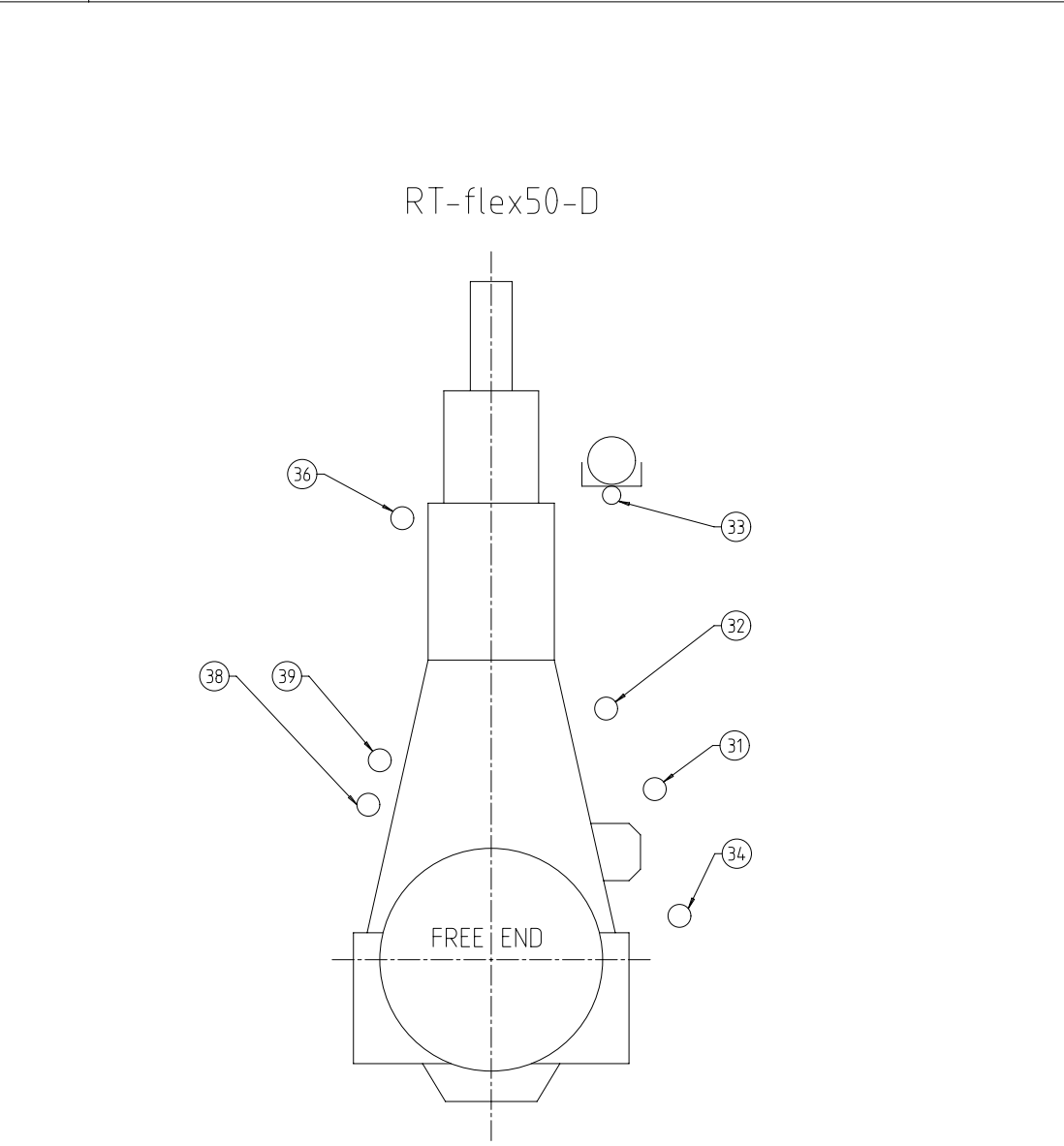






SPECIFICATION which must be met

38	OUTLET - Heating medium for fuel oil trace heating - Connected to condensate manifold or thermal oil return
39	OUTLET - Heating medium for fuel oil trace heating - Connected to condensate manifold or thermal oil return

