

INDEPENDENT 3RD PARTY VERFICATION CERTIFICATE

Certificate No: 10280193 -1 Rev 2

This is to state:

test results for Parker's CPI™ and A-LOK® Tube Fittings with diameters 1/4", 1/2", 3/4" and 1" as described in /1/, /2/, /3/, /5/ and /6/ have been reviewed and found to meet the requirements of ASTM F1387- 99 (2005) as detailed in /4/ with limitations specified.

Manufacturer: Parker Hannifin Corporation

DNV has performed an independent 3rd party review on testing records for CPI™ and A-LOK® Tube

Fittings in accordance with ASTM F1387 standards (/4/). Some tests were performed at Parker

Testing Overview: Hannifin test facilities in Alabama and Ohio and/or Wyle Labs in Huntsville Alabama and test facilities/

equipment were reviewed by GE personnel prior to testing, some tests were performed at third party

Test Description:	iaus.	
	Description of Test	ASTM F1387 Test Requirements
	Pneumatic Proof Test	A3
	Hydrostatic Proof Test	A4
	Impulse Test	A5
	Flexure Fatigue Test	A6
	Tensile Test	A7
	Hydrostatic Burst Test	A8
	Repeated Assembly Test	A9
	Rotary Flexure Test	A10
	Thermal Cycling Test	S2
	Elevated Temperature Soak Test	S 3
	Vibration Test	S8
	High Impact Shock Test Note 1	S6
	Fire Test Note 2	S7
	Note 1: High impact shock test and subsequent hydrostatic proof test were successfully performed	

Note 1: High impact shock test and subsequent hydrostatic proof test were successfully performed on CPI[™] and A-LOK® Tube Fittings with diameters 1/4", 1/2", 3/4" and 1", but no test record was submitted for burst test.

Limitations and Conditions:

Note 2: CPI[™] and A-LOK® Tube Fittings with diameters 1/4", 1/2", and CPI[™] Tube Fitting with diameter 1" were subjected to S7 test and they passed test successfully.

Note 3: The evaluation is valid for CPI[™] and A-LOK® Tube Fittings with diameter range from 1/4" through 1" as it appears in the submitted documents.

/1/ Parker Engineering Performance Report (EPR 4230/4233.1 Rev. 2)

/2/ GE Specification 362A2915 Test Report (IPD-TR101), September 13, 2004

/3/ 51214-01 Parker Hannifin-Wyle Test Report, November 24, 2004

Reference documents:

/4/ ASTM F1387 - 99 (2005): "Standard Specification for Performance of Piping and Tubing

Mechanically Attached Fittings"

/5/ SWRI Report R24842.01.001, March 18, 2020/6/ NTS Shock Test Data Records, December 2015

Issued at Houston on 2022-04-07

for **DNV**

Joanna Ye, M.Sc

Project Manager/Senior Engineer

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Form code: TQ 321 Revision: 2021-03 www.dnv.com Page 1 of 1