

Certificate No. NESA-S068

Version No.1.0

Approval date 07 July 2021
Approved by General Manager Technical Standards
Report no. NESA-S068 v1.0
Report date 27 May 2021

This certificate is issued to

Supplier Voestalpine Railway Systems Australia Pty Ltd
 33 McLennan Street,
 Mackay QLD 4740, Australia

In respect of

Manufacturer Voestalpine Signaling Austria GmbH
 Alpinestraße 1
 8740 Zeltweg
 Austria

Product description **SPHEROLOCK POINTS MECHANISM**

Item identification **SPHERLOCK**

Application Locking of turnouts used across entire ARTC network

Relevant Standards SPS 02 – ‘Environmental conditions’
 SPS 05 – ‘Electrical & Electronic components’
 SPS 16 – ‘Point Machines’
 ESC 0701 – ‘Installation of Trackside Equipment’
 SDS 25 – ‘Circuit Design Standards’

Conditions of Approval

1. Inspection procedures to confirm the engagement of the locking mechanism and the maintenance of sufficient retention force when points movement is detected complete shall be in place for points fitted with this mechanism.
2. Time between maintenance inspections should not exceed 6 months.
3. Maintenance service shall be performed in accordance with service schedules SC0738 with a maximum period not exceeding 12 months.

NEW EQUIPMENT AND SYSTEM APPROVAL CERTIFICATE

4. Only individual components from the approved item list may be utilized in the assemblies listed and for application to the types of rail and turnout geometries shown.
5. This approval supersedes existing ARTC type approval with certificate number S 02-08-10-083a which will be superseded.
6. The operating rod connector securing studs shall be secured with Nyloc nuts.
7. For use across the entire ARTC network.
8. Prior to its use with a specific manufacturer's turnout and with a specific point motor, a design drawing showing all the components of the turnout, point motor, Spherolock and all rodding including all the required detailed parts drawings shall be produced and approved as per the engineering design approval process. A copy of the drawings shall be provided to the standards section.

A general condition of approval is that the supplier remains accredited to ISO 9001 specifically for these products and ARTC is advised on a 12 monthly basis that accreditation is current. ARTC reserves the right to conduct its own audit of the manufacture and supply of these components to AS 19011.

Any subsequent change to the design, materials or manufacturing process is not covered by this approval. The manufacturer should notify ARTC of any modification or changes in order to obtain a valid certificate.

Note/Comments None

Issue date 07/07/2021

Expiry date NA

Issued by

ARTC Manager Signalling Standards

APPROVED ITEM LIST

SPHEROLOCK POINTS MECHANISM

Part Number	Description	Rail Profile	Condition/Comments
J2800092	SPHERO SW CTRL UNIT 1435 DEV1 180/120	41kg/60kg	180mm Stroke, 120 mm opening
J2800094	SPHERO SW CTRL UNIT 1435 DEV2 110/65	41kg/60kg	110mm Stroke, 65 mm opening
J2800112	SPHEROLOCK SWITCH PRESSURE HEAD ASSEMBLY DEVICE 1 60KG	41kg/60kg	
J2800140	PRESSURE HEAD ASSY DEV2 60KG	41kg/60kg	
J2800253	SPHERO SNX CTRL UNIT ASSY 180/80 -126	60kg/53kg	180mm Stoke, 80-126mm opening
J2800130	SPHERO SNX CTRL UNIT ASSY 180/80 -115	60kg/53kg	180mm Stoke, 80-115mm opening