rotork

Keeping the World Flowing for Future Generations



RCE is a range of electro-hydraulic actuators for on/off positioning, providing high levels of torque in relation to the unit's small size and low weight.

These actuators are suitable for a range of applications such as district heating plants, tunnels, oil and gas depots where explosionproof equipment is required and where pneumatic options with pressurised air is unavailable or unsuitable.

RCE actuators are certified to ISO 9001 and 14001 and comply with PED and ATEX regulations.

The RCE-SR option is a cost effective alternative to springreturn electric actuators. It is constructed from a hydraulic spring return actuator with manual override, electric motor, hydraulic pump and tank. The design is simple and robust.

RCE-SR actuators are ideal when spring open or spring close action is required, for fail-safe functionality. It is made for direct mounting on valves (according to ISO standards).



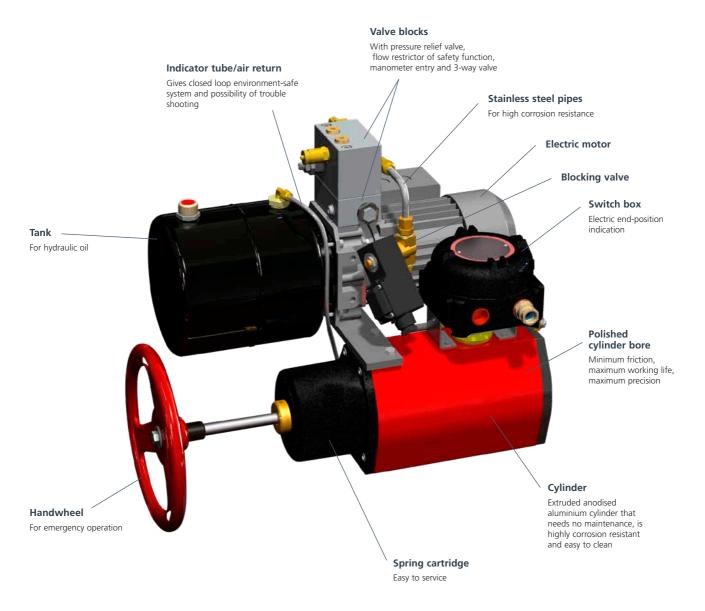
# RCE-SR Range

#### Spring-return electro-hydraulic actuator

- Torque range: 50 to 5,000 Nm (442 to 44,248 lbf.in)
- On- off and positioning through impulse control from external system
- Max pressure: 10 bar / 145 psi\* Temp: -20 to +40 °C (-4 to +104 °F) \*RCE265 8 bar / 115 psi
- Mounting face according to international standards ISO5211, DIN3337, DIN79, NAMUR, VDI/ VDE 3845
- Mounting kits for all 90° valves and accessories
- Spring cartridge with pre-tensioned springs
- Blow-out-proof drive shaft
- Scotch yoke mechanism provides increased torque in end positions, smooth action and precise control
- High-quality materials for long working life and maximum corrosion resistance
- Extruded anodised aluminium housing
- RCE 210-260 options have drive shafts and stainless steel screws

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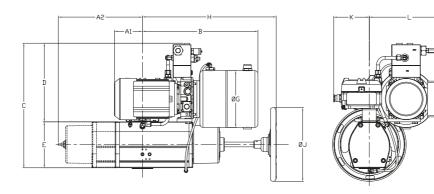
## RCE-SR Spring-return electro-hydraulic actuator





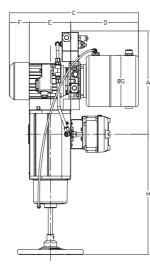
RCE-SR Range

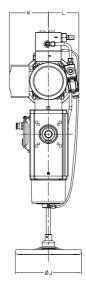
### **RCE-SR** Dimensions



	A1		A1			A1						с		D								L			
	1- Phase Std	1- Phase Ex	3- Phase Std	3- Phase Ex	3- Phase Exd	A2	В	On-off	Positioning	On-off	Positioning	E	ØG	н	۵ı	к	1- Phase Std	1- Phase Ex	3- Phase Std	3- Phase Ex	3- Phase Exd	Weight*			
RCE230-SRM	165	180	140	140	180		292	375	420	265	310	110	126	340	180	130	235	325	235	280	290	22			
RCE240-SRM	105	160	140	140	160	200	292	5/5	420	205	510	110	120	540	160	150	255	323	255	260	290	25			
RCE250-SRM	120	130	95	95	120		390	420	490	265	335	155	100	460-	250	120	225	210	225	270	200	34			
RCE260-SRM	120	130	95	95	130	285	390	420	490	205	0 222	155	190	540	250	130	225	310	225	270	280	41			
RCE265-SRM	195	205	170	170	205	317	390	470	515	265	310	202	190	600	315	130	225	310	225	270	280	51			
RCE270-SRM	375	390	355	355	390		200	520	FCF	265	210	240	100	012	400	120	270	360	270	320	330	78			
RCE280-SRM	380	395	360	360	395	510	360	520	565	265	310	248	190	812	600	130	250	340	250	300	310	102			

\* Weights refer to on-off actuators with 1 or 3-phase engine and RCE4L switch box. +5.5 kg for Ex proof with Ex e engine and 1990 switch box. +18.5 kg for Ex proof with Ex d 3-phase engine and 1990 switch box. +20.5 kg for Ex proof with Ex d 1-phase engine and 1990 switch box. +2.5 kg for positioning.





