



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: GV0007244– GV0007287

Year of Manufacturing: 2017

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: CCA-1266-007-17007

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-20140522-0-PED-02

Catalina Cylinders Inc. Garden Grove, California, USA

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

Miguel Garay

Quality Assurance Manager

March, 2017

WORLD CLASS PRODUCTS. FIRST CLASS SERVICE.™

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

www.catalinacylinders.com

7300 Anaconda Avenue, Garden Grove, California 92841

Certificate of Conformity

Certificate Nº
CAT-1266-007-17007

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

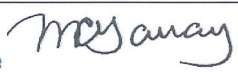
Regulation[s]:	PED 2014/68/EU
Applied Module:	Module D
Design Specification:	ISO 7866:1999

Inspection Body:	Arrowhead Industrial Services Limited		
Address:	Meadow Drove Business Centre, Meadow Drove, Bourne, Lincolnshire, PE10 0BP, UK		
Identification Number:	1266	Inspector's Mark	
Type Approval Nº:	USA-11-02-189-002		
Cylinder Type:	Seamless Aluminium Alloy		
Drawing Nº:	S80.3-GV		
Manufacturing Serial Nº:	From:	GV0007244	To: GV0007287
	Excluding:		
Total Tested:	44	Total Accepted:	44

Customer	Stock
Address	
Country	

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:

Date of Inspection:	March, 2017	Signature	
Inspector:	Miguel Garay		
Certificate of Authorisation Nº:	ACS-20140522-0-PED-02		

Approved by:	Signature	Digitally signed by Simon Davies
Simon Davies		DN: cn=Simon Davies, c,
Certifying Inspector		ou=Arrowhead Industrial
Arrowhead Industrial Services Limited		Services Limited,
		email=simon.davies@arro
		headis.com, c=GB
		Date: 2017.03.20 11:17:05

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: 44

SERIAL NUMBERS: GV0007244 TO GV0007287

BATCH NUMBER(S): AR656 **HEAT NUMBER(S):** TR2

TECHNICAL DATA:

Service Pressure: 207Bar

Test Pressure: 311 Bar

Nominal Size 184.2 mm OD

Minimum Wall: 12.1 mm

657.9 mm Long (without cap and without valve)

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: 03-17-17

PRODUCTION TEST DATA

Measurement of Cylinders

Batch No.	Serial Numbers	Water Capacity	Minimum measured thickness	
AR656	GV0007244- GV0007287	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 %				
AR656	GV0007244- GV0007287	TR2	317.4	360.4	23.7	OK	GV0007287	8,093/558.0	OK
			284.0	370.1	22.3				

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
TR2	LADLE	.61	.17	.31	.03	.91	.078	.00	.01	.001	.000

Date: 03-17-17

Place: GARDEN GROVE, CALIFORNIA USA

Signature: _____

On behalf of Catalina Cylinders

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

Lot No.	Serial Number	Total Hydrocarbons (mg)	Regulatory Level Allowed (mg)
AR656	GV0007244	1.1	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

