

rotork[®]

RC200 Range



**Compact Scotch-Yoke Actuators
for Quarter-Turn Valves**

Keeping the World Flowing

rotork®

Keeping the World Flowing



› **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.

› **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).

› **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.

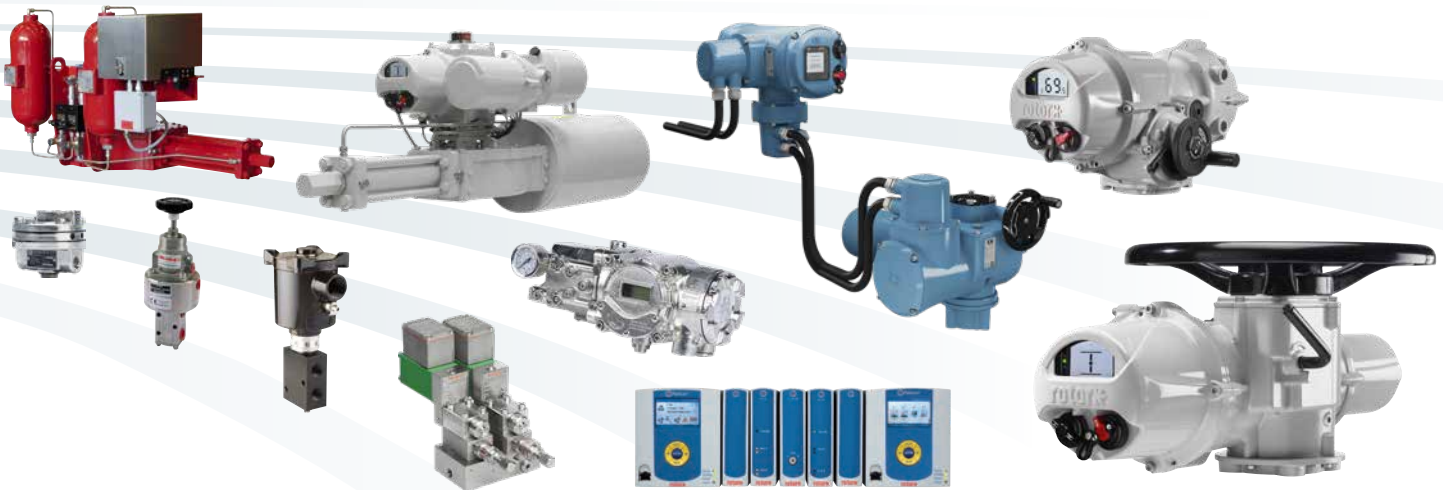
› **Low cost** of ownership

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 |
|---------------------------------------|------|----------------------------------|------|
| Rotork Actuators – Quality Controlled | 4 | Dimensions | 8 |
| 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.

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.

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.

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.

Rotork Actuators – Quality Controlled

Since the company was founded in 1957, Rotork has become the standard for excellence in the field of valve and damper automation for the oil, gas, power, water and waste treatment industries around the world.

As established leaders in actuation technology, we owe our success to a commitment to quality at every stage, and at every level, of Rotork's operations.

At the heart of the company is an exceptional workforce – the highly trained, forward thinking engineers, technicians, and sales support staff who each play a crucial role in maintaining Rotork's unrivaled reputation for innovation, reliability and first class after sale support.

With several fluid power factories and additional *Centres of Excellence* located around the globe, we are able to offer creative solutions and design systems for virtually any application – from subsea hydraulics to the most sophisticated yet simple fluid power control system.

Contact Rotork for your operational or safety application requirements. We will work with you from conception, to design, to manufacture, to installation, and finally to maintenance and service support.



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 double-acting and spring-return configurations with an optional integral manual override. Spring-return actuators feature springs that are safely contained within an epoxy-coated cartridge. Pistons are guided in two places by high-performance bearings which ensure proper alignment and long seal life.

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 & 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.

