



Declaration of Conformity

According to Directive 97/23/EC ( PED )

For Pressure Equipment

Catalina Cylinders Inc.

Herewith declares, that the Pressure Equipment

**Seamless Extruded Aluminum Cylinders**

**(Model S63.3, 63cuft, PT 311bar)**

Serial Numbers: HJ0000298 – HJ0000314

Year of Manufacturing: 2016

Volume: 63cuft

Test Pressure: 311 bar

Test Medium: Water

Conform to the Pressure Equipment Directive 97/23/EC

Type Approval No: USA-11-01-189-002

EC Certificate of Conformity Number: CCA-1266-007-16002

Applied standard: ISO 7866:2012

Notified body engaged for monitoring of the quality system:

Arrowhead Industrial Services Bourne, Lincolnshire UK

Notified Body Number 1266

Certificate Number ACS-20140522-0-PED

Catalina Cylinders Inc. Garden Grove, California, USA

Miguel Garay

Quality Assurance Manager

January, 2016

**WORLD CLASS PRODUCTS. FIRST CLASS SERVICE.™**

TEL (714) 890-0999 ♦ FAX (714) 890-1744 ♦

[www.catalinacylinders.com](http://www.catalinacylinders.com)

7300 Anaconda Avenue, Garden Grove, California 92841

# EC Certificate of Conformity

## Certificate N°

CCA-1266-007-16002

<b>Manufacturer</b> Catalina Cylinders Inc. <b>Address</b> 12452 Monarch/7300 Anaconda Avenue Garden Grove, CA <b>Country</b> USA	<b>Manufacturer's Mark</b>
	<b>CATALINA</b>

<b>Regulation[s]:</b> PED 97/23/EC <b>Design Specification:</b> EN ISO 7866:2012
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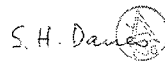
<b>Inspection Body [Xa]:</b> Arrowhead Industrial Services Limited <b>Address:</b> Meadow Drove Business Centre, Bourne, Lincolnshire, PE10 0BP, UK <b>Identification Number:</b> 1266 <b>Type Approval N°:</b> USA-11-02-189-002 <b>Cylinder Type:</b> Seamless aluminium alloy <b>Drawing N°:</b> S63.3-HJ <b>Manufacturing Batch N°:</b> AM263 <b>Serial N° Range:</b> From: HJ0000298 To: HJ0000314 <b>Total Tested:</b> 17 <b>Total Accepted:</b> 17	<b>Inspector's Mark</b> 
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<b>Customer</b> Stock <b>Address</b> <b>Country</b>
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The undersigned hereby declare that the Conformity Assessment Requirements of the above referenced Regulations have been carried out satisfactorily and that the cylinders accepted conform to the Design Specification. Test reports are supplied separately.

### General Remarks:

<b>Date of Inspection:</b> January, 2016 <b>IS Body Inspector:</b> Miguel Garay	<b>Signature</b> 
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<b>Approved by:</b> Simon Davies Certifying Inspector Arrowhead Industrial Services Limited	<b>Signature</b> 	Digitally signed by Simon Davies DN: cn=Simon Davies, o=Arrowhead Industrial Services Limited, email=simon.davies@arrowheadis.com, c=GB Date: 2016.01.20 16:54:54 Z
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DATE: 01-22-16

MODEL: S63

**CERTIFICATE OF CONFORMANCE**  
Application of ISO 7866:2012

**Seamless Aluminum Cylinders Model No. S63**

**MANUFACTURED FOR:** STOCK

**MANUFACTURED BY:** CATALINA CYLINDERS,  
7300 ANACONDA AVENUE, GARDEN GROVE, CALIFORNIA 92841

**QUANTITY:** 17

**SERIAL NUMBERS:** HJ0000298 TO HJ0000314

**BATCH NUMBER(S):** AM263 **HEAT NUMBER(S):** SP6

**TECHNICAL DATA:**

**Service Pressure:** 207Bar

**Test Pressure:** 311 Bar

**Nominal Size** 184.2 mm OD

**Minimum Wall:** 12.1 mm

551.18 mm Long (without cap and without valve)

**Nominal Volumetric Capacity:** 9.0 Liters

**CONSTRUCTION:** Backward Extrusion to Form a Seamless Shell, the open end is closed by swaging.

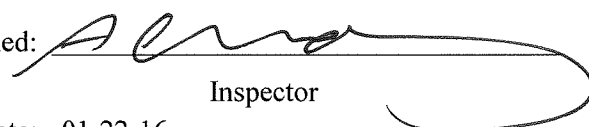
**MATERIAL AND HEAT TREATMENT:** AA Alloy Designation 6061A. Solution Treatment and Artificial Aging to the 6061 T6 Condition

**STAMP MARKING:** Markings as noted on layout attached to this certificate.

I hereby certify that I have determined the cylinders covered by this Certificate of Conformance have been manufactured in accordance with the requirements of ISO Standard EN ISO 7866:2012, and have passed all the inspections and tests required by this ISO Standard.

