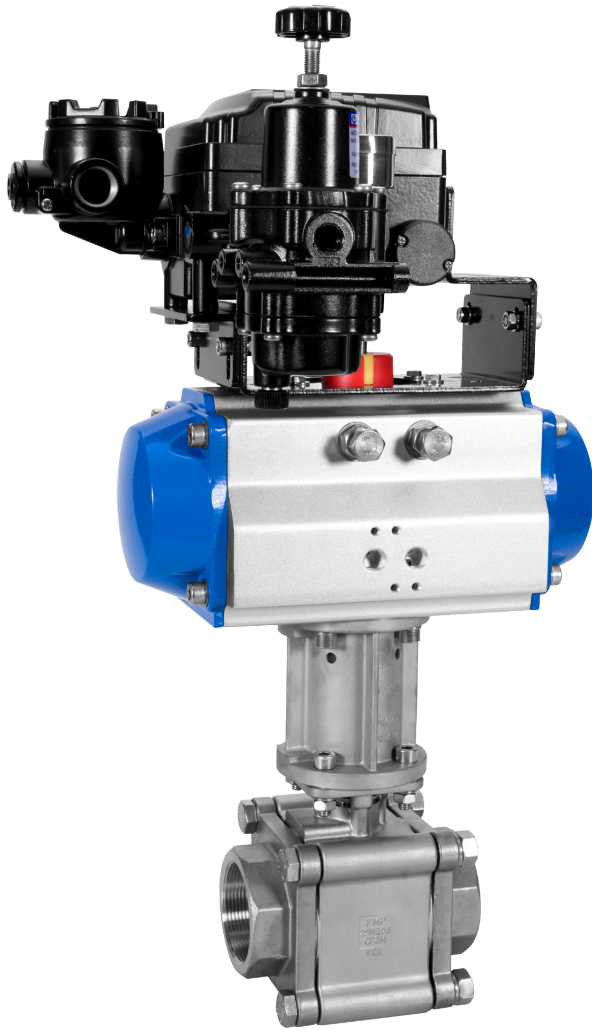


PNEUMATIC ACTUATORS

PNEUMATIC ACTUATOR



M306
RP100
4" stem extension
YT-1000
YT-200



RP100
YT-850
YTS1
WT8851

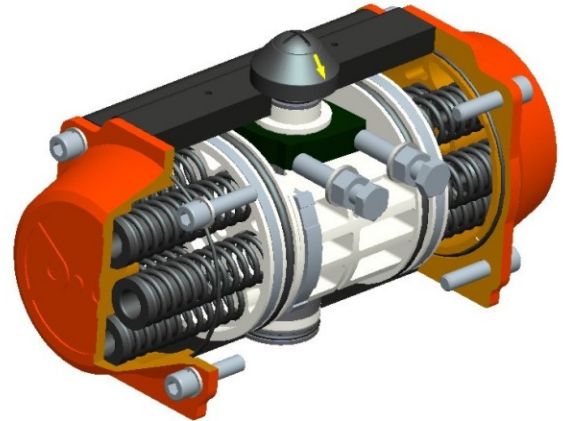


RP100
YT-1200
YT-200

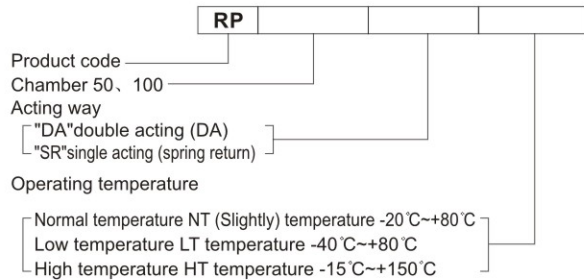
Customized Service

The pneumatic actuator has been designed, developed and tested incorporating with the latest technology and materials available. With some innovative design features. As a result of this product research we have obtained a high grade product with the following characteristics:

- *Reliability
- *High performance
- *Wider product range permitting a more economical sizing selection
- *Innovative and patented universal drive shaft and multifunction position indicator
- *Full compliance with latest worldwide specifications
- *A wide selection of highest levels of corrosion protection technology
- *Aesthetically compact and modern style with no external cavities to avoid deposit build up



Product specification



Description: Actuator Mode RP50, Double Acting and Low Temperature

Description: Actuator Mode RP88, Single Acting (Spring Return) and Normal Temperature

Instructions

1. Operating media:

Dry or lubricated air or inert / non-corrosive gases on condition that they are compatible with internal actuator parts and lubricant. The operating media must have a dew point equal to -20°C(-40°F) or at least 10°C below the ambient temperature. The maximum particle size must not exceed 30µm.

