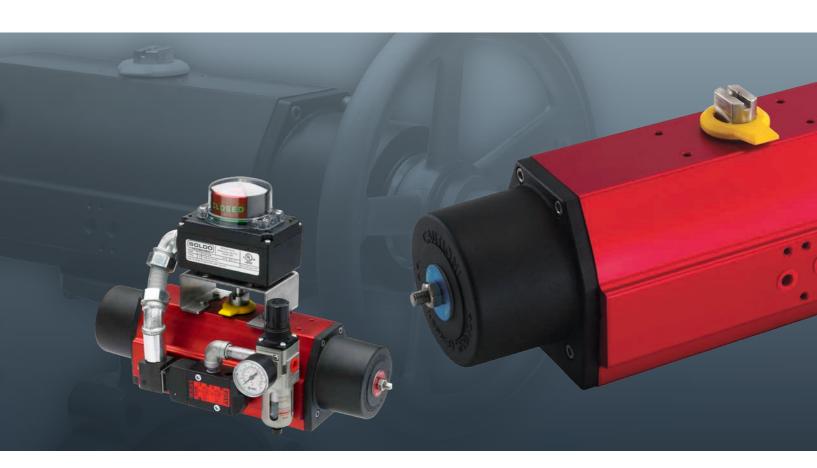


## RC200 range



Compact scotch-yoke actuators for quarter-turn valves

## rotork®

# Reliability in critical flow control applications



#### Reliable operation when it matters

Assured reliability for critical applications and environments.

Whether used infrequently or continuously, Rotork products will operate reliably and efficiently.

## **)** Quality-driven global manufacturing

We offer products that have been designed with over 60 years of industry and application knowledge.

Our research and development ensures cutting edge products are available for multiple applications across multiple industries.

#### Customer focused service and worldwide support

Rotork solve customer challenges and develop new solutions that are tailored to the needs of our clients.

We offer dedicated, expert service and support from initial inquiry, to product installation, to long-term after sales care.

## Low cost of ownership

Long-term reliability prolongs service life.

Rotork helps to reduce long-term cost of ownership and provides greater efficiency to process and plant.

#### RC200 range

Section	Page	Section	Page
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RC200 compact scotch-yoke actuators	4	Performance data	10
Fitting accessories	5	Torque data	11
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## Comprehensive product range serving multiple industries

Rotork products offer improved efficiency, assured safety and environmental protection across sectors such as the Power, Oil & Gas, Water & Wastewater, HVAC, Marine, Mining, Pulp & Paper, Food & Beverage, Pharmaceutical and Chemical sectors.

## Market leaders and technical innovators

We have been the recognised market leader in flow control for over 60 years.

Our customers rely upon Rotork for innovative solutions to safely manage the flow of liquids, gases and powders.

## Global presence, local service

We are a global company with local support.

Manufacturing sites, service centres and sales offices throughout the world provide unrivalled customer services, fast delivery and ongoing, accessible support.

## Environmental Social and Governance is at the heart of our business

We have a range of policies in place that support our performance across environmental, social and governance topics. The majority of our policies are publicly available.

#### RC200 compact scotch-yoke actuators

The Rotork RC200 pneumatic actuator features a modern scotch-yoke mechanism that provides high start- and end-torque output in a very compact package. It is available in both doubleacting and spring-return configurations with an optional integral manual override.

The spring-return actuators feature epoxy-coated springs contained within an anodised cartridge. Pistons are guided in three places by high performance bearing materials which ensure proper alignment, long seal life and smooth operation.

RC200 actuators have the lowest weight and the smallest external dimensions of any actuator with an equivalent torque output. This yields a compact and light yet robust valve/actuator package, particularly when a manual override solution is required. Another benefit is that they have less stroke volume than comparable rack and pinion actuators, providing a significant saving in the use of compressed air.



#### Quality

RC200 actuators are manufactured under strict quality control in an ISO 9001 / 14000 environment. They comply with all standard international requirements and are CE marked according to PED and ATEX. We use only top-quality materials in a precisely engineered and manufactured product so our actuators are very long lasting. We are proud to provide a unique three-year warranty.