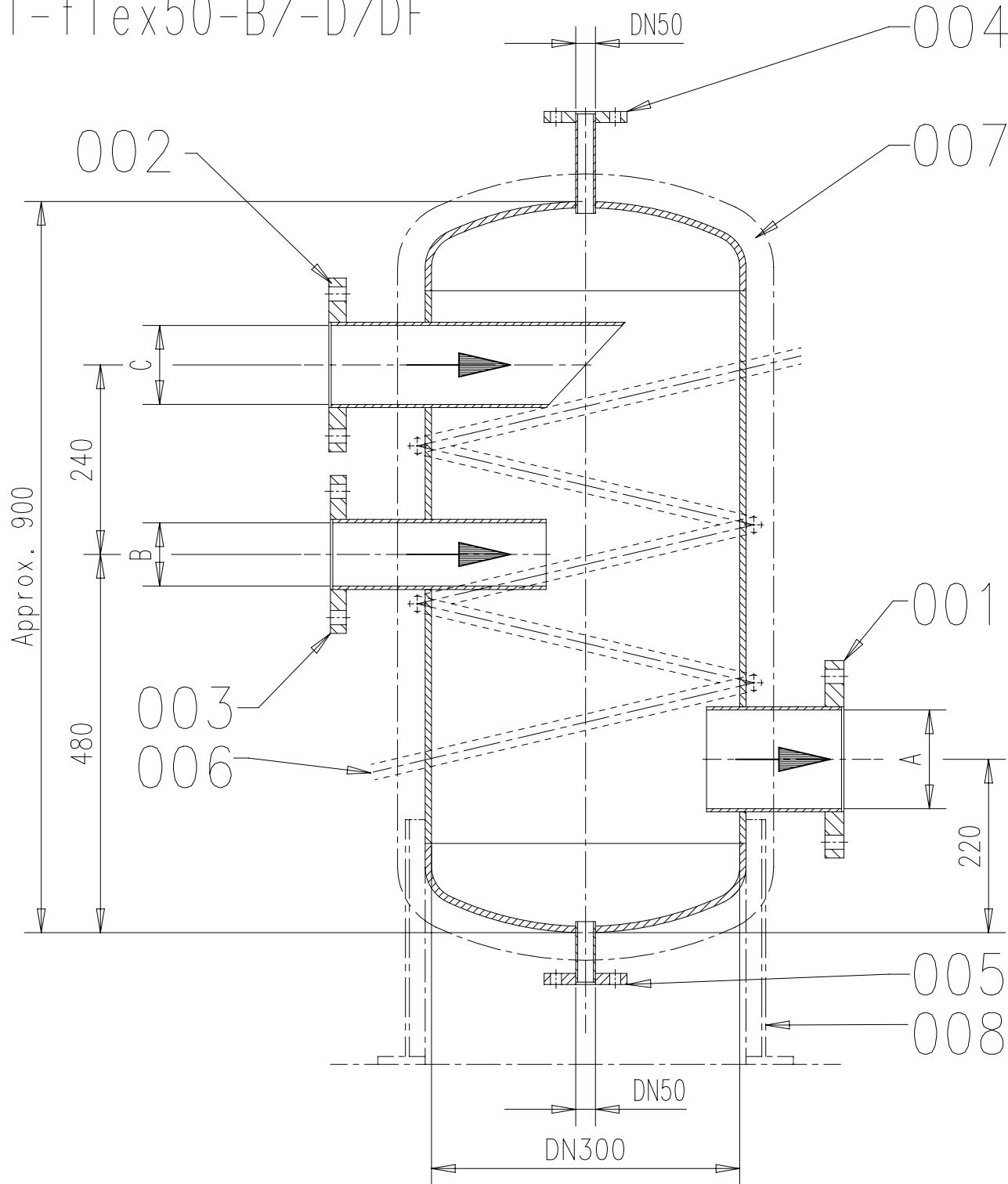


31	INLET - Fuel oil
G	Fuel oil quality at engine inlet: according to specification in Marine Installation Manual (MIM)  Pressure at engine inlet: stopped engine: 10 bar running engine: 7-10 bar  Volume flow: according to GTD  Viscosity: - Viscosity for HFO: 10-20 cSt (recommendation: 13-17 cSt) - Viscosity MDO/MGO: 2-20 cSt  Filtration: - At least one filter unit close to the engine inlet. - One filter unit with max. 10 micron (absolute, sphere passing mesh) in the fuel system (either in feed- or booster circuit) - Bypass filter in parallel to the main fuel oil filter with max. 25 micron (absolute, sphere passing mesh)  Fuel change-over: - Max. temperature gradient during fuel change-over: 2 °C/min - Fuel amount on engine side: mentioned in table 1 on page 2. - Fuel amount on system side: according to project specific system layout.
32	OUTLET - Fuel return
G	- Normal operation condition: Returning to mixing unit. - During fuel change-over while engine is not in service: returning to service tank.
33	OUTLET - Drain rail-unit (dirty)
G	- Dirty fuel: Mixed drain (LO,FO) from rail-unit, not for re-use - Free flow by gravity to sludge oil tank or appropriate tank. - Pipe insulated and heated up (50-95 °C)
34	OUTLET - Fuel return, pressureless (clean)
G	- This pressureless fuel return consists of the following 2 types of clean fuel, namely: <u>'Normal drainage'</u> Expected (design) fuel return from the fuel pump and injection control side during normal operation. <u>'Leakage'</u> Unexpected fuel return from an emergency situation only (e.g. high pressure pipe damage).  - Clean fuel must be collected in a drain tank (or appropriate tank) by gravity free flow - Piping must be insulated and heated (50-95°C)
36	INLET - Heating medium for fuel oil trace heating - Connected to steam or thermal oil supply

1	008	107.350.697.500		MIXING UNIT		107.350.697				0,001							
QTY	SEQ NO	Material ID		Material Name		Dimension, Occ		Standard or Drawing		Basic Material Material Standard		Weight GR./NET					
Free space for lic.									Q-Code XXXXXX		Main Drw.						
									Standard ISO; JIS								