2. Supplying pressure:

For Double Acting and spring Return actuators the maximum supply pressure is 8 Bar (116PSI). minimum supply pressure is 2.5 Bar (36PSI)

3. Operating Temperature:

- *Standard product from -20°C(-4°F) to +80°C(+176°F)
- *Low temperature LT actuator with VMQ "O" rings from -40°C (-40°F) to +80°C(+176°F)
- *High temperature HT actuator with FPM "O" rings from -15°C (+5°F) to +150°C(+302°F) Caution: For low and high temperature service. Special tubricant is required. Please contact PMP for each application. High and low temperature will vary change the output torque of the actuator.

4. Stroke:

There is ±5° adjustable angle at the position of open and end of close.

5. Operating Time:

See Technical Data sheet

6. Lubrication:

Actuators are factory lubricated for the life under normal operating conditions. The standard lubricant is suitable for use from -20°C(-4°F)+80°C (+176°F) For low (LT) and high (HT) temperature service, where special tubricant is required please contact PMP.

7. Construction:

Twin piston rack and pinion actuator design suitable for both indoor and outdoor installation.

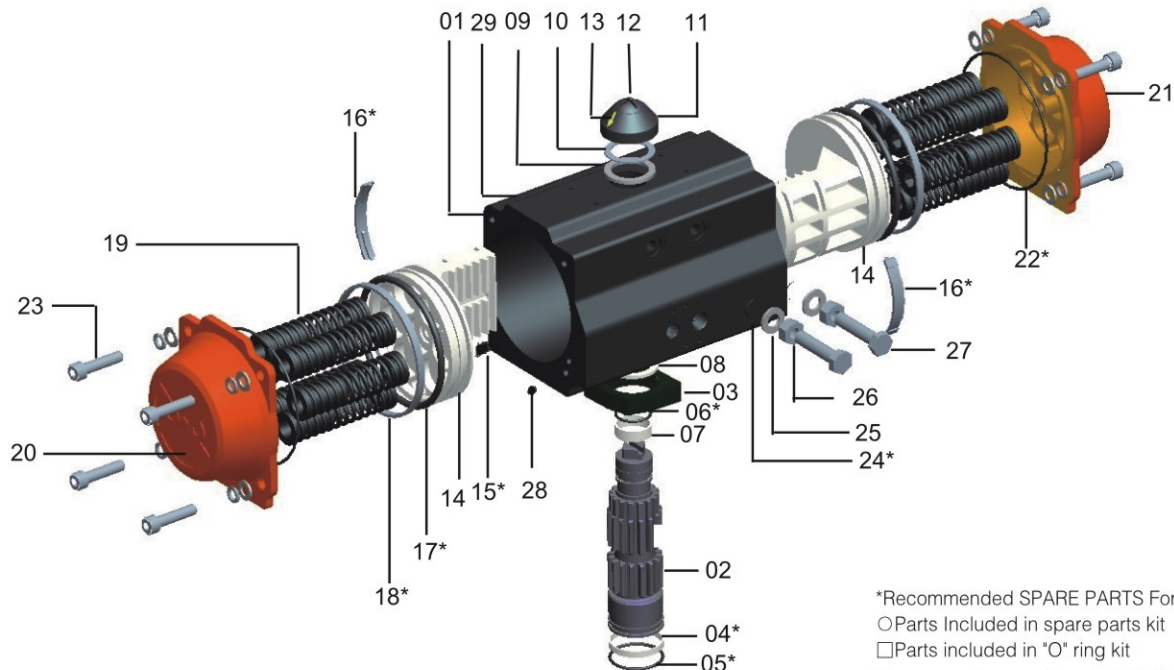
8. Protection and Corrosion Resistance:

Actuators are supplied with corrosion protections for normal environments. For sever duties select from the protection level table or contact PMP.