3/11/2017

Manufacturer: Catalina Cylinders/Garden Grove

Independent Inspector: T.H. Cochrane Labs

9:01:51AM

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
GV0007244	AR656	1	4500	64.90	0.00	00.0	31.22	55.95	686.01	Pass	3/11/2017
GV0007245	AR656	2	4500	65.10	0.00	00.0	31.18	55.90	685.73	Pass	3/11/2017
GV0007246	AR656	3	4500	64.60	0.00	00.0	31.28	56.00	685.73	Pass	3/11/2017
GV0007247	AR656	4	4500	64.70	0.00	00.0	31.16	55.95	687.67	Pass	3/11/2017
GV0007248	AR656	5	4500	64.40	0.00	00.0	31.16	55.95	687.67	Pass	3/11/2017
GV0007249	AR656	6	4500	64.60	0.00	00.0	31.20	55.95	686.57	Pass	3/11/2017
GV0007250	AR656	1	4500	65.00	0.00	00.0	31.18	55.95	687.12	Pass	3/11/2017
GV0007251	AR656	2	4500	65.10	0.00	00.0	31.22	55.95	686.01	Pass	3/11/2017
GV0007252	AR656	3	4500	64.90	0.00	00.0	31.22	55.95	686.01	Pass	3/11/2017
GV0007253	AR656	4	4500	64.70	0.00	00.0	31.28	56.00	685.73	Pass	3/11/2017
GV0007254	AR656	5	4500	64.40	0.00	00.0	31.26	56.00	686.29	Pass	3/11/2017
GV0007255	AR656	6	4500	64.70	0.00	00.0	31.22	55.95	686.01	Pass	3/11/2017
GV0007256	AR656	1	4500	64.80	0.00	00.0	31.26	56.00	686.29	Pass	3/11/2017
GV0007257	AR656	2	4500	64.70	0.00	00.0	31.28	56.00	685.73	Pass	3/11/2017
GV0007258	AR656	3	4500	64.60	0.00	00.0	31.24	55.95	685.46	Pass	3/11/2017
GV0007259	AR656	4	4500	64.60	0.00	00.0	31.26	55.95	684.90	Pass	3/11/2017
GV0007260	AR656	5	4500	64.50	0.00	00.0	31.24	55.95	685.46	Pass	3/11/2017
GV0007261	AR656	6	4500	64.50	0.00	00.0	31.24	55.95	685.46	Pass	3/11/2017
GV0007262	AR656	1	4500	65.00	0.00	00.0	31.22	55.95	686.01	Pass	3/11/2017
GV0007263	AR656	2	4500	65.30	0.10	00.2	31.22	56.00	687.40	Pass	3/11/2017
GV0007264	AR656	3	4500	64.90	0.00	00.0	31.22	55.85	683.24	Pass	3/11/2017
GV0007265	AR656	4	4500	64.90	0.00	00.0	31.22	55.90	684.62	Pass	3/11/2017
GV0007266	AR656	5	4500	64.70	0.00	00.0	31.22	55.90	684.62	Pass	3/11/2017
GV0007267	AR656	6	4500	64.80	0.00	00.0	31.26	55.90	683.51	Pass	3/11/2017
GV0007268	AR656	1	4500	64.80	0.00	00.0	31.26	55.90	683.51	Pass	3/11/2017
GV0007269	AR656	2	4500	64.80	0.00	00.0	31.30	55.95	683.79	Pass	3/11/2017
GV0007270	AR656	3	4500	64.70	0.00	00.0	31.28	55.95	684.35	Pass	3/11/2017
GV0007271	AR656	4	4500	64.70	0.00	00.0	31.28	55.90	682.96	Pass	3/11/2017
GV0007272	AR656	5	4500	64.50	0.00	00.0	31.28	55.95	684.35	Pass	3/11/2017
GV0007273	AR656	6	4500	64.60	0.00	00.0	31.28	55.90	682.96	Pass	3/11/2017
GV0007274	AR656	1	4620	66.30	0.00	00.0	31.22	55.95	686.01	Pass	3/11/2017
GV0007275	AR656	2	4620	66.30	0.00	00.0	31.22	55.95	686.01	Pass	3/11/2017
GV0007276	AR656	3	4620	65.90	0.00	00.0	31.22	55.95	686.01	Pass	3/11/2017
GV0007277	AR656	4	4620	66.10	0.00	00.0	31.22	55.95	686.01	Pass	3/11/2017
GV0007278	AR656	5	4620	66.00	0.00	00.0	31.22	55.95	686.01	Pass	3/11/2017
GV0007279	AR656	6	4620	65.80	0.00	00.0	31.22	55.95	686.01	Pass	3/11/2017
GV0007280	AR656	1	4500	64.80	0.00	00.0	31.22	55.95	686.01	Pass	3/11/2017
GV0007281	AR656	2	4500	64.60	0.00	00.0	31.22	56.00	687.40	Pass	3/11/2017
GV0007282	AR656	3	4500	64.70	0.00	00.0	31.30	55.95	683.79	Pass	3/11/2017
GV0007283	AR656	4	4500	64.90	0.00	00.0	31.28	55.95	684.35	Pass	3/11/2017
GV0007284	AR656	1	4500	64.90	0.00	00.0	31.24	55.95	685.46	Pass	3/11/2017
GV0007285	AR656	2	4500	64.90	0.00	00.0	31.24	56.00	686.84	Pass	3/11/2017

Record Of Hydrostatic Testing

In accordance with CGA Pamphlet C-1

3/11/2017

Manufacturer: Catalina Cylinders/Garden Grove

Independent Inspector: T.H. Cochrane Labs

9:01:51AM

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
GV0007286	AR656	3	4500	64.80	0.10	00.2	31.26	55.95	684.90	Pass	3/11/2017
GV0007287	AR656	4	4500	64.90	0.00	00.0	31.22	56.00	687.40	Pass	3/11/2017

DL

236

Lot #: AR656

A. D.

13 VOL. 686-01 CUM
D.L.

3-13-17

AR658
AR656

3 → M2542 081 BATTALION 07000721A M6061-16
 19 2X6 74 14 PG/PY207818 P7/P8H811848 -10760
 CE 1266 2017/03 07000721A M6061-16
 Set-up Release!
 SP

Set-up Relaxed
SFO-E2-33
Lot # AR656
Stamp #
3 of 3
Order # C60485
E.O.