#### **Efficiency**

Unlike rack and pinion designs often offered by our competitors, the RC200 with its scotch-yoke drive gives at least 50% more torque in the end positions, where most valves require it.



#### Reliability

Every Rotork actuator is built to provide long and efficient service with a minimum of maintenance. The design, engineering and materials used in their construction ensure optimum performance even in the harshest of environments. As a global leader in valve actuation technology, we provide a comprehensive range of valve actuators, controls and associated equipment. We also supply a variety of valve actuator services including commissioning, preventive maintenance and retrofit solutions.

Rotork specialises in the production and support of fluid power actuators and control systems. We are dedicated to providing the marketplace with the latest technology, consistently high quality, innovative design, excellent reliability and superior performance.

We maintain dedicated engineering groups for Applications, Product Improvement and New Product Development so that our customers can gain all the benefits that ever advancing technologies have to offer and to ensure our efforts are in step with the continually evolving needs of our customers.

Most importantly, we have a long-standing commitment to meeting the special needs of a wide range of applications including: oil and gas exploration and transportation; municipal water and wastewater treatment; power generation; and the chemical and process industries.

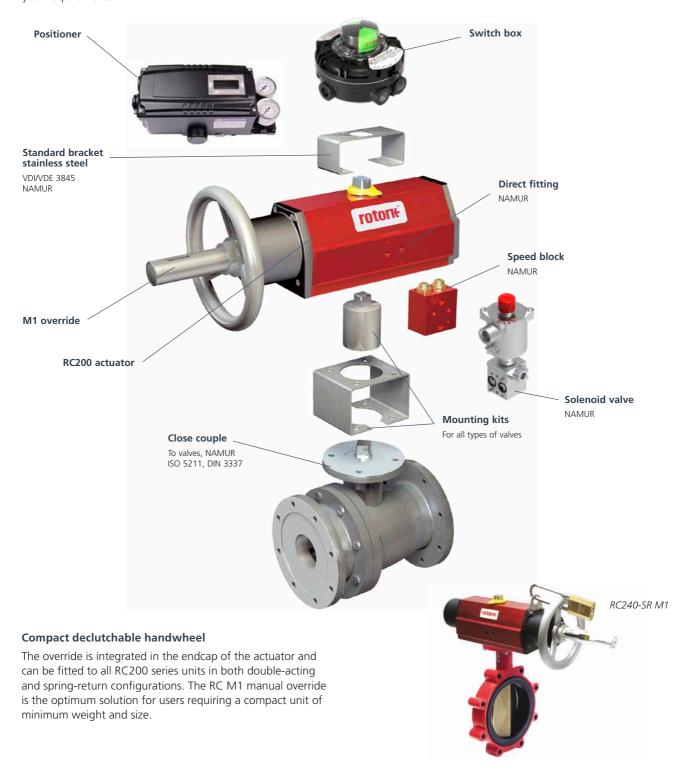
With over 60 years of engineering and manufacturing expertise, we have tens of thousands of successful valve actuator installations throughout the world.



#### **Fitting accessories**

#### The right accessory solutions

Valves and actuators perform to best effect when the correct solution is expertly engineered. With decades of experience engineering fluid power valve automation for a multitude of applications and markets, you can depend on Rotork to provide a reliable and safe automation solution to meet your requirements.



#### **Specifications**

#### **Specifications**

Operating pressure: 2-10 bar (30-145 psi) **Torque output:** Up to 4,400 Nm (39,000 lbf.in)

#### Temperature ranges (actuators remain air tight):

Standard: -20 to +75 °C  $(-4 \text{ to } +167 \text{ }^{\circ}\text{F})$ High: 0 to +150 °C (+32 to +300 °F) -40 to +60 °C (-40 to +140 °F) Low: -47 to +60 °C (-52 to +140 °F) Arctic:

Note: All RC200 actuators withstand temperatures down to -55 °C (-67 °F) [LTA -60 °C (-76 °F)] before mechanical operation is impaired.

operating temperature is +70 °C (158 °F).

