## **Quality-Assurance System** for Manufacturer of Materials

acc. to Directive 2014/68/EU

Certificate no.:

01 202 USA/Q-13 9900

Name and address of the manufacturer:

Huron Casting Inc. 7050 Hartley St. Pigeon, MI 48755 USA

Herewith we certify that the material manufacturer has established and applies a Quality Management System. The system was audited according to the European Directive 2014/68/EU, Annex I, Par. 4.3, with regard to the materials as listed in the scope of approval.

Tested acc. to Directive 2014/68/EU:

QM System acc. to EN 764-5, article 4.2

Audit report no .:

USA/Q-13 9900

Range of materials:

Manufacture of Steel Castings, see annex to certificate

Manufacturing plant:

Huron Casting Inc.

7050 Hartley St., Pigeon, MI 48755.

Blue Diamond Steel Casting LLC. 125 Sturn Rd., Pigeon, MI 48755.

Blue Chip

6755 Michigan Street, Caseville MI 48725

Valid until:

November 17, 2019

0035

Cologne, November 24, 2016

i. V. Dipl.-Ing. Oliver The Servified

TÜV Rheinland Industrie Service GmbH Notified Body for Pressure Equipment, ID-No. 0035 Am Grauen Stein, D-51105 Köln

E-108-E-Rev21





## Annex to Certificate No.: 01 202 USA/Q-13 9900



Scope according to		Directive 2014/68/EU Annex I §4.3			☐ EN 764-4					AD 2000- Merkblatt W0			FPC, Regulation (EU) No. 305/2011(System 2+)		
		Work					Nationality Date		Date	Page No	0 3°1				
Company Name: Huron Casting					7050 Hartley Street, Pigeon, MI 48755 (Huron)					USA		3-Nov-2016	1	TÜV Rheinland	
Location: 7050 Hartley Street, Pigeon, MI 48755 USA					125 Sturn Road, Pigeon, MI 48755 (Blue Diamond)									Industrie Service	
		6755 Michigan Street, Caseville MI 48725 (Blue Chip)					r		Rev.: C	of: 1	GmbH				
Cur	Materials-term Materials-No.		Material Specification	Delivery Cond.	Article Type of Product	Dimensions				Weight Technical Specifications			Remarks		
						Thick- Ø ness			ð .			Requirements	.6	A STATE OF THE STA	
						m	m					Technical Regulations		86313	
						from	Up to	from	Up to	↓↓	res ult	7	10	Tial Se	
1	1 2		3	4	5	6a	6b	7a	7b	8a	8b	9	/	10	
			nternational standard			-	-								
The use of the materials according to DGR 2014/68/EU is bound to the publication of Harmonized European Standards or to the qualification by a European material approval or to the particular material appraisal. With that the manufacturing reliability for equivalent material grades according to other standards (e.g. BS, AFNOR, ASME) is proved. The requirements and limits of the applicable code respectively the PED must be observed for the use of material grades listed in column 2 to 4.															
	-													*	
01	WCB		ASTM/ASME A/SA 216	N, QT	Valve Body	12	200	50	600	2	900	ASTM/ASME	*		
02	LCB, LCC		ASTM/ASME A/SA 352	QT	Valve Body	12	200	50	600	2	900	ASTM/ASME	Appraisal) b	rticular Material y the pressure	
03	4D		ASTM/ASME A/SA 487	N, QT	Valve Body	12	200	50	600	2	900	ASTM/ASME	* required.	nanufacturer is	
04	Customer Spec 1E0627		AISI/SAE 1524 Modified	N, QT	Hydraulic Cylinder Cap	25	200	250	600	2	250	Customer Spe	c*		
05			AISI 4120 Modified	N, QT	Hydraulic Cylinder Cap	25	200	250	600	2	250	Customer Spe		×	
Results +AT = solution annealed +NT = normalized and tempered a = PMA for the use in pressure equipment +AR = as rolled +QT = quenched and tempered in Directive 2014/68/EU neccessary +M = thermo mechanical treated +S = soft annealed +N = normalized or normalizing formed +SR = stress relieved															