

APPROVAL OF MANUFACTURER CERTIFICATE

This is to certify:

That

OSTP Finland Oy Ab
Jakobstad, Finland

is an approved manufacturer of
Steel Pipes and Fittings

in accordance with
DNV GL rules for classification – Ships

and the following particulars:

Steel types	Austenitic stainless, Duplex stainless
Process	Welded
Dimensions	Outer diameter maximum 1200 mm Wall thickness maximum 8 mm
Welding Methods	Laser, Gas tungsten arc (GTAW), Plasma arc (PAW)
Remarks	1. Including low temperature service. 2. Including automated non-destructive testing in place of hydraulic testing according to relevant piping standard, limited to outer diameter max. 508 mm and wall thickness max. 6 mm.

Manufacturer approved by this certificate is accepted to deliver according to DNV GL, DNV and GL rules.

This Certificate is valid until **2019-01-31**.

Issued at **Høvik** on **2016-04-14**

DNV GL local station: **Turku**

Approval Engineer: **Shylate Mahachi**

for **DNV GL**

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Hanne Anita Hjerpetjønn
Head of Section

Particulars of the approval

Pipes

Grade	Delivery condition ¹⁾	Max. wall thickness (mm)	Max. diameter (mm)
1.4301 acc. to EN 10217-7	ST	8	1200
1.4306 acc. to EN 10217-7	ST	8	1200
1.4307 acc. to EN 10217-7	ST	8	1200
1.4401 acc. to EN 10217-7	ST	8	1200
1.4404 acc. to EN 10217-7	ST	8	1200
1.4410 acc. to EN 10217-7	ST	8	1200
1.4432 acc. to EN 10217-7	ST	8	1200
1.4435 acc. to EN 10217-7	ST	8	1200
1.4436 acc. to EN 10217-7	ST	8	1200
1.4462 acc. to EN 10217-7	ST	8	1200
1.4539 acc. to EN 10217-7	ST	8	1200
1.4541 acc. to EN 10217-7	ST	8	1200
1.4547 acc. to EN 10217-7	ST	8	1200
1.4571 acc. to EN 10217-7	ST	8	1200
TP304 acc. to ASTM A312	ST	8	1200
TP304L acc. to ASTM A312	ST	8	1200
TP316 acc. to ASTM A312	ST	8	1200
TP316L acc. to ASTM A312	ST	8	1200
TP316Ti acc. to ASTM A312	ST	8	1200
TP321 acc. to ASTM A312	ST	8	1200
N08904 acc. to ASTM A312	ST	8	1200
S31254 acc. to ASTM A312	ST	8	1200
S31803 acc. to ASTM A312	ST	8	1200
S32101 acc. to ASTM A312	ST	8	1200
S32205 acc. to ASTM A312	ST	8	1200
S32750 acc. to ASTM A312	ST	8	1200
904L acc. to Outokumpu Datasheet	ST	8	1200
LDX2101® acc. to Outokumpu Datasheet	ST	8	1200

Remarks

¹⁾ ST: Solution treated.

Job Id: **263.11-004207-2**
Certificate No: **AMMM00000H6**

Pipe Fittings

Grade	Delivery condition ¹⁾	Max. wall thickness (mm)	Max. diameter (mm)
1.4301 acc. to EN 10253-3/4	ST	5	900
1.4306 acc. to EN 10253-3/4	ST	5	900
1.4307 acc. to EN 10253-3/4	ST	5	900
1.4401 acc. to EN 10253-3/4	ST	5	900
1.4404 acc. to EN 10253-3/4	ST	5	900
1.4406 acc. to EN 10253-3/4	ST	5	900
1.4432 acc. to EN 10253-3/4	ST	5	900
1.4435 acc. to EN 10253-3/4	ST	5	900
1.4436 acc. to EN 10253-3/4	ST	5	900
1.4539 acc. to EN 10253-3/4	ST	5	900
1.4541 acc. to EN 10253-3/4	ST	5	900
1.4571 acc. to EN 10253-3/4	ST	5	900
WP304 acc. to ASTM A403	ST	5	900
WP304L acc. to ASTM A403	ST	5	900
WP316 acc. to ASTM A403	ST	5	900
WP316L acc. to ASTM A403	ST	5	900
WP316Ti acc. to ASTM A403	ST	5	900
WP321 acc. to ASTM A403	ST	5	900
WPS31254 acc. to ASTM A403	ST	5	900
904L acc. to Outokumpu Datasheet	ST	5	900

Remarks

¹⁾ ST: Solution treated