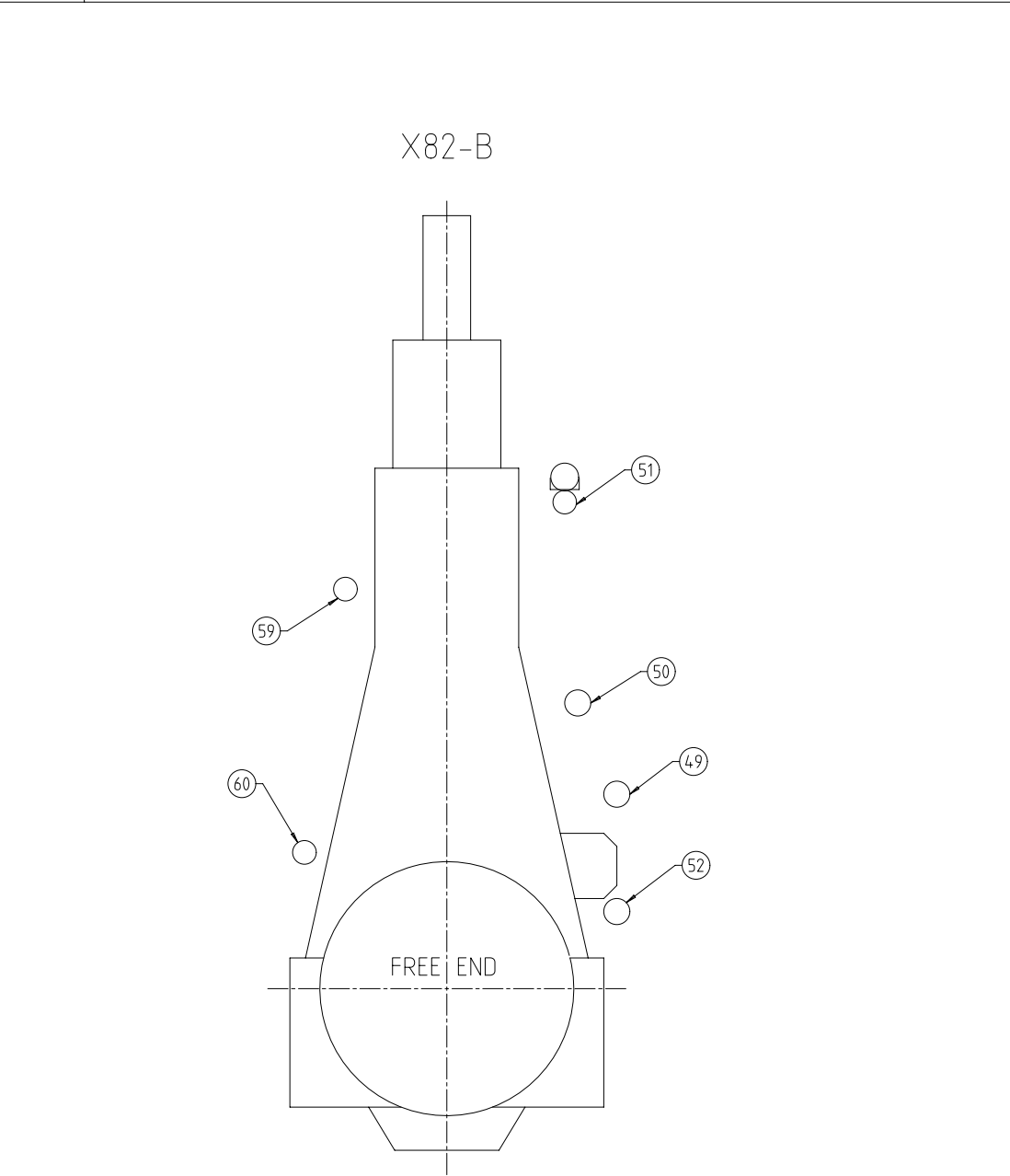




SPECIFICATION which must be met

60	OUTLET - Heating medium for fuel oil trace heating - Connected to condensate manifold or thermal oil return
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49	INLET - Fuel oil
L	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.
50	OUTLET - Fuel return
L	- Normal operation condition: Returning to mixing unit. - During fuel change-over while engine is not in service: returning to service tank.
51	OUTLET - Drain rail-unit (dirty)
L	- Dirty fuel: Mixed drain (LO,F0) 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)
52	OUTLET - Fuel return, pressureless (clean)
L	- This pressureless fuel return consists of the following 2 types of clean fuel, namely: 'Normal drainage' Expected (design) fuel return from the fuel pump and injection control side during normal operation. 'Leakage' 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)
59	INLET - Heating medium for fuel oil trace heating - Connected to steam or thermal oil supply

1	008	107.379.653.500			MIXING UNIT		107.379.653				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.	I	EAAD085468	05.02.2015	J	EAAD085894	16.07.2015	K	EAAD089659	03.10.2018	L	EAAD091789	04.12.2019	
		Number	Drawn date		Number	Drawn date		Number	Drawn date		Number	Drawn date	
		Product 6-9X82-B				FUEL OIL SYSTEM HFO&MDO&MGO Brennstoffsystem							
Units	mm kg	NX				Basic Material					Net Weight 0,001		
Made Chkd	13.07.2010 jba029		Baumann			Scale -		Size A2	Page 1/2	Material ID	107.381.348.500		
Appd	01.02.2007 SNA001		Nanda			9723		Drawing ID	107.381.348		Rev. L		