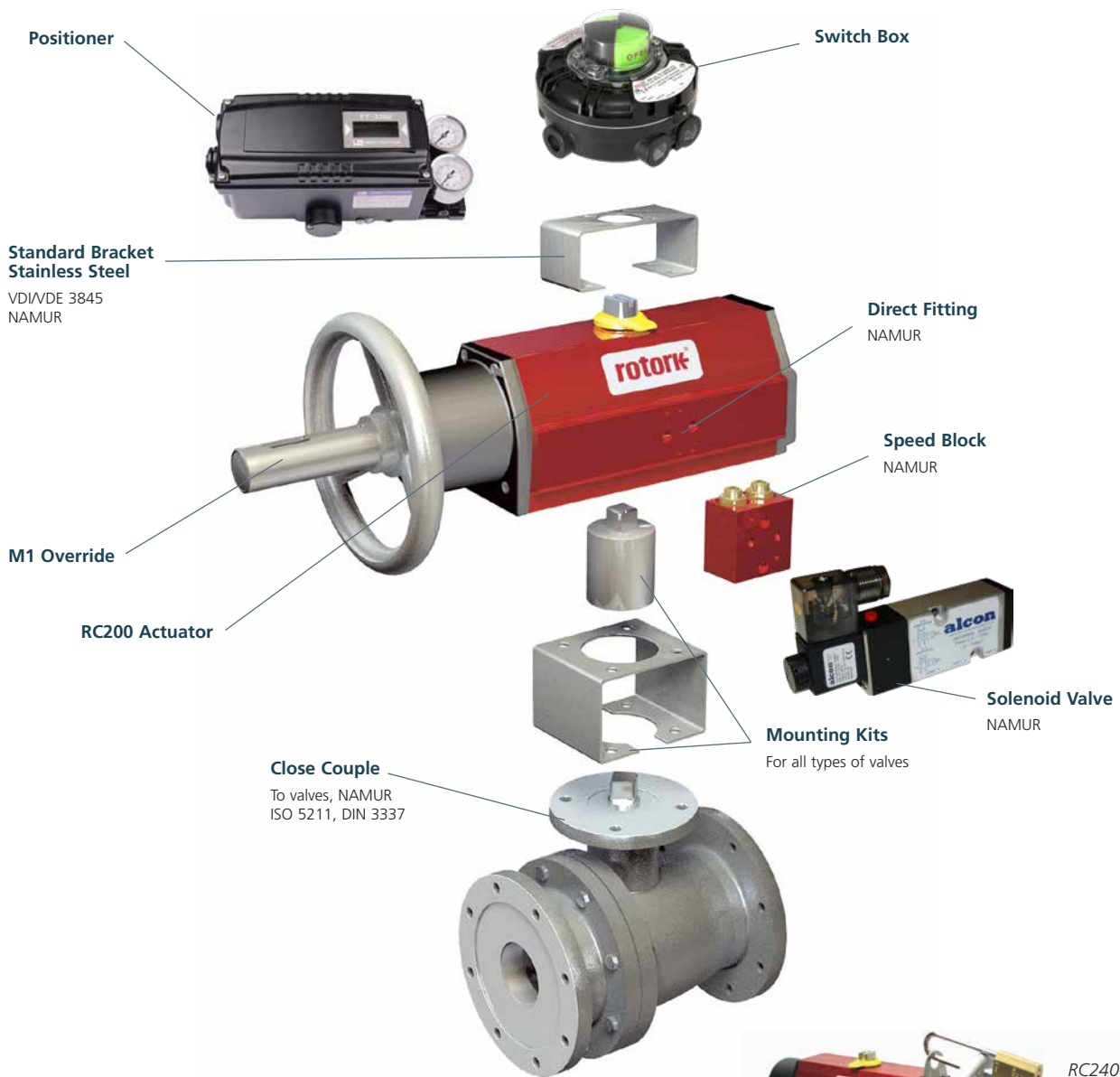
Reliability

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.

Fitting Accessories

The Right Accessory Solutions

Valves and actuators only perform as well as the solution is 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.



Compact Declutchable Handwheel

The override is integrated in the endcap of the actuator and can be fitted to all RC200 series units in both double-acting and spring-return configurations. The RC M1 manual override is the optimum solution for users requiring a compact unit of minimum weight and size.



