

//////////

From: John Piazza <John.Piazza@promachbuilt.com>
Sent: Tuesday, September 5, 2023 10:07 AM
To: Gregory Collier <Gregory.Collier@promachbuilt.com>; Mark Spence <Mark.Spence@promachbuilt.com>
Subject: FW: Tanks supplied to Molson

Gents,

The Alfa Laval team seems to be struggling to get their tanks to G150 undamaged. Can one of you (or someone else that is better equipped) reach out to them to provide any insights we think is reasonable?

Best Regards,
John

John W. Piazza | Vice President and General Manager



Statco-DSI, a ProMach Product Brand

O 314-281-4742 | C314-281-4742



From: RichardTeles Neves <RichardTeles.Neves@alfalaval.com>
Sent: Tuesday, September 5, 2023 6:57 AM
To: John Piazza <John.Piazza@promachbuilt.com>
Cc: Hesam Beigy <hesam.beigy@alfalaval.com>; CC0794-G150 <CC0794@alfalaval.com>; AnneCathrine Lillelund <annecathrine.lillelund@alfalaval.com>
Subject: Tanks supplied to Molson

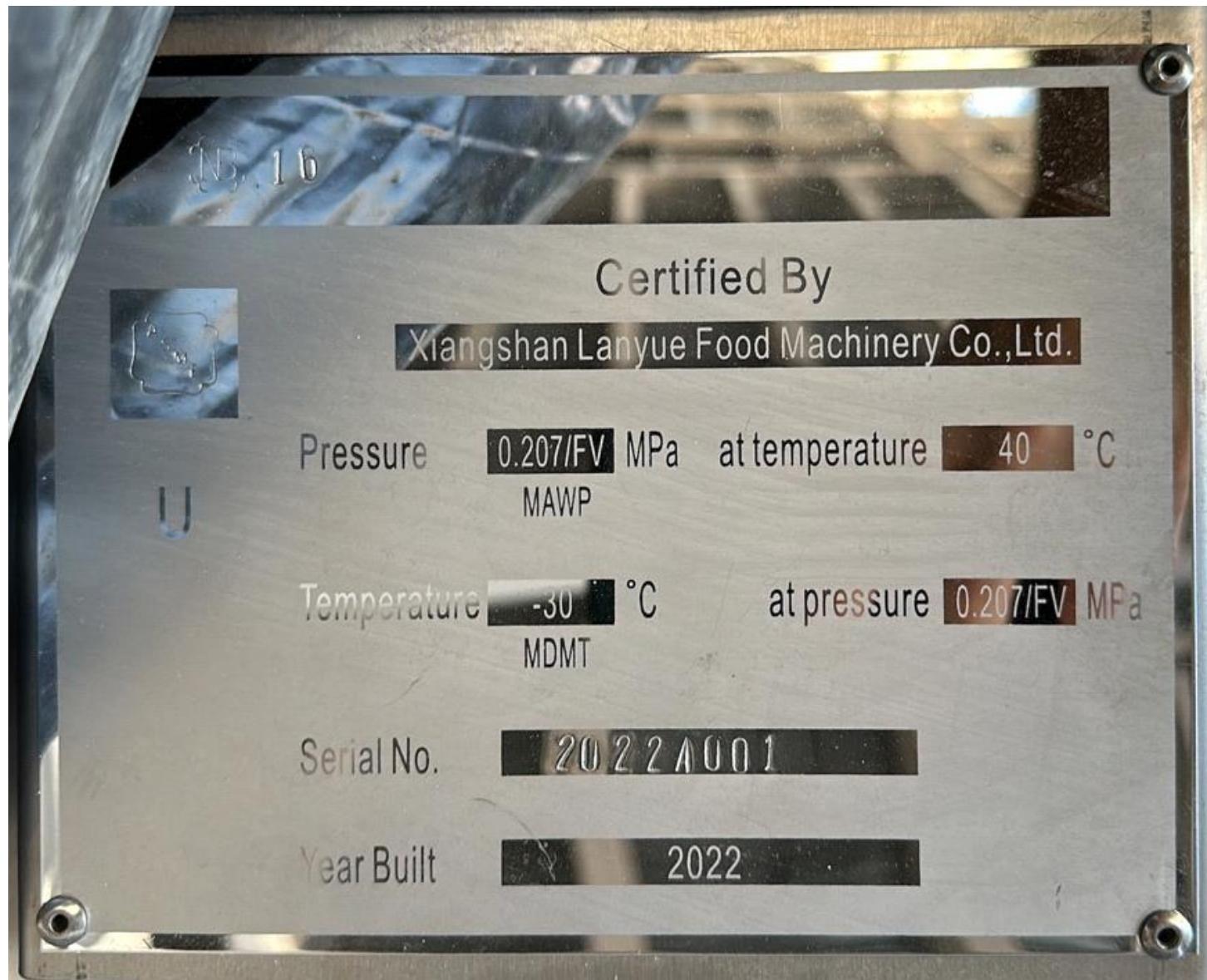
[EXTERNAL SENDER]
Hi John

We have had a tough time dealing with tanks damaged during transport and need to end last tanks to site.

Molson has noted your tanks were well received damage free.

Would you allow as to get some design knowhow from your team on these tanks so we can adopt the

solution and complete our delivery?







Best Regards

Richard Neves



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Senior Project Manager
Customer Project Management, Food Systems
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FW: Corrosion allowance for Carbon Steel Tanks - Shell Peri - Lifecycle of 20 - 30 Years

24. september 2023 11:36

Subject	FW: Corrosion allowance for Carbon Steel Tanks - Shell Peri - Lifecycle of 20 - 30 Years
From	Hesam Beigy
To	Amir Eslampahan; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	24. september 2023 11:36

Dear all,

Please see below some useful references for Corrosion allowance from standards in Oils and Gas-also, please read the conclusion below for a project, where client has asked AL to downgrade material to Carbon Steel (to decrease the cost) for PE removal section.

Best Regards
Hesam Beigy



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From: Hesam Beigy
Sent: 24. september 2023 11:35
To: Vitor Maeda <Vitor.Maeda@alfalaval.com>
Cc: Konstantin Shipov <konstantin.shipov@alfalaval.com>; Ganesh Patil <ganesh.patil@alfalaval.com>; Alexey Shevchenko <alexey.shevchenko@alfalaval.com>; Siddharth Gujar <siddharth.gujar@alfalaval.com>; Satish Jooluri <satish.jooluri@alfalaval.com>
Subject: RE: Corrosion allowance for Carbon Steel Tanks - Shell Peri - Lifecycle of 20 - 30 Years

Hi Vitor,

I did talk with our corrosion expert and we tried to locate some references where we have a recipe from Oil and Gas Industry for choosing the Corrosion allowances-we came across below

references, something that Konstantin found in Russian language.

Based on this, I still think 1,5mm CA seems enough, since:

- Erosion: as per our experience from traditional Oil projects, we don't have erosion problems, only risk is slurry mixer, where during detail engineering we would increase plate thicknesses to a reasonable amount
- Corrosion: again, based on the meeting we had, we used to do many of vessels in CS (and we still do as per Alexey), i.e. bleachers, so, based on historical data, we shall not have problem with corrosion and adding 1,5 shall be sufficient as it seems (same was done for Total for the 2 vessels that CA was introduced)

Please note that:

- We need to agree with client where this CA applies:
 - o Vessel parts (shells, heads)
 - o Internals: shall they be also considered with 1,5 mm CA? probably yes
 - o Nozzle Necks (it would be much easier if we can exclude Nozzle necks from CA requirement, however, it wont be an easy task to get client to agree to this)
 - o Flanges (strongly recommend to exclude flanges from CA)

References:

NORSOK standard M-001

4.3 Corrosivity evaluation and corrosion protection

4.3.1 Internal corrosion allowance

A corrosion allowance of 3 mm is generally recommended for carbon steel piping, unless higher corrosion allowances are required. However, each system should be evaluated and the selected corrosion allowance be supported by corrosion evaluations. All piping classes in carbon steel grades in NORSOK L-001 have a corrosion allowance of 3 mm for standardization reasons.

Material Selection for petroleum refineries by White (this book is one of the references in O&G)
Parag. 1.2 General Guidelines for Material Selection

A corrosion allowance of 1.5 mm (1/16-inch) is the generally accepted minimum for carbon and low alloy steel equipment⁽⁴⁾⁽⁵⁾⁽⁶⁾ consistent with the minimum first-cost approach. Because material normally is purchased in standard wall thickness, e.g., specifying a 1.5 mm (1/16-inch) minimum corrosion allowance for carbon and low alloy steel usually results in an actual corrosion allowance closer to 3 mm (1/8-in.).

14. Corrosion allowance on carbon steel

(Metric equivalents are not numerical equivalents but are the commonly used equals.)

- a. 1.5 mm (1/16 in.): Use on vessels and piping in non-corrosive service unless otherwise specified.

DNVGL Part4 Chapter 6:

Table 5 Corrosion allowance c for steel pipes

Piping service	c [mm]
Superheated steam	0.3
Saturated steam	0.8
Steam coils in cargo tanks	2
Feed water for boilers in open circuit systems	1.5
Feed water for boilers in closed circuit systems	0.5
Blowdown pipes (for boilers)	1.5
Compressed air	1
Hydraulic oil	0.3
Lubricating oil	0.3
Fuel oil	1
Cargo oil	2
LPG	0.3
Refrigerants	0.3
Fresh water	0.8
Sea water in general	3

Best Regards
Hesam Beigy



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Technical Team Leader, E&S Food Systems

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-----Original Appointment-----

From: Vitor Maeda <Vitor.Maeda@alfalaval.com>

Sent: 20. september 2023 20:26

To: Hesam Beigy; Ganesh Patil; Alexey Shevchenko

Subject: Corrosion allowance for Carbon Steel Tanks - Shell Peri - Lifecycle of 20 - 30 Years

When: 22. september 2023 08:30-09:00 (UTC-05:00) Eastern Time (US & Canada).

Where: Microsoft Teams Meeting

Hi Hesam

Per our discussion with Alexey, we have agreed to inform Shell what should be a corrosion allowance for vessels in the PE removal section that would suffice a lifecycle of 20 to 30 years for our equipment.

Goal of this meeting is to discuss if you can help us getting to a corrosion allowance number based on calculations/database.

[@Alexey Shevchenko](#), I am adding you as optional for information only (you are always welcome to join though 😊)

Microsoft Teams meeting

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[Click here to join the meeting](#)

Meeting ID: 395 224 644 118

Passcode: Rd6qk6

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Re: Corrosion allowance standard

26. september 2023 10:10

Subject	Re: Corrosion allowance standard
From	Konstantin Shipov
To	Anatolii Harkusha
Cc	Alexey Shevchenko; Hesam Beigy; Vitor Maeda
Sent	26. september 2023 08:43

Hi Anatolia,

Thank you for your expert input and this table. We can take some limits from it for similar tank (oil wetted and water wetted).

Have a good day,

BR

Konstantin

[Скачайте Outlook для iOS](#)

Classified by Alfa Laval as: Business

От: Anatolii Harkusha <Anatolii.Harkusha@alfalaval.com>

Отправлено: Tuesday, September 26, 2023 1:37:20 AM

Кому: Konstantin Shipov <konstantin.shipov@alfalaval.com>

Копия: Alexey Shevchenko <alexey.shevchenko@alfalaval.com>; Hesam Beigy <hesam.beigy@alfalaval.com>; Vitor Maeda <Vitor.Maeda@alfalaval.com>

Тема: RE: Corrosion allowance standard

Hello Konstantin,

I have not seen direct standards which specify corrosion allowance.
Most of the sources (manuals) are for storage tanks and piping.

