

Mixing Tank, type 1

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Technical Datasheet

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Project Name/Title
Sandaband – Equipment development, 12m³ tank unit

Document Title
Presentation & Product information for 12m³ tank mix units

Summation:
12 m³ TANK UNIT FOR ZONE II
W/ CHARGE PUMP & AGITATOR



Revision List

Revision	Date	Reason for Issue	Prepared by	Verified by	Contr.	Client
04	20.12.2017	Re-issued for information	T.Ø.	I.G	T.Ø.	
03	14.12.2007	Re-issued for information	T.F	I.G	T.F	
02	23.04.07	Re-issued for information	TE			
01	11.04.07	Re-issued for information	TE	IG	TE	
0	02.01.07	Issued for information	TE	IG	TE	
X	02.10.06	Issued for internal comments	PHA	TE	IG	
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T	12	XX	Z	FD	001	04
SWP department /	System code	Area code	Discipline code	Document code	Sequence No.	Revision



12TA001 TANK

- Type - Atmospheric circular tank
- Operation Volume - 12 m³
- Max. Specific gravity (s.g.) - 2.2
- Piping material - Carbon steel (A105)
- Structural and tank material - Carbon steel (S355 J2+N)

12CJ001 AGITATOR

- Type - Gann GM-15-H-HD
Vertical w/double set of blades, outlet device and bottom bearing
- Driver - Gear (NHM 1000)
- Driver Type - Hydraulic motor. Hydraulic power available at 210 Bar, 80 l/min
- Max. Continuous torque - 2767 Nm (at 210 bar at 85% efficiency)

12CJ001 CHARGE PUMP

- Type - Seepex progressive cavity pump
BN 70-6L /A1-A5-A5-FO-GA-X
- Max. flow rate - 50 m³/h @ 6 bar
- Starting torque - 450 Nm
- Max. power absorbed - 14,7 kW
- Driver - Gear
- Driver Type - Hydraulic motor. Hydraulic power available at 210 Bar, 100 l/min
- Rated speed - 273 rpm
- Suction connection flange - DN 150 PN 16 DIN 2501
- Discharge connection flange - DN 125 PN 16 DIN 2501

65CT001 CONTROL PANEL

- Externally mounted hydraulic control panel with all essential gauges and control handles. Operating of 2 hydraulic motors for 2-way direction. Emergency stop valve is located below the control panel.

INTERFACE CONNECTIONS

Filling nozzle (main)	- 4" Hammerlug Fig 206 female (no wings)
Discharge nozzle	- 4" Hammerlug Fig 206 female (no wings)
Filling nozzle at top	- 4" Hammerlug Fig 206 female (no wings)
Drain nozzle in tank	- 4" Flange 150# RF ASME
Plant air nozzle	- 1" Chicago coupling
Hydraulic supply	- 1" quick connection (Snaptite serie 75 Female)
Hydraulic return	- 1" quick connection (Snaptite serie 75 Male)
Hydraulic leak	- 1/2" quick connection (Faster VVS Female)

CERTIFICATION

- CE acc. to ATEX (ZONE II, 3G, Ex c, IIB, T4) 94/9/EC
- CE acc. to Machinery directive 98/37/EC
- NORSOK Z-015
- EN12079 (& DNV 2.7-3)

LIFTING CERTIFICATION

- Machinery directive, EN12079 (& DNV 2.7-3)

3RD PART VERIFICATION

- Bureau Veritas
(First release note for unit, Structural Design review and EN12079 certification)

DIMENSION

Height	- 3.700 mm
Length	- 2.500 mm
Width	- 2.500 mm

WEIGHT

Gross weight	- 32.500 kg (52 kN/m ²)
Tare weight	- 6.100 kg (10 kN/m ²)
Net weight	- 26.400 kg (s.g. = 2.2, 12m ³)