

Company Name Details

Company Information

A-T CONTROLS

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Additional Company / Plant Detail

Confirmation of Type Approval

22-2296097-PDA

Certificate Number	Category	Expiry Date
22-5418453	RQS	20-AUG-2027

Product Actuator, Pneumatic

Model 2R or TR Prefix and DA, DAR, SR or SO Suffix.

Endorsements

Tier 3 - Type Approved, unit certification not required

Intended Service Marine & Offshore Application - for Compressed Air System, Bulk Mud, Liquid Mud, Ballast, Liquid & Dry Cargo, Seawater Cooling, Lube & Fuel Oil.

Description Double Acting & Spring Return Quarter-Turn Pneumatic Rack & Pinion Valve Actuators.
 2R (Base Model Number) DA is Double Acting Actuator.
 DAR same as DA except piston is installed in reverse rotation (clockwise instead of counter clockwise).
 2R (Base Model Number) SR is spring return fail clockwise configuration and SO is spring return fail counter-clockwise configuration and involves installing pistons opposite of normal in order to have the springs drive the actuator the opposite rotation.
 Operating media-clean, dry air, non-corrosive gas or light hydraulic oil. TR10, TR20 & 2R (Base Model Number), DA is Double Acting Torque and SR is Spring Return Torque.

TR10 & TR20, 2R40, 2R80, 2R130, 2R200, 2R300, 2R500, 2R850, 2R1200, 2R1750 and Suffix DA, DAR, SR or SO.

Ratings Standard Working Temperature Range for all models: -20 °F to +175 °F [-29 °C to +79 °C].

Wall Thickness of the actuator housing is 10mm on models 2R850, 2R1200 and 2R1750.

Wall Thickness of the actuator housing is 6mm on models 2R40, 2R80, 2R130, 2R200, 2R300 and 2R500.

The Actual Valve Break Torque is not to exceed the Manufacturer's recommended Valve Demand Break Torque per attached "pdf" pages.

For additional Rating and Dimensions see the attached RP-20211026 Catalogue.

- Unit Certification is not required for this product.
- If the manufacturer or purchaser's request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.
- The Actuators are not to be used to maintain valves in the Open Position for the Fuel Oil System. The Air Supply for the Pneumatic System must have an Air Receiver with sufficient capacity to Close all Connected Valves Twice, Low Air Pressure Alarm, and a Non-return Valve adjacent to the Air Receiver in the Air Supply Line as indicated on MVR 4.6.4/13.5.3 (b).

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

Comments

- 1) For Class III components, manufacturer's trademark, pressure/temperature rating and material identification, as applicable, stamped or cast on the component and verifiable against the manufacturer's catalog or similar documentation will suffice in accordance with MVR 4-6-1/7.1.3.
- 2) For models TR10 & TR20 the travel stops are located in the end caps for adjustment in one direction only.
- 3) The Solenoid valve is not part of this approval.

Notes, Drawing and Documentation

Drawing No. Correspondence, PDA Application revalidation 16-HS1574348-PDA, Revision: -, Pages: -
 Drawing No. ISO 9001:2015 Certificate, A-T Controls ISO 9001:2015 Certificate, Revision: 0, Pages: 1
 Drawing No. PO 62202, Purchase Order, Revision: -, Pages: -
 Drawing No. RP-20211026, 2R Catalog, Revision: 202, Pages: 1

This Product Design Assessment (PDA) Certificate remains valid until 07/Sep/2027 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Term of Validity

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

ABS Rules

2022 Rules for Conditions of Classification, Part 1 - 2022 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

Rules for Building and Classing Marine Vessel Rules (2022): 4-6-1/5, 4-6-1/Table 1, 4-6-1/7.1.3, 4-6-7/3.5.5 (a), (c), (e), 4-6-7/5.3.3
 Rules for Conditions of Classification - Offshore Units and Structures, Part 1 - 2022 1-1-4/9.7, 1-1-A2, 1-1-A3

National Standard

NA

International Standard

ISO 9001: 2015

Government Standard

NA

EUMED Standard

NA

Others Standard

NA

Model Certificate**Model Certificate #****Issue Date****Expiry Date**

PDA

22-2296097-PDA

08-SEP-2022

07-SEP-2027