RT-flex 82C/T
W-X82/-B/DF

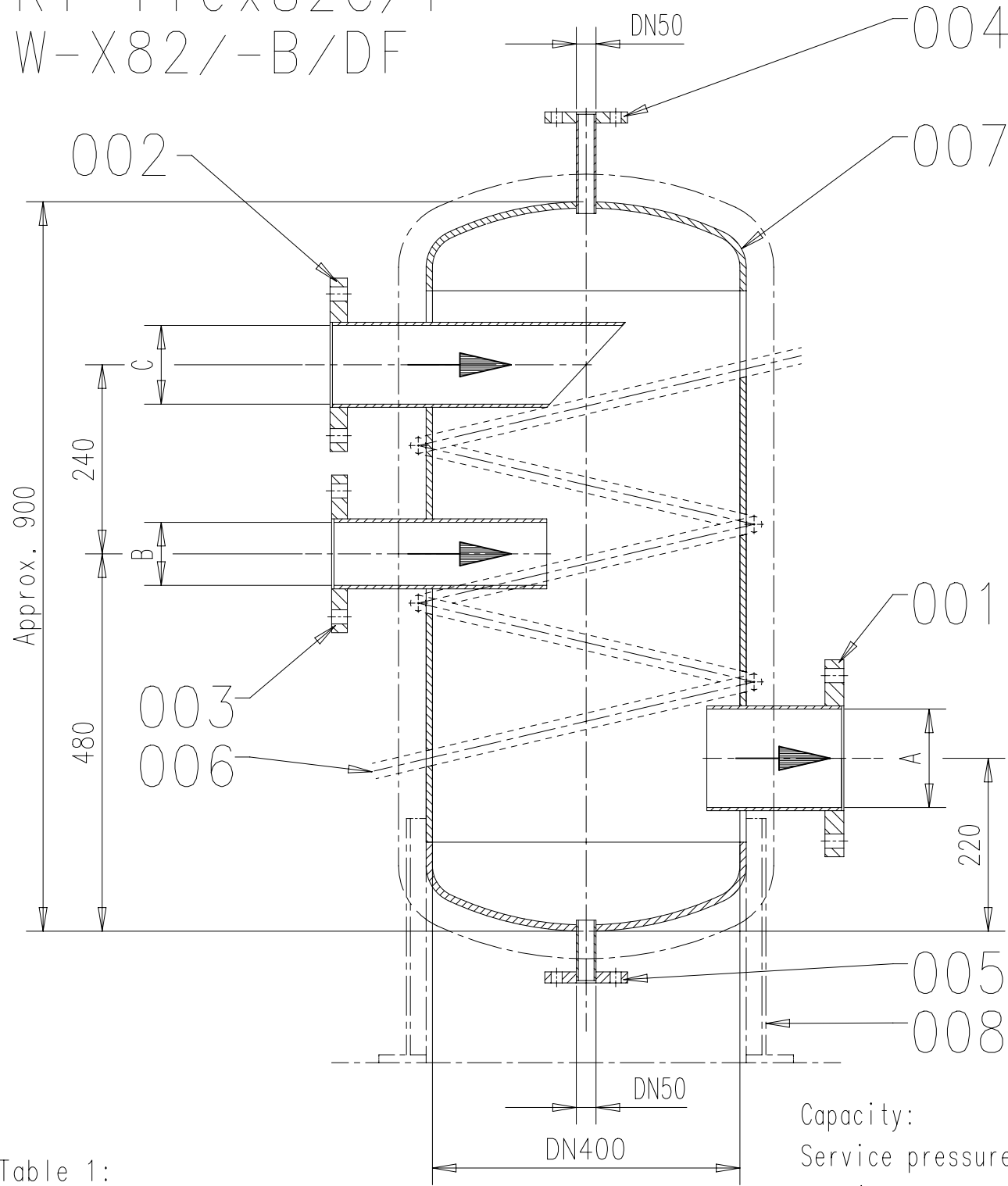


Table 1:
Nominal pipe diameter (DN)

	No. of cyls.						
	6	7	8	9	10	11	12
A	80	80	80	100	100	100	100
B	65	65	65	80	80	80	80
C	65	65	65	65	80	80	80

Capacity: 100 l
Service pressure: 10 bar
Service temperature: 150 °C

(A)

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
WIN GAS Winterthur Gas & Diesel			Product W-82		MIXING UNIT TO FUEL OIL SYSTEM				
Units mm kg		NX		Basic Material				Net Weight 0.001	
Made 12.07.2006 S.Natali		Scale -		Size A3	Page 1/1	Material ID 107.379.653.500			
TOLERANCING PRINCIPLE ISO8015		Chkd		Design Group 9723		Drawing ID 107.379.653		Rev. A	
GENERAL TOLERANCES ACCORDING TO ISO2768-mK		Appd 19.12.2006 SNA001							

MIDS - WinGD X82-B – Fuel Oil System

TRACK CHANGES

DATE	SUBJECT	DESCRIPTION
2017-02-23	DRAWING SET	First web upload
2017-08-23	107.379.653	Mixing unit drg – new revision
2018-10-04	107.381.349 107.381.348	Main drg – new revision System drg – new revision
2020-09-30	107.381.348	System drg – new revision

DISCLAIMER

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