



## Type Approval Certificate

This is to certify that the undernoted product(s) have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

<b>Manufacturer</b>	<b>Parker Hannifin Corporation</b>
<b>Address</b>	30240 Lakeland Blvd, Wicliffe, OH, 44092, United States
<b>Place of Production</b>	Parker Hannifin Corporation 1501 Hayes Drive, Manhattan, KS, 66502, United States
<b>Place of Production</b>	Parker Hannifin – Hose Products Division 101 Parker Lane, P.O. Box B, Alliance, NE, 69301, United States
<b>Place of Production</b>	Parker Hannifin – Hose Products Division 1867 State Hwy 48, Red Oak, IA, 51566, United States
<b>Place of Production</b>	Parker Hannifin India Pvt. Ltd. Amravati Road Bazargaon, Nagpur, 440023, India.
<b>Place of Production</b>	Parker Hannifin Co Ltd, Qingdao Co. Ltd. No. 9, Huoju Branch Road, High-tech Zone, Qingdao, China 266114.
<b>Place of Production</b>	Parker ISR Fluid Connector N0.85 Shenhu Road, Yu Hong District, Shenyang, China 110141.
<b>Place of Production</b>	Parker Hannifin India Pvt Ltd, Fluid Connectors India, Mfg., BU Plot 26-29, 16a and 18-19, Phase IV, IDA Patancheru, Hyderabad, India 502 319
<b>Place of Production</b>	Parker Hannifin Connectors Ltd, 77 4-GIL Yusangongdan, Yangsan – SI, Gyeongsangnamdo, 50592 Korea Republic.
<b>Place of Production</b>	Parker Fluid Connectors Antiguo Camino A San Lorenzo No. 338, Zona Industrial, Toluca, Mexico 54963



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<b>Type</b>	Flexible Hoses
<b>Description</b>	Non-metallic flexible hoses with end fittings consisting of an inner tube of oil resistant synthetic rubber, reinforced by high tensile steel wires, and fitted with an abrasion, oil and weather resistant synthetic rubber cover. End fittings in accordance with Parker Hannifin specification HS-D02.
<b>Trade Name</b>	387TC, 387 ST, 487TC, 487ST, 487CP, 722TC and 722ST

1330 Enclave Parkway, Houston, Texas, 77077,  
United States

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**Gopal Nair**

Piping & Pressure System Principal Specialist  
to Lloyd's Register North America, Inc.  
A member of the Lloyd's Register group

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<b>Application</b>	For use in marine systems as short joining lengths of flexible hose to accommodate relative movement between machinery and dynamic equipment connected to permanent piping systems.												
<b>Specified Standard</b>	Lloyd's Register's Rules and Regulations for the Classification of Ships; July 2022 Lloyd's Register's Rules and Regulations for the Classification of Special Service Craft; July 2022 Lloyd's Register Type Approval Test Specification Number 2.												
<b>Ratings</b>	<table><tr><td>Type</td><td>387</td><td>487</td><td>722</td></tr><tr><td>Pressure (bar)</td><td>210</td><td>280</td><td>280</td></tr><tr><td>Diameter (mm)</td><td>6.3 to 51</td><td>6.3 to 51</td><td>10 to 51</td></tr></table> <p>Tough &amp; Super tough cover design temperature: -40°C to 125°C</p>	Type	387	487	722	Pressure (bar)	210	280	280	Diameter (mm)	6.3 to 51	6.3 to 51	10 to 51
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Pressure (bar)	210	280	280										
Diameter (mm)	6.3 to 51	6.3 to 51	10 to 51										
<b>Other Conditions</b>	<p>Installation of the flexible hose including end fittings to be in accordance with up-to-date Lloyd's Register Rules and Regulations.</p> <p>Not be used to compensate for misalignment in piping systems including installations subjected to torsional deformation.</p> <p>Not intended for applications experiencing high levels of vibration.</p> <p>Not to be used in high pressure fuel oil injection systems.</p> <p>Where specialized application is intended, compatibility with fluids considering the design pressure and temperature including the environment should be consulted with the manufacturer.</p>												

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This certificate is not valid for equipment, the design, ratings, or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register North America, Inc. of any modification or changes to the equipment to obtain a valid Certificate.

**Previous Version:** LR2006502TA

The Design Appraisal Document DADLR2006502TA-01 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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