LPG - 1.5mm

Piping below:

Corrosion allowance for steel pipes	mm
Superheated steam	0.3
Saturated steam	0.8
Steam coils in cargo tanks and liquid fuel tanks	2.0
Feed water for boilers in open circuit systems	1.5
Feed water for boilers in closed circuit systems	0.5
Blow-down systems for boilers	1.5
Compressed air	1.0
Hydraulic oil	0.3
Lubricating oil	0.3
Fuel oil	1.0
Thermal oil	1.0
Fresh water	0.8
Sea water	3.0
Refrigerants referred to in Section 13	0.3
Cargo systems for oil tankers	2.0
Cargo systems for ships carrying liquefied gases	0.3

Corrosion allowances are normally shall be discussed with end user if it is applicable for carbon vessels. It would be useful to have this number as AL design standard (as default).

My understanding that for Oil projects with low aggressive environment, the numbers 0.05 mm per year could be applicable.

And these values for internal corrosion only because external corrosion shall be prevented by sufficient painting based on durability and environment (AL standard C3 ISO12944).

Best Regards

Anatolii Harkusha,

Mechanical Engineer, Engineering & Supply - USA

Tel direct: Mobile: +18046886933

anatolii.harkusha@alfalaval.com



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Classified by Alfa Laval as: Business

From: Konstantin Shipov <konstantin.shipov@alfalaval.com>
Sent: Friday, September 22, 2023 9:00 AM
To: Anatolii Harkusha <Anatolii.Harkusha@alfalaval.com>
Cc: Alexey Shevchenko <alexey.shevchenko@alfalaval.com>; Hesam Beigy <hesam.beigy@alfalaval.com>; Vitor Maeda <Vitor.Maeda@alfalaval.com>
Subject: Corrosion allowance standard

Hi Anatolii,

We have discussed with Hesam and Vitor the corrosion allowance for carbon vessels.
I have found some information in internet in russian but we need your expert help.

Can we find something similar in international standards?

Best regards,
Konstantin Shipov



Konstantin Shipov
Process Engineer
Global Technology, Oils & Fats Systems
Mobile: +45 27 77 84 56

konstantin.shipov@alfalaval.com

Contact me on Teams: [sip:konstantin.shipov @alfalaval.com](sip:konstantin.shipov@alfalaval.com)

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FW: Brewery cradles

16. oktober 2023 10:15

Subject	FW: Brewery cradles
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satis Jooluri; Siddharth Gujar; Weijie Liu
Cc	Jam Oskoui
Sent	16. oktober 2023 10:14
Attachments	   

Dear all,

Please see attached. A sample of transport supports for the tanks that would have tanks insulated in workshop.

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
Mobile: +45 27778777
hesam.beigy@alfalaval.com
Contact me on Teams: <sip:hesam.beigy@alfalaval.com>

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From: Umesh Ubarhande <umesh.ubarhande@alfalaval.com>
Sent: 16. oktober 2023 10:09
To: Hesam Beigy <hesam.beigy@alfalaval.com>; Dhananjay Suryavanshi <dhananjay.suryavanshi@alfalaval.com>
Subject: RE: Brewery cradles

Dear Hesam

See attached transportation drawing and GA drawing.

We are doing this tank insulation horizontally Hence required height is 750 mm for unitank.

AutoCAD Drawing attached when we are operation. We have transported the being tanks.

Thanks & Best Regards

Umesh Ubarhande



Umesh Ubarhande Master of Engineering in Design
Team Leader-Static Equipment Design, Engineering and Supply
Tel direct: +912067341643 - Mobile: +919623139558
umesh.ubarhande@alfalaval.com

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From: Hesam Beigy <hesam.beigy@alfalaval.com>
Sent: Monday, October 16, 2023 1:12 PM
To: Umesh Ubarhande <umesh.ubarhande@alfalaval.com>; Dhananjay Suryavanshi <dhananjay.suryavanshi@alfalaval.com>
Subject: RE: Brewery cradles

Dear Umesh,

For brewery tanks-do you install insulation at vessel fabricator and ship it to customer? If yes, could you please send me drawings (and pictures) of the transport supports you make while tank is insulated in workshop?

Thanks.

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
Mobile: +45 27778777
hesam.beigy@alfalaval.com
Contact me on Teams: <sip:hesam.beigy@alfalaval.com>

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From: RichardTeles Neves <RichardTeles.Neves@alfalaval.com>
Sent: 12. oktober 2023 15:19
To: Hesam Beigy <hesam.beigy@alfalaval.com>
Subject: Brewery cradles

FYI - spoke to the project team here - they say they have standard designs in Pune to transport brewery

tanks .

Best Regards

Richard Neves

Richard Neves

Customer Project Management, Food Systems

Mobile: +45 27 77 86 20

Softphone: +45 39 53 65 70

Richardteles.neves@alfalaval.com

Contact me on Lync/Skype: Richardteles.neves@alfalaval.com

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Tray holes and Bolt-On Tray Calculation

18. oktober 2023 11:41

Subject	Tray holes and Bolt-On Tray Calculation
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nicolas Taylor; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	18. oktober 2023 08:40
Attachments	

Hi All,

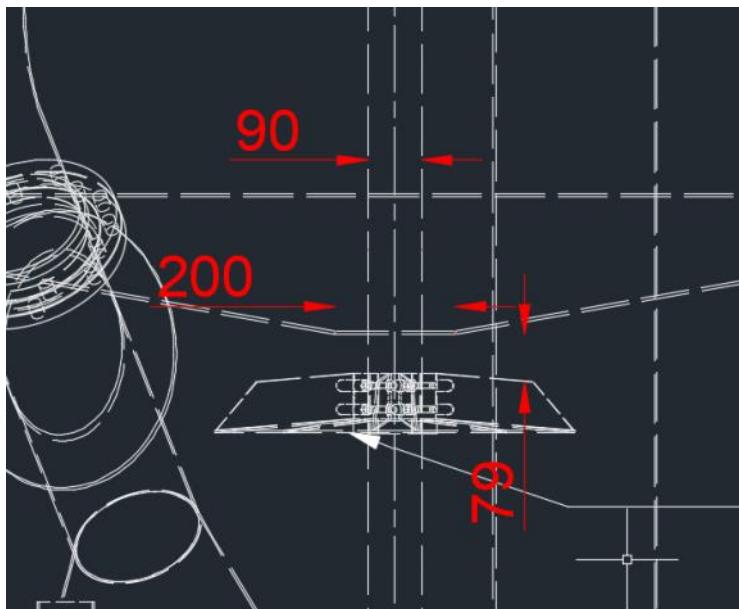
We have had an issued with a bleacher, where the center hole area of the tray and distance from the tray to Bolt-on Tray was not correct and we faced some issues during commissioning in ST1.

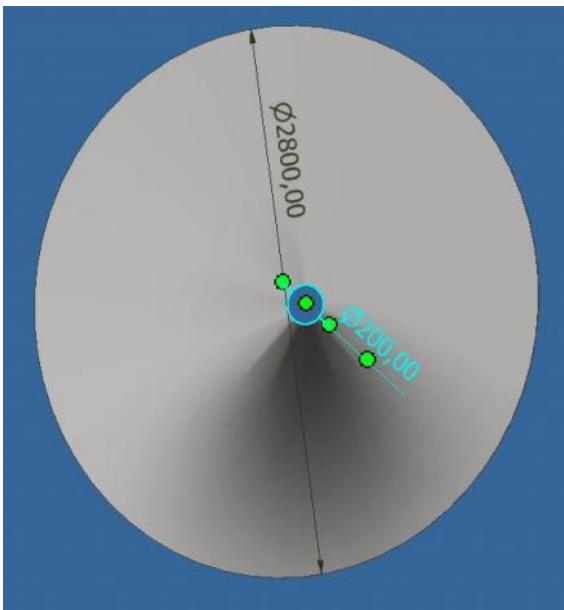
So, Alexey have developed an excel sheet based on Anatolii's original input and now this new excel sheet shall be used for all projects.

Please secure that this is done in all detail engineering project (not important for pre-engineering projects).

[Link](#)

Thanks.





Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
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From: Hesam Beigy
Sent: 18. oktober 2023 08:31
To: Alexey Shevchenko <alexey.shevchenko@alfalaval.com>
Cc: Vitaliy Shevchenko <vitaliy.shevchenko@alfalaval.com>; Konstantin Shipov <konstantin.shipov@alfalaval.com>; Anders Holten <anders.holten@alfalaval.com>; Asger Lindegaard <asger.lindegaard@alfalaval.com>
Subject: RE: AD0571 - Bolt-on-Tray

Hi Alexey,

We did review of the calculation in our team-no comment form our side.

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
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hesam.beigy@alfalaval.com
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From: Alexey Shevchenko <alexey.shevchenko@alfalaval.com>
Sent: 16. oktober 2023 11:08
To: Anders Holten <anders.holten@alfalaval.com>; Hesam Beigy <hesam.beigy@alfalaval.com>; Asger Lindegaard <asger.lindegaard@alfalaval.com>
Cc: Vitaliy Shevchenko <vitaliy.shevchenko@alfalaval.com>; Konstantin Shipov <konstantin.shipov@alfalaval.com>
Subject: RE: AD0571 - Bolt-on-Tray

Hi Anders,

As per my calculation opening of the tray is wrong - 0,79 m/s cannot work for gravity flow without barometric height....

Instead 200mm opening in tray it should be 350mm

@Asger Lindegaard and @Hesam Beigy let me know if you have questions to calculation changes, which I made in table received from you. I put in red the cells with mistakes which lead to wrong results.

See my calculations results. Please challenge them if find it strange.

Best regards,
Alexey Shevchenko



Alexey Shevchenko
Department Manager
Global Technology, Oils and Fats Systems
Tel direct: +45 39536498 – Mobile: +45 28101319
alexey.shevchenko@alfalaval.com
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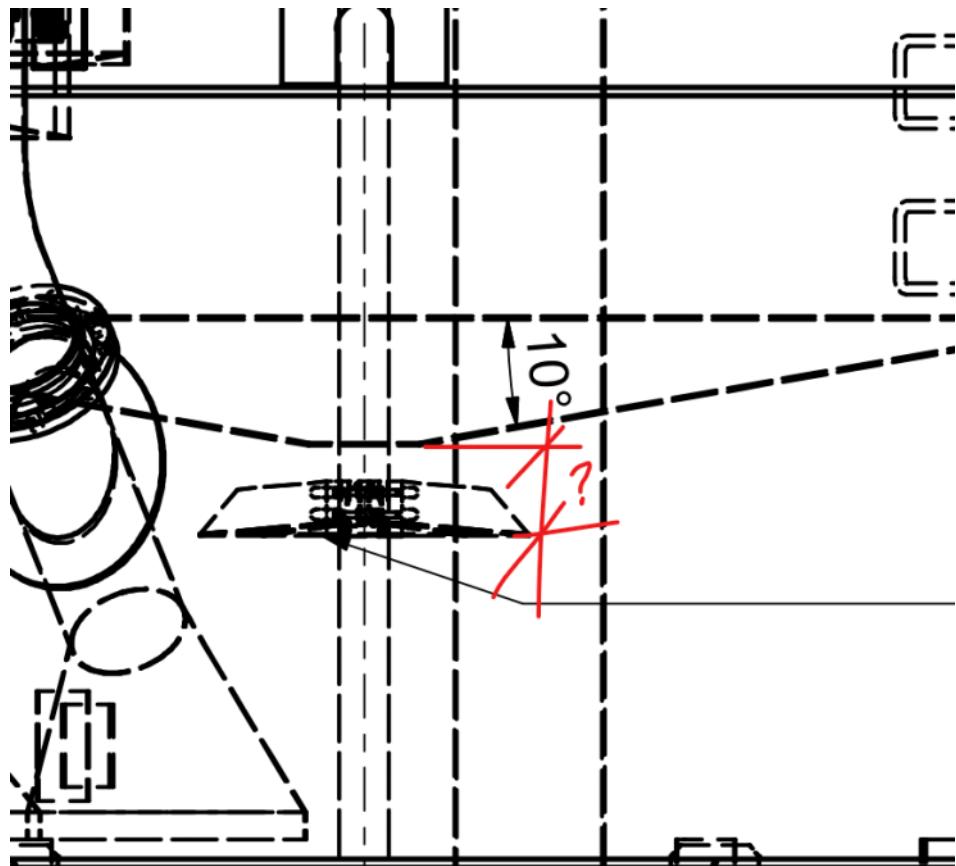
From: Anders Holten <anders.holten@alfalaval.com>
Sent: 16. oktober 2023 09:00
To: Alexey Shevchenko <alexey.shevchenko@alfalaval.com>; Vitaliy Shevchenko <vitaliy.shevchenko@alfalaval.com>
Subject: AD0571 - Bolt-on-Tray

Hi both,

Please find attached the drawings for the “bolt-on-tray”.