#### Standards:

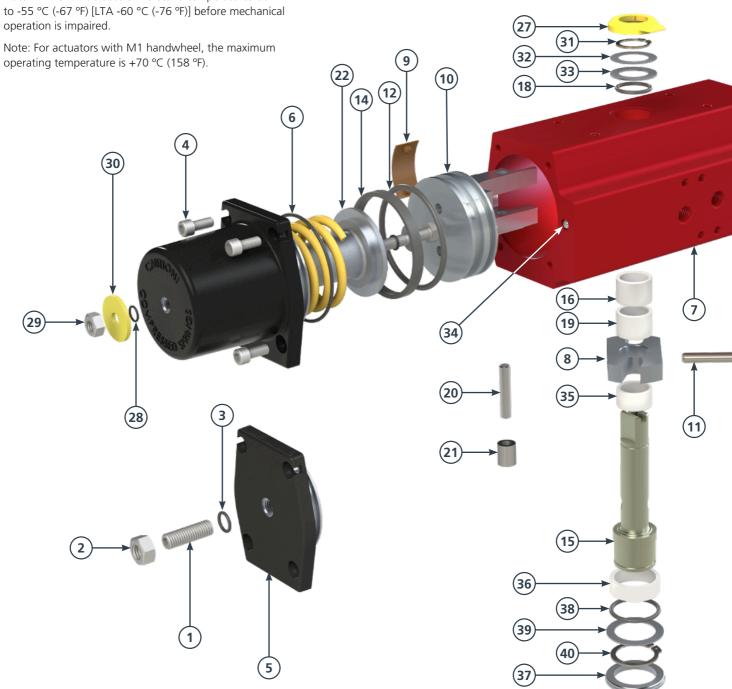
Solenoid valve connection: NAMUR

Fitting accessories: VDI/VDE 3845, NAMUR Fitting to valve: Hole pattern, centering ring ISO 5211, DIN 3337, NAMUR

Stardrive shaft: ISO 5211 with 90° □ and

DIN 79 with 45°  $\diamondsuit$  and NAMUR

Certified suitable for use at SIL 2 and SIL 3 as a single device in accordance with IEC 61508.

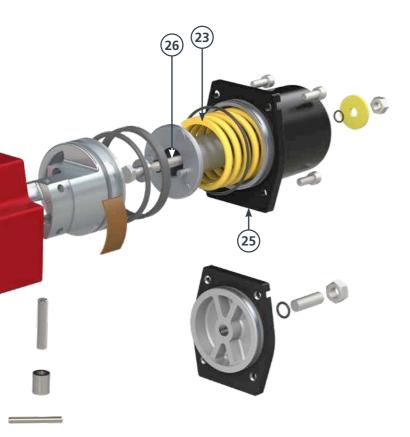


#### Inside the RC200 actuator

#### Extra corrosion protection:

RCT: hard anodise / low friction polymer treatment. Epoxy coating.

Offshore or other finish to meet customer specifications. Stainless screws and drive shaft (standard for RC210 – 260).



Notes 1) For actuator sizes 220, 240, 260 and 280: The double amount of details. 2) RC240 has triple roll pins. 3) RC270–280 have a slotted pin in steel. 4) Not in the picture. Do not exist for sizes 220, 240, 260 and 280.

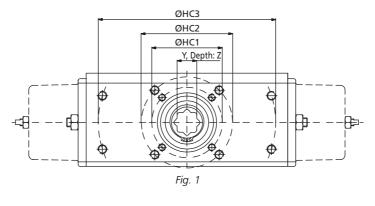
5) Only for sizes 270 and 280, not in the picture. 6) Included in seal kit.

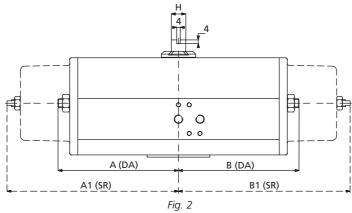
#### Operating medium:

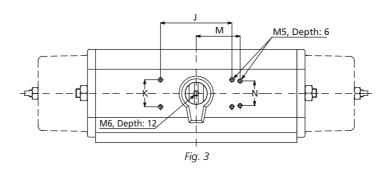
Air, inert gases (non-dangerous fluids, group 2 according to directive PED 97/23/EC). RC200 actuators are also available for water or oil hydraulics.

