



NOMENCLATURE ADDITIONAL PIPE TREATMENT: H = HOT DIP GALVANIZED; P = PICKLED and NEUTRALIZED; T = TRACING; I = INSULATED

PIPE CODE	SPECIFICATIONS	MATERIAL	DOCUMENT
100a	OD=114.3, DN 100, Normal	Steel	1010971
100f	OD=114.3, DN 100	Stainless steel	1700089
200a	OD=219.1, DN 200, Normal	Steel	1010971
300e	OD=323.9, DN 300	Steel	1126547
300f	OD=323.9, DN 300	Stainless steel	1700089
450e	OD=457.0, DN 450	Steel	1126547
450f	OD=457.0, DN 450	Stainless steel	1700089
500e	OD=508.0, DN 500	Steel	1126547

Bureau Veritas Marine & Offshore
 Section 47158L.....
REVIEWED
 only for parts concerning Classification,
 and as per contract.
 Rotterdam, 13-May-2024
 [Electronic document]
 The plan approval office

NOMENCLATURE:

Optional system/equipment (see also notes)

NOTE

- * - Dummy spools (dummy injector spool, dummy NOx spool) and Acoustic cartridge to be used if IMO Tier II exhaust system requested, see reference doc. 380-011;
- For all IMO Tier III require additionally, see reference doc. 382-001;
- All flanges of exhaust system are PN6 (except PON power deliveries);
- A blind flange should be fitted if optional system/equipment (⊘) not will be installed;
- Insulation exhaust pipes (032-01) (033-01) (034-01) (035-01)
- Any excess mounting materials need to be stored in the warehouse

REFERENCE DOCUMENTS

Function	Doc.nr.	Class	Title
380	1243703	INS-EXT	Instruction, detail, drain exhaust gasline, Steel
391	1209712	INS-EXT	Notes for piping drawings
391	1211107	INS-EXT	Mounting instructions for valves
Function	Func.seq.	Class	Title
380	011	DRAW-2D	Dummy spools-Acoustic cartridges
380	010	DRAW-2D	Exhaust gas system central heater
380	050	DRAW-2D	Guide lines exhaust ends
382	001	DRAW-2D	Exhaust gas cleaning system-IMO Tier III

Rev	Date	Drawn	Checked	Revision text
A01	02-11-2023	QKON01	CPAD01	Initially created

Projection		DAMEN DAMEN SHIPYARDS GORINCHEM
Format	A1	
Scale	1:1	Industrieterrein Avelingen West 20 P.O. Box 1 phone +31 (0) 183 63 99 11 info@damen.com 4202 MS Gorinchem 4200 AA Gorinchem fax +31 (0) 183 63 21 89 www.damen.com The Netherlands
Units	mm	

Exhaust gas system main engines and generator sets			
Doc class	DRAW-2D	Drawn	QKON01
Derived from	2783358-1-G01		
Project No.	513233	Function	380
Sequence	001	Checked	CPAD01
Date	09-11-2023		
Yard No.	Section/Compartment		
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BILL OF MATERIAL

Exhaust gas system main engines				Top Part	M380
Project No.	513233	Function	380	Drawn	QKON01
Yard No.	Section/Compartment			Check	CPAD01
COPYRIGHT DAMEN SHIPYARDS GROUP				Document number	5502699
				Date	09-11-2023
				Sheet	1
				Revision	A01

POS	PART		DESCRIPTION	DOC NO
	QT.	UNITS		
001	1008638		Socket Set, G1/2inch, For exhaust fittings, with socket and plug,	1092274
	12	pcs	Steel	1
003	1005212		Exhaust Passage, Rain cap passage DN 200, Ring with cushions and	1983758
	1	pcs	St.St. rain cap, Steel, For pipe 219.1mm	1
004	1011949		[TA], Compensator, Single bellow, DN450, L=340mm, Flange, PN6,	
	2	pcs	DIN 86044, St st AISI 321 (1.4541)	
006	1005209		Exhaust Passage, Rain cap passage DN100, Ring with cushions and	1983758
	2	pcs	St.St. rain cap, Steel, For pipe 114.3mm	1
007	1005238		Exhaust Passage, Rain cap passage DN 450, Ring with cushions and	1983758
	2	pcs	St.St. rain cap, Steel, For pipe 457.2mm	1
014	1392170		Exhaust silencer, RE-AB 45-IS, Input:4" (100), Output:4" (100),	2649213
	2	pcs	OD=475mm, L=1500mm, 45dB, Straight, PN6, Spark arrestor, Incl. mo	1
017	1012141		Exhaust flexible suspension, Fixed support, Hanging, RD 501,	
	4	pcs	Shore A=60deg, Max. load=6200N, M16, Steel	
019	1012197		Exhaust flexible suspension, Stabilizer, RD 1001, Shore A=45deg,	
	4	pcs	Max. load=6500N, M24, Steel	
020	1012224		Exhaust flexible suspension, Stabilizer, RD 501D, Shore A=45deg,	
	12	pcs	Max. load=3000N, M16, Steel	
021	1012227		[TA], Vibration damper base mounting, Cylindrical, RD MP 4, Shore	
	9	pcs	A=55deg, Max. load=9300N, M16, H=66mm, Rubber/Steel	
022	1012148		Exhaust flexible suspension, Stabilizer, RD 501D, Shore A=60deg,	
	4	pcs	Max. load=4500N, M16, Steel	
023	1012225		Exhaust flexible suspension, Fixed support, Hanging, RD 101,	
	4	pcs	Shore A=45deg, Max. load=500N, M10, Steel	
024	1012226		Exhaust flexible suspension, Stabilizer, RD 101, Shore A=45deg,	
	9	pcs	Max. load=500N, M10, Steel	
025	1012203		[TA], Vibration damper base mounting, Cylindrical, RD MP 3, Shore	
	6	pcs	A=45deg, Max. load=3735N, M12, H=54mm, Rubber/Steel	
026	1012145		Exhaust flexible suspension, Stabilizer, RD 251D, Shore A=60deg,	
	6	pcs	Max. load=3000N, M12, Steel	
027	1011914		[TA], Compensator, Single bellow, DN100, L=290mm, Flange, PN6,	
	2	pcs	St st AISI 321 (1.4541)	
028	1451638		SCR system, Silencer, Type 28, Inlet:DN500, Outlet:DN500, L=4250mm,	3167941
	1	pcs	W=1116mm, H=1282mm, 45dB, Inlet:Axial, Outlet:Radial, Right execu	1
029	1451636		SCR system, Silencer, Type 28, Inlet:DN500, Outlet:DN500, L=4250mm,	3167940
	1	pcs	W=1116mm, H=1282mm, 45dB, Inlet:Axial, Outlet:Radial, Left execut	1
030	1417095		Exhaust flexible suspension, Stabilizer, RD 502D, Shore A=45deg,	
	4	pcs	Max. load=3000N, M16, Steel, Special: Double rubber discs	
031	1011950		[TA], Compensator, Single bellow, DN500, L=340mm, Flange, PN6,	
	2	pcs	DIN 86044, St st AISI 321 (1.4541)	
032	1553713		[TA MED], Thermal Insulation, Exhaust system of ASD2811, Main	
	1	pcs	Engines, Rockwool	
033	1553714		[TA MED], Thermal Insulation, Exhaust system of ASD2811, Generators,	
	1	pcs	Rockwool	
034	1587710		[TA MED], Thermal Insulation, Exhaust system of ASD2811, Oil Fired	
	1	pcs	Boiler (Hull), Rockwool	
035	1226717		Mounting Materials and plans for Exhaust insulation	
	1	pcs		

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