Parts and Materials

| Part No. | Spare parts | UNIT Q. TY | PART (DESCRIPTION) | STANDARD MATERIAL | CORROSION PROTECTION "A"(A) | OPTIONAL MATERIAL |
|----------|-------------|------------|-------------------------|-------------------------|-----------------------------|-------------------|
| 01 | | 1 | BODY | Extruded Aluminum alloy | Anodized | -- |
| 02 | | 1 | DRIVE SHAFT | Steel alloy | Oxidation | -- |
| 03 | | 1 | ADJUST CAM | 45# | -- | -- |
| 04* | ○ | 1 | BOTTOM BEARING | POM | -- | -- |
| 05* | ○□ | 1 | "O"RING (Pinion bottom) | NBR | -- | FPM/ VMQ |
| 06* | ○□ | 1 | "O"RING (Pinion top) | NBR | -- | FPM/ VMQ |
| 07* | ○ | 1 | TOP BEARING | POM | -- | -- |
| 08 | | 2 | THRUST BEARING (Pinion) | POM | -- | -- |
| 09 | | 1 | WASHER | Stainless Steel | Nickel plated | -- |
| 10 | | 1 | CIR CLIP | Stainless Steel | -- | -- |
| 11 | | 1 | INDICATOR | Nylon PA | -- | -- |
| 12 | | 1 | SCREW | Nylon PA | -- | -- |
| 13 | | 2 | INDICATOR FLAKE | Nylon PA | -- | -- |
| 14 | | 2 | PISTON | Die Cast Aluminum alloy | Anodized | -- |
| 15* | ○ | 2 | PLUG | POM | -- | -- |
| 16* | ○ | 2 | BEARING (Back piston) | POM | -- | -- |
| 17* | ○ | 2 | BEARING | POM | -- | FPM/ VMQ |
| 18* | | 2 | "O" RING (Piston) | NBR | -- | -- |
| 19 | | 5-12 | SPRING | Steel Alloy | | -- |
| 20 | | 1 | LEFT END CAP | Die Cast Aluminum alloy | Anodized | -- |
| 21 | | 1 | RIGHT END CAP | Die Cast Aluminum alloy | Anodized | -- |
| 22* | ○□ | 2 | "O" RING (END CAP) | NBR | -- | FPM/ VMQ |
| 23 | | 8C | SREW | Stainless Steel | -- | -- |
| 24* | ○□ | 2 | "O" RING (Stop Screw) | NBR | -- | FPM/ VMQ |
| 25 | | 2 | WASHER | Stainless Steel | -- | -- |
| 26 | | 2 | NUT | Stainless Steel | -- | -- |
| 27 | | 2 | Adjustment SCREW | Stainless Steel | -- | -- |
| 28 | | 2 | PLUG | NBR | -- | FPM/ VMQ |
| 29 | | 1 | LABEL | Polyester-Aluminum | -- | -- |

PMP reserves the right to amend the technical parameters.

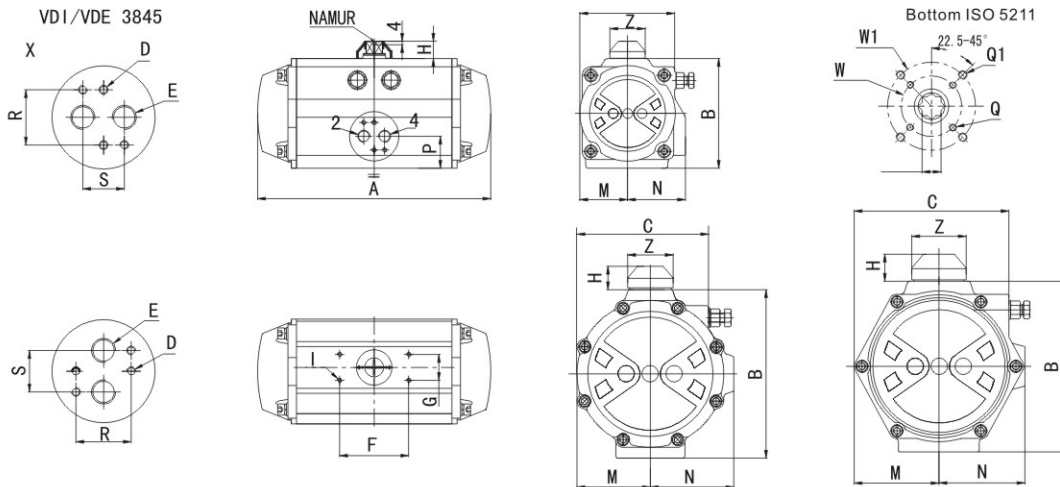


*Recommended SPARE PARTS For maintenance
 ○Parts Included in spare parts kit
 □Parts included in "O" ring kit
 The connections conform to ISO5211

