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Actuation Technologies Product Notice

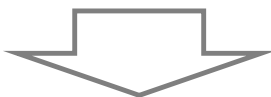
Date: March 01, 2021
Product Notice: Obsolescence notice
Subject: Biffi F02

After careful consideration of our portfolio and product offerings, the decision has been made to discontinue the **Biffi F02 - Electric Actuator** models listed below in favor of a true like-for-like replacement: the **Bettis SCE300**.

F02_63
F02_125
F02_250
F02_500
F02_1000
F02_2000



BIFFI F02



SCE300_63
SCE300_125
SCE300_250
SCE300_500
SCE300_1000
SCE300_2000



BETTIS SCE300

Interchangeability:

Bettis SCE300 actuator performance, functions, options, and valve interface connections exactly match that of the BIFFI F02 actuator.

Obsolescence Schedule:

- Pricing removed from the FY20 price book – **March, 2021**
- Cease quotation – **March 31, 2021**
 - *All quotations will be valid until **May 31, 2021**
- Deadline for last-time buy – **June 30, 2021**
- Availability of Spare Parts – **Ongoing**
- Customer service and engineering support – **Ongoing**



Product Obsolescence Notice

Biffi ELBS10, Electronic line break

The **Biffi ELBS10** Electronic Line Break device will be discontinued and replaced with its new release **ELBS20**, effective immediately.

Biffi manufactures line break devices, classified as internal leak detectors, for pipeline actuators. The coupling of a line break device with a failsafe actuator on isolation valves, allows the pipeline operator to minimize the effects of a leak detecting it and to use the collected information to automatically shut down the relevant valve and to isolate the leak sector.

Biffi's electronic line break system ELBS-20 is the new release of the previous ELBS-10 with additional and improved features. It is a complement to Biffi's existing Pneumatic Line Break and Hydraulic Line Break devices. It is typically provided as an equipment of Biffi's gas-powered actuators GIG/GIGS (Direct gas operated) and GPO (gas over oil), but it can be mounted on any other actuator type, for liquids as well as for gas pipelines.

ELBS10 have been out of stock since 2013, while spare parts were released until 2019.

Every single ELBS10 was sold as a part of a tailor-made solution. When spare parts are requested, every single case needs to be evaluated to define the type of replacement needed in that set-up (control cabinet, electronic cards or both).

Replacements are available both with IP (not Explosion proof) or Explosion proof solutions.

Product Obsolescence Notice

IPOS EHA, Electronic Control Unit

Effective immediately, the Biffi IPOS EHA control device will be discontinued and replaced with the brand new **Biffi ECU1000**.

ECU1000 fully covers all IPOS EHA capabilities and can be easily replaced in case of a complete electronic revamping activity. It also allows optimizing the last available electronic cards, increasing Biffi's modulating electro-hydraulic systems life.

IPOS EHA with green electronic cards has been out of stock since 2008, and the version with red electronic cards since 2012, whereas spare parts have been released until 2018 (green) and 2020 (red).

Every single IPOS EHA was sold as a part of a tailor-made solution, therefore in case spare parts are requested, every single case needs to be evaluated to define the type of replacement (control cabinet, electronic cards or both).

Replacements are available both with IP (not Explosion proof) or Explosion proof solutions.

Product Obsolescence Notice

IPOS41, Electronic Control Unit

We are here to officially confirm that in a continues research of improvements and to have the best electronic devices in line with the actual market needs, the decision to discontinue the IPOS41 in favor to the brand new ECU1000.

ECU1000 fully cover all the IPOS41 capabilities and can be easily replaced in case of a full electronic revamping activity

The use of ECU1000 can grant the optimization of the last available electronic cards to increase the life of the modulating electro-hydraulic system sold by Emerson division Biffi.

IPOS41 was out of stock from the 2008 and the spare parts released until to 2018

Each IPOS41 sold was part of a tailor-made solution and in case of spare parts request need to evaluate case by case the type of replacement.

It is possible to have solution with IP (not Explosion proof) or Explosion proof replacements.

Each IPOS41 sold was part of a tailor-made solution and in case of spare parts request need to evaluate case by case the type of replacement (control cabinet, electronic cards or both) .

Product Obsolescence Notice

Biffi LSB (Limit Switch Box)



Effective immediately, The Biffi Limit Switch Box will be discontinued and replaced with an equivalent outsourced box, which is manufactured by carefully selected producers and in full compliance with previously supplied capabilities and standards.

The Biffi Limit Switch Box was a specific solution, created to compensate for a market gap, that can be easily covered by dedicated producers today.

