



Emerson Automation Solutions - Biffi
Actuation Technologies
Strada Biffi 29017
Fiorenzuola d'Arda (PC)
Italy

Shell Global Solutions International B.V.
Kessler Park 1
2288 GS Rijswijk (ZH)
The Netherlands

Subject: Acceptance of Endurance Testing

Date: 12 November 2018

Security Class: Unrestricted

Dear Emerson – Biffi Test Team,

This is to confirm that the actuator product range described in this acceptance document has satisfactorily completed the Endurance Test as described in EN 15714-3 (2009) including the Shell-specific pre- and post-inspections described in clause 9 of DEP 32.36.01.18 (2016).

Manufacturer name: Emerson Automation Solutions - Biffi

Product: Biffi RPS Spring Return Rack & Pinion Pneumatic Actuators, with materials suitable for either -60°C to 100°C or -20°C to 100°C and having Operating Torques (at Maximum Operating Pressure) between 163 Nm and 3710 Nm.

Reference documents Biffi data sheet VCTDS-02813-EN 17/09 and Biffi 16LP053_REV2, RPS test procedure (Aug 2017).

Facility where the test is performed: Emerson Automation Solutions – Biffi, Fiorenzuola d'Arda PC, Italy.

Date and period for the test: May to October 2018.

Independent witness involved in the test: Mr. Giovanni Luoni and Mr. Marco Canetta, TUV InterCert SAAR

Any change to the specification, design or material selection requires revalidation of this acceptance document.

This acceptance does not imply that the actuator is Shell P&T TAMAP approved.

The validity of this acceptance document expires 10 years after its publication date.

Willem van Rijs
Senior Automation Engineer – SME Automated Valves
PACO-EPAC