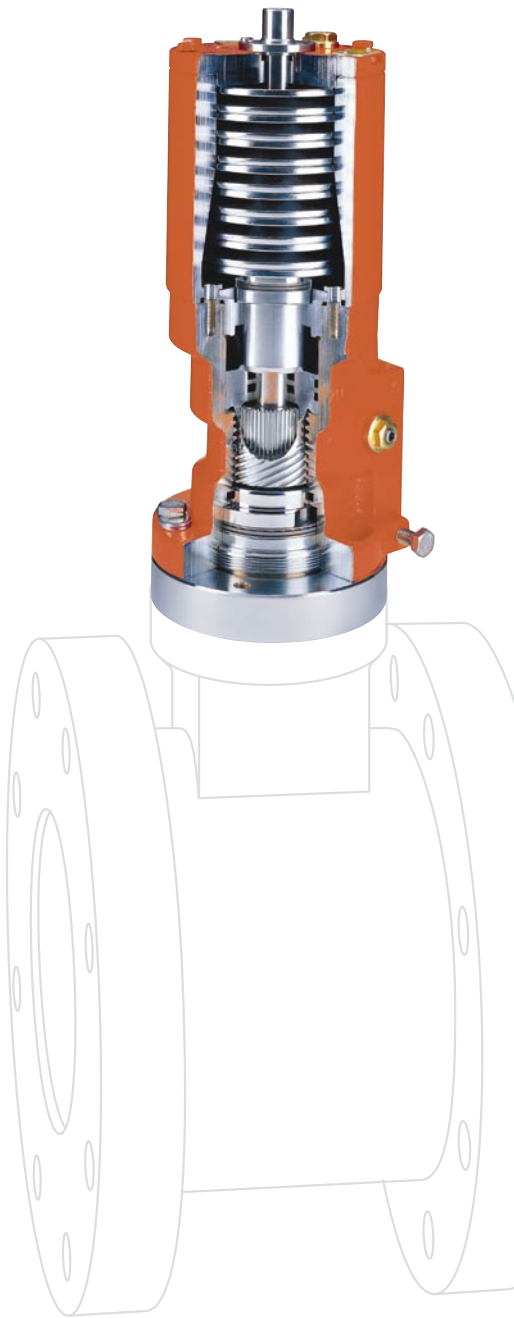


Hydraulic single-acting balanced rotary actuator 90° (quarter-turn) fail-safe



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
Lloyd's Register of Shipping
American Bureau of Shipping

RINA
Russian Register of Shipping
Bureau Veritas
Germanischer Lloyd
U.S. Coast Guard
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 instructions:

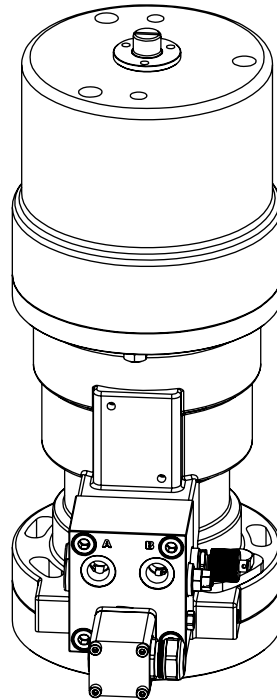
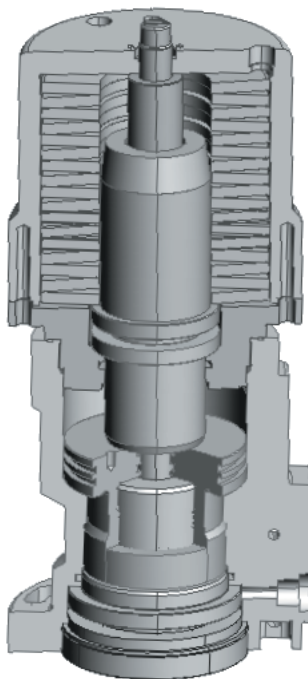
Please observe specific rules and demands from the classification societies and authorities concerning operating pressure and temperature range.

(Example - ABS: Max. operating pressure = 20% of burst pressure.)
For extreme cycle speeds, loads and lifetime expectations please consult manufacturer.

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

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.
 Important: Due to Emerson's continuing commitment to engineered product advancement, data presented herein is subject to change.

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