To guarantee the highest flexibility and a smooth replacement process to our customers, we decided to discontinue the product, thus granting a greater range of certifications, materials, temperature, switches and high view indicators like the Beacon.

If you have a product to replace, you can contact the Biffi Spare Parts Department to define the best possible solution and the adaptation kit needed to properly fit the new selected product.

Product Obsolescence Notice

IMVS2000V1

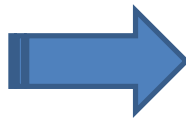
As already communicated in the legacy V&C organization, after careful consideration of our portfolio and product offerings, a decision has been made to discontinue the Biffi IMVS2000V1 model position transmitter and PST device.

The optimization of the Biffi IMVS2000V1 model will allow us to meet our customers' needs with a newly expanded design controls portfolio which will readily provide complete and reliable product coverage for the discontinued models. The details are listed below:

□ Replacement Model Guideline:



IMVS2000V1



IMVS2000V2

Main technical differences from the previous version

- Housing available is AISI SS316 only
- Updated Electronic Boards
- Optimized Pressure Sensors Design
- Single or Redundant SOV configuration (Series or Parallel) with two isolated circuits
- Local Operator Interface with Oled Graphic Display (Operating From -40°C To +75°C)
- *Biffi Assistant* Software Tool
 - Possibility to Import/Export all the configuration data and graphs
 - Easier Bluetooth connection mode
- Full Configuration, Diagnostic and Graphs available
- HART 7 certified and MODBUS RTU(RS485) BUS Interfaces (available as optional card)
- Possibility of detecting valve strokes generated by SOV not controlled by itself. This events are stored as Full Stroke graphs.
- Possibility to check an external SOV dedicated to the ESD (SOV TEST without moving the Valve, just through Pressure Drop)
- Possibility to store up to 49 PST and SOV TEST Graphs (in the FIFO not-volatile memory)

Product Obsolescence Notice

Biffi Subsea Actuators, OFO – OFOS - OFROV

After a careful evaluation of the current market situation and the overall Biffi product range the decision has been made that Biffi subsea actuators product lines (Biffi mod OFO mod OFOS and mod OFROV) will be discontinued, effective immediately.

Biffi subsea product range has been available to the market for 40 years with an extended installed base. Being a highly engineered product, each request was managed as tailor made solution.

Biffi will guarantee technical assistance on the installed base and in case a replacement or refurbishment of the product is needed.

Product Obsolescence Notice

Morin A-series mod 006 ~ 420 and Biffi mod 0.1, Scotch Yoke

After careful consideration of our portfolio and product offerings, a decision has been made to discontinue the Morin A-series and ALGA/s models listed below:

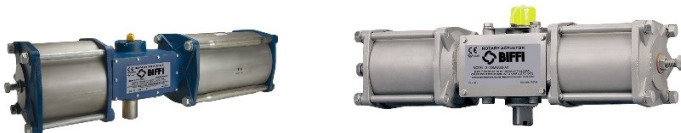
- **Morin A-series mod 006, 012, 023, 036, 050, 059, 072, 135, 210, 270, 345, 370, 420**
- **Biffi ALGA mod 0.1**
- **Biffi ALGAS mod 0.1**

The optimization of the Morin and Biffi Series will allow us to meet our customers' needs with a newly expanded scotch yoke design actuator portfolio which will readily provide complete and reliable product coverage for the discontinued models. The details are listed below:

- **Replacement Model Guideline*** (includes all DA and SR models and both symmetric and canted):



Morin A-series mod 006 ~ 420



Morin B/C/S-series mod 006 ~ 420

| Morin A | Morin B or C Replacement | Morin S Replacement |
|---------|--------------------------|---------------------|
| 006 | 006 | 006 |
| 012 | 015 | 012 |
| 023 | 023 | 023 |
| 036 | 036 | 036 |
| 050 | 050 | 050 |
| 059 | 059 | - |
| 072 | 072 | 072 |
| 135 | 135 | 135 |
| 210 | 210 | 210 |
| 270 | 270 | 270 |
| 345 | 345 | - |
| 370 | 370 | 370 |
| 420 | 420 | 420 |

**Model replacements are general suggestions only. All model selections are required to follow Emerson's standard actuator sizing guidelines and practices.*

- **Replacement Model Guideline*** (includes all DA and SR models and both symmetric and canted):



ALGA and ALGAS series mod 0.1

| ALGA | ALGAS | Morin S Replacement |
|------|-------|---------------------|
| 0.1 | 0.1 | 003 |
| | | 006 |
| | | 012 |
| | | 023 |
| | | 036 |



