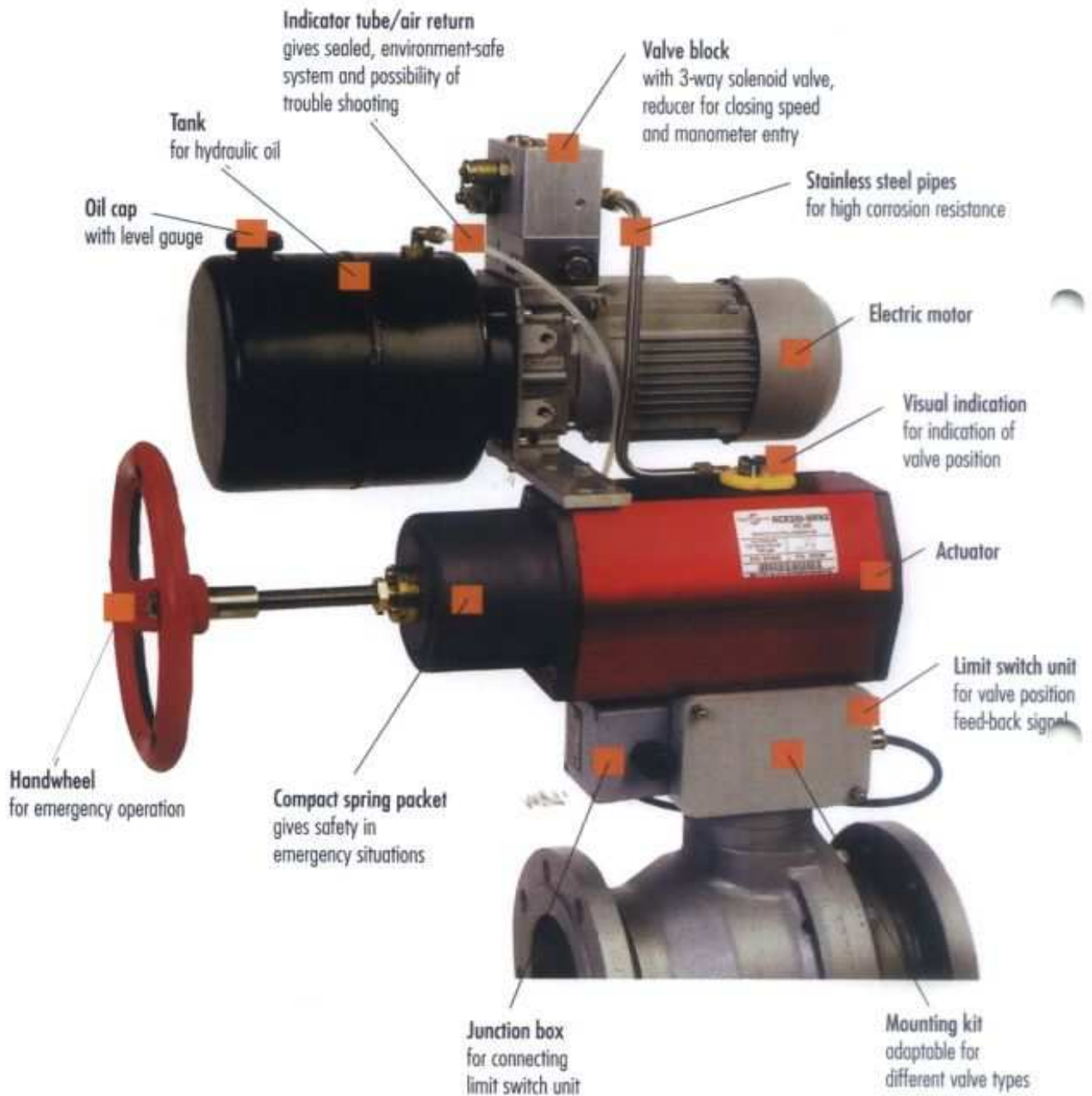


RCE-SR

Electro-hydraulic actuator
with spring return

 **REMOTE CONTROL**

Focused on



All parts separately contain well-proved technics,
which combined form a very reliable unit.

