

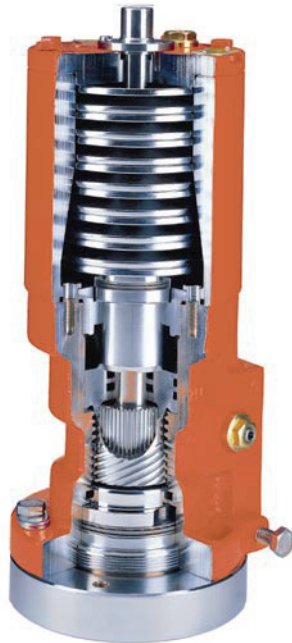
Data sheet

Sheet No.: BHHF 1.01 RevA

Date: October 2010

BHHF

Hydraulic single-acting balanced rotary actuator 90° (quarter-turn) fail-safe



Control equipment:

The BHHF actuators are designed for pipe connection to the G 1/4 actuator port. For further information please see separate data sheets for the whole range of blocks and other actuator mounted control components. (Interface for Cetop 3 valves).

Classification:

Meets requirements from the major classification and approval authorities like:

Det norske Veritas

Russian Register of Shipping

ATEX

Bureau Veritas

Lloyd's Register of Shipping

Germanischer Lloyd

American Bureau of Shipping

U.S. Coast Guard

RINA

IP68 Water Ingress Protection

Manufacture:

The BHHF actuators are manufactured in accordance with the guidelines for quality system stated in the ISO standard. After assembly each actuator is flushed according to ISO 4406 19/16 standard and plugged. Flushing according to ISO 4406 16/13 standard can be performed on request.

Main data:

| | |
|----------------------|--|
| Temperature range: | -20°C to +80°C, (-5°F to +180°F) seals NBR (other temp. ranges on request) |
| Housing: | GGG 40 (Ductile Iron) |
| Piston: | GGG 40 (Ductile Iron) |
| Output shaft: | SS 2142 (Alloy Steel) |
| Indicator shaft: | AISI 316 (Stainless Steel) |
| Intermediate flange: | St 52-3 (Carbon Steel) |
| Adapter: | SS 2142 (Alloy Steel) |
| Coating: | Primer: Min. 40 micron, type Hempel EE 13140 Top coat: min. 25 micron alkyd, orange RAL2002 |

Operating restrictions:

Please observe specific rules and demands from the classification societies and authorities concerning operating pressure and temperature range. (Example - ABS: Max. operating pressure = 20% of burst pressure.) For extreme cycle speeds, loads and lifetime expectations please consult manufacturer.

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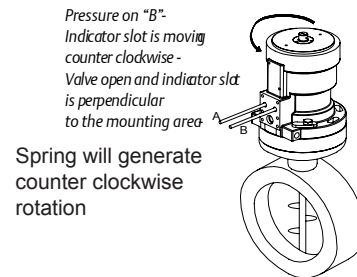
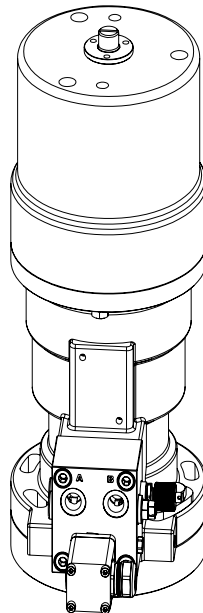
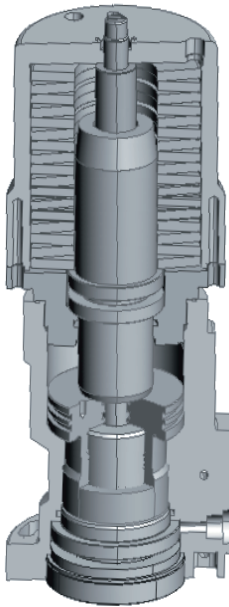
Sheet No.: BHHF 2.02 RevA

Date: October 2010

BHHF

The BHHF actuator for fail-safe operation of quarter-turn valves:

- Unique and simple design with cross-over valve.
- Spring action by means of dished springs.
- Easy adaption to all well-known quarter-turn valves.
- Reliable and rugged, with more than 30 years service records on basic design.
- Compact with high-torque output.
- Designed for operation in harsh environments.
- Unlimited mounting positions with built-in adjustments for end stops of rotary movement.
- Balanced rotary principle eliminates side forces and bending of valve shaft.



Actuator mounted with control block and EI indicator

Standard options:

- EI on/off or continuous indication IP 68
- Connection block with f. ex. filter
- Single pilot operated non-return valve
- Release valve
- Throttle valve
- Quick connection for emergency operation with portable hand pump
- Built-on emergency operation hand pump
- Epoxy coating

On request, special features available, such as:

- Flushing valve built into the connection block making it possible to flush the system without disconnection of pipes.
- Safety equipment such as mechanical locking device of actuator in closed position.

Note: Not Certified dimensional drawings. Such drawings are available on request. Contact factory with correct model designation and serial number.

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