Luckily it does not required any drilling or modification of shaft to be moved.

@Alexey Shevchenko Have you made the calculation for the new location?



Best regards,
Anders Holten



Anders Holten
Head of Project Management
Mobile: +45 27778766
anders.holten@alfalaval.com
Contact me on Teams or WhatsApp

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RE: Training Workshop

24. oktober 2023 15:01

Subject	RE: Training Workshop
From	Asger Lindegaard
To	Umesh Ubarhande; Hesam Beigy; Reza Mahmoudpour; Amir Eslampanah; Satish Jooluri; KinHung Woo; Badrul Hisyam; POOJA MANE; Anatolii Harkusha; Siddharth Gujar; Nicolas Nethol
Cc	Emeline Rey
Sent	24. oktober 2023 14:58
Attachments	 PDF

Keywords: ASME, Section VIII-Div2, Training

Thanks Umesh

@Everyone, I have attached a copy where the password protection is removed.

Best Regards

Asger Lindegaard



Asger Lindegaard

Technical Team Lead, Engineering and Supply

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asger.lindegaard@alfalaval.com

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From: Umesh Ubarhande <umesh.ubarhande@alfalaval.com>
Sent: 23. oktober 2023 08:18
To: Hesam Beigy <hesam.beigy@alfalaval.com>; Reza Mahmoudpour <reza.mahmoudpour@alfalaval.com>; Amir Eslampah <Amir.Eslampah@alfalaval.com>; Satish Jooluri <Satish.Jooluri@alfalaval.com>; KinHung Woo <kinhung.woo@alfalaval.com>; Badrul Hisyam <Badrul.Hisyam@alfalaval.com>; Asger Lindegaard <asger.lindegaard@alfalaval.com>; POOJA MANE <POOJA.MANE@alfalaval.com>; Anatolii Harkusha <Anatolii.Harkusha@alfalaval.com>; Siddharth Gujar <Siddharth.Gujar@alfalaval.com>; Nicolas Nethol <Nicolas.Nethol@alfalaval.com>
Cc: Emeline Rey <emeline.rey@alfalaval.com>
Subject: FW: Training Workshop

Dear Team

Enclosed find attached ppt.

Thanks & Best Regards

Umesh Ubarhande



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Team Leader-Static Equipment Design, Engineering and Supply
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umesh.ubarhande@alfalaval.com

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From: Pathre, Sujay <sujay.pathre@lrqa.com>
Sent: Tuesday, October 17, 2023 10:44 AM
To: Umesh Ubarhande <umesh.ubarhande@alfalaval.com>
Cc: Chakraborty, Riten <ritendra.chakraborty@lrqa.com>
Subject: RE: Training Workshop

Hi Umesh,

At the outset ,thanks for the warm hospitality during our stay

Enclosed please find the course ppt .PPT is password protected and password to open it is -
Alfalaval@18

Please send us the feedback form and do share the photos on whatsapp

Met vriendelijke groet,
Kind regards,

Sujay S.Pathre

Senior Design Appraisal Specialist, Inspection Services
International PE, Chartered Engineer, Competent Person (PESO/CCOE)
Sujay.pathre@lrqa.com | + 31102500238 | +91 8767239729

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From: Umesh Ubarhande <umesh.ubarhande@alfalaval.com>
Sent: Friday, 29 September 2023 11:25
To: Chari, Divya <divya.chari@lrqa.com>
Cc: Chakraborty, Riten <ritendra.chakraborty@lrqa.com>; JI Patwa <ji.patwa@alfalaval.com>; Sidhaye, Shamin <s.sidhaye@lrqa.com>; Pathre, Sujay <sujay.pathre@lrqa.com>
Subject: RE: Training Workshop

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Dear Madam

See attached Sign Copy

Thanks & Best Regards

Umesh Ubarhande



Umesh Ubarhande Master of Engineering in Design
Team Leader-Static Equipment Design, Engineering and Supply
Tel direct: +912067341643 - Mobile: +919623139558
umesh.ubarhande@alfalaval.com

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From: Chari, Divya <divya.chari@lrqa.com>
Sent: Friday, September 29, 2023 2:51 PM
To: Umesh Ubarhande <umesh.ubarhande@alfalaval.com>
Cc: Chakraborty, Riten <ritendra.chakraborty@lrqa.com>; JI Patwa <ji.patwa@alfalaval.com>; Sidhaye, Shamin <s.sidhaye@lrqa.com>; Pathre, Sujay <sujay.pathre@lrqa.com>
Subject: FW: Training Workshop

Dear sir,

Contract ref-368353

Kindly find attached contract for your acceptance. It has been issued on your Dapodi address and same address will be used at the time of invoicing.

Please note that my email address is divya.chari@lrqa.com and emails should now be sent exclusively to this address. Please do not send emails to my old address, "divya.chari@lr.org".

Regards,

Divya Chari

Inspection Services

M: 9545314512 Mail – divya.chari@lrqa.com

LRQA Inspection Services India LLP

Solitaire Corporate Park, Unit No. 1241, Building No. S-12, 4th Floor,
Guru Hargovindji Marg, Andheri-Ghatkopar Link Road,

Andheri (East), Mumbai – 400 093

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From: Umesh Ubarhande <umesh.ubarhande@alfalaval.com>
Sent: Thursday, September 28, 2023 4:41 PM
To: Chakraborty, Riten <ritendra.chakraborty@lrqa.com>
Cc: JI Patwa <ji.patwa@alfalaval.com>; Sidhaye, Shamin <s.sidhaye@lrqa.com>; Pathre, Sujay <sujay.pathre@lrqa.com>
Subject: RE: Training

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Dear Sir

As per trailing email we are confirmed your fees for training.

Thanks & Best Regards

Umesh Ubarhande



Umesh Ubarhande Master of Engineering in Design
Team Leader-Static Equipment Design, Engineering and Supply
Tel direct: +912067341643 - Mobile: +919623139558
umesh.ubarhande@alfalaval.com

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From: Chakraborty, Riten <ritendra.chakraborty@lrqa.com>
Sent: Wednesday, September 27, 2023 2:40 PM
To: Umesh Ubarhande <umesh.ubarhande@alfalaval.com>
Cc: JI Patwa <ji.patwa@alfalaval.com>; Sidhaye, Shamin <s.sidhaye@lrqa.com>; Pathre, Sujay <sujay.pathre@lrqa.com>
Subject: RE: Training

CAUTION. This e-mail originated from outside of Alfa Laval. Please be mindful of attachments and links.

Dear Umesh Ji,

We confirm the date of training as 10th October.

For two training workshop sessions (16 man-hours) we would be charging a fees of Rs. 1.4 lacs plus GST. Travel and Lodging charges shall be extra at actuals.

Kindly confirm the fees for processing further.

As per the flight timings we will be reaching on 9th Afternoon and will be returning by 11th Afternoon.

We'll be Happy to Receive Feedback on our Services [Contact LRQA](#)

Regards,

Ritendra Nath Chakraborty, Email :- ritendra.chakraborty@lrqa.com

Senior Surveyor, LRQA - Pune, contact :- (+91) 9820391378

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From: Umesh Ubarhande <umesh.ubarhande@alfalaval.com>

Sent: Friday, September 22, 2023 4:06 PM

To: Sidhaye, Shamin <s.sidhaye@lrqa.com>; Chakraborty, Riten <ritendra.chakraborty@lrqa.com>

Cc: JI Patwa <ji.patwa@alfalaval.com>

Subject: Training

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Dear Both

Date of training 10 Oct 2023.

Venue :- Hotel Holiday Inn Goa (Mabor Beach)

Training 1 – ASME Section VIII Div 2 - 8 Hours (14 to 16 Nos)

This Group having design experience in pressure vessel.

Training 2 – ASME Section VIII Div 1 - 8 Hours (14 to 16 Nos)

- ASME Awareness for pressure Vessel design
- Mainly for Importance of support design / lifting Design.

Also let me know which topic you cover for training 2, This Group having drafting experience in pressure vessel

Please shear me quotation urgently.

Thanks & Best Regards

Umesh Ubarhande





Umesh Ubarhande Master of Engineering in Design

Team Leader-Static Equipment Design, Engineering and Supply

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RE: Summary of 2023 Code Changes for ASME, B31, PD 5500, and EN

25. oktober 2023 11:00

Subject	RE: Summary of 2023 Code Changes for ASME, B31, PD 5500, and EN
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nicolas Taylor; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	25. oktober 2023 10:59

Updated [link](#)

Best Regards
Hesam Beigy



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From: Hesam Beigy
Sent: 25. oktober 2023 10:54
To: Amir Eslampanah <amir.eslampanah@alfalaval.com>; Anatolii Harkusha

<anatolii.harkusha@alfalaval.com>; Asger Lindegaard <asger.lindegaard@alfalaval.com>; Badrul Hisyam <badrul.hisyam@alfalaval.com>; KinHung Woo <kinhung.woo@alfalaval.com>; Linus Michael <linus.michael@alfalaval.com>; Nicolas Nethol <nicolas.nethol@alfalaval.com>; Nicolas Taylor <nicolas.taylor@alfalaval.com>; Nikhil Varghese <nikhil.varghese@alfalaval.com>; POOJA MANE <pooja.mane@alfalaval.com>; Prakash Aware <prakash.aware@alfalaval.com>; Pranay Kapse <pranay.kapse@alfalaval.com>; Rahul Jagtap1 <rahul.jagtap1@alfalaval.com>; Reza Mahmoudpour <Reza.Mahmoudpour@alfalaval.com>; Satish Jooluri <satish.jooluri@alfalaval.com>; Siddharth Gujar <siddharth.gujar@alfalaval.com>; Weijie Liu <weijie.liu@alfalaval.com>

Subject: Summary of 2023 Code Changes for ASME, B31, PD 5500, and EN

You might want to have a look at this [webinar](#)

Best Regards
Hesam Beigy



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Technical Team Leader, E&S Food Systems
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hesam.beigy@alfalaval.com
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Borosilicate Glass-Deodorizing Section

26. oktober 2023 14:26

Subject	Borosilicate Glass-Deodorizing Section
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nicolas Taylor; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	26. oktober 2023 14:26
Attachments	 

Hi All,

We have been asked to approve 305°C Design temp for the equipment in Deo section. I had a look at some of the datasheet of Borosilicate glasses I had-and realized that the glass' design temp is actually a limiting factor.

