



Declaration of Conformity

According to Directive 2014/68/EU ( PED )

For Pressure Equipment

Catalina Cylinders Inc.

Herewith declares, that the Pressure Equipment

**Seamless Extruded Aluminum Cylinders**

**(Model S80.3, 77.4 cuft, PT 311bar)**

Serial Numbers: GV0011558– GV0011585

Year of Manufacturing: 2019

Volume: 77.4 cuft

Test Pressure: 311 bar

Test Medium: Water

Conform to the Pressure Equipment Directive 2014/68/EU

Type Approval No: USA-11-02-189-002

EC Certificate of Conformity Number: CAT-1266-007-19018

Applied standard: ISO 7866:1999

Notified body engaged for monitoring of the quality system:

Arrowhead Industrial Services Bourne, Lincolnshire UK

Notified Body Number 1266

Certificate Number ACS-20170607-PED

Catalina Cylinders Inc. Garden Grove, California, USA

A handwritten signature in black ink, appearing to read 'Miguel Garay'.

Miguel Garay

Quality Assurance Manager

April, 2019

**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

# Certificate of Conformity

**Certificate Nº**  
CAT-1266-007-19018

<b>Manufacturer</b>	Catalina Cylinders	<b>Manufacturer's Mark</b>
<b>Address</b>	12452 Monarch / 7300 Anaconda Ave. Garden Grove CA. 92841	<b>CATALINA</b>
<b>Country</b>	USA	


<b>Regulation[s]:</b>	PED 2014/68/EU
<b>Applied Module:</b>	Module D
<b>Design Specification:</b>	ISO 7866:1999

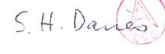
<b>Inspection Body:</b>	Arrowhead Industrial Services Limited		
<b>Address:</b>	Meadow Drove Business Centre, Meadow Drove, Bourne, Lincolnshire, PE10 0BP, UK		
<b>Identification Number:</b>	1266	<b>Inspector's Mark</b>	
<b>Type Approval Nº:</b>	USA-11-02-189-002		
<b>Cylinder Type:</b>	Seamless Aluminium Alloy		
<b>Drawing Nº:</b>	S80.3-GV		
<b>Manufacturing Serial Nº:</b>	<b>From:</b>	<b>GV0011558</b>	<b>To:</b> <b>GV0011585</b>
	<b>Excluding:</b>		
<b>Total Tested:</b>	28	<b>Total Accepted:</b>	28

<b>Customer</b>	Stock
<b>Address</b>	
<b>Country</b>	

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>	April, 2019	<b>Signature</b>	
<b>Inspector:</b>	Miguel Garay		
<b>Certificate of Authorisation Nº:</b>	ACS-20170607-PED		

<b>Approved by:</b>	<b>Signature</b>	Digitally signed by Simon Davies DN: cn=Simon Davies, o, ou=Arrowhead Industrial Services Ltd, email=simon.davies@arrowheadis.com, c=GB Date: 2019.05.01 14:32:11 +01'00'
Simon Davies		
Certifying Inspector		
Arrowhead Industrial Services Limited		

DATE: 04-30-19

MODEL: S80.3

**CERTIFICATE OF CONFORMANCE**  
Application of ISO 7866:1999

**Seamless Aluminum Cylinders Model No. S80.3**

**MANUFACTURED FOR:** STOCK

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

**QUANTITY:** 28

**SERIAL NUMBERS:** GV0011558 TO GV0011585

**BATCH NUMBER(S):** AX351 **HEAT NUMBER(S):** WF5

**TECHNICAL DATA:**

**Service Pressure:** 207Bar

**Test Pressure:** 311 Bar

**Nominal Size** 184.2 mm OD  
657.9 mm Long (without cap and without valve)

**Minimum Wall:** 12.1 mm

**Nominal Volumetric Capacity:** 11.1 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 ISO 7866:1999, and have passed all the inspections and tests required by this ISO Standard.

Remarks:

CATALINA CYLINDERS  
Garden Grove, CA

Signed: \_\_\_\_\_

Inspector

Date: 04-30-19

## PRODUCTION TEST DATA

### Measurement of Cylinders

Batch No.	Serial Numbers	Water Capacity	Minimum measured thickness	
AX351	GV0011558- GV0011585	100% Inspected all capacities 11.1L 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 %				
AX351	GV0011558- GV0011585	WF5	328.3 299.7	358.8 361.3	23.7 23.2	OK	N/A	555.5	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
WF5	LADLE	.61	.16	.31	.00	.93	.075	.00	.01	.001	.000

Date: 04-30-19

Place: GARDEN GROVE, CALIFORNIA USA

Signature: \_\_\_\_\_

On behalf of Catalina Cylinders

**RECORD OF RESIDUAL HYDROCARBON TESTING**  
(In Accordance with Fed Spec. RR-C-901D)

Lot No.	Serial Number	Total Hydrocarbons (mg)	Regulatory Level Allowed (mg)
AX351	AS0819444	6.0	9.00

Certificate of Residual Hydrocarbon Testing are on file at Manufacturer.