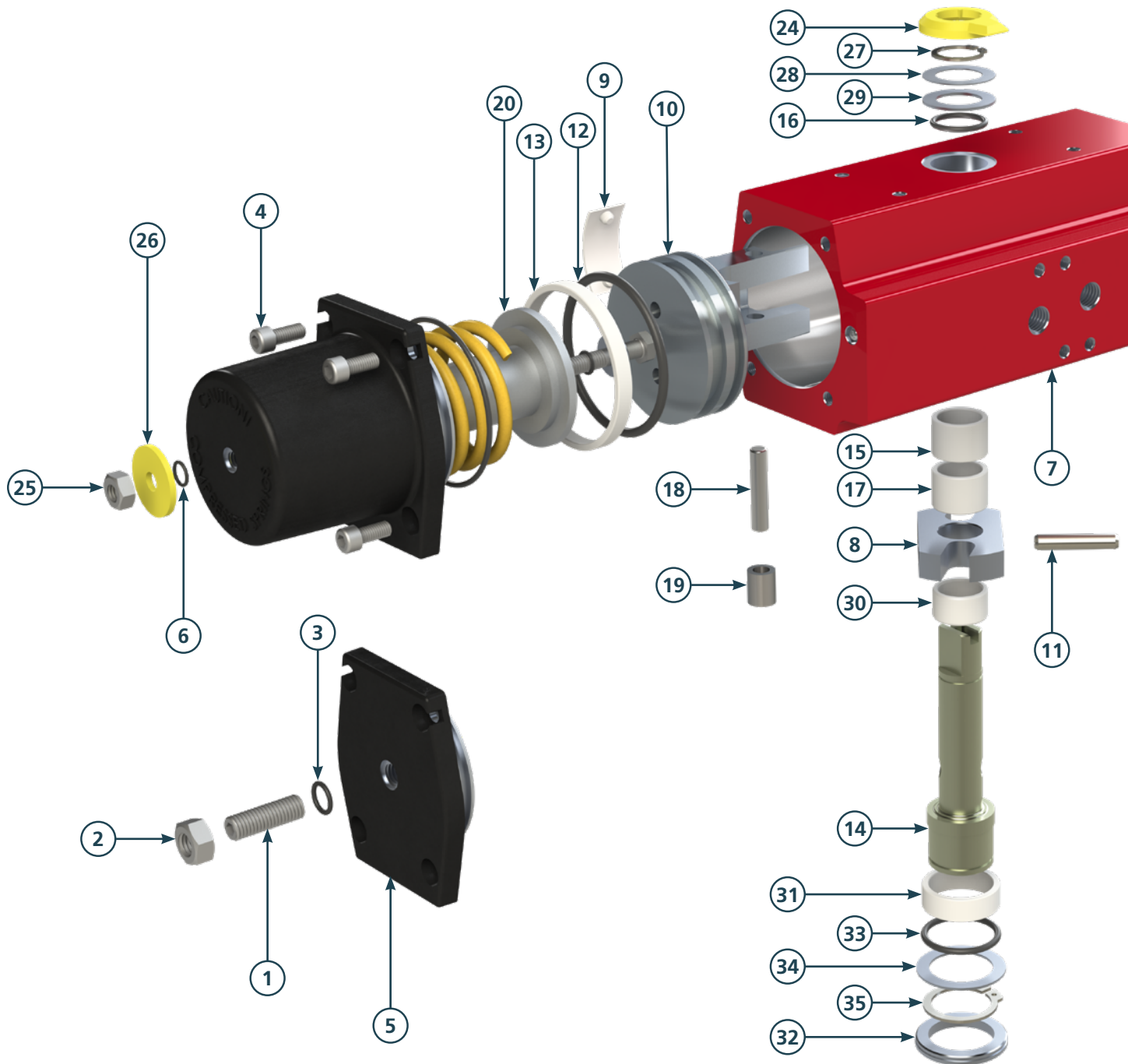
Specifications

Specifications

| | | |
|----------------------------|----------------|------------------|
| Operating Pressure: | 2-10 bar | (30-145 psi) |
| Torque Output: | Up to 4,400 Nm | (39,000 lbf.in) |
| Temperature Ranges: | | |
| 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 +80 °C | (-52 to +175 °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° ◇ and NAMUR |
| Certified suitable for use at SIL 2 & 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.