Imperial Dimension & Technical Data

| (DA/SR) | RP50 | RP63 | RP75 | RP88 | RP100 | RP125 | RP145 | RP160 | RP180 | RP200 | RP240 | RP265 | RP300 | RP350 | RP400 |
|---------|------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| ISO5211 | F04 | F05 | F05/07 | F05/07 | F07/10 | F07/10 | F10/12 | F10/12 | F10/14 | F10/14 | F12/16 | F16 | F16 | F16 | F25 |
| A | 5.59 | 6.42 | 8.46 | 9.96 | 10.63 | 13.58 | 16.1 | 17.28 | 19.21 | 21.38 | 24.76 | 29.13 | 34.84 | 37.2 | 1062 |
| B | 2.72 | 3.35 | 4.02 | 4.53 | 5 | 6.18 | 6.93 | 7.74 | 8.66 | 9.61 | 11.81 | 12.99 | 15.35 | 17.3 | 464 |
| C | 2.28 | 2.83 | 3.41 | 3.82 | 4.33 | 5.33 | 6.14 | 6.63 | 7.52 | 8.29 | 9.86 | 11.75 | 12.01 | 14.2 | 385 |
| D | M5 | M5 | M5 | M5 | M5 | M5 | M5 | M5 | M5 | M5 | M5 | M6 | M6 | M6 | M6 |
| E(NPT) | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/2" | 1/2" |
| F | 3.15 | 3.15 | 3.15 | 3.15 | 3.15 | 3.15 | 3.15 | 3.15 | 5.12 | 5.12 | 5.12 | 5.12 | 5.12 | 5.2 | 5.9 |
| G | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 |
| H | 0.79 | 0.79 | 0.79 | 0.79 | 0.79 | 1.18 | 1.18 | 1.18 | 1.97 | 1.97 | 1.97 | 1.97 | 1.97 | 1.97 | 1.97 |
| I | M5 | M5 | M5 | M5 | M5 | M5 | M5 | M5 | M5 | M5 | M5 | M5 | M5 | M5 | M5 |
| M | 1.14 | 1.42 | 1.71 | 1.94 | 2.18 | 2.74 | 3.11 | 3.46 | 3.86 | 4.25 | 5.14 | 6.44 | 6.69 | 7.9 | 8.6 |
| N | 1.61 | 1.85 | 2.09 | 2.22 | 2.64 | 3.23 | 3.58 | 3.88 | 4.21 | 4.43 | 5.14 | 6.54 | 7.60 | 8.7 | 9.7 |
| O | 0.43 | 0.55 | 0.67 | 0.67 | 0.87 | 1.06 | 1.06 | 1.06 | 1.42 | 1.42 | 1.81 | 1.81 | 2.17 | 2.2 | 2.4 |
| P | 1.06 | 1.14 | 1.14 | 1.26 | 1.46 | 1.79 | 2.07 | 2.05 | 2.28 | 2.46 | 3.07 | 6.52 | 7.68 | 7.9 | 8.3 |
| Q | 1.65 | 1.97 | 1.97 | 1.97 | 2.76 | 2.76 | 4.02 | 4.02 | 4.02 | 4.02 | 4.92 | 6.50 | 6.50 | 6.50 | 10 |
| Q1 | — | — | 2.76 | 2.76 | 4.02 | 4.02 | 4.92 | 4.92 | 5.51 | 5.51 | 6.50 | — | — | — | — |
| R | 1.26 | 1.26 | 1.26 | 1.26 | 1.26 | 1.26 | 1.26 | 1.26 | 1.26 | 1.26 | 1.77 | 1.77 | 1.77 | 1.77 | 1.77 |
| S | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 1.57 | 1.57 | 1.57 | 1.57 | 1.57 |
| T | 0.47 | 0.63 | 0.71 | 0.71 | 0.87 | 1.06 | 1.26 | 1.26 | 1.54 | 1.54 | 1.93 | 2.72 | 2.72 | 2.7 | 2.6 |
| W | M5 | M6 | M6 | M6 | M8 | M8 | M10 | M10 | M10 | M10 | M12 | M20 | M20 | M20 | M20 |
| W1 | — | — | M8 | M8 | M10 | M10 | M12 | M12 | M14 | M14 | M16 | — | — | — | — |
| ΦZ | 1.61 | 1.61 | 1.61 | 1.61 | 1.61 | 2.20 | 2.56 | 2.56 | 3.15 | 3.15 | 4.53 | 4.53 | 4.53 | 4.53 | 4.53 |

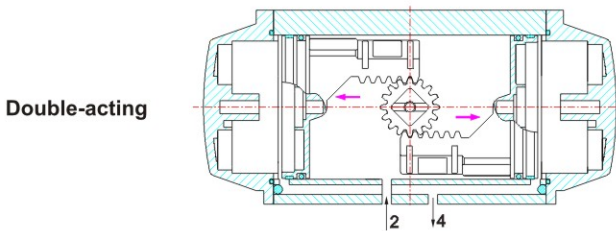
PMP reserves the right to amend the technical parameters.



