

## EU Certificate of Quality System Approval

In accordance with the requirements of the Pressure Equipment Directive 2014/68/EU and the Pressure Equipment Regulations 1999, UK Statutory Instrument 1999 No. 2001 as amended by S.I. 2002 No. 1267 and S.I. 2015 No. 399

This is to certify that the Quality Management System of:

**Pennsylvania Machine Works, Inc.**  
**201 Bethel Avenue,**  
**Aston, PA, 19014, USA**

<b>Location 1</b> <b>US Drop Forge</b> <b>1366 Auburn Road, Route 551,</b> <b>Woolwich, NJ 08085, USA</b>	<b>Location 2</b> <b>Penn Machine</b> <b>315 North Wayside Drive,</b> <b>Houston, TX 77020, USA</b>
--	--

Has been assessed against the requirements of Annex I, paragraph 4.3 of the Pressure Equipment Directive 2014/68/EU, and Schedule 1, paragraph 4.3 of the Pressure Equipment Regulations 1999 and conforms to the requirements for the products shown below:

### **Carbon, Stainless, Alloy Steel and Non-Ferrous Forgings and Pipe Fittings**

Approval is subject to the continued maintenance of the quality system in accordance with the requirements of the above Directive and Regulations, and continuing to comply with the LRQA Certificate Number 10006330 Products are as listed on the attached schedule.

Certificate No: 0038/PED/CHI1620140/1  
Original Approval: 06 December 2016  
Current Certificate: 06 December 2016  
Certificate Expiry: 05 December 2019  
LRV Notified Body Number 0038



P. Mintzaridis on behalf of Lloyd's Register Verification

Lloyd's Register Verification Limited (Reg. no. 4929226) is a limited company registered in England and Wales. Registered office: 71 Fenchurch Street, London, EC3M 4BS, UK. A subsidiary of Lloyd's Register Group Limited.

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

## EU Certificate of Quality System Approval Certificate 0038/PED/CHI1620140/1 Schedule

**Pennsylvania Machine Works, Inc.  
201 Bethel Avenue,  
Aston, PA, 19014, USA**

<b>Location 1</b> <b>US Drop Forge</b> <b>1366 Auburn Road, Route 551,</b> <b>Woolwich, NJ 08085, USA</b>	<b>Location 2</b> <b>Penn Machine</b> <b>315 North Wayside Drive,</b> <b>Houston, TX 77020, USA</b>
--	--

### Product

Aston, PA & Houston, TX

Material	Specification (All Grades)	Fitting Size Range
Carbon Steel	ASME/ASTM A105, A106, A234, A333, A350, A420, A694	1/8" thru 48" NPS
Low Alloy Steel	ASME/ASTM A182, A234, A276, A335, A473	1/8" thru 48" NPS
Stainless Steel	ASME/ASTM A182, A312, A403, A479, A790	1/8" thru 48" NPS
Aluminum Alloy	ASME/ASTM B221, B247	1/8" thru 48" NPS
Nickel Alloy	ASME/ASTM B160, B164, B165, B166, B167, B408, B425, B446, B462, B564, B511, B574, B637	1/8" thru 48" NPS
Copper-Nickel Alloy	ASME/ASTM B151, B466, MIL-C-15726, MIL-C-24679	1/8" thru 48" NPS
Titanium	ASME/ASTM B348, B381	1/8" thru 48" NPS
Bronze Alloy	ASME/ASTM B98, ASTM B283, B505	1/8" thru 48" NPS
Brass Alloy	ASTM B21, B283	1/8" thru 48" NPS

### U.S. Drop Forge

Material	Specification (All Grades)	Forging Size Range
Carbon Steel	ASME/ASTM A105, A350, A694	½ LB thru 250 LBS
Low Alloy Steel	ASME/ASTM A182, A473	½ LB thru 250 LBS
Stainless Steel	ASME/ASTM A182, A479	½ LB thru 250 LBS
Aluminum Alloy	ASME/ASTM B247	½ LB thru 250 LBS
Nickel Alloy	ASME/ASTM B462, B511, B564, B637	½ LB thru 250 LBS
Copper-Nickel Alloy	MIL-C-24679	½ LB thru 250 LBS
Titanium	ASME/ASTM B381	½ LB thru 250 LBS
Bronze Alloy	ASME/ASTM B124, ASTM B283	½ LB thru 250 LBS
Brass Alloy	ASTM B21, B283	½ LB thru 250 LBS

Schedule Issue: 01

Date of Schedule Issue: 06 December 2016

Date of Expiry: 05 December 2019

LRV Notified Body Number 0038



\_\_\_\_\_  
P. Mintzaridis on behalf of Lloyd's Register Verification