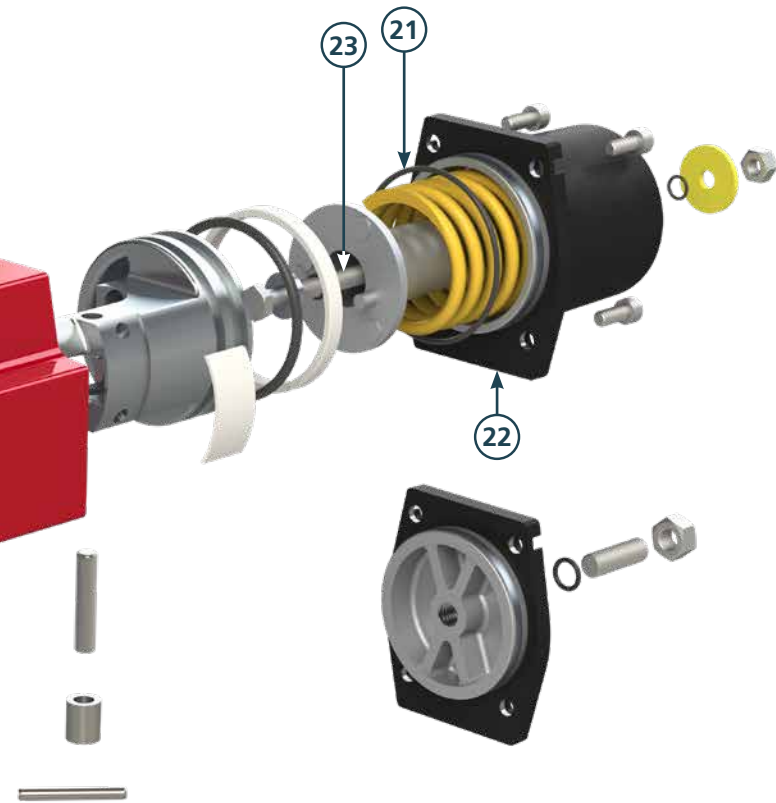
Offshore or other finish to meet customer specifications.

Stainless screws and drive shaft (standard for RC210 – 260).

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 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 ¹ | 1 | - | Powder coated anodised aluminium |
| 6 | O-ring ⁶ | 2 | 2 | Nitrile |
| 7 | Actuator body | 1 | 1 | Anodised aluminium |
| 8 | Scotch Yoke | 1 | 1 | Steel |
| 9 | Piston guide blick ^{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 |
| 13 | Piston guide ring ^{1,6} | 1 | 1 | Polymer material |
| 14 | Driving shaft | 1 | 1 | Size 210–260: Stainless steel. Other sizes: Zinc plated steel |
| 15 | Bearing, upper | 1 | 1 | Polymer material |
| 16 | O-ring, upper ⁶ | 1 | 1 | Nitrile |
| 17 | Bearing, upper | 1 | 1 | Polymer material |
| 18 | Piston pin ¹ | 1 | 1 | Steel |
| 19 | Piston roller ¹ | 1 | 1 | Steel |
| 20 | Spring guide | - | 1 | Aluminium |
| 21 | Spring | - | 1 | Alloyed spring steel |
| 22 | Spring housing ¹ | - | 1 | Powder coated anodised aluminium |
| 23 | Pre-tensioning screw ¹ | - | 1 | Size 210–260: Stainless steel. Other sizes: Zinc plated steel |
| 24 | Indicator | 1 | 1 | Polymer material |
| 25 | Lock nut ¹ | - | 1 | Size 210–260: Stainless steel. Other sizes: Zinc plated steel |
| 26 | Marking washer ¹ | - | 1 | Anodised aluminium |
| 27 | Retaining ring, upper ⁶ | 1 | 1 | Spring steel |
| 28 | Middle washer ⁶ | 1 | 1 | Stainless steel |
| 29 | Support washer, upper ⁶ | 1 | 1 | Polymer material, chemically resistant |
| 30 | Support ring, lower | 1 | 1 | Polymer material |
| 31 | Bearing, lower | 1 | 1 | Polymer material |
| 32 | Guide ring | 1 | 1 | Polymer material |
| 33 | O-ring, lower ⁶ | 1 | 1 | Nitrile |
| 34 | Support washer, lower ⁶ | 1 | 1 | Polymer material, chemically resistant |
| 35 | Retaining ring, lower ⁶ | 1 | 1 | Spring steel |

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.