**CE marking:** CE marked according to PED and ATEX.

Item	Description	Qty DA	Qty SR	Material
1	Adjusting screw <sup>1</sup>	1	- -	Size 210–260: Stainless steel. Other sizes: Zinc plated steel
2	Lock nut <sup>1</sup>	1	-	Size 210–260: Stainless steel. Other sizes: Zinc plated steel
3	O-ring <sup>1,6</sup>	1	-	Nitrile
4	Screw	8-16	8-16	Size 210–260: Stainless steel. Other sizes: Zinc plated steel
5	End plate with centre hole <sup>1</sup>	1	-	Anodised and powder coated aluminium
6	O-ring <sup>6</sup>	2	2	Nitrile
7	Actuator body (cylinder)	1	1	Anodised aluminium
8	Scotch Yoke	1	1	Steel
9	Piston guide (support element) <sup>1,6</sup>	1	1	POM
10	Piston <sup>1</sup>	1	1	Aluminium
11	Roll pin, double <sup>2,3</sup>	1	1	Spring steel
12	O-ring <sup>1,6</sup>	1	1	Nitrile
14	Support band - Piston guide ring <sup>1,6</sup>	1	1	Polymer material
15	Driving shaft	1	1	Size 210–260: Stainless steel. Other sizes: Zinc plated steel
16	Bearing, upper	1	1	Polymer material
17 <sup>†</sup>	End plate without centre hole <sup>4</sup>	1	1	Powder coated aluminium
18	O-ring, upper <sup>6</sup>	1	1	Nitrile
19	Bearing, upper (support ring)	1	1	Polymer material
20	Piston pin <sup>1</sup>	1	1	Steel
21	Piston roller <sup>1</sup>	1	1	Steel
22	Spring guide <sup>1</sup>	-	1	Aluminium
23	Spring, external <sup>1</sup>	-	1	Alloyed spring steel, powder coated
24 <sup>†</sup>	Spring, internal <sup>1,5</sup>	-	1	Alloyed spring steel, powder coated
25	Spring housing <sup>1</sup>	-	1	Anodised and powder coated aluminium
26	Pre-tensioning screw <sup>1</sup>	-	1	Size 210–260: Stainless steel. Other sizes: Zinc plated steel
27	Indicator	1	1	Polymer material
28	O-ring <sup>1,6</sup>	-	1	Nitrile
29	Lock nut <sup>1</sup>	-	1	Size 210–260: Stainless steel. Other sizes: Zinc plated steel
30	Marking washer <sup>1</sup>	-	1	Anodised aluminium
31	Retaining ring, upper <sup>6</sup>	1	1	Spring steel, corrosion protected
32	Middle washer <sup>6</sup>	1	1	Stainless steel
33	Support washer, upper <sup>6</sup>	1	1	Polymer material, chemically resistant
34	Cylinder housing bore seal	1	1	Size 210-240: Stainless steel. Other sizes: Nitrile
35	Support ring, lower	1	1	Polymer material
36	Bearing, lower	1	1	Polymer material
37	Guide ring	1	1	Polymer material
38	O-ring, lower <sup>6</sup>	1	1	Nitrile
39	Support washer, lower <sup>6</sup>	1	1	Polymer material, chemically resistant
40	Retaining ring, lower <sup>6</sup>	1	1	Spring steel, corrosion protected







	Dimensions (mm)								We	Weight												
			Fig. 1				Fig. 2				Fig. 3			Fig. 4/4a				(kg)				
Model	HC 1	HC 2	HC 3	Y**	Z	А	В	A1	В1	Н		K	М	N	С			G	U*	V	DA	SR
RC210	F05	F07	-	14	19	45	98	45	150	10	35.4	35.4	40	30	32	41	75	16	35	2	1.2	1.5
RC220	F05	F07	-	14	19	98	98	150	150	10	80	30	-	-	32	41	75	16	35	2	1.6	2.2
RC230	F07	F10	-	17	30	65	135	65	200	16	80	30	-	-	49	55	110	25	55	3	3.5	4.2
RC240	F07	F10	-	22	30	135	135	200	200	16	80	30	-	-	49	55	110	25	70	3	4.9	7.0
RC250	F10	F12	-	22	37	90	190	90	285	22	80	30	-	-	69	75	155	35	70	3	9.4	12.4
RC260	F10	F12	-	27	37	190	190	285	285	22	80	30	-	-	69	75	155	35	85	3	12.5	18.5
RC265	F12	-	-	27	37	195	195	317	317	22	80	30	-	-	76	76	202	35	85	3	18.8	26.6
RC270	F14	-	170 x 110	36	64	145	300	145	510	40	130	30	-	-	110	110	248	60	100	4	32.0	45.0
RC280 <sup>†</sup>	F12	F16	234.7 x 97.2	46	64	300	300	510	510	40	130	30	-	-	110	110	248	60	130	5	42.0	68.0