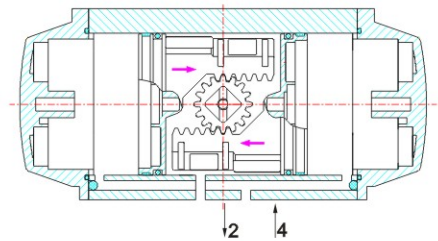
| Model | DN Φ(mm) | Revolution of travel adjusted 1° | Air consumption of open (L) | Air consumption of close (L) | Open time (SEC.) | | Close time (SEC.) | | Weight (kg.) | |
|-----------------|-------------|---|-----------------------------------|------------------------------------|---------------------|------|----------------------|------|-----------------|------|
| | | | | | DA | SR | DA | SR | DA | SR |
| RP50 | 50 | 1/6 turn | 0.09 | 0.15 | 0.2 | 0.25 | 0.25 | 0.3 | 0.96 | 1.06 |
| RP63 | 63 | 1/6 turn | 0.16 | 0.26 | 0.25 | 0.3 | 0.3 | 0.35 | 1.58 | 1.7 |
| RP75 | 75 | 1/6 turn | 0.31 | 0.49 | 0.3 | 0.35 | 0.4 | 0.5 | 2.7 | 3.15 |
| RP88 | 88 | 1/5 turn | 0.51 | 0.78 | 0.4 | 0.5 | 0.5 | 0.6 | 3.8 | 4.4 |
| RP100 | 100 | 1/5 turn | 0.71 | 1.11 | 0.5 | 0.6 | 0.7 | 0.9 | 5.4 | 6.51 |
| RP125 | 125 | 1/5 turn | 1.54 | 2.34 | 0.9 | 1.1 | 1.2 | 1.4 | 10.2 | 12.6 |
| RP145 | 145 | 1/5 turn | 2.41 | 3.78 | 1.2 | 1.4 | 1.5 | 1.8 | 14.5 | 18.1 |
| RP160 | 160 | 1/4 turn | 3.14 | 4.92 | 1.5 | 1.7 | 1.8 | 2.1 | 19.8 | 24 |
| RP180 | 180 | 1/4 turn | 4.26 | 6.89 | 2 | 2.2 | 2.4 | 2.8 | 25 | 31.6 |
| RP200 | 200 | 1/4 turn | 5.94 | 9.46 | 2.7 | 3.2 | 3.5 | 4 | 35.5 | 45.1 |
| RP240 | 240 | 1/4 turn | 10 | 15.2 | 3.5 | 4 | 4.1 | 4.6 | 53 | 64 |
| RP265 | 265 | 1/4 turn | 14.5 | 21.38 | 4 | 4.5 | 4.5 | 5 | 83 | 102 |
| RP300 RP1000 | 300 | If need other size actuator, Please contact us anytime. | | | | | | | | |

PMP reserves the right to amend the technical parameters.

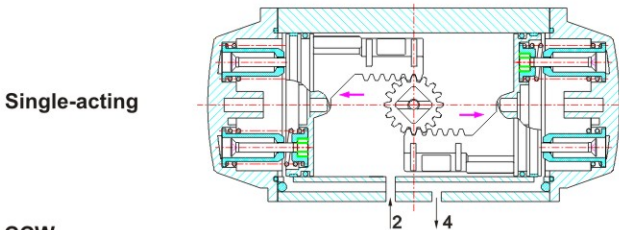
Operating Principle



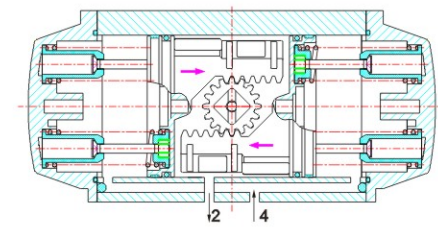
CCW
Air to Port A forces the pistons outwards, causing the pinion to turn counterclockwise while the air is being exhausted from Port 4.