Dimensions

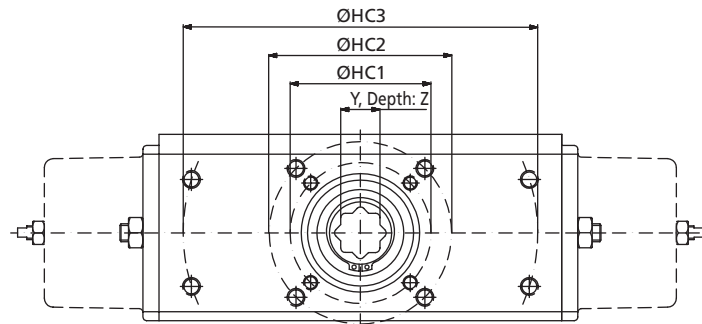


Fig. 1

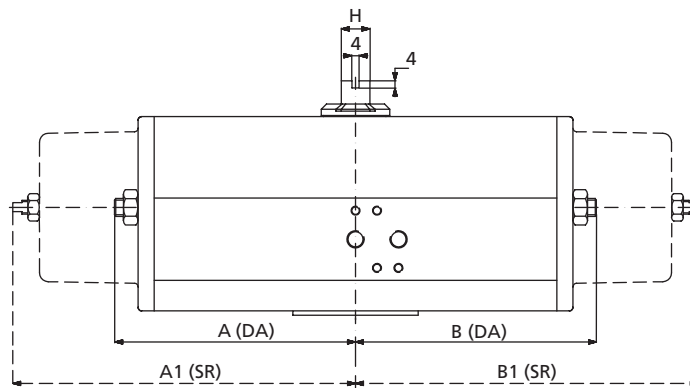


Fig. 2

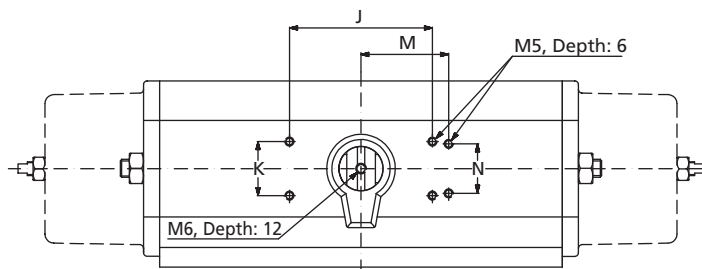


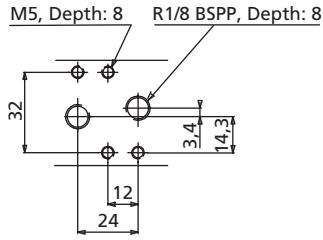
Fig. 3

| Model | Dimensions (mm) | | | | | | | | | | | | | | | | | | | | Weight (kg) | |
|--------|-----------------|------|--------------|-----|--------|-----|-----|-----|--------|----|------|------|-----------|----|-----|-----|-----|----|-----|---|-------------|------|
| | Fig. 1 | | | | Fig. 2 | | | | Fig. 3 | | | | Fig. 4/4a | | | | | | | | | |
| | HC 1 | HC 2 | HC 3 | Y** | Z | A | B | A1 | B1 | H | J | K | M | N | C | E | F | 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 |

† = Also includes valve mounting pattern of 300 x 110.