 $<sup>\</sup>dagger$  = Also includes valve mounting pattern of 300 x 110.

#### **Dimensions**

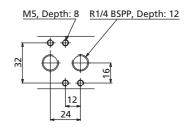
#### RC210 to 240

# M5, Depth: 8 R1/8 BSPP, Depth: 8

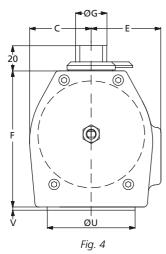
24

RC250 to 280

Hole pattern for solenoid valves acc. to VDI/VDE 3845, NAMUR



#### RC210 to 265



RC270 to 280

SV = Mounting solenoid valves acc. to VDI/VDE 3845, NAMUR

U+V = Guide ring acc. to DIN 3337

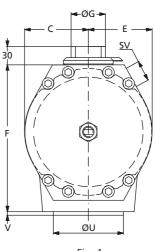
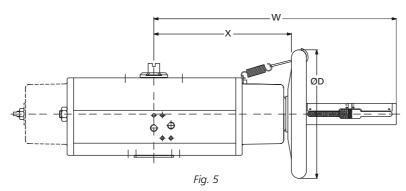


Fig. 4a



	Dime	nsions (	Weight w/M1(kg)				
		Fig. 5					
Model	D	Х	W	DA	SR		
RC210	180	145	295	2.2	2.5		
RC220	180	145	295	2.7	3.2		
RC230	180	190	345	4.8	5.3		
RC240	180	190	345	5.8	7.1		
RC250	320	295	505	13.8	15.2		
RC260	320	295	505	16.3	20.2		
RC265	320	370	600	24.3	31.0		
RC270	400	515	812	47.0	57.7		
RC280	600	490	812	55.1	80.7		

U\* = Guide ring for other hole circle on request.

Y\*\* = Tolerance H9. The hole is octagonal and adapts to valve stems with squares at either 90° (ISO 5711) or 45° (DIN 3337) orientations.

Н	ole dimens	ions (mm)	)
ISO 5211	Circle Ø	Thread	Depth
F05	50	M6	11
F07	70	M8	14
F10	102	M10	17
F12	125	M12	21
F14	140	M16	25
F16	165	M20	32
170 x 110	-	M16	25
234.7 x 97.2	-	M16	25
300 x 110	-	M16	25

#### **Performance data**

#### Air consumption DA

	Free air at 6 bar (litres)									
Model	Anti-clockwise rotation	Clockwise rotation								
RC210	0.6	1.1								
RC220	1.1	1.3								
RC230	2.2	4								
RC240	4.4	5								
RC250	6.9	13								
RC260	13.8	16								
RC265	32	36								
RC270	33	54								
RC280	66	67								