CW
Air to Port B forces the pistons inwards, causing the pinion to turn clockwise while the air is being exhausted from Port 2.

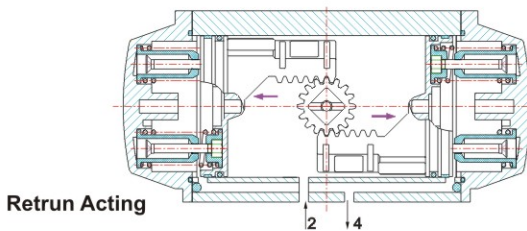


CCW
Air to Port A forces the pistons outwards, causing the springs to compress, the pinion turns counterclockwise while air is being exhausted from Port 4.



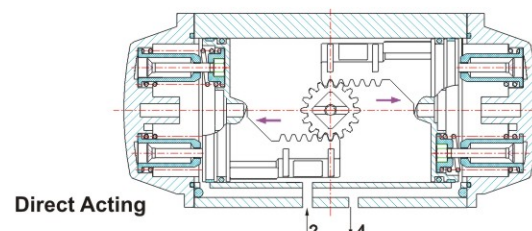
CW
Loss of air pressure, the stored energy in the springs forces the pistons inwards, the pinion turns clockwise while air is being exhausted from Port 2.

Single Return can be further divided into Return Acting and Direct Acting.



When 2 openings intake, the piston will active both sides under the compressed air while the output shaft turn around by counterclockwise. It is called Return Acting.

The Return Acting single return will be converted each other only by exchanging the position of piston.



When 2 openings intake, the piston will active both sides under the compressed air while the output shaft turn around by clockwise. It is called Direct Acting