Certifying Entity: **South Coast Pollution Control**

This record of Residual Hydrocarbon Testing is provided for informational purposes only, it is not to be considered a part of the Certificate of Compliance and Test Report to which it is attached, and has not been certified or verified by T.H. Cochrane Laboratories, Ltd.

# Record Of Hydrostatic Testing

In accordance with CGA Pamphlet C-1

4/25/2019

Manufacturer: Catalina Cylinders/Garden Grove

Independent Inspector: T.H. Cochrane Labs

6:43:37AM

Cylinder Type: S80-E2

Test Station: Hydro 4

Test Pressure: 4500

Serial Number	Lot No.	Jacket No.	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	Test Date
GV0011558	AX351	1	4500	63.90	0.00	00.0	31.18	55.85	684.35	Pass	4/25/2019
GV0011559	AX351	2	4500	64.40	0.00	00.0	31.18	55.85	684.35	Pass	4/25/2019
GV0011560	AX351	3	4500	64.20	0.00	00.0	31.26	55.90	683.51	Pass	4/25/2019
GV0011561	AX351	4	4500	64.60	0.00	00.0	31.30	55.95	683.79	Pass	4/25/2019
GV0011562	AX351	5	4500	64.40	0.00	00.0	31.20	55.90	685.18	Pass	4/25/2019
GV0011563	AX351	6	4500	63.80	0.00	00.0	31.26	55.80	680.74	Pass	4/25/2019
GV0011564	AX351	1	4500	64.00	0.00	00.0	31.22	55.80	681.85	Pass	4/25/2019
GV0011565	AX351	2	4500	65.00	0.20	00.3	31.20	55.95	686.57	Pass	4/25/2019
GV0011566	AX351	3	4500	64.60	0.00	00.0	31.28	55.95	684.35	Pass	4/25/2019
GV0011567	AX351	4	4500	64.80	0.00	00.0	31.20	55.80	682.40	Pass	4/25/2019
GV0011568	AX351	5	4500	64.50	0.00	00.0	31.18	55.80	682.96	Pass	4/25/2019
GV0011569	AX351	6	4500	64.10	0.00	00.0	31.20	55.85	683.79	Pass	4/25/2019
GV0011570	AX351	1	4500	64.00	0.00	00.0	31.18	55.80	682.96	Pass	4/25/2019
GV0011571	AX351	2	4500	64.90	0.10	00.2	31.16	55.75	682.13	Pass	4/25/2019
GV0011572	AX351	3	4500	64.30	0.00	00.0	31.24	55.85	682.68	Pass	4/25/2019
GV0011573	AX351	4	4500	64.70	0.00	00.0	31.22	55.80	681.85	Pass	4/25/2019
GV0011574	AX351	5	4500	64.60	0.00	00.0	31.24	55.80	681.29	Pass	4/25/2019
GV0011575	AX351	6	4500	63.90	0.00	00.0	31.26	55.80	680.74	Pass	4/25/2019
GV0011576	AX351	1	4500	63.90	0.00	00.0	31.32	55.90	681.85	Pass	4/25/2019
GV0011577	AX351	2	4500	64.40	0.10	00.2	31.30	55.95	683.79	Pass	4/25/2019
GV0011578	AX351	3	4500	64.10	0.00	00.0	31.22	55.95	686.01	Pass	4/25/2019
GV0011579	AX351	4	4500	64.50	0.00	00.0	31.24	55.85	682.68	Pass	4/25/2019
GV0011580	AX351	5	4500	64.20	0.00	00.0	31.20	55.85	683.79	Pass	4/25/2019
GV0011581	AX351	1	4500	63.90	0.00	00.0	31.34	55.80	678.52	Pass	4/25/2019
GV0011582	AX351	2	4500	64.40	0.10	00.2	31.30	55.95	683.79	Pass	4/25/2019
GV0011583	AX351	3	4500	64.20	0.00	00.0	31.24	55.90	684.07	Pass	4/25/2019
GV0011584	AX351	4	4500	64.80	0.00	00.0	31.22	55.80	681.85	Pass	4/25/2019
GV0011585	AX351	5	4500	64.50	0.00	00.0	31.26	55.85	682.13	Pass	4/25/2019

OM  
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