Remarks: COLTRI SUB

CATALINA CYLINDERS  
Garden Grove, CA

Signed: 

Inspector

Date: 01-22-16

## PRODUCTION TEST DATA

### Measurement of Cylinders

Batch No.	Serial Numbers	Water Capacity	Minimum measured thickness	
AM263	HJ0000298- HJ0000314	100% Inspected all capacities 9.0L or greater	100% Wall Thickness Inspected all above 12.1 mm minimum	100% Base Thickness Inspected all above 18.7 mm minimum

### Mechanical Testing

Batch No.	Serial Numbers	Cast No.				Flattening Test	Burst Test Serial No.	Burst Test (Bar)	Hardness
			Yield Stress (Mpa)	Tensile Stress (Mpa)	Elongation %				
AM263	HJ0000298 to HJ0000314	SP6	334.7 282.7	365.6 372.4	19.8 24.8	OK	HJ0000310	579.0	OK

### Record of Chemical Analysis of Material for Cylinders

HEAT NO. (HEAT CODE)	TYPE OF ANALYSIS (LADLE OR CHECK)	CHEMICAL ANALYSIS									
		Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi
SP6	LADLE	.60	.16	.31	.01	.89	.077	.00	.01	.001	.000

Date: 01-22-16

Place: GARDEN GROVE, CALIFORNIA USA

Signature:   
On behalf of Catalina Cylinders

## Record Of Hydrostatic Testing

In accordance CGA Pamphlet C-1

Manufacturer: Catalina Cylinders / Garden Grove  
Independent Inspector: T. H. Cochrane Labs

Test Date: 18-Jan-16  
Day: Monday  
Time: 5:23 AM

Cylinder Type: **S63-HJ**

Test Station: **# 4 Hydro**

Test Pressure (T/P): **4500**

Cylinder Serial Number	Cylinder Lot Number	Hydro Jkt Num	Actual T/P (psi)	Total Expan (cc)	Perm Expan (cc)	Ratio Perm/Tot (%)	Empty Weight (lbs)	Full Weight (lbs)	Volume Capacity (cu in)	Pass or Fail
HJ0000298	AM263	1	4520	52.1	0.0	0.0	26.55	46.45	552.03	PASS
HJ0000299	AM263	2	4520	51.8	0.0	0.0	26.50	46.40	552.03	PASS
HJ0000300	AM263	3	4520	51.8	0.0	0.0	26.55	46.45	552.03	PASS
HJ0000301	AM263	4	4520	52.0	0.0	0.0	26.55	46.45	552.03	PASS
HJ0000302	AM263	5	4520	52.3	0.0	0.0	26.55	46.45	552.03	PASS
HJ0000303	AM263	6	4520	52.0	0.0	0.0	26.60	46.50	552.03	PASS
HJ0000304	AM263	1	4520	51.7	0.0	0.0	26.55	46.70	558.96	PASS
HJ0000305	AM263	2	4520	51.9	0.0	0.0	26.55	46.70	558.96	PASS
HJ0000306	AM263	3	4520	51.9	0.0	0.0	26.55	46.65	557.57	PASS
HJ0000307	AM263	4	4520	52.1	0.0	0.0	26.50	46.65	558.96	PASS
HJ0000308	AM263	5	4520	52.6	0.0	0.0	26.60	46.70	557.57	PASS
HJ0000309	AM263	6	4520	52.1	0.0	0.0	26.50	46.65	558.96	PASS
HJ0000310	AM263	1	4520	51.4	0.0	0.0	26.55	46.75	560.35	PASS
HJ0000311	AM263	2	4520	51.5	0.0	0.0	26.60	46.80	560.35	PASS
HJ0000312	AM263	3	4520	51.6	0.0	0.0	26.60	46.80	560.35	PASS
HJ0000313	AM263	4	4520	51.9	0.0	0.0	26.50	46.70	560.35	PASS
HJ0000314	AM263	5	4520	52.3	0.0	0.0	26.50	46.70	560.35	PASS

*June*