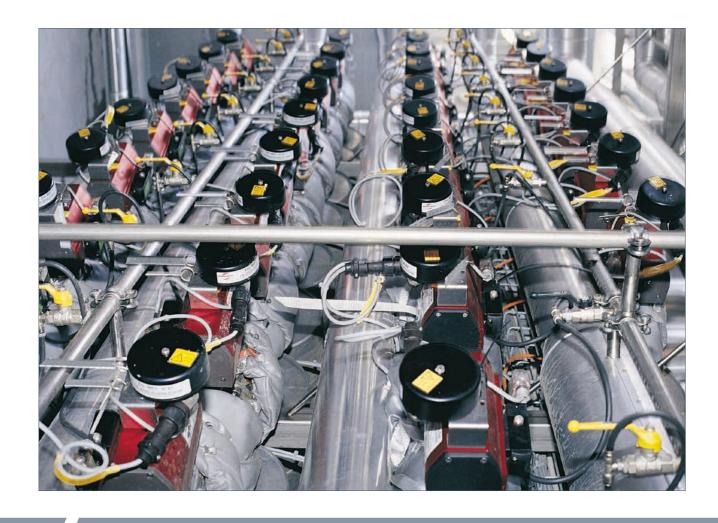
#### Air consumption SR

Free a	Free air at 6 bar (litres)								
Model									
RC210	1.1								
RC220	1.3								
RC230	4								
RC240	5								
RC250	13								
RC260	16								
RC265	36								
RC270	54								
RC280	67								

#### Operation times DA/SR

	Time at 6 bar (sec)							
Model	Anti-clockwise and clockwise rotation							
RC210	<0.3							
RC220	<0.3							
RC230	<0.6							
RC240	<0.7							
RC250	<2.5							
RC260	<2.5							
RC265	<1.5							
RC270	<5							
RC280	<5							

The times relate to full air flow and may increase depending on solenoid valves and the dimensions of connecting pipes.



## **Torque data** – double-acting

#### RC200-DA

		Position	Output torque (Nm)*							
Model	Function	0° = closed 90° = open	2.1 bar 30 psi	2.8 bar 40 psi	3.5 bar 50 psi	4.2 bar 60 psi	4.5 bar 65 psi	5.5 bar 80 psi	6 bar 87 psi	7 bar 100 psi
RC210	Air open/close	0°	13 6	17 8	21 10	25 12	27 13	35 17	38 19	44 22
RC220	Air open/close	90° 60° 90°	9 26 13 18	12 34 17 24	15 42 21 30	18 51 25 36	19 55 27 39	25 70 35 50	27 76 38 54	32 88 44 63
RC230	Air open/close	60° 90°	48 24 35	64 31 46	80 39 57	96 47 69	103 50 74	133 66 96	145 72 105	165 83 120
RC240	Air open/close	0° 60° 90°	98 49 70	130 65 93	162 81 117	195 97 140	209 104 150	266 133 193	290 145 210	340 170 240
RC250	Air open/close	0° 60° 90°	150 75 108	200 100 143	250 125 179	300 150 215	321 161 230	413 206 293	450 225 320	530 260 380
RC260	Air open/close	0° 60° 90°	305 150 220	407 200 293	508 250 367	610 300 440	654 321 471	834 422 596	910 460 650	1,070 530 770
RC265	Air open/close	0° 60° 90°	432 203 307	576 271 409	720 338 512	864 406 614	926 435 658	1,188 556 844	1,296 606 921	1,512 711 1,075
RC270	Air open/close	0° 60° 90°	630 315 455	840 420 607	1,050 525 758	1,260 630 910	1,350 675 975	1,733 862 1,247	1,890 940 1,360	2,200 1,100 1,590
RC280	Air open/close	0° 60° 90°	1,270 635 915	1,693 847 1,220	2,117 1,058 1,525	2,540 1,270 1,830	2,721 1,361 1,961	3,483 1,742 2,512	3,800 1,900 2,740	4,450 2,220 3,190

<sup>\*</sup> Output torque +/- 5%.