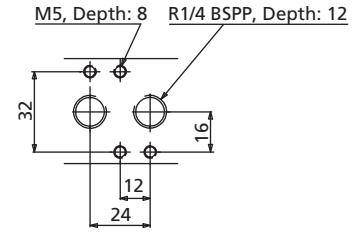
Dimensions

RC210 to 240



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

RC250 to 280



RC210 to 265

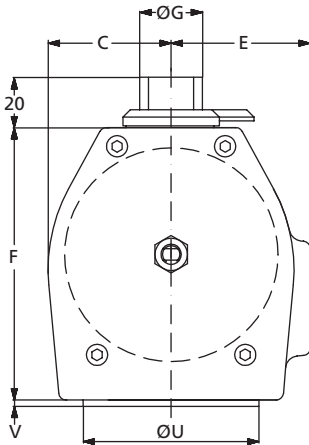


Fig. 4

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

U+V = Guide ring acc. to DIN 3337

RC270 to 280

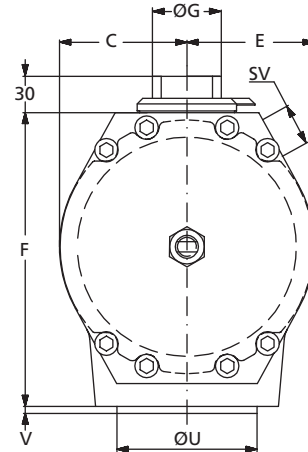


Fig. 4a

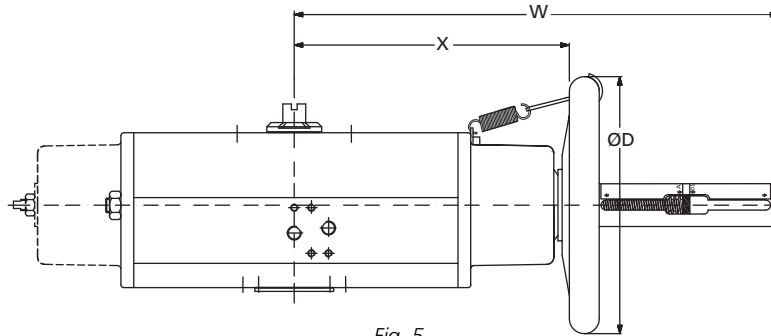


Fig. 5

| Model | Dimensions (mm) | | | Weight w/M1(kg) | |
|-------|-----------------|-----|-----|-----------------|------|
| | D | X | 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 | 25 |
| F16 | 165 | M20 | 32 |
| 170 x 110 | - | M16 | 25 |
| 234.7 x 97.2 | 254 | M16 | 25 |
| 300 x 110 | - | M16 | 25 |

Performance Data

Air Consumption DA

| Model | Free Air at 6 bar (litres) | |
|-------|----------------------------|--------------------|
| | 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

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

Operation Times DA/SR

| Model | Time at 6 bar (sec) |
|-------|---------------------|
| 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

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

* Output torque +/- 5%.

Torque Data – Spring-Return (spring to close)

RC200-SR

| Model | Function | Position | Output Torque (Nm)* | | | | | | | |
|-------|----------|---------------------------|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----------------|------------------|
| | | 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 | 0° | 7 | 9 | 12 | 14 | 15 | 19 | 20 | 24 |
| | | 60° | 3 | 4 | 5 | 6 | 6 | 8 | 9 | 10 |
| | | 90° | 4 | 5 | 6 | 7.5 | 8 | 10 | 11 | 13 |
| | Spring | 90° | 6 | 8 | 10 | 12 | 13 | 16 | 18 | 21 |
| | | 30° | 3 | 4 | 5 | 6 | 6 | 8 | 9 | 10 |
| | | 0° | 4 | 6 | 7 | 8.5 | 9 | 11 | 12 | 14 |
| RC220 | Air | 0° | 15 | 19 | 24 | 29 | 31 | 39 | 41 | 48 |
| | | 60° | 6 | 8 | 10 | 12 | 13 | 16 | 18 | 21 |
| | | 90° | 8 | 10 | 12 | 15 | 16 | 20 | 22 | 26 |
| | Spring | 90° | 13 | 17 | 21 | 25 | 27 | 33 | 37 | 43 |
| | | 30° | 6 | 8 | 10 | 12 | 13 | 16 | 18 | 21 |
| | | 0° | 9 | 11 | 14 | 17 | 18 | 23 | 25 | 29 |
| RC230 | Air | 0° | 27 | 36 | 45 | 54 | 58 | 72 | 78 | 92 |
| | | 60° | 12 | 15 | 19 | 23 | 25 | 31 | 33 | 39 |
| | | 90° | 15 | 19 | 24 | 29 | 31 | 39 | 41 | 48 |
| | Spring | 90° | 24 | 31 | 39 | 47 | 51 | 63 | 69 | 81 |
