



ARROWHEAD

INDUSTRIAL SERVICES USA, INC.

COMPRESSED GAS
CONTAINER SPECIALISTS

DESIGN APPROVAL CERTIFICATE

FOR
COMPRESSED GAS CONTAINERS
(SIMILAR)

3537 S. NC. 119
PO Box 1000
Graham, NC 27253-1000
USA
Phone: 336-578-2777
Fax: 336-578-2929
E-mail:
AI01@arrowheadindustrial.com

Designer

CP Industries
2214 Walnut Street
Mckeesport, PA 15132
USA

Manufacturer

CP Industries
2214 Walnut Street
Mckeesport, PA 15132
USA

Design Qualification No.

QTR-177-1958

Design Specifics

Specification:	NGV2-07 TYPE 4
Cylinder Part No:	0051-01-00-00
Cylinder Service Life:	20 years
Cylinder Drawing:	0051-01-00-00_a Rev. Aug-13
Liner Drawing:	0051-03-01-00_a Rev. Aug-13
Winding Summary:	0051-01-00-00_a Rev. Aug-13
Approved Contents:	Compressed Natural Gas
Pressures (Serv./Test):	3600 psi / 5400 psi 248 bar / 372 bar

Comparison:

	Part No.	Length of Cylinder (in)	Service pressure (psi)	Outside Diameter, (nom.) in	Liner Wall Thickness, in. (min.)
Original:	0038-01-00-00	80.0	3600	21.25	0.236
By Similarity:	0051-01-00-00	80.0	3600	16	0.197
	Percent	0.0	0.0	-24.7	-16.5

This certificate of design approval is hereby issued for Design Part Number 0051-01-00-00 with Design Qualification No. QTR-177-1958 dated August 27th, 2015 and the above stipulated criterion. The approval is by the similarity to the part No. 0038-01-00-00 - manufactured in accordance with design submission No. 0038-00-01-00 dated November 2013. Please see the comparison table for the details.

Approved By:

ARROWHEAD INDUSTRIAL SERVICES USA, INC.

Joe Cassidy, Director of Quality Assurance

August 28, 2015

Date of Issue

STATE OF NORTH CAROLINA)
) SS
COUNTY OF ALAMANCE)

Witness my hand and Official Seal:

Notary Public

August 28, 2015

Date of Issue



Subscribed and sworn to (or affirmed) before me on this the 27th day of August, 2015 by Joe Cassidy personally known to me or proved to me on the basis of satisfactory evidence to be the person who appeared before me.

3343 Durahart St.
Riverside, CA 92507-3469
USA
Phone: 951-778-1585
Fax: 951-778-1581
E-mail: aisi.ca@sbcglobal.net

Orion House
14 Barn Hill
Stamford
Lincolnshire PE9 2 AE
UK
Phone: +44 (0) 1780 758550
Fax: +44 (0) 1780 758551
E-mail: sdavies@arrowheadltd.com

www.arrowheadindustrial.com

