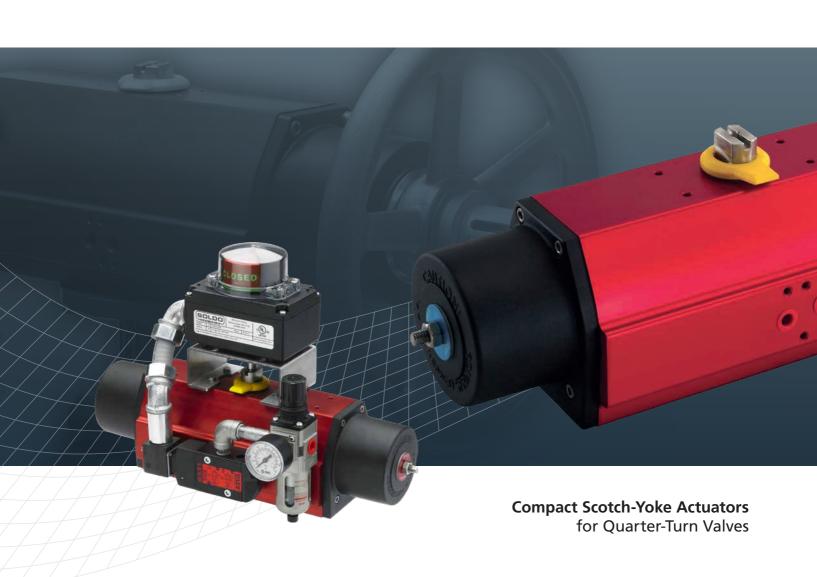


Keeping the World Flowing for Future Generations

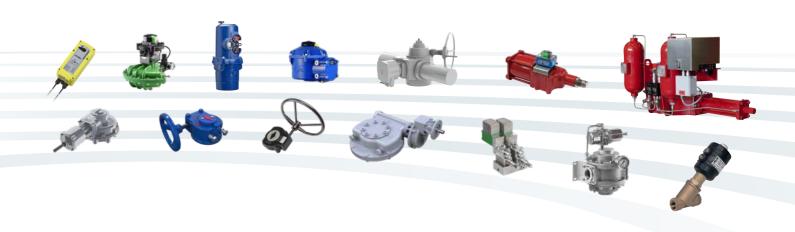


RC200 Range



rotork®

Reliability in critical flow control applications



Reliable operation when it matters

Assured reliability for critical applications and environments.

Whether used 24/7 or infrequently, Rotork products will operate reliably and efficiently when called upon.

Quality-driven global manufacturing

Products designed with 60 years of industry and application knowledge.

Research and development across all our facilities ensures cutting edge products are available for every application.

Customer-focused service worldwide support

Solving customer challenges and developing new solutions.

From initial enquiry through to product installation, long-term after-sales care and Client Support Programmes (CSP).

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
Specifications	6	Client Support and Site Services	14
Inside The RC200 Actuator	7		



Comprehensive product range serving multiple industries

Improved efficiency, assured safety and environmental protection.

Rotork products and services are used throughout industry inclusive of Power, Oil & Gas, Water & Wastewater, HVAC, Marine, Mining, Pulp & Paper, Food & Beverage, Pharmaceutical and Chemical industries around the world.

Market leader technical innovator

The recognised market leader for 60 years.

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

Global presence local service

Global company with local support.

Manufacturing sites, service centres, sales offices and *Centres of Excellence* throughout the world provide unrivalled customer services and fast delivery.

Corporate social responsibility

A responsible business leads to being the best business.

We are socially, ethically, environmentally responsible and committed to embedding CSR across all our processes and ways of working.

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.