PNEUMATIC ACTUATOR



| Supply Pressure | | SPRING RETURN TORQUE RATINGS IN (lb·ft · in) | | | | | | | | | | | | | | Spring stroke | | | | | | | | | | | | |
|-----------------|------------|--|-------|--------|-------|---------|-------|--------|-------|---------|-------|---------|-------|--------|-------|---------------|-------|--------|-------|--------|-------|--------|-------|-----------|--------|--------|--------|------|
| Actuator Model | Spring set | 2.5 Bar | | 3 Bar | | 3.5 Bar | | 4 Bar | | 4.2 Bar | | 4.5 Bar | | 5 Bar | | 5.5 Bar | | 6 Bar | | 7 Bar | | 8 Bar | | 90° Start | 0° End | | | |
| | | 0° 90° | | 0° 90° | | 0° 90° | | 0° 90° | | 0° 90° | | 0° 90° | | 0° 90° | | 0° 90° | | 0° 90° | | 0° 90° | | 0° 90° | | | | | | |
| | | Start | End | Start | End | Start | End | Start | End | Start | End | Start | End | Start | End | Start | End | Start | End | Start | End | Start | End | | | | | |
| RP50SR | S05 | 43.4 | 30.1 | 58.4 | 45.1 | 73.5 | 60.2 | 87.6 | 74.3 | 87.6 | 74.3 | 102.7 | 89.4 | 117 | 103.6 | | | | | | | | | 43.4 | 30.1 | | | |
| | S06 | 38.1 | 22.1 | 52.2 | 36.3 | 67.3 | 51.3 | 82.3 | 66.4 | 82.3 | 66.4 | 97.4 | 81.4 | 112 | 95.6 | 127 | 103.6 | | | | | | | 51.3 | 35.4 | | | |
| | S07 | | | 46.9 | 28.3 | 61.1 | 42.5 | 76.1 | 57.5 | 76.1 | 57.5 | 91.2 | 81.4 | 105 | 87.6 | 120 | 101.8 | | | | | | | 60.2 | 41.6 | | | |
| | S08 | | | | | 54.9 | 33.6 | 69.9 | 48.7 | 69.9 | 48.7 | 84.9 | 63.7 | 99.1 | 77.9 | 114 | 92.9 | 128 | 101.8 | 158 | 137 | | | 69.0 | 47.8 | | | |
| | S09 | | | | | | | 63.7 | 39.8 | 63.7 | 39.8 | 78.8 | 54.9 | 92.9 | 69 | 108 | 84.1 | 122 | 98.2 | 152 | 128.3 | 181 | 157.5 | 77.9 | 54.0 | | | |
| | S10 | | | | | | | | | | | 73.5 | 46.9 | 87.6 | 61.1 | 103 | 76.1 | 117 | 90.3 | 147 | 120.4 | 176 | 149.6 | 85.9 | 59.3 | | | |
| | S11 | | | | | | | | | | | | | 81.4 | 52.2 | 94.5 | 67.3 | 111 | 81.4 | 141 | 111.5 | 170 | 140.7 | 94.7 | 65.5 | | | |
| | S12 | | | | | | | | | | | | | | | 90.3 | 58.4 | 104 | 72.6 | 135 | 102.7 | 164 | 131.9 | 103.6 | 71.7 | | | |
| | S05 | 81.4 | 55.8 | 107 | 81.4 | 133 | 107.1 | 159 | 133.6 | 169 | 143.4 | 185 | 159.3 | 211 | 185 | | | | | | | | | | | 73.4 | 48.7 | |
| | S06 | 70.8 | 39.8 | | | 123 | 92 | 149 | 118.6 | 159 | 128.3 | 174.4 | 144.3 | 200 | 170 | 226 | 195.6 | | | | | | | | | | 89.4 | 59.3 |
| | S07 | | | 86.7 | 51.3 | 112 | 77 | 139 | 103.4 | 149 | 113.2 | 165 | 129.2 | 190 | 154.9 | 216 | 180.6 | 242.5 | 207.1 | | | | | | | | 104.4 | 69 |
| | S08 | | | | | 102.7 | 61.9 | 129.2 | 88.5 | 139 | 98.2 | 155 | 114.2 | 181 | 139.8 | 206 | 165.5 | 233 | 192.1 | 284 | 243.4 | | | | | | 119.5 | 78.8 |
| S09 | | | | | | | 119 | 73.5 | 129.2 | 83.2 | | | 170.8 | 125 | 196 | 150.5 | 223 | 177 | 274 | 228.3 | 327 | 280.6 | | | 134.5 | 88.5 | | |
| S10 | | | | | | | | | | | 135 | 84.1 | 161 | 109.7 | 187 | 135.4 | 213 | 162 | 265 | 213.3 | 316.9 | 265.5 | | | 149.6 | 98.2 | | |
| S11 | | | | | | | | | | | | | 151 | 94.7 | 177 | 120.4 | 204.5 | 158.4 | 254.9 | 198.3 | 307.1 | 250.5 | | | 164.6 | 108 | | |
| S12 | | | | | | | | | | | | | | | 167 | 106.2 | 193.8 | 132.8 | 245 | 184.1 | 297 | 236.3 | | | 178.8 | 117.7 | | |
| S05 | 159.3 | 104.4 | 211 | 155.8 | 261.9 | 207.1 | 313 | 258.4 | 334 | 279.7 | 365 | 310.7 | 417 | 362 | | | | | | | | | | | | 153.1 | 98.2 | |
| S06 | 139.8 | 73.5 | 191 | 124.8 | 242.5 | 176.1 | 294 | 227.5 | 315 | 248.7 | 346 | 279.7 | 397 | 331 | 449 | 382.3 | | | | | | | | | | 184.1 | 117.7 | |