### **Torque data** – spring-return (spring to close)

#### RC200-SR

		Position			Outp	out torque (	Nm)*		
Model	Function	0° = closed 90° = open	2.1 bar 30 psi	2.8 bar 40 psi	3.5 bar 50 psi	4.2 bar 60 psi	5.5 bar 80 psi	6 bar 87 psi	7 bar 100 psi
	Air	0° 60°	7	9 4	12 5	14 6	19 8	20 9	24 10
RC210		90°	4	5	6	7.5	10	11	13
	Spring	90° 30°	6	8 4	10 5	12 6	16 8	18 9	21 10
	Spring	0°	4	6	7	8.5	11	12	14
		0°	15	19	24	29	39	41	48
	Air	60°	6	8	10	12	16	18	21
RC220		90°	8 13	10 17	12 21	15 25	20 33	22 37	26 43
	Spring	30°	6	8	10	12	16	18	21
		0°	9	11	14	17	23	25	29
		0°	27	36	45	54	72	78	92
	Air	60° 90°	12 15	15	19	23 29	31	33 41	39 48
RC230		90°	24	19 31	24 39	47	39 63	69	81
	Spring	30°	12	15	19	23	31	33	39
	, ,	0°	17	22	27	33	44	47	55
		0°	55	73	92	110	147	158	185
	Air	60° 90°	24	31	39	47	63	68	80 98
RC240		90°	29 48	39 64	48 80	58 96	77 128	84 140	163
	Spring	30°	24	31	39	47	63	68	80
		0°	33	44	55	66	88	96	115
		0°	85	113	142	170	227	245	290
	Air	60°	37	49	62	74	99	105	125
RC250	Spring	90°	45 75	60 100	75 125	90 150	120 200	130 215	155 255
		30°	37	49	62	74	99	105	125
	, ,	0°	50	67	83	100	133	150	175
		0°	173	230	287	345	460	500	580
	Air	60° 90°	75 90	100	125	150	200	215	250
RC260		90°	153	120 203	150 254	180 305	240 407	265 440	310 515
	Spring	30°	75	100	125	150	200	215	250
	, ,	0°	105	140	175	210	280	305	350
		0°	280	373	467	560	671	730	935
	Air	60° 90°	113 125	150 167	187 208	225 250	280 303	305 330	360 425
RC265		90°	210	280	350	420	560	610	695
	Spring	30°	103	137	171	205	273	330	355
		0°	153	203	254	305	407	440	525
		0°	355	473	592	710	947	1,030	1,210
	Air	60° 90°	155 190	207 253	258 317	310 380	413 507	440 550	520 640
RC270		90°	315	420	525	630	840	910	1,060
	Spring	30°	155	207	258	310	413	440	520
		0°	215	287	358	430	573	620	720
		0°	715	953	1,192	1,430	1,907	2,080	2,430
	Air	60° 90°	310	413	517	620	827	900	1,050
RC280		90°	380 635	507 847	633 1,058	760 1,270	1,013 1,693	1,110 1,840	1,290 2,150
	Spring	30°	310	413	517	620	827	900	1,050
		0°	435	580	725	870	1,160	1,260	1,470

<sup>\*</sup> Output torque +/- 5%.

Note: Springs adapted to air supply pressure.

## **Torque data** – spring-return (spring to open)

#### RC200-SRF

		Position			Outp	ut torque (	Nm)*		
Model	Function	0° = closed 90° = open	2.1 bar 30 psi	2.8 bar 40 psi	3.5 bar 50 psi	4.2 bar 60 psi	5.5 bar 80 psi	6 bar 87 psi	7 bar 100 psi
25040	Spring	0° 60°	7 2.6 3	9.6 3.6 4.3	12 4.6 5.5	15 5.5 6.6	20 7.5 9	21 7.8 10	25 9 11.5
RC210	Air	90° 45° 0°	5.2 2.8 4.5	7.2 3.8 6.2	9 4.9 8	11 6 10	15 8 13	16.2 9 14.3	19 10.1 17.2
DC222	Spring	0°	14 5.3 6.7	20 7.2 9	25 9 12	30 11 14	41 15 19	43 15.5 20	50 18 23
RC220	Air	90° 45° 0°	11 5.6 9.4	14 7.7 13	18 9.8 16	22 12 20	30 16 27	33 18 30	38 21.5 34.5
	Spring	0° 60° 90°	27 9.8 12	37 13 16	47 17 21	57 21 25	77 28 34	84 30 38	93 33 40
RC230	Air	90° 45° 0°	21 11 17	29 15 23	37 19 29	44 23 36	60 31 48	62 33 51.5	75 41 66
	Spring	0°	56 20 25	77 27 34	98 35 43	118 42 52	160 57 70	180 65 80	190 68 82
RC240	Air	90° 45° 0°	42 22 35	58 31 48	73 39 61	89 47 74	120 64 100	123 66 112	155 84 135
	Spring	0° 60° 90°	84 30 37	115 42 50	145 53 64	175 64 78	240 87 105	265 96 120	305 112 130
RC250	Air	90° 45° 0°	65 34 54	89 47 74	110 60 98	135 73 115	185 98 155	195 104 160	225 123 195
	Spring	0° 60°	175 63	240 86	300 110	370 135	500 180	540 195	620 220
RC260	Air	90° 45°	77 135 70	105 185 96	135 230 120	160 280 150	220 385 200	245 400 210	280 465 250
	Spring	0° 60°	110 251 123	150 335 154	190 419 175	230 500 188	315 670 260	730 300	395 850 360
RC265	Air	90° 90° 45°	113 188 101	150 250 135	188 313 169	225 375 200	300 500 260	325 525 290	375 620 335
	Spring	0° 60° 90°	158 350 130 155	210 480 175 210	263 620 2,220 270	315 750 270 320	400 1,010 365 440	445 1,100 400 480	525 1,250 450 550
RC270	Air	90° 45° 0°	270 145 230	370 195 310	470 250 390	570 300 480	770 410 645	830 430 680	1,000 540 810
	Spring	0° 60°	730 260 320	1,000 360 440	1,270 460 560	1,540 550 680	2,080 750 920	2,250 780 1,000	2,500 820 1,100
RC280	Air	90° 45° 0°	560 290 460	770 400 630	980 510 805	1,180 620 980	1,600 835 1,320	1,700 1,700 900 1,380	2,000 1,100 1,700