	A		A C		С	c						F								К				L	
	On-off	Positioning	1- Phase Std	1- Phase Ex	3- Phase Std	3- Phase Ex	3- Phase Exd	D	E	1- Phase Std	1- Phase Ex	3- Phase Std	3- Phase Ex	3- Phase Exd	GØ	н	١Ø	1- Phase Std	1- Phase Ex	3- Phase Std	3- Phase Ex	3- Phase Exd	On-off	Positioning	Weight*
RCE230-SRM	360	405	470	480	450	450	400	210		150	165	130	130	165	126	345	180	100	105	100	145	155	130	155	22
RCE240-SRM	470	515	470	480	450	450	480	270	110	90	105	70	70	105			100		105	100	145				25
RCE250-SRM	390	435	F10	525	405	405	535	255	155	100	115	75	75	115	100	460-	250	100	105	100	145	155	120	155	34
RCE260-SRM	560	605	510	525	485	485	525	235		120	135	95	95		190	540	250	100	185	100	145	155	130	155	41
RCE265-SRM	640	685	510	525	485	485	525	225	202	80	95	55	55	95	190	600	315	100	185	100	145	155	130	155	51
RCE270-SRM	500	545	735	750	715	715	750	425	240	65	80	45	45	80	100	F 00	400	110	185	110	145	1	120	155	78
RCE280-SRM	830	875	/35	750	/15	/15	750	425	248	60	00	45	45	00	30 190	500	600	110	110 185	110	145	155	130	155	102

\* Weights refer to on-off actuators with 1 or 3-phase engine and RCE4L switch box. +5.5 kg for Ex proof with Ex e engine and 1990 switch box. +18.5 kg for Ex proof with Ex d 3-phase engine and 1990 switch box. +20.5 kg for Ex proof with Ex d 1-phase engine and 1990 switch box. +2.5 kg for positioning.

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# RCE-SR Range

### Spring-return electro-hydraulic actuator

## **Technical Data**

#### Torque and hole pattern

	Torque	Nm, Springs	adapted fo	Valve fitting measurements				
Туре	Hydrau 0°	ulic pressure 60°	opens 90°	90°	Spring closes 60°	5 0°	Hole pattern	Shaft [ ] mm
RCE230-SRM	113	50	65	81	39	55	F07/F10	17
RCE240-SRM	226	104	133	163	80	115	F10/F07	22
RCE250-SRM	355	160	210	255	125	175	F10/F12	22
RCE260-SRM	710	325	420	515	250	350	F12/F10	27
RCE265-SRM	1,145	470	580	695	355	525	F12/F10	27
RCE270-SRM	1,480	670	870	1,060	520	720	F14	36
RCE280-SRM	2,970	1,360	1,750	2,150	1,050	1,470	F16	46

#### **Electrical data**

	Мо	tors		Solenoid valve, coils							
0,37kW	P	ower consumptio	n		Output						
4poles	400 V 3-phase	230 V 3-phase	230 V 1-phase	Coils	481865	495905	496555				
Std	1,0-1,2A	1,7-2,1A	-	24 VDC	9 W	8 W	6 W				
Std	-	-	2,7-3,4A	220-230 VAC	8 W	8 W	6 W				
Exe	1,0-1,2A	1,8-2,1A	-								
Evd	1 0-1 2 0		20-294								

#### Hydraulic

Pump:	Gear pump
Pump pressure:	Pre-adjusted at 8 bar. Max 10 bar. Connection for pressure gauge.
Temp range:	-20 to +40 °C and Ex zone 1. Other ranges on request.
Oil type:	Standard: ExxonMobile Unvis HVI 13. Optional: Aero Shell Fluid 4 or 41. Castrol Aero HF585B.

#### **Operation times**

Туре		Off king valve	Positioning				
	Open	Close	Open	Close			
RCE230-SRM	6	6	4	2			
RCE240-SRM	8	8	6	3			
RCE250-SRM	13	16	8	4			
RCE260-SRM	29	29	16	10			
RCE265-SRM	26	22	26	12			
RCE270-SRM	33	32	35	14			
RCE280-SRM	62	54	61	26			

A full listing of the Rotork sales and service network is available on our website.

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Electric Actuators and Control Systems Fluid Power Actuators and Control Systems Gearboxes and Gear Operators Precision Control and Indication

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