

# EU Type Approval Certificate

**Certificate No** 1266-033-1801

**Issue Date:** 03 December 2018

**Valid Until:** 02 December 2028

**Manufacturer** Worthington Cylinders-Wisconsin LLC

**Manufacturer's Mark**

**Address** 300 E Breed Street  
Chilton, WI 53014



**Country** USA

**Regulation[s]:** TPED 2010/35/EU; ADR 2017; CDG 2009 [as amended]

**Design Specification:** EN ISO 11118:2015

**Cylinder Type:** Non-Refillable welded & brazed steel construction

**Drawing No:** CT313101

**Revision:** C

<b>Design/ Test Pressure:</b>	27	<b>bar</b>	<b>Burst Pressure:</b>	54	<b>bar</b>
<b>Minimum Wall Thickness:</b>	0.6604	<b>mm</b>	<b>Outside Diameter:</b>	74.68	<b>mm</b>
<b>Overall Length:</b>	270.26	<b>mm</b>	<b>Volume:</b>	1.0	<b>l</b>

**Design Material:** Drawing quality, special killed cold rolled steel in accordance with 25-1 specifications

**Contents:** Propane & Propylene in accordance with P200 of ADR 2017.

**Additional Information:** This cylinder design is also separately approved to DOT39 specification and has higher guaranteed burst pressure than required by ADR.  
Tested for use with valve CTS903 with a 1 – 20 UNEF thread connection.  
The cylinder may be used for either propane or propylene; the construction is identical and all testing has been performed to the higher test pressure requirement.

Details of the results of the examination of the cylinder for type approval and the main features of the type are attached.

The undersigned certifies that the cylinder type described above conforms to the requirements of the Regulation[s] specified above.

Simon Davies, Certifying Inspector

Arrowhead Industrial Services Limited

Meadow Drove Business Centre, Bourne, Lincolnshire, PE10 0BP, UK

**Signature**



Digitally signed by  
Simon H Davies  
Date: 2018.12.03  
15:57:03 Z

**Inspector's Mark**



Notified Body Identification Number: 1266

# List of Technical Documents For Type Approval

## Type Approval Number 1266-033-1801– Supporting Technical Documents

<b>Nº</b>	<b>Documents</b>	<b>References</b>
1	Application for Type Approval	Received 21 <sup>st</sup> of March 2018
2	Cylinder Drawings	CT313101 Rev C
3	Stamp Mark Drawing	Artwork 409027 (Propylene) Artwork 409030 (Propane)
4	Design Review	CT313101 Design Review Dated 15th of November 2018
5	Type Approval Batch Test Review	CT313101 Test Review Dated 15th of November 2018
6	Certificate of Conformity	N/A
7	Material Certificate	ArcelorMittal, Heat: 833A71760 CT313101 Technical Docs & Test Results Nov-18 Page 8
8	Heat Treatment	Per SOPC-INSP-53 CT313101 Technical Docs & Test Results Nov-18 Page 5
9	3 x Tensile Tests	CT313101 Technical Docs & Test Results Nov-18 Page 3
10	3 x Hydraulic Burst Tests	CT313101 Technical Docs & Test Results Nov-18 Page 6
11	3 x Drop Tests	CT313101 Technical Docs & Test Results Nov-18 Page 1
12	Dimensional checks	CT313101 Technical Docs & Test Results Nov-18 Page 1 & Reformatted Test Data Spreadsheet
13	Wall thickness calculation	CT313101 Technical Docs & Test Results Nov-18 Page 2
14	Brazing Procedure Approval Report	SOPC-INSP-53 CT313101 Technical Docs & Test Results Nov-18 Page 5
15	Marking Compliance	Artwork 409019 (Propylene) Artwork 409023 (Propane) reviewed as part of design review
16	Valve - Hydraulic burst pressure test	CT313101 Technical Docs & Test Results Nov-18 Page 1
17	Valve - Leak tightness test	CT313101 Technical Docs & Test Results Nov-18 Page 1
18	Valve - Testing for non-refillability	CT313101 Technical Docs & Test Results Nov-18 Page 1
19	Valve to cylinder interface test	CT313101 Technical Docs & Test Results Nov-18 Page 1