| | | 30° | 12 | 15 | 19 | 23 | 25 | 31 | 33 | 39 |
| | | 0° | 17 | 22 | 27 | 33 | 36 | 44 | 47 | 55 |
| RC240 | Air | 0° | 55 | 73 | 92 | 110 | 119 | 147 | 158 | 185 |
| | | 60° | 24 | 31 | 39 | 47 | 51 | 63 | 68 | 80 |
| | | 90° | 29 | 39 | 48 | 58 | 63 | 77 | 84 | 98 |
| | Spring | 90° | 48 | 64 | 80 | 96 | 104 | 128 | 140 | 163 |
| | | 30° | 24 | 31 | 39 | 47 | 51 | 63 | 68 | 80 |
| | | 0° | 33 | 44 | 55 | 66 | 71 | 88 | 96 | 115 |
| RC250 | Air | 0° | 85 | 113 | 142 | 170 | 184 | 227 | 245 | 290 |
| | | 60° | 37 | 49 | 62 | 74 | 80 | 99 | 105 | 125 |
| | | 90° | 45 | 60 | 75 | 90 | 97 | 120 | 130 | 155 |
| | Spring | 90° | 75 | 100 | 125 | 150 | 162 | 200 | 215 | 255 |
| | | 30° | 37 | 49 | 62 | 74 | 80 | 99 | 105 | 125 |
| | | 0° | 50 | 67 | 83 | 100 | 108 | 133 | 150 | 175 |
| RC260 | Air | 0° | 173 | 230 | 287 | 345 | 374 | 460 | 500 | 580 |
| | | 60° | 75 | 100 | 125 | 150 | 162 | 200 | 215 | 250 |
| | | 90° | 90 | 120 | 150 | 180 | 195 | 240 | 265 | 310 |
| | Spring | 90° | 153 | 203 | 254 | 305 | 330 | 407 | 440 | 515 |
| | | 30° | 75 | 100 | 125 | 150 | 162 | 200 | 215 | 250 |
| | | 0° | 105 | 140 | 175 | 210 | 227 | 280 | 305 | 350 |
| RC265 | Air | 0° | 280 | 373 | 467 | 560 | 607 | 730 | 730 | 935 |
| | | 60° | 113 | 150 | 187 | 225 | 244 | 280 | 305 | 360 |
| | | 90° | 125 | 167 | 208 | 250 | 271 | 303 | 330 | 425 |
| | Spring | 90° | 210 | 280 | 350 | 420 | 455 | 560 | 610 | 695 |
| | | 30° | 103 | 137 | 171 | 205 | 222 | 273 | 330 | 355 |
| | | 0° | 153 | 203 | 254 | 305 | 330 | 407 | 440 | 525 |
| RC270 | Air | 0° | 355 | 473 | 592 | 710 | 769 | 947 | 1,030 | 1,210 |
| | | 60° | 155 | 207 | 258 | 310 | 336 | 413 | 440 | 520 |
| | | 90° | 190 | 253 | 317 | 380 | 412 | 507 | 550 | 640 |
| | Spring | 90° | 315 | 420 | 525 | 630 | 682 | 840 | 910 | 1,060 |
| | | 30° | 155 | 207 | 258 | 310 | 336 | 413 | 440 | 520 |
| | | 0° | 215 | 287 | 358 | 430 | 466 | 573 | 620 | 720 |
| RC280 | Air | 0° | 715 | 953 | 1,192 | 1,430 | 1,549 | 1,907 | 2,080 | 2,430 |
| | | 60° | 310 | 413 | 517 | 620 | 672 | 827 | 900 | 1,050 |
| | | 90° | 380 | 507 | 633 | 760 | 823 | 1,013 | 1,110 | 1,290 |
| | Spring | 90° | 635 | 847 | 1,058 | 1,270 | 1,376 | 1,693 | 1,840 | 2,150 |
| | | 30° | 310 | 413 | 517 | 620 | 672 | 827 | 900 | 1,050 |
| | | 0° | 435 | 580 | 725 | 870 | 942 | 1,160 | 1,260 | 1,470 |