Safety

RCE-SR is a series of rigid actuators for On/Off and regulation with high torques in relation to size. Torques ranging from 50–10.000 Nm. The function is a cost effective alternative to a spring return electric actuator.

The unit consists of a hydraulic spring return actuator with manual override, electric motor, hydraulic pump and tank.

The series has a wide range of applications and is resistant to environmental influence, even in marine environments. The electro-hydraulic actuators are recommended within district heating plants, oil and gas depots where Explosion-proof equipment is required, and where pressurized air is not available or unsuitable.

Within the oil and power industry, safety is of the highest importance. In the event of emergency situations the valve fails close or fails open automatically with the aid of a return spring in the actuator. The RCE-SR is available in designs where spring opens or spring closes. The actuator is constructed for direct mounting on valves according to ISO-standards.

Remote Control has long experience of electro-hydraulic actuators. Actuators which have been in operation in arduous environments since the beginning of the eighties still work faultlessly. We can with a clear conscience say that they are a very high quality product.

Accessories

- Different types of indications, built into RCE4:
 - Mechanical switches – Inductive sensors – Namur sensors Exi
- RCIND, Exi and standard
- RC1990 box
- Exd switches connected to Exe box
- Manometer
- Protective cover



Gardemoen project

“OLT has chosen RCE electro-hydraulic actuators for all their remote controlled valves. My experience of the actuators is very positive. They work safely and the maintenance costs are low.”

Lars J. Bjørkli
Depot Manager at the Oslo Lufthavn Tankanlegg

RCE-SR

Electro-hydraulic actuators with spring return

FUNCTION / DESIGN

The actuator unit features a single acting actuator with spring return, manual override unit M1 or emergency operation unit M2 as well as a mounted hydraulic pump.

The actuators are supplied with a bronze bearing and special sealings for hydraulic use. Venting nipples are fitted depending on the mounting position of the actuator according to customer's specifications. The pump is driven by a motor in standard or Ex design.

In case of power cuts or alarm signals for pipe break, high level or similar, the valve is shut automatically with the aid of the return spring in the actuator. The actuators are equipped with springs for 100 psi (7 bar) in the standard design. They give a quick closing time which can be adjusted by using a built-in speed restrictor valve.

Different types of indications, standard or in Ex design, are available. Please see separate data sheet.

All mounting details are in steel / stainless steel with different surface treatments.

DIMENSIONING

The actuator can be dimensioned for most ball and butterfly valves for 90° degree rotation.

OPERATION TIMES in sec*		
	Open	Close
RCE230-SR	-3	-3
RCE240-SR	-6	-6
RCE250-SR	-9	-9
RCE260-SR	-15	-12
RCE270-SR	-30	-25
RCE280-SR	-65	-50

*The times are dependent on design.
Ambient temperature: +20°C.

Pump: Gear pump

Pump pressure: Pre-adjusted at 8 bar. Max. 10 bar.
Connection for manometer.

Temp. range: -25 to +30°C and Ex zone 1.
Other ranges on request.

Oil type: Exxon Univis J13 or similar

Motors

0,37 kW 4 poles	Power consumption		
	400V 3phase	230V 3phase	230V 1phase
Std	1,0-1,2A	1,7-1,9A	-
Std	-	-	2,9A
Exe class	1,0-1,2A	1,8-2,1A	-