It seems that up to 280°C, there is no issue, but after that, we would need to be careful. However, we have been using glasses on VHEs (which in FHE, theoretical Design Temp is 305°C), so, we have had this case before, but I believe was not investigated to the end.

So, I would conclude this:

- If customer requires documentation and we need to secure all is 100% compliant: we need to get hold of Maxis Glass(protected with mica) or something equivalently good-need to be fully specified on the drawings and cleared with supplier specifically
- If temperatures higher than 270°C (which is our standard Deo section temperature) is only a case from hazard and will not in real life happen, after agreement with your project team, you may continue using standard DIN7080 Borosilicate glass

Please note that in any case, we need to choose correct pressure rating for the glass. Thicknesses are specified on the drawing and shall be checked during inspections. Latest drawing of 2 size of sight glass is attached for your reference (always check with Design team to get the latest drawings).

[Link to specification of Borosilicate Glass in our vessel library](#)

Best Regards
Hesam Beigy



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RE: Borosilicate Glass-Deodorizing Section

26. oktober 2023 14:48

Subject	RE: Borosilicate Glass-Deodorizing Section
From	Hesam Beigy
To	Asger Lindegaard
Cc	Amir Eslampanah; Anatolii Harkusha; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nicolas Taylor; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	26. oktober 2023 14:46

Very True..... actually O-rings we use go up to 220°C only (as far as I remember) so, we have general seal issue 😊

In my case, Oil temp was not increased, customer wanted to know if we can guarantee no loss of containment at 305°C, I remember that we had a dialogue with Preben and conclusion was that if the equipment does not rupture, for seals, we shall not be worried.

But we shall mention somewhere that if temp goes beyond 270°C, we need to change the seals, internally and externally.

But if we want to design for 305°C, then we will have an issue....

Best Regards
Hesam Beigy



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From: Asger Lindegaard <asger.lindegaard@alfalaval.com>
Sent: 26. oktober 2023 14:40
To: Hesam Beigy <hesam.beigy@alfalaval.com>
Subject: RE: Borosilicate Glass-Deodorizing Section

Hi Hesam

There are more stuff to consider when having a design temp of +300°C.
All the seals we are currently using are already pushing it at 270°.

If we are talking about a Deodorizer with FDV's I worry they will fail prematurely.

Best Regards

Asger Lindegaard



Asger Lindegaard

Technical Team Lead, Engineering and Supply

Mobile: +4529722824

asger.lindegaard@alfalaval.com

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Classified by Alfa Laval as: Business

From: Hesam Beigy <hesam.beigy@alfalaval.com>
Sent: 26. oktober 2023 14:26

To: Amir Eslampanah <Amir.Eslampanah@alfalaval.com>; Anatolii Harkusha <Anatolii.Harkusha@alfalaval.com>; Asger Lindegaard <asger.lindegaard@alfalaval.com>; Badrul Hisyam <Badrul.Hisyam@alfalaval.com>; KinHung Woo <kinhung.woo@alfalaval.com>; Linus Michael <Linus.Michael@alfalaval.com>; Nicolas Nethol <Nicolas.Nethol@alfalaval.com>; Nicolas Taylor <Nicolas.Taylor@alfalaval.com>; Nikhil Varghese <Nikhil.Varghese@alfalaval.com>; POOJA MANE <POOJA.MANE@alfalaval.com>; Prakash Aware <Prakash.Aware@alfalaval.com>; Pranay Kapse <Pranay.Kapse@alfalaval.com>; Rahul Jagtap1 <rahul.jagtap1@alfalaval.com>; Reza Mahmoudpour <reza.mahmoudpour@alfalaval.com>; Satish Jooluri <Satish.Jooluri@alfalaval.com>; Siddharth Gujar <Siddharth.Gujar@alfalaval.com>; Weijie Liu <Weijie.Liu@alfalaval.com>

Subject: Borosilicate Glass-Deodorizing Section

Hi All,

We have been asked to approve 305°C Design temp for the equipment in Deo section. I had a look at some of the datasheet of Borosilicate glasses I had-and realized that the glass' design temp is actually a limiting factor.

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- If temperatures higher than 270°C (which is our standard Deo section temperature) is only a case from hazard and will not in real life happen, after agreement with your project team, you may continue using standard DIN7080 Borosilicate glass

Please note that in any case, we need to choose correct pressure rating for the glass. Thicknesses are specified on the drawing and shall be checked during inspections. Latest drawing of 2 size of sight glass is attached for your reference (always check with Design team to get the latest drawings).

[Link to specification of Borosilicate Glass in our vessel library](#)

Best Regards
Hesam Beigy



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FW: Gums Drying Design Guidelines for Wet Gums Preparation Tanks (20B01A/B)

30. oktober 2023 09:09

Subject	FW: Gums Drying Design Guidelines for Wet Gums Preparation Tanks (20B01A/B)
From	Hesam Beigy
To	Raffaele Baldini; Alexey Shevchenko
Sent	30. oktober 2023 09:04
Attachments	 

Hi Raffaele,

I remember some while ago we talked about gums tank with helical agitator-we had another inquiry and got some new information. Wanted to share the information with you and Alexey.

Please note that a heating jacket is shown on this tank, but if there is a way to avoid it, it would be mechanically preferred by the fabricator.

[@Alexey Shevchenko](#): FYI

Best Regards
Hesam Beigy



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From: Hesam Beigy

Sent: 30. oktober 2023 08:41

To: Felipe Kanashiro <felipe.kanashiro@alfalaval.com>

Subject: FW: Gums Drying Design Guidelines for Wet Gums Preparation Tanks (20B01A/B)

Hi Felipe,

Please see attached-it seems that we got a quote, but we never supplied the agitator ourself.

One thing that we shall be careful here, is that this vendor who have quoted, is very low engineering level-so, we will not be able to deliver to a high demanding customer.

Also, engineering and inspection shall be added on top-same as the other Gums tank project.

Please let me know if you need more information.

Best Regards
Hesam Beigy



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From: KinHung Woo <kinhung.woo@alfalaval.com>
Sent: 30. oktober 2023 03:07
To: Kevin Chee <kevin.chee@alfalaval.com>; Hesam Beigy <hesam.beigy@alfalaval.com>
Cc: Siddharth Gujar <Siddharth.Gujar@alfalaval.com>
Subject: RE: Gums Drying Design Guidelines for Wet Gums Preparation Tanks (20B01A/B)

Hi Kevin,

Thanks for speedy response!

[@Hesam Beigy](#) will take it from hereon.

Best Regards,
KinHung Woo



KinHung Woo
Mechanical Engineer

kinhung.woo@alfalaval.com
Contact me on Lync/Skype: <sip:kinhung.woo@alfalaval.com>

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From: Kevin Chee <kevin.chee@alfalaval.com>
Sent: Monday, October 30, 2023 9:57 AM
To: KinHung Woo <kinhung.woo@alfalaval.com>
Cc: Hesam Beigy <hesam.beigy@alfalaval.com>; Siddharth Gujar <Siddharth.Gujar@alfalaval.com>
Subject: RE: Gums Drying Design Guidelines for Wet Gums Preparation Tanks (20B01A/B)

Hi Woo,

Those two feed tanks were fabricated locally by the customer and they bought the agitators

locally as well.

Anyhow, I had received a quote as per attached from Subhash (India team) last time for the agitator (external supplier in India). Perhaps, you may get a quote through him as well?

Thank you.

Best Regards
Kevin Chee



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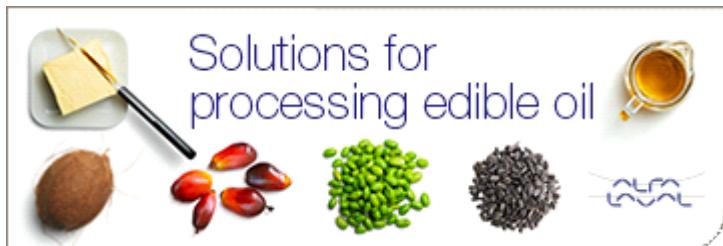
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From: KinHung Woo <kinhung.woo@alfalaval.com>

Sent: Monday, October 30, 2023 9:52 AM
To: Kevin Chee <kevin.chee@alfalaval.com>
Cc: Hesam Beigy <hesam.beigy@alfalaval.com>; Siddharth Gujar <Siddharth.Gujar@alfalaval.com>
Subject: FW: Gums Drying Design Guidelines for Wet Gums Preparation Tanks (20B01A/B)
Importance: High

Hi Kevin,

Do you know where to find information on this agitator cost reference for this tank made for 180506 Daabon?

Thank you.

Best Regards,
KinHung Woo



KinHung Woo
Mechanical Engineer

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Contact me on Lync/Skype: <sip:kinhung.woo@alfalaval.com>

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From: Hesam Beigy <hesam.beigy@alfalaval.com>
Sent: Friday, October 27, 2023 9:10 PM
To: KinHung Woo <kinhung.woo@alfalaval.com>; Siddharth Gujar <Siddharth.Gujar@alfalaval.com>
Subject: FW: Gums Drying Design Guidelines for Wet Gums Preparation Tanks (20B01A/B)
Importance: High

Hi Woo/Siddharth,

DO you know if this tank and agitator was fabricated and delivered by AL? if yes, any cost reference from that time would help.

Thanks.

Best Regards
Hesam Beigy



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Technical Team Leader, E&S Food Systems
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Classified by Alfa Laval as: Business

From: Felipe Kanashiro <felipe.kanashiro@alfalaval.com>
Sent: 27. oktober 2023 15:06
To: Hesam Beigy <hesam.beigy@alfalaval.com>
Subject: FW: Gums Drying Design Guidelines for Wet Gums Preparation Tanks (20B01A/B)
Importance: High

Hi Hesam,

Do you have a cost reference for this vessel?

Best Regards
Felipe Kanashiro



Felipe Kanashiro
Engineering Manager, Engineering & Supply – USA
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From: Alexander Jimenez <Alexander.Jimenez@alfalaval.com>

Sent: Wednesday, October 25, 2023 11:15 AM

To: Felipe Kanashiro <felipe.kanashiro@alfalaval.com>

Subject: FW: Gums Drying Design Guidelines for Wet Gums Preparation Tanks (20B01A/B)

Felipe,

Please size each Heavy Gums Preparation Tank (50B01A/B) for 1 hour retention time as per E&S KL (Kevin Chee)

Here is the updated E&S support document:



[231023 ADM Decatur IL Degumming_Gums Drying_Double Scrubber-R01-25Oct2023.docx](#)

Best regards,

Alexander Jimenez



Alexander Jimenez

Regional Sales Manager (US and Canada), Oils and Fats Systems

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Contact me on Teams: <sip:alexander.jimenez@alfalaval.com>

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From: Kevin Chee <kevin.chee@alfalaval.com>

Sent: Wednesday, October 25, 2023 8:07 AM

To: Alexander Jimenez <Alexander.Jimenez@alfalaval.com>

Cc: Alexey Shevchenko <alexey.shevchenko@alfalaval.com>

Subject: RE: Gums Drying Design Guidelines for Wet Gums Preparation Tanks (20B01A/B)

Hi Alexander,

The preparation tank is just a buffer tank with external hot water jacketing, depending on the retention time. Previously, for Australia project, we were using attached standard drawing (1.3m³ volume) from India, which is able to hold the medium for more than 6 hours.

