

October 20, 2017

SUBJECT: Product support plan for the Hydraulic Amplifier product line

Woodward introduced its Hydraulic Amplifier product line in the late 1900s. Since that time this product line has enjoyed success in the market and continues to be an important part of Woodward's complete turbine actuation solutions. Because of the market demand for improvements to this product line, Woodward created a new updated version of this product line to be referenced as the VariStroke actuator product line. Since the VariStroke was designed as a replacement for the current Hydraulic Amplifier product line it is believed that the transition to this new product will be easy (small wiring and mounting differences anticipated).

As post production support is an important part of Woodward's tier-one service plan, and to Hydraulic Amplifier owners/users, Woodward has developed the following the product support plan to ensure years of product operation and factory support:

January 1, 2016 – 2022:

- Migrate new Hydraulic Amplifier orders to VariStroke
- Unlimited Hydraulic Amplifier production units are available
- Unlimited Hydraulic Amplifier spare units & spare components are available
- Unlimited Hydraulic Amplifier repairs are available
- VariStroke replacement product is available

January 1, 2022 - 2027:

- New Hydraulic Amplifier production stopped
- Unlimited Hydraulic Amplifier spare units & spare components are available
- Unlimited Hydraulic Amplifier repairs are available
- VariStroke replacement product is available

January 1, 2027 - 2047:

- Complete Hydraulic Amplifier spare units not available
- Unlimited Hydraulic Amplifier spare components are available based on parts availability
- Unlimited Hydraulic Amplifier repairs are available based on parts availability
- VariStroke replacement product is available

Parts obsolescence from electronic manufacturers can present a challenge to post-life support plans. Woodward strives to hold inventory, or look for alternative parts when components are obsolete. However, there are times when components can simply not be obtained and where sufficient last-time buys cannot be made. In these cases, Woodward cannot always guarantee that we can maintain the rationalization support plan.

Regards,



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