



Linear Anti Surge Actuator

The Oceaneering - Subsea All Electric Anti Surge Actuator is a High End Electrical Linear Actuator with built in Fail Safe Spring Package for accurate operation and positioning of Subsea Linear Control Valves.

FEATURES

Fail safe to open

Subsea retrievable

Accuracy better than +/- 0,15mm



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The Actuator has been designed for continuous and precise operation of the Anti Surge Valve on the Ormen Lange Subsea Gas Compressor System.

The Actuator is Spring fail safe to open, thus bringing the valve to an open position in case of any failure in the system. All critical systems are dual redundant; Motor, Power, Communication, springs etc. Full end-to-end travel of Actuator and Valve is performed in less than two seconds. The actuator is Subsea retrievable by use of ROV and simple tooling with a special designed ROV operated Linear stem connection.

The valve stem area is protected, flushed and oil filled by use of a Hot Stab System. The Actuator has built in patented electromechanical clutch systems connecting and disconnecting valve stem, actuator and spring package.

This makes it possible to test the valve without operating the actuator. Also, the spring fail safe does not require any internal parts to be operated, other than the output shaft of the actuator.

The Actuator accuracy is better than +/- 0,15mm.

The Mokveld Axial Flow Subsea Control provides reliability trough proven design and fast stroking capability. It is compact and light weight design providing the ideal package.

The Actuator is qualified for the Ormen Lange Subsea Gas Compression Pilot.



Technical data:

Stroke:	82 mm	Compensator position:	LVDT
Design Force continuous operation:	45 kN	Voltage 3x400V AC	+10 / -14%
Peak Force:	80 kN	Current (standby)	0,1 A
Force (Fail safe action):	70 kN	Current (operation)	4 A
Operation velocity (max):	82 mm/s	Current (peak)	9 A
Position accuracy:	0,01%	Power (standby)	35 W
Fail safe action:	Fail safe open (FSO)	Power (operation)	2 kW
Spring type:	8 set of double coil springs	Power (peak)	3 kW
Dampening system:	2 sets of two hydraulic dampers	Protocol	Modbus RTU
Stem position:	LVDT	Carrier	RS 485
Motor position:	Resolver and Hall sensors	Com. Speed	9600 OR 19200
Position reference:	Inductive sensor (On/Off)	Temperature	On PCB
Clutch position:	Inductive sensor (On/Off)	Vibration sensor	On PCB

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