

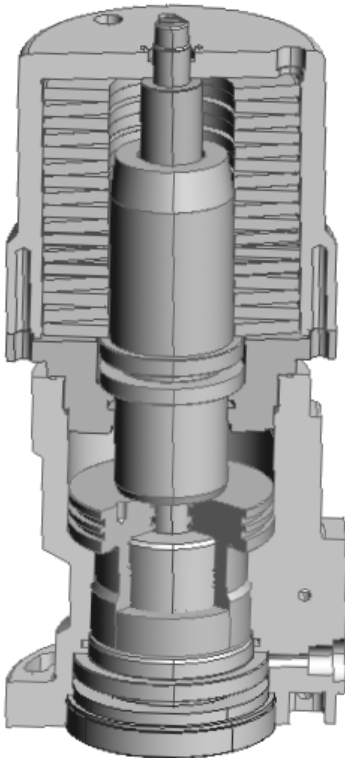
**Product Data Sheet**

SD 0300-2E05

September 2011

# Damcos® BRCF

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



**Damcos®**

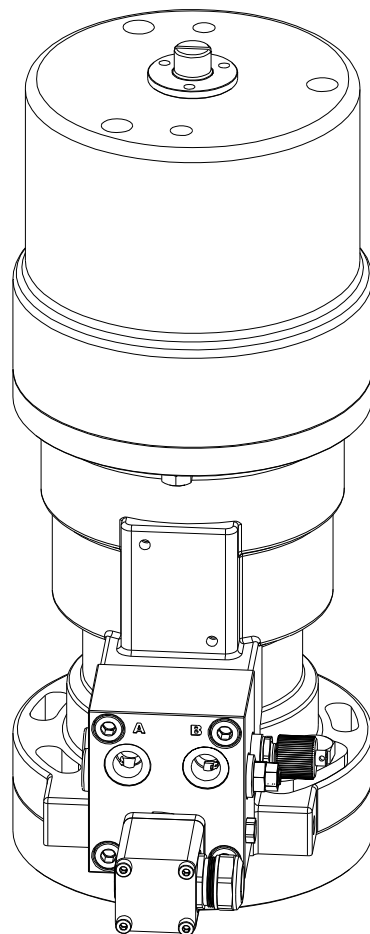


**EMERSON™**  
Process Management

# Damcos® BRCF

## The BRCF 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.
- Also for operation in rough environment.
- Unlimited mounting positions and 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.*

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## Standard optionals

- 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 spec. features as:

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

## Control equipment

The BRCF 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

## Manufacture

The BRCF 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 21/19/16 standard and plugged.  
Flushing according to ISO 4406 18/16/13 standard can be performed on request.

## Damcos® BRCF

## Technical specification

Temperature range:	-20°C to +80°C, seals NBR (other temp. ranges on request)
Housing:	GGG 40
Piston:	GGG 40
Output shaft:	SS 2142
Dished springs:	50 CrV4
Indicator shaft:	AISI 316
Intermediate flange:	St 52-3
Adapter:	SS 2142
Coating:	Primer: Min. 40 micron, type Hempel EE 13140 Top coat: min. 25 micron alkyd, red no. 51320

## 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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