<sup>\*</sup> Output torque +/- 5%.

Note: Springs adapted to air supply pressure.

#### **Rotork Site Services**

Rotork understands the value of prompt, punctual and superior site services. Rotork Site Services have specialist expertise, insight and experience in service support for mission-critical flow control and instrumentation solutions for oil and gas, water and wastewater, power, chemical process and industrial applications. We offer global frontline support backed by dedicated in- house experts.

Our service solutions increase plant efficiency and reduce maintenance costs, while workshop services return equipment to as-new condition. Our experience and understanding of the flow control industry means we have extensive insight and ideas of what we can do to provide significant value to our customers and their operations.

Rotork Site Services is comprised of two main areas; Lifetime Management and Site Services. Lifetime Management is the suite of services within Rotork Site Services which help you manage the risk associated with aging assets and includes our Reliability Services offering. Site Services comprises essential actuator service, repair, maintenance and upgrades.

Rotork has specialist expertise, insight and experience in flow control.

We provide insight into how we can deliver value to our customers.

Our service solutions increase plant efficiency and reduce maintenance costs.



#### **Rotork Site Services**

#### **Lifetime Management**

The services available within Lifetime Management offer a complete solution to managing the risks associated with the life cycle of your equipment and their obsolescence (which compromise reliable performance and valuable uptime).

The aim of Lifetime Management is to provide you with constant support and minimum- to- no disruption to your production flow. It is a customisable service, offering designed to seamlessly maintain and improve your assets. We manage the inherent risks associated with advances in technology, component obsolescence and ageing equipment for you. We are committed to helping customers maximise the continuous, fault-free operation and working life of their actuators. Supporting the continuous and reliable operation of your plant allows for improved performance and increases in valuable uptime.

#### **Lifetime Management covers:**

- Reliability Services
  - Basic health check
  - Standard planned maintenance
  - Premium enhanced maintenance
- Upgrade services (retrofit)
- Planned shutdown support
- Life cycle services
- Overhauls/refurbishment
- Customised spares programme
- Intelligent Asset Management (iAM) reporting

#### **Site Services**

Rotork Site Services (RSS) provides the essential on-site actuator service, repair, maintenance and upgrades part of our service offering, plus the commissioning of new actuators and applications. It includes off-site work completed at a Rotork Support Centre including recertification, automation, testing and product selection.

Our decades of experience in the industrial actuation and flow control markets means that customers can rely on us to understand their problems and to deliver reliable, economic solutions. Rotork's talented and experienced engineers have an in-depth understanding of the problems that are faced in the field and they know how to fix them.

On sites where providing evidence of valid asset certification is a legal requirement, Rotork engineers can carry out the necessary OEM level inspections and provide the statutory paperwork to comply with regulations.

- Field support
- Planned shutdown support
- Actuator workshop overhaul
- Valve automation services
  - On-site
  - Off-site
- Global support









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