Perhaps, you may consider 1 hour (60 minutes) retention time each for the feed buffer preparation tank (1 running, 1 standby).

Material of construction will be SS304.

Design Pressure is atmospheric (ATM).

Design Temperature is 0/100°C.

Comes with agitator (helical blade-type).

Thank you.

Best Regards
Kevin Chee



Kevin Chee Chun Khoon

Senior Sales Support Engineer, Oils and Fats System
Mobile: +60179391392

kevin.chee@alfalaval.com

Contact me on Lync/Skype: <sip:kevin.chee@alfalaval.com>

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Classified by Alfa Laval as: Business

From: Alexander Jimenez <Alexander.Jimenez@alfalaval.com>
Sent: Tuesday, October 24, 2023 3:09 AM
To: Kevin Chee <kevin.chee@alfalaval.com>
Cc: Alexey Shevchenko <alexey.shevchenko@alfalaval.com>
Subject: Gums Drying Design Guidelines for Wet Gums Preparation Tanks (20B01A/B)

Kevin,

E&S Richmond needs to develop the Gums Drying COGS ADM-Decatur. They are not familiar with the Wet Gums Preparation Tank Design (20B01A/B)

Can forward me the Gums Preparation Tank Design (20B01A/B)?
E&S just needs the basic information such as retention time, MOC, operating temperature/pressure, and the steam coils design criteria.

This is for ADM-Decatur. This is a large gums drying capacity (1350 kg/hr). Alfa Laval probably does not have a gums drying reference unit due to the size.

Best regards,

Alexander Jimenez



Alexander Jimenez
Regional Sales Manager (US and Canada), Oils and Fats Systems
Mobile: +1 224-319-4541
alexander.jimenez@alfalaval.com
Contact me on Teams: <sip:alexander.jimenez@alfalaval.com>

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Classified by Alfa Laval as: Business

FW: Silos PI-project status

1. november 2023 11:20

Subject	FW: Silos PI-project status
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nicolas Taylor; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	1. november 2023 11:20
Attachments	

FYI-Silo suppliers

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
Mobile: +45 27778777
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From: Allan Duvier Staermose <AllanDuvier.Staermose@alfalaval.com>
Sent: 31. maj 2023 12:09
To: Hesam Beigy <hesam.beigy@alfalaval.com>
Cc: Hamza Cil <Hamza.Cil@alfalaval.com>
Subject: RE: Silos PI-project status

Hi Hesam,

Yes, Please see attached.

Please observe that we have hidden a number of rows. You should only look at the ones not hidden.

I will share the OneDrive folder with you.

If you have any questions please ask myself or Hamza.

Br. Allan

Med venlig hilsen / Best regards

Allan Duvier Stærmose
Sourcing Project Manager,
Engineering & Supply, Business Unit Food Systems, Procurement
Mobile: +45 9351 1455
WhatsApp: +45 9351 1455
allanduvier.staermose@alfalaval.com

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From: Hesam Beigy <hesam.beigy@alfalaval.com>
Sent: 31. maj 2023 11:48
To: Allan Duvier Staermose <AllanDuvier.Staermose@alfalaval.com>
Cc: Hamza Cil <Hamza.Cil@alfalaval.com>; Christian Ryo <christian.ryo@alfalaval.com>; Nicolai Christoffersen <nicolai.christoffersen@alfalaval.com>; Katja Parry <Katja.Parry@alfalaval.com>
Subject: RE: Silos PI-project status

Hi Allan,

We are now discussing for a project the size of Silos and I would like to use the sizes from one of our vendors. Could you please share the excel sheet you presented in our last meeting?

Thanks.

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
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hesam.beigy@alfalaval.com
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From: Allan Duvier Staermose <AllanDuvier.Staermose@alfalaval.com>
Sent: 13. april 2023 10:10
To: Christian Ryo <christian.ryo@alfalaval.com>; Nicolai Christoffersen <nicolai.christoffersen@alfalaval.com>; Hesam Beigy <hesam.beigy@alfalaval.com>; Katja Parry <Katja.Parry@alfalaval.com>
Cc: Hamza Cil <Hamza.Cil@alfalaval.com>
Subject: RE: Silos PI-project status

Hi all,

Please find attached our proposed agenda for today's meeting.

I shall bring printouts with the list of suppliers.

Br. Allan

Med venlig hilsen / Best regards

Allan Duvier Stærmose
Sourcing Project Manager,
Engineering & Supply, Business Unit Food Systems, Procurement
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allanduvier.staermose@alfalaval.com

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-----Original Appointment-----

From: Allan Duvier Staermose
Sent: 31. marts 2023 12:19
To: Allan Duvier Staermose; Christian Ryo; Nicolai Christoffersen; Hesam Beigy; Hamza Cil; Katja Parry
Subject: Silos PI-project status
When: 13. april 2023 14:30-15:15 (UTC+01:00) Sarajevo, Skopje, Warsaw, Zagreb.
Where: DKS0 LH-235 Jiangyin/Denmark - Soborg

Dear everyone,

Hamza and I would like to call for a meeting to present and discuss current status of the silos PI-project.

I am happy to say that we are both quite confident as we currently have a rather interesting gross list of potential suppliers.

We still have minor work to be done but I thought I would rather schedule the meeting now.

I will update the invite prior to our meeting. However, we would like to present the candidates of suppliers and discuss some technical matters like type of material, CE marking specific certificates, optional items cf. our TS and maybe a bit more. In addition we shall also like to discuss the next steps.

Br.

Hamza and Allan

Med venlig hilsen / Best regards

Allan Duvier Stærmose
Sourcing Project Manager,
Engineering & Supply, Business Unit Food Systems, Procurement
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WhatsApp: +45 9351 1455
allanduvier.staermose@alfalaval.com

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Gums Tank's agitator

2. november 2023 08:43

Subject	Gums Tank's agitator
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nicolas Taylor; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	2. november 2023 08:42
Attachments	   

Hi all,

Please see below for Gum's tank agitators.

I have placed the documents [here](#).

Please note that it is crucial that you define the Viscosity of the Gums tanks right. We did some tests some years ago (see attached), and the best TS that I have done myself for [Gums tank in RIIG](#)-after the tests, it was agreed with Alexey that in specification of Gums tanks we use min 5000cP and max 36000cP in specifications. One other important thing around the agitator for gums tanks is that due to the rheology of the gums (=non-Newtonian media), agitators shall only run if the vessel's content is above 60°C (this will decrease the viscosity to the range that is mentioned above-60°C is very conservative). So, in process, we need to secure this is foreseen.

Regarding the duty of this agitator, we only need to keep the high viscosity fluid (gums) pumpable (this is the agreement with Alexey).

Best Regards
Hesam Beigy



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From: Hesam Beigy
Sent: 2. november 2023 08:23
To: Nicolas Nethol <nicolas.nethol@alfalaval.com>; Katja Parry <katja.parry@alfalaval.com>; Nikhil Varghese <nikhil.varghese@alfalaval.com>; Allie Wells <allie.wells@alfalaval.com>
Subject: RE: AD0708 Agitator TS+ datasheet and Silo TS/data sheet

Buenos dias el mejor Nicolas,

I see his point-we had the same situation in RedIIGreen project, what we did was that we contacted some external company to size the agitator for us. See [datasheet](#) that we got in AD0598-RIIG. Since we ask this supplier many times and almost never buy from them, I am not sure if they would be willing to quote us and provide a datasheet. [@Katja Parry](#): Any input? Have we purchased recently from Nordic Engineering?

Also, one other option is to look into US projects or contact our colleagues in India. I think US option (asking Chemineer) is easiest for us since we have recently bought a lot from them and it is okay if they are not awarded PO for every single inquiry. [@Allie Wells](#): do you agree with my statement?

I had a look at the recent US projects, we purchased a Chemineer GX-511 for gums tank in P66 ([@Nikhil Varghese](#): it is all about you sir). If it was me, I would have contacted them and shared

the datasheet that we have with the modification that we need, no TS is needed for them since we are not delivering the agitator really. You can find documents from P66 [here](#). If you decided to go with Chemineer path, please ask Allie how and who shall initiate the contact, you or Allie. We might have slightly difference in the way we work in different sites.

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
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From: Nicolas Nethol <Nicolas.Nethol@alfalaval.com>
Sent: 1. november 2023 22:26
To: Hesam Beigy <hesam.beigy@alfalaval.com>
Cc: Nikhil Varghese <Nikhil.Varghese@alfalaval.com>
Subject: RE: AD0708 Agitator TS+ datasheet and Silo TS/data sheet

Hi Hesam,

Can we discuss the scope of the gum tank agitators? I told Ian that it is not within our scope because it should be supplied by the customer.

See email
Regards

Classified by Alfa Laval as: Business

From: Ian Duus <ian.duus@alfalaval.com>
Sent: Wednesday, November 1, 2023 8:19 AM

To: Nicolas Nethol <Nicolas.Nethol@alfalaval.com>; Nikhil Varghese <Nikhil.Varghese@alfalaval.com>
Cc: Hesam Beigy <hesam.beigy@alfalaval.com>
Subject: RE: AD0708 Agitator TS+ datasheet and Silo TS/data sheet

And the file

Classified by Alfa Laval as: Business

From: Ian Duus
Sent: 1. november 2023 08:18
To: Nicolas Nethol <nicolas.nethol@alfalaval.com>; Nikhil Varghese <nikhil.varghese@alfalaval.com>
Cc: Hesam Beigy <hesam.beigy@alfalaval.com>
Subject: RE: AD0708 Agitator TS+ datasheet and Silo TS/data sheet

Hi Nico,
I have checked agitators in section 008, please see my comments attached files, if you agree
pls update or call for clarification meeting.
I can't save the files directly in Promis, reason unknown, you are welcome to add them, if you
want.
I have added comment to Agitator list in Promis.
I can't find:

08R03AG01 08R03
08B06AG01 08B06

Thanks
Ian

From: Ian Duus
Sent: 1. november 2023 07:56
To: Nicolas Nethol <nicolas.nethol@alfalaval.com>; Nikhil Varghese <nikhil.varghese@alfalaval.com>
Cc: Hesam Beigy <hesam.beigy@alfalaval.com>
Subject: RE: AD0708 Agitator TS+ datasheet and Silo TS/data sheet

Hi Nico,
Thanks. Pending review in progress.

I do understand why you think that the agitator is in the customer scope, and it is in the offer, but
only the hardware not the specification and data sheet.
And even that the vessel is in customer scope, you did make the GA and data sheet,
right? Same for the agitator 😊

In previous emails I forgot to attach the table with density of the oil we will use, pls ask the AL
agitator Team to use this list for density attached (019R14/15 use 902 kg/m³). Pls ask if AL
Agitator, what influence the density have on the design.

Thanks
Ian

From: Nicolas Nethol <Nicolas.Nethol@alfalaval.com>
Sent: 31. oktober 2023 15:21
To: Ian Duus <ian.duus@alfalaval.com>; Nikhil Varghese <Nikhil.Varghese@alfalaval.com>
Cc: Hesam Beigy <hesam.beigy@alfalaval.com>
Subject: RE: AD0708 Agitator TS+ datasheet and Silo TS/data sheet

Dear Ian,

Thank you very much. I will send your comments to the agitator team to update it.

019B42AAG01 & 019B42BAG01 are the GUM agitators. We believe that these agitators are a customer supplied. Could you please confirm if we need to prepare a datasheet?

