

Questionnaire – Additively manufactured tank bottom with integrated components

This questionnaire is used to design a tank bottom with a suitable VPureMix® magnetic mixer and SISTO-C diaphragm valve as well as optional, customer-specific sensor sleeves.

The additively manufactured tank bottom with integrated container plate for the VPureMix® magnetic mixer and the SISTO-C diaphragm valve meet the requirements of the Pressure Equipment Directive 2021/68/EU.

Tank specification

Customer Contact Information

Date	
Company	
Contact person	
Phone	
E-mail	
Country of use	
Project number/designation ¹⁾	

Operating conditions

ATEX requirements	Yes	Zone: _____	No
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Vessel data

Total volume [liters]			
Max. mixing volume [liters]			
Min. mixing volume [liters]			
Operating pressure range [bar]			
Operating temperature range [°C]			
Material	1.4435	2.4602	other:
Surface roughness interior Ra [µm]			
Surface treatment (interior)	ground	electropolished	other:
Surface roughness (exterior Ra) [µm]			
Surface treatment (exterior)	ground	electropolished	other:
Interior diameter [mm]			
Wall thickness [mm]			
Base insulation/sheathing	Yes	No	
Sensor sleeves in the tank bottom ²⁾	Yes	No	
	Number:	Version:	
Number of tanks			
Special features	[please describe, send drawing if necessary]		

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Fluid data

Fluid	
Fluid temperature [°C]	
Fluid viscosity [mPas or cP]	
Fluid density [kg/m³]	

Mixer specification

Type of application	heat transfer	sensitive cell suspensions	suspend solids
	buffer/salt solution ³⁾	blending miscible liquids	emulsifying immiscible liquids
	protein solution	chemical reaction ³⁾	powder introduction
	other application and/or known special features [please describe]		
High shear sensitivity	none	light	high
Foaming products	Yes		No
Required mixing intensity	gentle	general	vigorous
Vortex required	Yes		No
Speed sensor required	Yes		No

Diaphragm valve specification⁴⁾

Version	Hand valve		Drive valve	
Diaphragm material	EPDM	TFM/EPDM laminated	TFM/EPDM two-piece	
Interior surface quality of the housing in the area in contact with the medium	Ra [µm or µin]: _____	ASME BPE code: _____	Hygiene class DIN 11866: _____	
Interior surface treatment of the housing in the area in contact with the medium	ground		electropolished	
weld-on end	according to DIN 11866-A (DIN 11850)	according to DIN 11866-B (ISO 4200)	according to DIN 11866-C (OD ASME BPE)	according to SMS 3008
Clamp	according to DIN 11866-A (DIN 11850)	according to DIN 11866-B (ISO 4200)	according to DIN 11866-C (OD ASME BPE)	according to SMS 3008

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Certificates

Standard certificates

Tank bottom, additively manufactured	Material test certificate according to EN 10204 3.1 and/or 3.2
VPureMix® magnetic coupled mixer	Material test certificate for mixing head EN 10204 3.1 and restamping certificate
	Declaration of conformity for O-ring material
	Material test certificate for ceramic bearings EN 10204-2.1
SISTO-C diaphragm valve	EU1935/ FDA Declaration of Conformity according to EC1935/2004 for diaphragms
	USP Class VI Declaration of Conformity for diaphragms
	Certificate of origin

Optionally available certificates for VPureMix® magnetic mixer

Measurement report roughness mixing head	
Measurement report delta-ferrite mixing head	
Dye penetrant testing of weld seams PT mixing head	
Declaration of conformity according to DIN EN ISO 10993-5 for ceramic bearings	
EU/ FDA Declaration of Conformity according to EC 2023/2006 and EC 1935/2004 for ceramic bearings	
USP Plastic Class VI Declaration of Conformity for ceramic bearings	

- ¹⁾ The project number or project name you choose will be included in the offer.
- ²⁾ Please send the dimensions and desired positioning of the sensor sleeves so that these can be taken into account later in the tank bottom drawing.
- ³⁾ Please specify concentration and chemical compound.
- ⁴⁾ The final diaphragm valve specification is taken from the manufacturer SISTO Armaturen S.A. Further information on diaphragm valves can be found in the SISTO-C series booklet (8644.1 (Part 443)).

We are happy to provide you with a corresponding offer. Send the filled-out questionnaire to:

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