Morin S-series mod 003 ~ 36

**Model replacements are general suggestions only. All model selections are required to follow Emerson's standard actuator sizing guidelines and practices.*

Product Obsolescence Notice

Morin HP 65 and 80 frame sizes

After careful consideration of our portfolio and product offerings, a decision has been made to discontinue the Morin HP models listed below:

- HP65
- HP80

The optimization of the HP Series will allow us to continue to meet our customers’ needs for this unique product line for the smaller range of torques and these two largest models will be replaced with a newly expanded scotch yoke actuator portfolio which will readily provide complete and reliable product coverage for the discontinued models. The details are listed below:

- **Replacement Model Guideline*** (includes all DA and SR models and both symmetric and canted):



| Morin Model | Biffi OLGA** (105 bar) | Biffi OLGA-H** (345 bar) |
|-------------|---------------------------|-----------------------------|
| HP65 | 1.5 to 3 | 1.5 to 3 |
| HP80 | 3 to 6 | 3 to 6 |
| | | |
| | | |
| | | |
| | | |
| | | |

**Model replacements are general suggestions only. All model selections are required to follow Emerson’s standard actuator sizing guidelines and practices.*

****** Single or double acting (Single is OLGAs or OLGAS-H; Double is OLGA or OLGA-H)

Product Obsolescence Notice

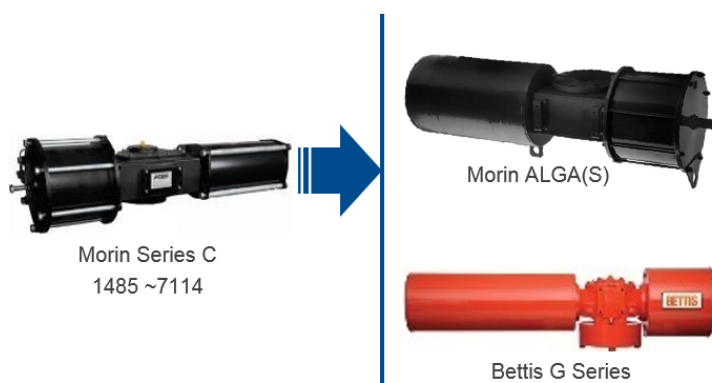
Morin Series Model 1485 ~ 7114, Scotch Yoke

After careful consideration of our portfolio and product offerings, a decision has been made to discontinue the Morin Series Scotch Yoke models listed below:

- **Morin C - 1485, 1935, 2385, 3071, 3072, 3731, 4534, 5336, 6044, 7114**

The optimization of the Morin Series will allow us to meet our customers' needs with a newly expanded scotch yoke design actuator portfolio which will readily provide complete and reliable product coverage for the discontinued models. The details are listed below:

- **Replacement Model Guideline*** (includes all DA and SR models and both symmetric and canted):



| Morin | Morin ALGAS** | Bettis G** |
|--------|---------------|--------------|
| C-1485 | ALGAS 1.5 | Bettis G4 |
| C-1935 | ALGAS 3 | Bettis G4 |
| C-2385 | ALGAS 6 | Bettis G5 |
| C-3071 | ALGAS 6 | Bettis G5 |
| C-3072 | ALGAS 6 | Bettis G5 |
| C-3731 | ALGAS 14 | Bettis G5/G7 |
| C-4534 | ALGAS 14 | Bettis G7 |
| C-5336 | ALGAS 14 | Bettis G7 |
| C-6044 | ALGAS 14 | Bettis G7 |
| C-7114 | ALGAS 18 | Bettis G8 |

**Model replacements are general suggestions only. All model selections are required to follow Emerson's standard actuator sizing guidelines and practices.*

Subject : “C” Series electric actuator replacement

The purpose of this document is to inform you of the obsolescence of the Biffi “C” Series electric actuator, and to present currently-offered replacements for this product.

- The Biffi “C” Series electric actuator is a product that was made obsolete in 1999. Subsequently, support for this product was discontinued completely in 2012.
- The Biffi “C” Series electric actuator has been replaced by the Bettis XTE3000 and Biffi ICON3000 electric actuators. These two new products are identical except for:
 - Branding (XTE3000 = Bettis, ICON3000 = Biffi)
 - Control software (XTE3000 = DCMLink, ICON3000 = Biffi A-Manager).
- The Bettis XTE3000 and Biffi ICON3000 are modern intelligent, multi-turn electric actuators that improve and expand upon the functionality of the obsolete Biffi “C” Series.

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