Regards

Classified by Alfa Laval as: Business

From: Ian Duus <ian.duus@alfalaval.com>

Sent: Tuesday, October 31, 2023 11:41 AM

To: Nicolas Nethol <Nicolas.Nethol@alfalaval.com>; Nikhil Varghese <Nikhil.Varghese@alfalaval.com>

Subject: RE: AD0708 Agitator TS+ datasheet and Silo TS/data sheet

Hi Nico,

I have checked agitators in section 019, please see my comments attached files, if you agree
pls update or call for clarification meeting.

I can't save the files directly in Promis, reason unknown, you are welcome to add them, if you want.

I have added comment to Agitator list in Promis.

Icant find:

019B42AAG01 019B42A

019B42BAG01 019B42B

Thanks Ian

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From: Nicolas Nethol <Nicolas.Nethol@alfalaval.com>

Sent: 26. oktober 2023 09:31

To: Ian Duus <ian.duus@alfalaval.com>; Nikhil Varghese <Nikhil.Varghese@alfalaval.com>

Subject: RE: AD0708 Agitator TS+ datasheet and Silo TS/data sheet

Hi Ian,

TS agitator was checked by process team and by mechanical team and it is approved but, It hasn't been approved in Promis.

Agitator datasheet, it is necessary for process team to review the datasheets. You need to inform who can do it.

*Silo TS, We didn't do it. It is not in our scope.

*Silo datasheet, TS agitator was checked by process team and by mechanical team, and it is approved. It has been approved on promis too.

Regards

Classified by Alfa Laval as: Business

From: Ian Duus <ian.duus@alfalaval.com>

Sent: Wednesday, October 25, 2023 4:19 PM
To: Nicolas Nethol <Nicolas.Nethol@alfalaval.com>; Nikhil Varghese <Nikhil.Varghese@alfalaval.com>
Subject: AD0708 Agitator TS+ datasheet and Silo TS/data sheet

Hi 2xNi,
The old man can't remember what the status is on the Agitator TS+ datasheet and Silo TS/data sheet. Can you help him?
thanks

Best Regards

Ian Duus



Ian Duus

Technical Project Manager / Senior Mechanical Engineer,

Oils & Fats Systems, Engineering

Tel direct: +45 39 53 62 81 - Mobile: +45 26 13 08 67

ian.duus@alfalaval.com

Contact me on Lync/Skype: <sip:ian.duus@alfalaval.com>

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RE: C2 cards-Promis and Vessel Tracker

2. november 2023 13:57

Subject	RE: C2 cards-Promis and Vessel Tracker
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nicolas Taylor; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	2. november 2023 13:57

Updated links

[Card 1 Link-C2-204567/2023](#)

[Card 2 link-C2-204568/2023](#)

Best Regards
Hesam Beigy



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From: Hesam Beigy
Sent: 2. november 2023 13:34
To: Amir Eslampanah <amir.eslampanah@alfalaval.com>; Anatolii Harkusha <anatolii.harkusha@alfalaval.com>; Asger Lindegaard <asger.lindegaard@alfalaval.com>; Badrul Hisyam <badrul.hisyam@alfalaval.com>; KinHung Woo <kinhung.woo@alfalaval.com>; Linus Michael <linus.michael@alfalaval.com>; Nicolas Nethol <nicolas.nethol@alfalaval.com>; Nicolas Taylor <nicolas.taylor@alfalaval.com>; Nikhil Varghese <nikhil.varghese@alfalaval.com>; POOJA MANE <pooja.mane@alfalaval.com>; Prakash Aware <prakash.aware@alfalaval.com>; Pranay Kapse <pranay.kapse@alfalaval.com>; Rahul Jagtap1 <rahul.jagtap1@alfalaval.com>; Reza Mahmoudpour <Reza.Mahmoudpour@alfalaval.com>; Satish Jooluri <satish.jooluri@alfalaval.com>; Siddharth Gujar <siddharth.gujar@alfalaval.com>; Weijie Liu <weijie.liu@alfalaval.com>
Subject: C2 cards-Promis and Vessel Tracker

Hi all,

Please have a look at these C2 cards, which is a result of our internal audit for Promis and Vessel Tracker.

[C2-204568/2023. Vessel design audit \(2023-11-16\)](#)

[C2-204567/2023. Vessel design audit \(2023-10-31\)](#)

Best Regards
Hesam Beigy



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Spare Parts-Vessels (Deo)

3. november 2023 14:47

Subject	Spare Parts-Vessels (Deo)
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nicolas Taylor; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	3. november 2023 14:47

Hi all,

Some while ago, Nikhil created a spare parts, mainly for Deo, but since there are a lot of parts in common for vessels (like manholes, sight glasses), in case you needed any spares (O-rings, gaskets and etc), have a look at spare parts made, you can find Movex numbers for Søborg [here](#).

In case you came across parts in this list that is missing item number, or was missing, please share information to me, I can update the list.

Best Regards
Hesam Beigy



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Technical Team Leader, E&S Food Systems
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Bleacher Bolt-on Tray

15. november 2023 14:19

Subject	Bleacher Bolt-on Tray
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nicolas Taylor; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	15. november 2023 14:18
Attachments	



Hi All,

Please see this for Bolt-on tray. Please make sure that fabricated bolt on trays match with agitator shaft diameter.

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Technical Team Leader, E&S Food Systems
Mobile: +45 27778777
hesam.beigy@alfalaval.com
Contact me on Teams: <sip:hesam.beigy@alfalaval.com>

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Classified by Alfa Laval as: Business

Illumination (Light) for sight glass

15. november 2023 16:10

Subject	Illumination (Light) for sight glass
From	Hesam Beigy
To	Amir Eslampahani; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nicolas Taylor; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Sent	15. november 2023 16:09

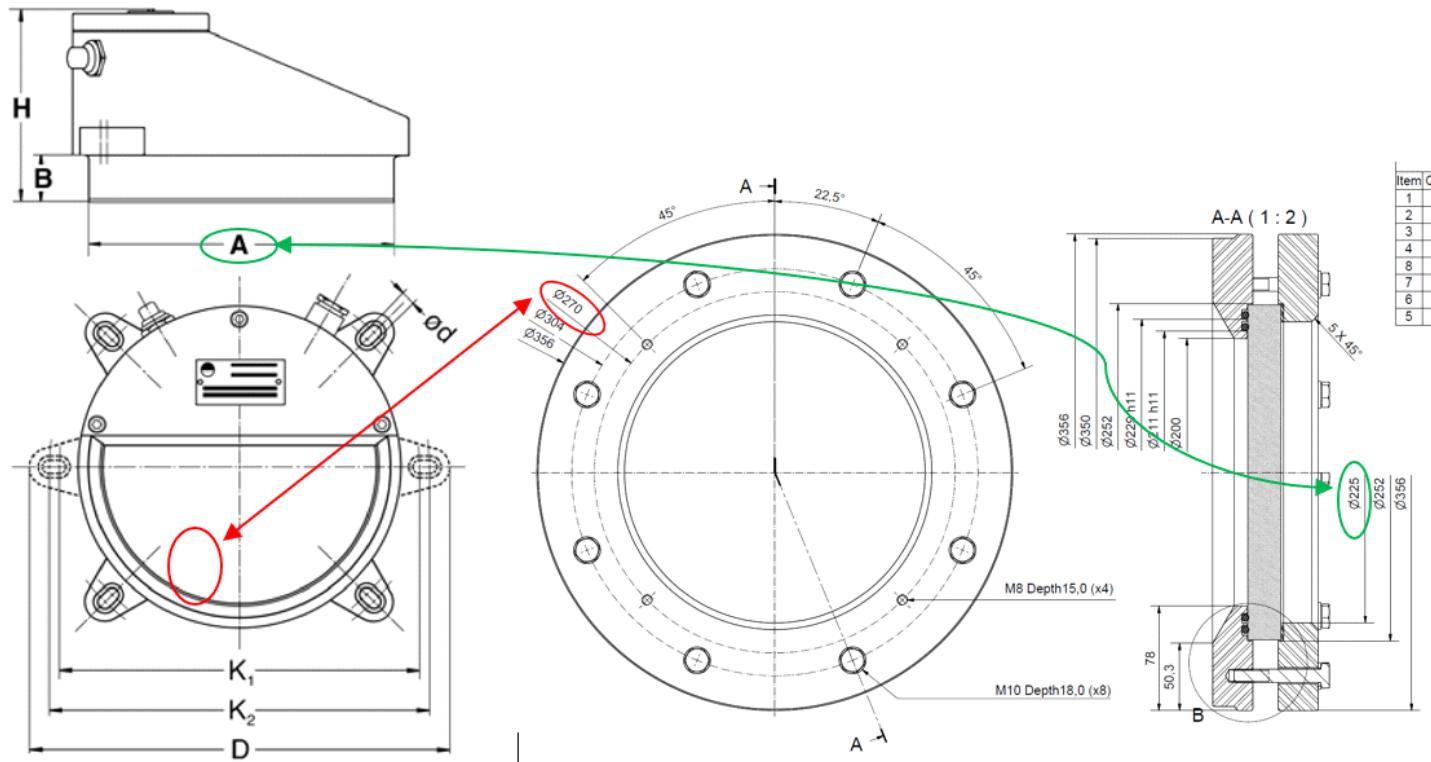
Hi all,

For vessel's sight glass, when PID is showing the light (illumination) for sight glass, we shall choose the right part. Basically as you can see in the specifications, lights have a footprint, which shall match to our standard sight glass.

[Link to spec of Illumination/light](#)

Points that need to be checked with each project:

- Supply Voltage (extracted from Design input and checked and approved by Electrical Engineer)
- Bulb or halogen type: agreed with TPM/PM/Electrical
- Dimensions below to match with standard sight glass on the vessel



Best Regards
Hesam Beigy



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FW: Corrective Action Needed - FW: Vessels with mechanical agitators

27. november 2023 15:27

Subject	FW: Corrective Action Needed - FW: Vessels with mechanical agitators
From	Hesam Beigy
To	Amir Eslampanah; Anatolii Harkusha; Asger Lindegaard; Badrul Hisyam; KinHung Woo; Linus Michael; Nicolas Nethol; Nicolas Taylor; Nikhil Varghese; POOJA MANE; Prakash Aware; Pranay Kapse; Rahul Jagtap1; Reza Mahmoudpour; Satish Jooluri; Siddharth Gujar; Weijie Liu
Cc	Gustavo Alexandretti; Marcel Saavedra; Pamela Fabre
Sent	27. november 2023 15:26
Attachments	       



Dear all,

Please be aware of an old issue which we had in AD0384-Total-agitator nozzle was placed directly in the head (below picture) and cracks happened for various reason, including the weak fatigue properties of such a design.

Therefore, it was decided back then that all AL agitators would have nozzle neck and with reinforcements.

Fatigue calculations of the agitator nozzles need to be done – [see this information shared before](#)



Best Regards

Hesam Beigy



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Classified by Alfa Laval as: Business

From: Preben Rasmussen <preben.rasmussen@alfalaval.com>
Sent: 26. juli 2019 10:09
To: Asger Lindegaard <asger.lindegaard@alfalaval.com>; Hesam Beigy <hesam.beigy@alfalaval.com>; Christian Borglum <christian.borglum@alfalaval.com>; KinHung Woo <kinhung.woo@alfalaval.com>
Cc: Ian Duus <ian.duus@alfalaval.com>; Valdimar Sigurbjornsson <valdimar.sigurbjornsson@alfalaval.com>; Alexey Shevchenko <alexey.shevchenko@alfalaval.com>
Subject: Corrective Action Needed - FW: Vessels with mechanical agitators
Importance: High

FYI

NOTE:

All future tank (bleachers etc.) w Agitation (Any rotating equipment) should be with outstanding nozzle w reinforcement plate and gussets.
Root cause still unclear, but crack is clearly fatigue stress. This could be avoided if flange was raised from head.