* Output torque +/- 5%.

Note: Springs adapted to air supply pressure.

Torque Data – Spring-Return (spring to open)

RC200-SRF

| Model | Function | Position | Output Torque (Nm)* | | | | | | | |
|-------|----------|---------------------------|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----------------|------------------|
| | | 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 | Spring | 0° | 7 | 9.6 | 12 | 15 | 16 | 20 | 21 | 25 |
| | | 60° | 2.6 | 3.6 | 4.6 | 5.5 | 6 | 7.5 | 7.8 | 9 |
| | | 90° | 3 | 4.3 | 5.5 | 6.6 | 7 | 9 | 10 | 11.5 |
| | Air | 90° | 5.2 | 7.2 | 9 | 11 | 12 | 15 | 16.2 | 19 |
| | | 45° | 2.8 | 3.8 | 4.9 | 6 | 6.4 | 8 | 9 | 10.1 |
| | | 0° | 4.5 | 6.2 | 8 | 10 | 10 | 13 | 14.3 | 17.2 |
| RC220 | Spring | 0° | 14 | 20 | 25 | 30 | 33 | 41 | 43 | 50 |
| | | 60° | 5.3 | 7.2 | 9 | 11 | 12 | 15 | 15.5 | 18 |
| | | 90° | 6.7 | 9 | 12 | 14 | 15 | 19 | 20 | 23 |
| | Air | 90° | 11 | 14 | 18 | 22 | 24 | 30 | 33 | 38 |
| | | 45° | 5.6 | 7.7 | 9.8 | 12 | 13 | 16 | 18 | 21.5 |
| | | 0° | 9.4 | 13 | 16 | 20 | 22 | 27 | 30 | 34.5 |
| RC230 | Spring | 0° | 27 | 37 | 47 | 57 | 62 | 77 | 84 | 93 |
| | | 60° | 9.8 | 13 | 17 | 21 | 23 | 28 | 30 | 33 |
| | | 90° | 12 | 16 | 21 | 25 | 27 | 34 | 38 | 40 |
| | Air | 90° | 21 | 29 | 37 | 44 | 48 | 60 | 62 | 75 |
| | | 45° | 11 | 15 | 19 | 23 | 25 | 31 | 33 | 41 |
| | | 0° | 17 | 23 | 29 | 36 | 39 | 48 | 51.5 | 66 |
| RC240 | Spring | 0° | 56 | 77 | 98 | 118 | 130 | 160 | 180 | 190 |
| | | 60° | 20 | 27 | 35 | 42 | 46 | 57 | 65 | 68 |
| | | 90° | 25 | 34 | 43 | 52 | 56 | 70 | 80 | 82 |
| | Air | 90° | 42 | 58 | 73 | 89 | 97 | 120 | 123 | 155 |
| | | 45° | 22 | 31 | 39 | 47 | 52 | 64 | 66 | 84 |
| | | 0° | 35 | 48 | 61 | 74 | 81 | 100 | 97 | 135 |
| RC250 | Spring | 0° | 84 | 115 | 145 | 175 | 195 | 240 | 265 | 305 |
| | | 60° | 30 | 42 | 53 | 64 | 70 | 87 | 96 | 112 |
| | | 90° | 37 | 50 | 64 | 78 | 85 | 105 | 120 | 130 |
| | Air | 90° | 65 | 89 | 110 | 135 | 150 | 185 | 195 | 225 |
| | | 45° | 34 | 47 | 60 | 73 | 79 | 98 | 104 | 123 |
| | | 0° | 54 | 74 | 98 | 115 | 125 | 155 | 160 | 195 |
| RC260 | Spring | 0° | 175 | 240 | 300 | 370 | 373 | 500 | 540 | 620 |
| | | 60° | 63 | 86 | 110 | 135 | 135 | 180 | 195 | 220 |
| | | 90° | 77 | 105 | 135 | 160 | 165 | 220 | 245 | 280 |
| | Air | 90° | 135 | 185 | 230 | 280 | 307 | 385 | 400 | 465 |
| | | 45° | 70 | 96 | 120 | 150 | 170 | 200 | 210 | 250 |
| | | 0° | 110 | 150 | 190 | 230 | 278 | 315 | 330 | 395 |
| RC265 | Spring | 0° | 251 | 335 | 419 | 500 | 536 | 670 | 730 | 850 |
| | | 60° | 123 | 154 | 175 | 188 | 230 | 260 | 300 | 360 |
| | | 90° | 113 | 150 | 188 | 225 | 241 | 300 | 325 | 375 |
| | Air | 90° | 188 | 250 | 313 | 375 | 402 | 500 | 525 | 620 |
| | | 45° | 101 | 135 | 169 | 200 | 214 | 260 | 290 | 335 |
| | | 0° | 158 | 210 | 263 | 315 | 338 | 400 | 445 | 525 |
| RC270 | Spring | 0° | 350 | 480 | 620 | 750 | 810 | 1,010 | 1,100 | 1,250 |
| | | 60° | 130 | 175 | 2,220 | 270 | 290 | 365 | 400 | 450 |
| | | 90° | 155 | 210 | 270 | 320 | 350 | 440 | 480 | 550 |
| | Air | 90° | 270 | 370 | 470 | 570 | 620 | 770 | 830 | 1,000 |
| | | 45° | 145 | 195 | 250 | 300 | 330 | 410 | 430 | 540 |
| | | 0° | 230 | 310 | 390 | 480 | 520 | 645 | 680 | 810 |
| RC280 | Spring | 0° | 730 | 1,000 | 1,270 | 1,540 | 1,670 | 2,080 | 2,250 | 2,500 |
| | | 60° | 260 | 360 | 460 | 550 | 600 | 750 | 780 | 820 |
| | | 90° | 320 | 440 | 560 | 680 | 740 | 920 | 1,000 | 1,100 |
| | Air | 90° | 560 | 770 | 980 | 1,180 | 1,290 | 1,600 | 1,700 | 2,000 |
| | | 45° | 290 | 400 | 510 | 620 | 670 | 835 | 900 | 1,100 |
| | | 0° | 460 | 630 | 805 | 980 | 1,060 | 1,320 | 1,380 | 1,700 |

* Output torque +/- 5%.

Note: Springs adapted to air supply pressure.