Modif.	D	EAAD085468	05.02.2015	E	EAAD085894	16.07.2015	F	EAAD089659	03.10.2018	G	EAAD091789	04.12.2019					
	Number		Drawn date		Number		Drawn date		Number		Drawn date						
 Winterthur Gas & Diesel		Product 5-8RT-flex50-D			FUEL OIL SYSTEM HFO&MDO&MGO Brennstoffsystem												
Units		mm kg		NX				Basic Material				Net Weight 0,001					
Made	23.06.1998 S.Stylianou			Scale		-		Size	A2		Page	1/2		Material ID	107.340.769.500		
Chkd				Design Group		9723		Drawing ID	107.340.769						Rev.	G	
Appd	26.07.2004 SNA001 Nanda																



RT-flex50-B/-D/DF



Nominal pipe diameters (DN)

No. of cyls.	A	B	C
	DN	DN	DN
5	65	40	50
6	65	40	50
7	65	40	50
8	65	40	65


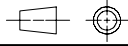
Capacity: 65 l  
Design pressure: 10 bar  
Service temperature: 150 °C

SURFACE PROTECTION SEE GROUP 0344
TOLERANCING PRINCIPLE ISO8015
GENERAL TOLERANCES ACCORDING TO ISO2768-mK

Pos.	Description
001	Outlet
002	Inlet, return line
003	Inlet, from feed pump
004	Outlet safety valve
005	Drain
006	Heating coil
007	Insulation
008	Mounting brackets *1)

Remarks:

- Configuration and dimensioning of the mixing unit have to comply with the relevant classification society/rules.
- \*1) Mounting brackets for fixation on floor plate. The mixing unit must under no circumstances be fitted unsupported.

Free space for lic.							Q-Code XXXXX	Main Drw.	
							Standard ISO; JIS		
Modif.	A	EAAD087849	14.06.2017						
		Number	Drawn date		Number	Drawn date		Number	Drawn date
 Winterthur Gas & Diesel			Product W-50		MIXING UNIT TO FUEL OIL SYSTEM				
Units mm kg		NX				Basic Material		Net Weight 0.001	
Made	18.01.2005 S.Stylianou			Scale	-	Size A3	Page 1/1	Material ID 107.350.697.500	
Chkd				Design Group	9723	Drawing ID 107.350.697	Rev. A		
Appd	17.02.2005 SNA001								

## MIDS WinGD RT-flex50-D FUEL-OIL-SYSTEM

### TRACK CHANGES

DATE	SUBJECT	DESCRIPTION
2017-02-24	DRAWING SET	First web upload
2017-08-23	107.350.697	Mixing Unit drg – new revision
2018-10-02	107.340.811 107.340.769	Main drg - new revision System drg - new revision
2020-09-30	107.340.769	System drg – new revision

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