Refer to these photo's from TOTAL Bleacher – Wobbling agitator ripped of the flange in 2 months !!

@Hesam Beigy: You should validate FUJI ASAP.

@Asger Lindegaard: Same w Vessels drwg's for other HVO orders.

Best Regards

Preben Rasmussen



Preben Rasmussen

Technical Manager, PES VOT Engineering

Tel direct: +4539536760 - Mobile: +4527529147

preben.rasmussen@alfalaval.com

Contact me on Lync/Skype: <sip:preben.rasmussen@alfalaval.com>

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From: Alexey Shevchenko <alexey.shevchenko@alfalaval.com>

Sent: 26. juli 2019 09:28

To: Preben Rasmussen <preben.rasmussen@alfalaval.com>

Cc: Andrew Logan <andrew.logan@alfalaval.com>

Subject: Vessels with mechanical agitators

Hi Preben

The one as per link attached is manufactured, but not started yet. Can we utilize our lessens learning in Total prevent or reduce risk of failure repeating?

Thanks

http://promis.alfalaval.org/sites/AD0508-Cargill-Hamburg-Post/Engineering%20Purchase%20and%20Logistic/Mechanical%20Engineering/210%20Vessel-Internals/26V010_9684049925-R07.pdf

Best Regards

Alexey Shevchenko



Alexey Shevchenko

Process Department Manager, Edible Oil Systems Global Technology

Tel direct: +4539536498 - Mobile: +4528101319

alexey.shevchenko@alfalaval.com

Contact me on Lync/Skype: <sip:alexey.shevchenko@alfalaval.com>

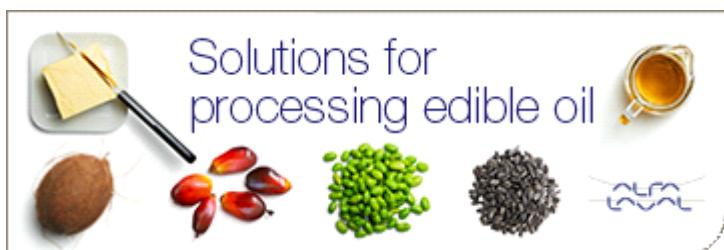
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RE: Column stripping - u slot

23. juli 2024 10:46

Subject	RE: Column stripping - u slot
From	Hesam Beigy
To	Nicolas Nethol
Cc	Amir Eslampanah
Sent	23. juli 2024 10:46

Hi Nico,

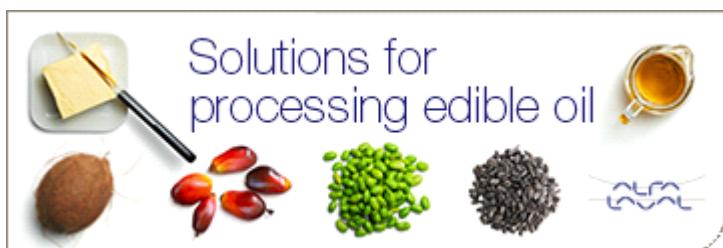
That is for air escape-nothing major. Recommend to keep it as it is. Sometimes it can be used for hooking things and etc as well.

Best Regards
Hesam Beigy



Hesam Beigy, MSc. Mechanical Engineering
Industry & Engineering manager, Oils & Fats System, Engineering
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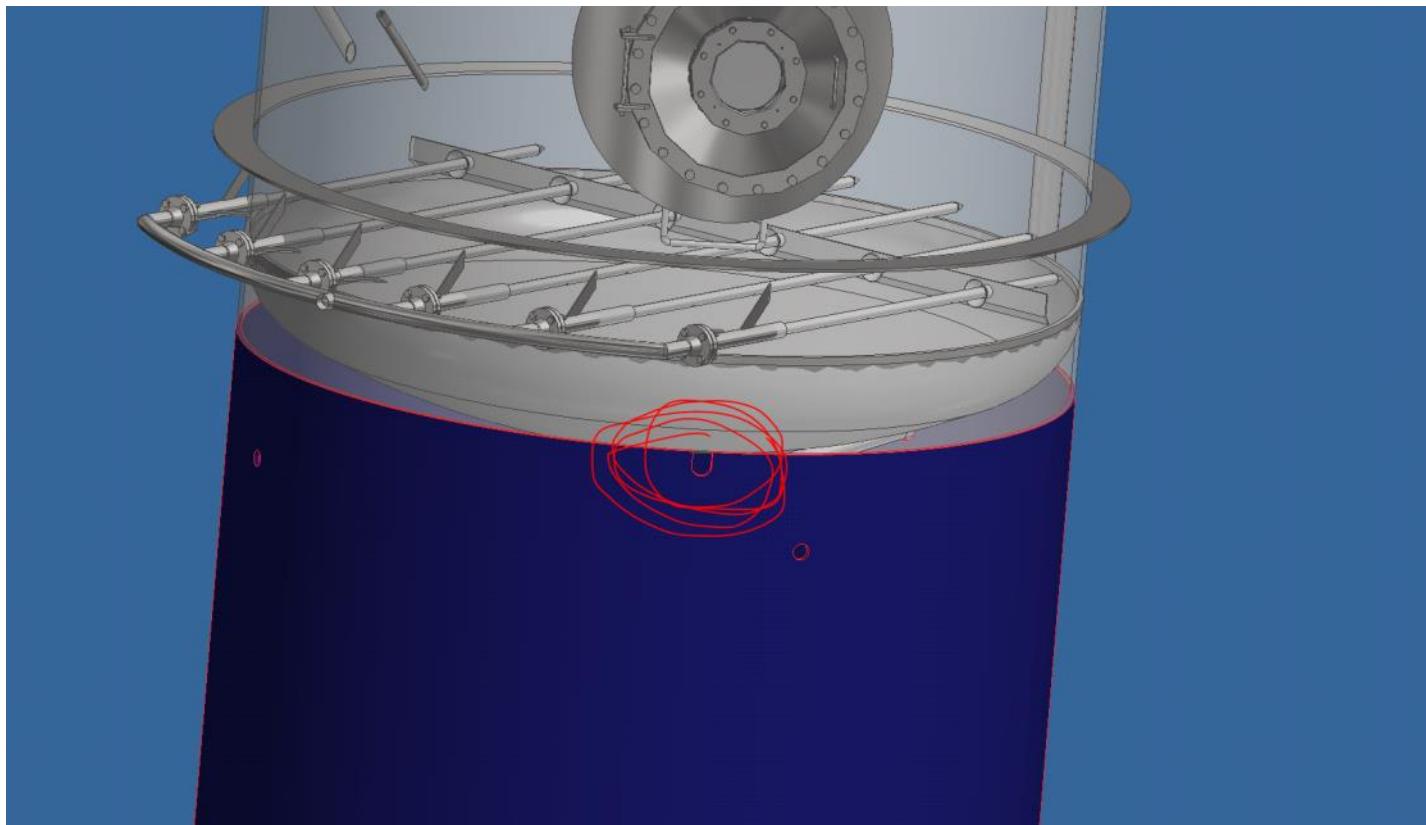
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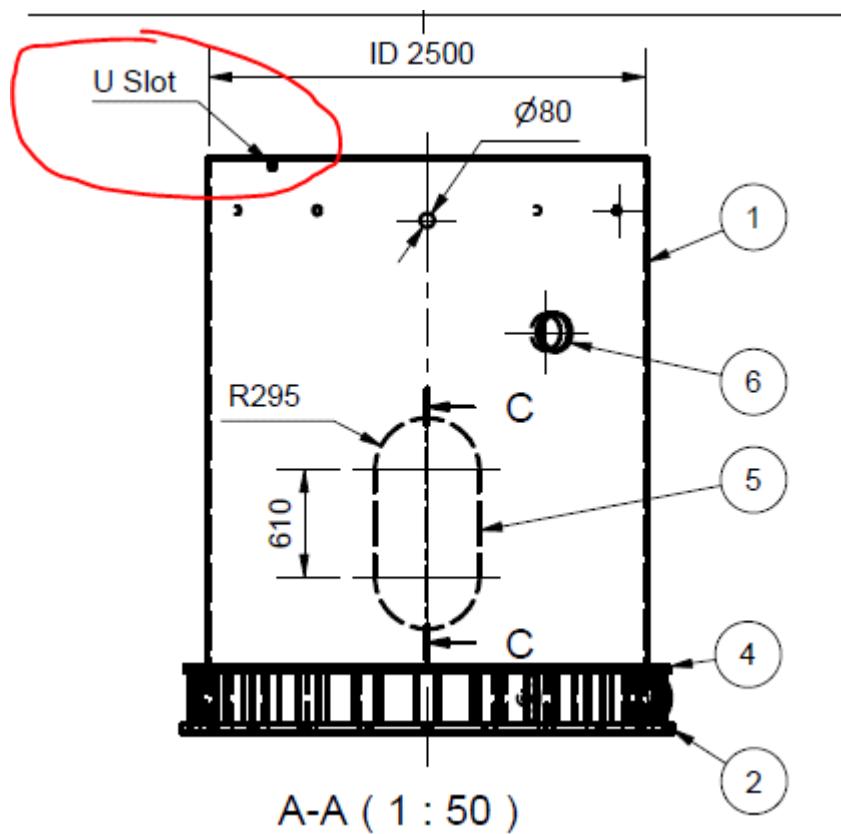
From: Nicolas Nethol <Nicolas.Nethol@alfalaval.com>
Sent: Tuesday, July 23, 2024 9:53 AM
To: Hesam Beigy <hesam.beigy@alfalaval.com>
Cc: Amir Eslampanah <Amir.Eslampanah@alfalaval.com>

Subject: Column stripping - u slot

Hi Hesam,

Do you know what the purpose of this u-slot?





Best Regards
Nicolas Nethol



Nicolas Nethol, Mechanical Engineering
Static Equipment Design Engineer
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Classified by Alfa Laval as: Business

Ruptur Disc

5. august 2024 15:46

Subject	Ruptur Disc
From	Hesam Beigy
To	Alaitz Basabe; Amir Eslampanah
Sent	5. august 2024 15:26
Attachments	      

FYI

Best Regards
Hesam Beigy

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-----Original Message-----

From: Kenneth Hvenegaard Wienke

Sent: Wednesday, May 24, 2017 4:59 PM

To: Hesam Beigy

Subject: Re: AD0436_WHP Fish Oil_Ruptur Disc

Hi Hesam,

Will you be able to provide some kind of drawing or picture of what kind of protection cap you have in mind?

Sent from my iPhone

Den 24. maj 2017 kl. 16.19 skrev Hesam Beigy <hesam.beigy@alfalaval.com>:

Hi Kenneth,

Noted, I would like to receive the quote after you got an answer from Fike regarding the protection cap. And regarding the clamp, we do not require that you supply them, we can ourselves supply the clamps ferrule DIN 32676 and clamp ring DIN 11850.

Best Regards

Hesam Beigy

Hesam Beigy, MSc. Mechanical Engineering

Design Engineer, Edible Oil & Starch Industries, Engineering Tel direct: +4588532047 - Mobile: +4527778777 hesam.Beigy@alfalaval.com

Contact me on Lync/Skype: sip:hesam.Beigy@alfalaval.com

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From: Kenneth Hvenegaard Wienke [<mailto:khw@fagerberg.dk>]
Sent: 24. maj 2017 14:28
To: Hesam Beigy <hesam.beigy@alfalaval.com>
Subject: SV: AD0436_WHP Fish Oil_Ruptur Disc

Hi Hesam,

We usually deliver the disc itself (item 3) to our customers, but we can also supply the clamp if needed (item 2) Unfortunately we will not be able to deliver any other items nor a protection cap of any kind. We will however let Fike know about your inquiry, so they can consider supplying this in the future.