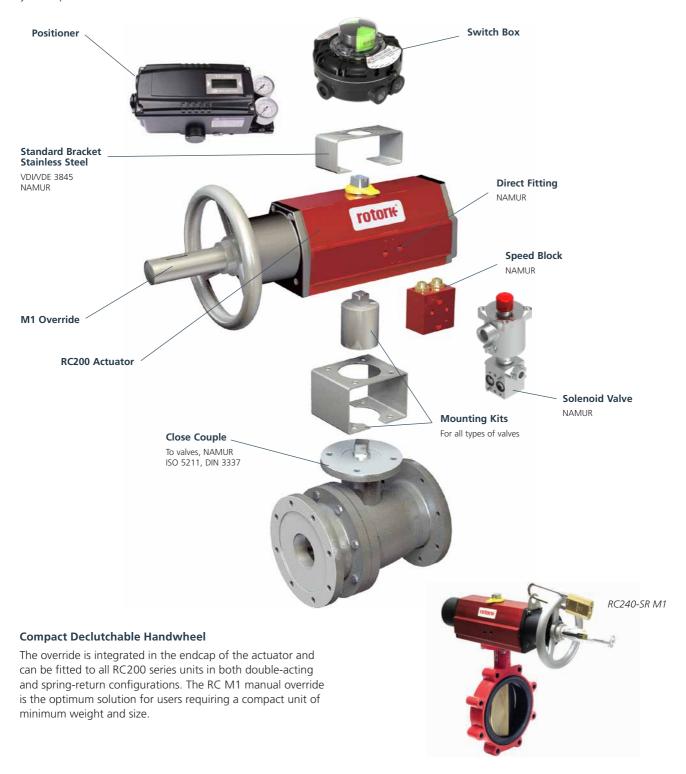
With over 60 years of engineering and manufacturing expertise, we have tens of thousands of successful valve actuator installations throughout the world.



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 +80 °C
 (-4 to +175 °F)

 High:
 0 to +150 °C
 (+32 to +300 °F)

 Low:
 -40 to +60 °C
 (-40 to +140 °F)

 Arctic:
 -47 to +60 °C
 (-52 to +140 °F)

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

Standards:

Solenoid valve connection: NAMUR

Fitting accessories: VDI/VDE 3845, NAMUR
Fitting to valve: Hole pattern, centering ring

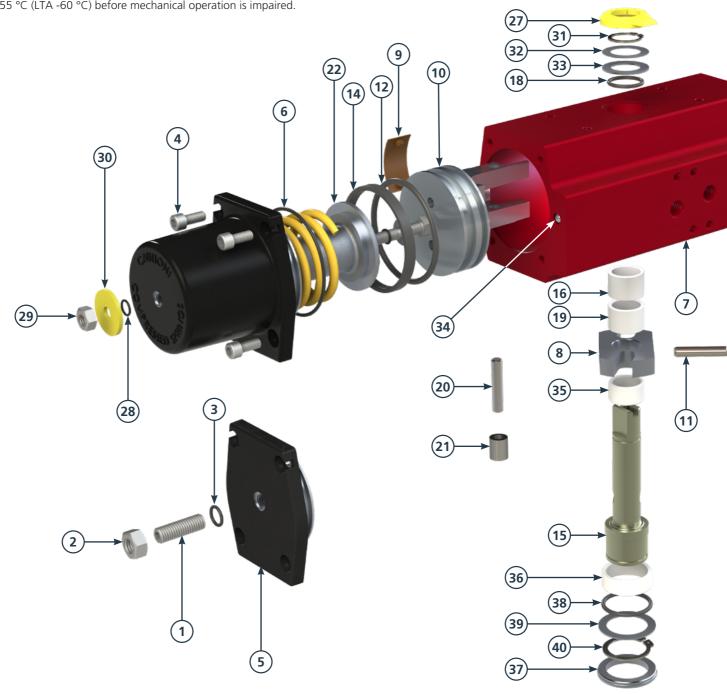
ISO 5211, DIN 3337, NAMUR

Stardrive shaft: ISO 5211 with 90° \square 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.

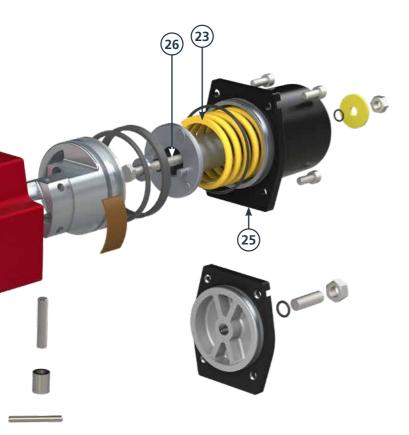


Inside The RC200 Actuator

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.