Solenoid valve, coils

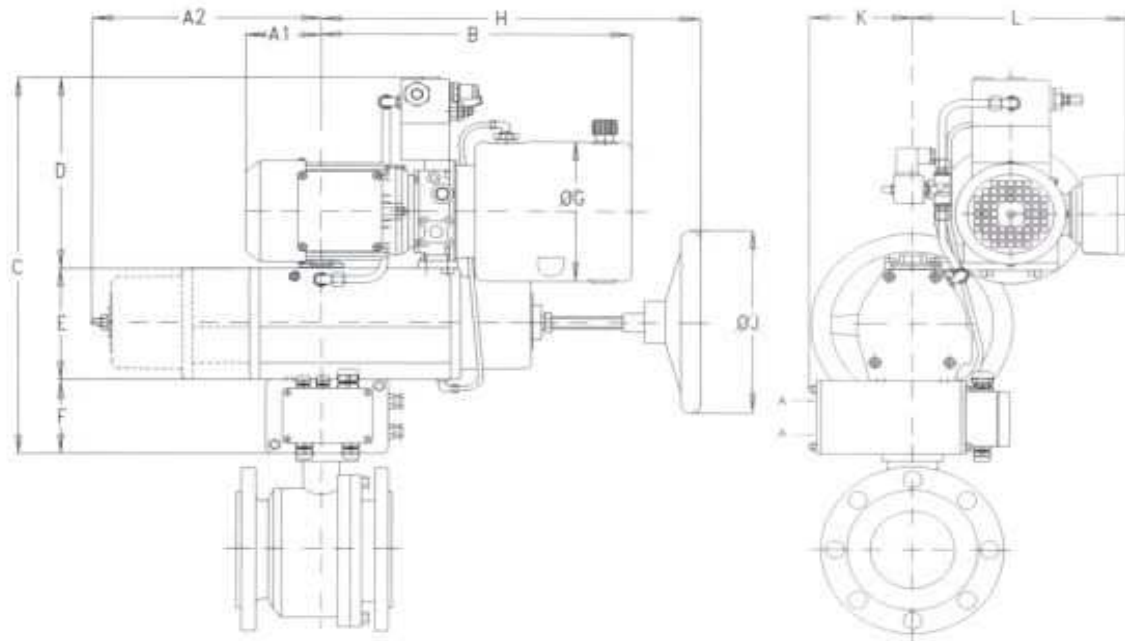
Coils	Output			
	481865	492387	492070	492270
24V DC	9W	9W	8W	5W
220-230V AC	8W	9W	9W	5W

**TORQUE in Nm. Springs adapted for 7 bar.
Hydraulic pressure 8 bar.**

Type	Hydraulic pressure opens			Spring closes		
	0°	60°	90°	90°	30°	0°
RCE230-SR	128	52	74	83	42	57
RCE240-SR	261	107	151	169	85	117
RCE250-SR	386	158	221	274	139	193
RCE260-SR	784	321	449	556	282	391
RCE270-SR	1668	678	944	1128	564	772
RCE280-SR	3365	1368	1905	2277	1138	1557

Other torques on request.

RCE-SR Electro-hydraulic actuators with spring return



MEASUREMENT TABLE in mm. Horizontal mounting													
Type	A1	A2	B	C	D	E	F	G	H	J	K	L	Weight kg
RCE230-SR	146		292	475	265	110	100	126	340	180	130	283	22
RCE240-SR		200											25
RCE250-SR	95	285	390	520	265	155	100	190	460-540	250	130	275	32
RCE260-SR													38
RCE270-SR	355	510	360	658	260	248	150	190	800	400	110	305	100
RCE280-SR	358		357							600			123

Please always mention mounting position when ordering.

Weights exclusive of valve.

We reserve the right to changes without previous notification.



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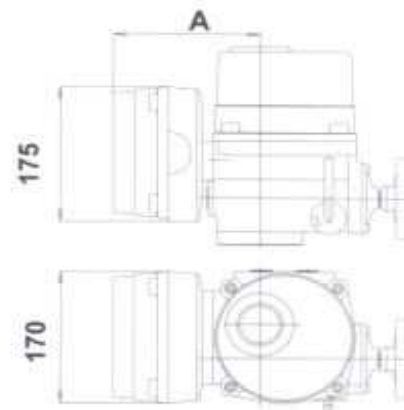
RCEL

With Local Control Unit LCU



- For electric actuators where the possibility to local operation is required
- Remote or local operation can be selected with key switch
- Local control by a 3-position switch
- The control switches are mounted in a separate housing which is attached to the actuator side

Actuator	A (LCU)
RCEL006	176
RCEL009	176
RCEL015	197
RCEL019	197
RCEL028	203
RCEL038	203
RCEL050	203
RCEL060	219



Note: Cannot be combined with PCU unit



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