In addition i should add, that the minimum quantity of discs you can order; is 3 pcs. (because of the certification of the discs) but the unit price gets significantly decreased by the quantity ordered at a time, so it's worth taking into consideration when ordering.

Delivery time would be 4 weeks, no matter the quantity.

Should I quote you accordingly?

Best Regards

Kenneth Hvenegaard Wienke
Fike Bursting Disc and Explosion Protection

Direct: +45 43 29 02 36
Mobile: +45 20 75 35 36
E-mail: khw@fagerberg.dk

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Fax: +45 43 29 02 02
www.fagerberg.dk

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Fra: Hesam Beigy [<mailto:hesam.beigy@alfalaval.com>]
Sendt: 24. maj 2017 08:16
Til: Kenneth Hvenegaard Wienke <khw@fagerberg.dk>
Emne: RE: AD0436_WHP Fish Oil_Ruptur Disc

Hi Kenneth,

Thanks for the info, we could use tri-clamp and DIN11850 flanges, but since you only have tri-clamp for now, would you please let me know which components you deliver with the disc (number 1/2/3 in below picture)? Besides that, I would like to have a kind of protection cap for the disc, do you have any protection cap to be installed on item number 1 in below picture?

Best Regards
Hesam Beigy

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Design Engineer, Edible Oil & Starch Industries, Engineering Tel direct: +4588532047 - Mobile: +
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From: Kenneth Hvenegaard Wienke [<mailto:khw@fagerberg.dk>]
Sent: 22. maj 2017 15:44
To: Hesam Beigy <hesam.beigy@alfalaval.com>
Subject: SV: AD0436_WHP Fish Oil_Ruptur Disc

Hi Hesam,
Unfortunately, I have just been informed that the 1.5" is not an option, as Fike cannot guarantee opening of the disc in liquids such as fish oil for this size.
We can offer a DN50 for DIN11850/32676 for both clamps and NA-Connect, but the only connection type in our productline we are able to quote is the below clamp:
13MHHM Clamp ring in 304 material for ferrules I can also see that you only received one half of the datasheets that I intended to send to you, I have attached the other half in this email (8.1267.00.10) and an installation manual which I received from Fike US (06-254).
Below you can see the optional connection types available for the various dimensions:
(1", 1.5" and DN40 will not be possible for this media)

Best Regards

Kenneth Hvenegaard Wienke
Fike Bursting Disc and Explosion Protection

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www.fagerberg.dk

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Fra: Hesam Beigy [<mailto:hesam.beigy@alfalaval.com>]
Sendt: 22. maj 2017 08:27
Til: Kenneth Hvenegaard Wienke <khw@fagerberg.dk>
Emne: RE: AD0436_WHP Fish Oil_Ruptur Disc

Hi Kenneth,

Well, if it is not possible to get it in 1 ½" tri-clamp (which we have drawings for the protection Cap), then:

- Would it be possible that you also quote for the protection cap of any size that you quote? Or an assembly like the picture 5 in the attachment you sent (if it could be found in hygienic grade)
- Would it be possible to know if we can get it installed between 2 DIN11850 (11852) hygienic flanges instead of tri-clamps?

And regarding the negative pressure, no problem, we have our tanks designed for full vacuum, so, as far as the discs can withstand that negative pressure, then there is no problem there-

Best Regards
Hesam Beigy

Hesam Beigy, MSc. Mechanical Engineering
Design Engineer, Edible Oil & Starch Industries, Engineering Tel direct: +4588532047 - Mobile: +4527778777 hesam.Beigy@alfalaval.com
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From: Kenneth Hvenegaard Wienke [<mailto:khw@fagerberg.dk>]
Sent: 19. maj 2017 15:06

To: Hesam Beigy <hesam.beigy@alfalaval.com>
Subject: RE: AD0436_WHP Fish Oil_Ruptur Disc

Hi Hesam,

I'm currently investigating with FIKE US of the possibility to quote you an AXIUS-SC disc (see attached datasheet) these can be installed in Tri-clamp acc. to ASME BPE.

The reason why I need to ask them, is a line in the datasheet, that states the 1.5" is not suitable for liquid systems with Burst pressure < 4,48 barg, so I need to get their feedback on this.

The time difference unfortunately works against us before I will receive an answer from them. -Will it be possible to use a 2" if needed instead?

Also please be aware that our rupture discs only protects against overpressure and NOT negative pressure. (they can however withstand full vacuum) Best Regards

Kenneth Hvenegaard Wienke
Fike Bursting Disc and Explosion Protection

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Mobile: +45 20 75 35 36
E-mail: khw@fagerberg.dk

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Fax: +45 43 29 02 02
www.fagerberg.dk

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Fra: Hesam Beigy [<mailto:hesam.beigy@alfalaval.com>]

Sendt: 16. maj 2017 15:49

Til: Kenneth Hvenegaard Wienke <khw@fagerberg.dk>

Emne: RE: AD0436_WHP Fish Oil_Ruptur Disc

Hi Kenneth,

Sorry for late reply. Here is the answer:

- The working pressure (operational range)

(-1/0 barg)

- Operation temperature (operational range)

(0 – 120°C)

- What the burst pressure of the rupture disc should be

Burst condition: +1 barg at 90°C

Please let me know if you need more information.

Best Regards
Hesam Beigy

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Design Engineer, Edible Oil & Starch Industries, Engineering Tel direct: +4588532047 - Mobile: +
4527778777 hesam.Beigy@alfalaval.com
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From: Kenneth Hvenegaard Wienke [<mailto:khw@fagerberg.dk>]
Sent: 25. april 2017 08:02
To: Hesam Beigy <hesam.beigy@alfalaval.com>
Subject: SV: AD0436_WHP Fish Oil_Ruptur Disc

Hi Hesam,

Thank you for your email, before I can take a closer look at what rupture disc might suit your tank, I would need to know the working pressure and temperature and what the burst pressure of the rupture disc should be.

Best Regards

Kenneth Hvenegaard Wienke
Fike Bursting Disc and Explosion Protection

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Mobile: +45 20 75 35 36
E-mail: khw@fagerberg.dk

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instrumentation, safety and analysis equipment together with a professional service from our service department. Fagerberg is part of Indutrade AB, a Swedish group with approx. 140 trading companies within the field of technical components and services.

Fra: Hesam Beigy [<mailto:hesam.beigy@alfalaval.com>]

Sendt: 24. april 2017 16:08

Til: Kenneth Hvenegaard Wienke <khw@fagerberg.dk>

Emne: AD0436_WHP Fish Oil_Ruptur Disc

Hi Kenneth,

As we spoke of on the telephone, I need the design details for a rupture disc, for a tank with 1m³ volume and -1/+1 barg design pressure. The material of the tank is 316L, and so, I expect the disc to be also in 316. Design temperature is 0/120 °C. The tank is meant to be with Sanitary design.

I am specifically interested to see if it is possible to use a 1 ½" Clamp for this case. If it is not possible, please provide me with the connection type and size.

Thanks.

Best Regards

Hesam Beigy

Hesam Beigy, MSc. Mechanical Engineering

Design Engineer, Edible Oil & Starch Industries, Engineering Tel direct: +4588532047 - Mobile: +4527778777 hesam.Beigy@alfalaval.com

Contact me on Lync/Skype: <sip:hesam.Beigy@alfalaval.com>

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T54306.50 - holes for anchorage in base plates and templates

9. august 2024 11:46

Subject	T54306.50 - holes for anchorage in base plates and templates
From	al Ashtari, Mohammed (Bilfinger Tebodin Netherlands B.V.)
To	RichardTeles Neves; Hesam Beigy
Cc	Twaalfhoven, Hans-Peter (Bilfinger Tebodin Netherlands B.V.); van Osch, Marcel (Bilfinger Tebodin Netherlands B.V.); Tang, Chi-Wa (Bilfinger Tebodin Netherlands B.V.); van der Veer, Marloes (Bilfinger Tebodin Netherlands B.V.)
Sent	23. september 2021 11:42

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Hi Richard, Hesam,

As just discussed during the meeting, please find below the practical requirements for holes in templates and equipment base plates.

Background for these requirements is that cast-in anchorage need more tolerance in construction for preventing in-situ modification and hammering of the bolts.

Base plates shall be provided with larger holes:

- For anchor bolts up to M24 - holes shall be the anchor bolt diameter + 3mm
- For anchor bolts of M24 and up, holes shall be the anchor bolt diameter + 6mm

I would also like to point out the common EU anchorage sizes below. Please stick to these sizes as much as possible for an easy delivery process.

For example tan 19B45 is now using holes for an M27, please raise to M30 instead.

STANDARD ANCHOR BOLT SCHEDULE TYPE A1, A2 AND A3									
d BOLT DIA	10	12	16	20	24	30	36	42	48
	56	64	72	80					

Thanks for your corporation in advance.

Kind regards,

Mohammed Al Ashtari
Lead Engineer Civil & Structural

Engineering & Maintenance

Europe

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RE: SCD ducting FEA issue_Chongqing Namchow project

26. august 2024 08:29

Subject	RE: SCD ducting FEA issue_Chongqing Namchow project
From	KinHung Woo
To	Kevin Wang; Hesam Beigy
Cc	Alexey Shevchenko; Fred Zhao; Joyce Tan; Peter Xu; Yijian Xu
Sent	26. august 2024 08:16

Dear Kevin,

I have discussed with the expert from before; we can proceed without FEA with all expansion bellows in its place.

There is one condition, in which the scrubber piping is direct- will explain later with a sketch.

Have you got the layout for this SCD and duct done? Could you share?

I need to inform you I need to resize the duct again. I try to complete it by this Friday, I'm quite tied with other projects now on hand.

Best Regards,
KinHung Woo



KinHung Woo
Mechanical Manager

kinhung.woo@alfalaval.com

Contact me on Lync/Skype: <sip:kinhung.woo@alfalaval.com>

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From: Kevin Wang <kevin.wang@alfalaval.com>
Sent: Monday, August 26, 2024 11:43 AM

To: Hesam Beigy <hesam.beigy@alfalaval.com>
Cc: Alexey Shevchenko <alexey.shevchenko@alfalaval.com>; Fred Zhao <fred.zhao@alfalaval.com>; Joyce Tan <joyce.tan@alfalaval.com>; KinHung Woo <kinhung.woo@alfalaval.com>; Peter Xu <peter.xu@alfalaval.com>; Yijian Xu <Yijian.Xu@alfalaval.com>
Subject: SCD ducting FEA issue_Chongqing Namchow project

Hi Hesam,

Could you please let me know the progress whether we decide to do FEA for SCD or not? We have received complete SCD drawing and have sent to fabricator for inquiry, but we can not put the ducting together with SCD for inquiry because so far it is still pending how to make this ducting.

We have 2 options as follows,

1. We will do FEA for entire SCD including ducting to decide where we need to add expansion bellows, based on this method, we can reduce amount of expansion bellows as much as possible.
2. We add expansion bellows for each connection pipe from SCD to ducting and refer to Mewah project, and no need to do FEA.

The other way, like we do FEA only for ducting or do FEA for ducting after presetting expansion bellows for each connection pipes from SCD to ducting, is not suitable for this case.

Considering the tight delivery time, appreciate it you can let us know which option you agree to.

Best Regards

Kevin Wang



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