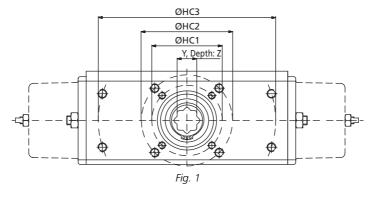
† Not shown in diagram

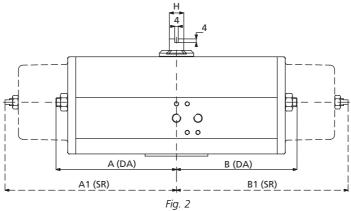
Operating Medium:

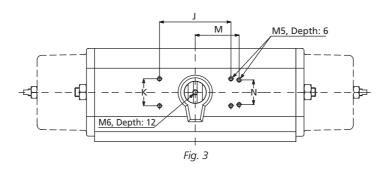
Air, inert gases (non-dangerous fluids, group 2 according to directive PED 97/23/EC). RC200 actuators are also available for water or oil hydraulics.

CE Marking: CE marked according to PED and ATEX.

ce marked according to 125 and 71127.							
Item	Description	Qty DA	Qty SR	Material			
1	Adjusting screw ¹	1	-	Size 210–260: Stainless steel. Other sizes: Zinc plated steel			
2	Lock nut ¹	1	-	Size 210–260: Stainless steel. Other sizes: Zinc plated steel			
3	O-ring ^{1,6}	1	-	Nitrile			
4	Screw	8-16	8-16	Size 210–260: Stainless steel. Other sizes: Zinc plated steel			
5	End plate with centre hole ¹	1	-	Anodised and powder coated aluminium			
6	O-ring ⁶	2	2	Nitrile			
7	Actuator body (cylinder)	1	1	Anodised aluminium			
8	Scotch Yoke	1	1	Steel			
9	Piston guide (support element) ^{1,6}	1	1	POM			
10	Piston ¹	1	1	Aluminium			
11	Roll pin, double ^{2,3}	1	1	Spring steel			
12	O-ring ^{1,6}	1	1	Nitrile			
14	Support band - Piston guide ring ^{1,6}	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 [†]	End plate without centre hole ⁴	1	1	Powder coated aluminium			
18	O-ring, upper ⁶	1	1	Nitrile			
19	Bearing, upper (support ring)	1	1	Polymer material			
20	Piston pin ¹	1	1	Steel			
21	Piston roller ¹	1	1	Steel			
22	Spring guide	-	1	Aluminium			
23	Spring, external ¹	-	1	Alloyed spring steel, powder coated			
24 [†]	Spring, internal ^{1,5}	-	1	Alloyed spring steel, powder coated			
25	Spring housing ¹	-	1	Anodised and powder coated aluminium			
26	Pre-tensioning screw ¹	-	1	Size 210–260: Stainless steel. Other sizes: Zinc plated steel			
27	Indicator	1	1	Polymer material			
28	O-ring ^{1,6}	-	1	Nitrile			
29	Lock nut ¹	-	1	Size 210–260: Stainless steel. Other sizes: Zinc plated steel			
30	Marking washer ¹	-	1	Anodised aluminium			
31	Retaining ring, upper ⁶	1	1	Spring steel, corrosion protected			
32	Middle washer ⁶	1	1	Stainless steel			
33	Support washer, upper ⁶	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 ⁶	1	1	Nitrile			
39	Support washer, lower ⁶	1	1	Polymer material, chemically resistant			
40	Retaining ring, lower ⁶	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	Е		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 [†]	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

 $[\]dagger$ = Also includes valve mounting pattern of 300 x 110.

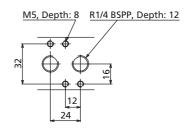
Dimensions

RC210 to 240

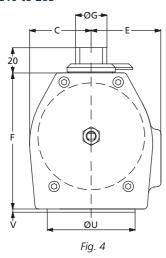
M5, Depth: 8 R1/8 BSPP, Depth: 8 R1/8 BSPP, Depth: 8 R1/8 BSPP, Depth: 8

RC250 to 280

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



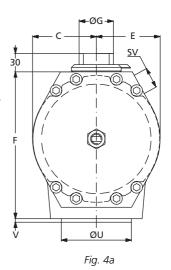
RC210 to 265

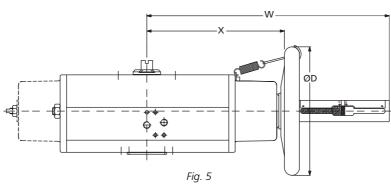


RC270 to 280

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

U+V = Guide ring acc. to DIN 3337





	Dime	nsions (We	ight	
		Fig. 5	w/M1 (kg		
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.

Hole Dimensions (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	32						
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								

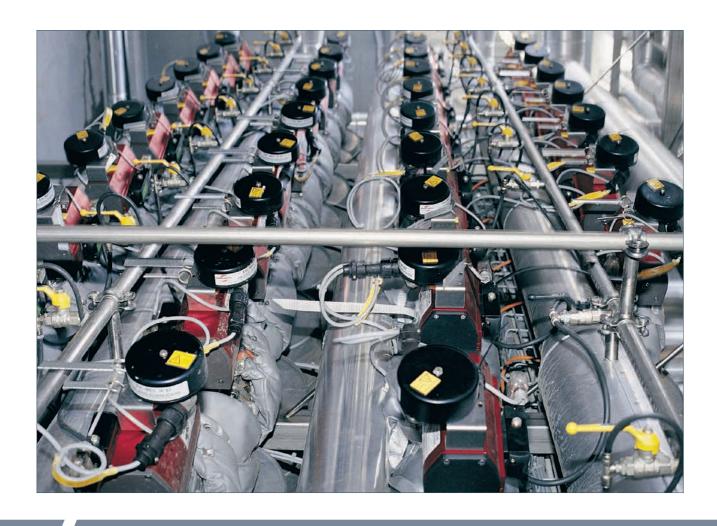
Air Consumption SR

Free 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° 60° 90°	13 6 9	17 8 12	21 10 15	25 12 18	27 13 19	35 17 25	38 19 27	44 22 32
RC220	Air open/close	0° 60° 90°	26 13 18	34 17 24	42 21 30	51 25 36	55 27 39	70 35 50	76 38 54	88 44 63
RC230	Air open/close	0° 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°	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°	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

^{*} Output torque +/- 5%.

Torque Data – Spring-Return (spring to close)

RC200-SR

		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
0.5040	Air	0°	7 3 4	9 4 5	12 5 6	14 6 7.5	19 8 10	20 9 11	24 10 13
RC210	Spring	90°	6 3 4	8 4 6	10 5 7	12 6 8.5	16 8 11	18 9 12	21 10 14
	Air	0°	15 6 8	19 8 10	24 10 12	29 12 15	39 16 20	41 18 22	48 21 26
RC220	Spring	90°	13 6 9	17 8 11	21 10 14	25 12 17	33 16 23	37 18 25	43 21 29
	Air	0° 60° 90°	27 12 15	36 15 19	45 19 24	54 23 29	72 31 39	78 33 41	92 39 48
RC230	Spring	90°	24 12 17	31 15 22	39 19 27	47 23 33	63 31 44	69 33 47	81 39 55
	Air	0° 60°	55 24 29	73 31 39	92 39 48	110 47 58	147 63 77	158 68 84	185 80 98
RC240	Spring	90°	48 24 33	64 31 44	80 39 55	96 47 66	128 63 88	140 68 96	163 80 115
	Air	0° 60° 90°	85 37 45	113 49 60	142 62 75	170 74 90	227 99 120	245 105 130	290 125 155
RC250	Spring	90° 30°	75 37	100 49	125 62	150 74	200 99	215 105	255 125
	Air	0° 0° 90°	50 173 75 90	230 100	287 125	100 345 150	133 460 200	150 500 215	175 580 250
RC260	Spring	90° 30°	153 75	120 203 100	150 254 125	305 150	240 407 200	265 440 215	310 515 250
	Air	0° 60°	105 280 113	140 373 150	175 467 187	210 560 225	280 671 280	305 730 305	350 935 360
RC265	Spring	90° 90°	125 210 103	167 280 137	208 350 171	250 420 205	303 560 273	330 610 330	425 695 355
	Air	0° 60°	153 355 155	203 473 207	254 592 258	305 710 310	947 413	1,030 440	525 1,210 520
RC270	Spring	90° 90°	190 315 155	253 420 207	317 525 258	380 630 310	507 840 413	550 910 440	1,060 520
	Air	0° 60°	215 715 310	287 953 413	358 1,192 517	430 1,430 620	573 1,907 827	620 2,080 900	720 2,430 1,050
RC280	Spring	90° 90°	380 635 310 435	507 847 413 580	633 1,058 517 725	760 1,270 620 870	1,013 1,693 827 1,160	1,110 1,840 900 1,260	1,290 2,150 1,050 1,470

^{*} 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
	Spring	90° 60° 0°	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
	Spring	90° 60° 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°	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° 60°	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°	42 22	58 31	73 39	89 47	120 64	123 66	155 84
	Spring	0° 0°	35 84 30	48 115 42	61 145 53	74 175 64 78	100 240 87 105	97 265 96	135 305 112
RC250	Air	90° 45°	37 65 34	50 89 47	110 60	135 73	185 98	120 195 104	130 225 123
	Spring	0° 0°	54 175 63	74 240 86	98 300 110	115 370 135	155 500 180	160 540 195	195 620 220
RC260	Air	90° 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° 0° 90°	158 350 130	480 175	263 620 2,220	315 750 270	1,010 365	1,100 400	525 1,250 450
RC270	Air	90° 45°	155 270 145	210 370 195	270 470 250	320 570 300	770 410	480 830 430	550 1,000 540
	Spring	0° 0° 60°	230 730 260	310 1,000 360	390 1,270 460	480 1,540 550	2,080 750	680 2,250 780	2,500 820
RC280	Air	90° 90° 45° 0°	320 560 290 460	440 770 400 630	560 980 510 805	680 1,180 620 980	920 1,600 835 1,320	1,000 1,700 900 1,380	1,100 2,000 1,100 1,700

^{*} Output torque +/- 5%.

Note: Springs adapted to air supply pressure.

Client Support and Site Services

rotork®

Rotork products are recognised as the best-in-class for reliability and safety in the most demanding applications. To maintain this hard-earned leadership position, Rotork is committed to helping clients maximise the continuous, fault-free operation and working life of all their actuators.

With established worldwide service centres we are able to offer same-day or next-day service to the majority of our customers. Our Rotork factory trained engineers have skills in both multi-purpose and industry specific applications and carry spare parts and specialist test equipment with them. Our operations utilise a documented Quality Management system established in accordance with ISO9001.

Rotork aims to be your number one choice for taking care of fault diagnosis, service repairs, scheduled maintenance and system integration needs.

See PUB056-013 for further details.

Rotork has expertise and specialist knowledge of every aspect of flow control.

Our service solutions increase plant efficiency and reduce maintenance costs.

Workshop services return equipment to as-new condition.



Client Support and Site Services

Global Service and Support

Rotork understand the value of prompt and punctual customer site services and aim to supply our customers with superior flow control solutions, by providing high quality, innovative products and superior service – *on time, every time.*

Whether you have an actuator requiring on-site servicing, a custom design service requirement or a new actuator installation, we can deliver the fastest turnaround with the least plant disruption.

Accreditation and Assurance

Rotork is accredited with all major safety authorities around the world, providing our clients with reassurance and peace of mind.

Rotork's engineering teams are experts in the design and implementation of actuation solutions for all circumstances and environments. Our knowledge base draws upon previous installations and environmental situations from all around the world.

Our track record of undertaken engineering projects is second to none. Rotork is trusted by major utility and industrial companies throughout the world to design, install and maintain their actuation stock. We keep their plants operating at peak efficiency, helping them to be more profitable and at the same time meet ever tightening industry watchdog requirements.

We have the knowledge and expertise to design, build and install any standard or custom installation for you, anywhere throughout the world.

Asset Management

Rotork is a corporate member of the Institute of Asset Management, the professional body for whole life management of physical assets.



Giving You Peace of Mind, Guaranteed Quality and Improving Your Site Efficiency





Actuator Workshop Overhaul

- Supporting all Rotork and non-Rotork products
- Workshop facilities including torque testing and re-coating
- Large OEM stock in all workshops
- · Fully trained and experienced service engineers
- Fleet of well stocked service vehicles
- Loan actuator facilities

Field Support

- Site repairs
- Commissioning
- Upgrades
- Fault finding
- Maintenance
- Call-out
- Fully equipped service vehicles

Rotork Client Support Programme (CSP)

- Enables users to select a level of service precisely tailored for their individual asset management requirements
- Designed to provide the maximum reliability and availability of actuators over the life of the product – thereby improving production throughput
- Designed to reduce the cost of maintenance year on year
- Designed to allow customers to manage the problem of 'Risk vs Budget' in maintenance operations
- Designed to be flexible you choose the level of cover you want
- Reports generated on agreed frequency to demonstrate cost savings and performance improvements

Turnaround, Shutdown and Outage Support

- Preventative maintenance
- Full on-site overhaul and testing facilities
- OEM spares and support
- Support for Rotork and non-Rotork products
- Commissioning support to achieve shutdown time targets
- Project management and supervision of your plant overhaul and return to service dates

Valve Automation Centres

- On Site Manual Valve Automation
- On Site Actuator Replacement
- Off Site New Valve Automation





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