| S07 | | | 171.7 | 94.7 | 223 | 146 | 274 | 197.4 | 295.6 | 218.6 | 326.6 | 249.6 | 338 | 300.9 | 429 | 352.3 | 480 | 403.4 | | | | | | | | 214.2 | 137.2 | |
| S08 | | | | | 203.5 | 115.1 | 255 | 160.2 | 276 | 187.6 | 307 | 218.6 | 358 | 270 | 410 | 321.3 | 461 | 372.6 | 563.8 | 475.3 | | | | | | 245.2 | 156.7 | |
| S09 | | | | | | | 237 | 135.4 | 258 | 156.6 | 289 | 187.6 | 340.8 | 239 | 392 | 290.3 | 443 | 341.6 | 546 | 444.3 | 649.6 | 547.9 | | | 276.1 | 174.4 | | |
| S10 | | | | | | | | | | | 268 | 157.5 | 319 | 208.9 | 371 | 260.2 | 422 | 311.5 | 524.8 | 414.2 | 628.4 | 517.7 | | | 306.2 | 195.6 | | |
| S11 | | | | | | | | | | | | | 300 | 177.9 | 351.4 | 229.2 | 402.7 | 280.6 | 505.4 | 383 | 609 | 486.8 | | | 337.2 | 215.1 | | |
| S12 | | | | | | | | | | | | | | | 331 | 199.1 | 382 | 250.7 | 485 | 353.1 | 588.6 | 456.7 | | | 367.3 | 216.8 | | |
| S05 | 242.5 | 149.6 | 323.9 | 230.1 | 405 | 311.5 | 486 | 392.1 | 517.8 | 424.8 | 570.9 | 473.8 | 647.9 | 554 | | | | | | | | | | | | 263.8 | 162 | |
| S06 | 210.6 | 98.2 | 291.2 | 179.7 | 372.6 | 260.2 | 453.2 | 341.6 | 485.9 | 373.5 | 534.6 | 422.2 | 615 | 530.6 | 696.6 | 584.1 | | | | | | | | | | 218.6 | 194.7 | |
| S07 | | | 258 | 128.3 | 340 | 290.8 | 420 | 290.3 | 453 | 322.2 | 501 | 370.8 | 582 | 452.3 | 663.8 | 532.8 | 746 | 616 | | | | | | | | 357.6 | 227.5 | |
| S08 | | | | | 308 | 158.4 | 388.5 | 239 | 420.4 | 271.7 | 469 | 320.4 | 550 | 400.9 | 631.1 | 482.4 | 712.5 | 562.9 | 874.5 | 724.9 | | | | | | 409 | 259.3 | |
| S09 | | | | | | | 355.8 | 187.6 | 388.5 | 220 | 437 | 269 | 518 | 349.6 | 599.2 | 431 | 679.7 | 511.6 | 841.7 | 672.7 | 1000 | 836.4 | | | 460.2 | 292 | | |
| S10 | | | | | | | | | | | 404.5 | 217.7 | 485 | 298.3 | 566.4 | 379.7 | 647 | 464.1 | 808 | 623 | 973.6 | 785.1 | | | 511.6 | 324.8 | | |
| S11 | | | | | | | | | | | | | 453 | 247.8 | 533.7 | 328.4 | 615.1 | 409.8 | 777.1 | 570.9 | 935.5 | 730.2 | | | 562 | 356.7 | | |
| S12 | | | | | | | | | | | | | | | 501.8 | 277.9 | 582.4 | 358.5 | 743.5 | 519.5 | 902.8 | 682.4 | | | 613.4 | 389.4 | | |
| S05 | 364 | 239.9 | 482 | 357.6 | 599.2 | 475.3 | 717 | 593 | 764 | 640 | 834 | 710.7 | 956 | 828.4 | | | | | | | | | | | | 348.7 | 223.9 | |
| S06 | 319.5 | 170 | 437.2 | 287.6 | 555 | 405.3 | 672.7 | 523.1 | 720 | 570 | 790.4 | 640.8 | 911 | 758.5 | 1026 | 876.2 | | | | | | | | | | 418.6 | 269 | |
| S07 | | | 392 | 217.7 | 509.8 | 335.4 | 627.5 | 453.2 | 674 | 500 | 745 | 570.9 | 863 | 688.6 | 978 | 804.5 | 1097 | 920.5 | | | | | | | | 487.7 | 314.2 | |
| S08 | | | | | 464.7 | 265.5 | 582.4 | 383.2 | 630 | 431 | 700.1 | 501 | 817.8 | 618.7 | 934 | 734.6 | 1053 | 854.1 | 1292 | 1088 | | | | | | 557.6 | 358.5 | |
| S09 | | | | | | | 538.1 | 314.2 | 585 | 361 | 655 | 431.9 | 773.6 | 550 | 883.9 | 666.5 | 1009 | 784.2 | 1248 | 1018 | 1478 | 1257 | | | 627.5 | 403.6 | | |
| S10 | | | | | | | | | | | 610.7 | 362 | 728 | 479.7 | 846.1 | 597.4 | 965 | 715.1 | 1195 | 947 | 1434 | 1186 | | | 697.4 | 448.7 | | |
| S11 | | | | | | | | | | | | | 683.3 | 409.8 | 801 | 527.5 | 920.5 | 645.2 | 1151 | 876 | 1389 | 1115 | | | 767.4 | 492 | | |
| S12 | | | | | | | | | | | | | | | 756 | 457.6 | 873.6 | 575.3 | 1106 | 814.3 | 1345 | 1044 | | | 836.4 | 537 | | |
| S05 | 757 | 495.6 | 1005 | 743.5 | 1252 | 991 | 1500 | 1239 | 1598 | 1390 | 1740 | 1558 | 1987 | 1726 | | | | | | | | | | | | 725.8 | 464.7 | |
| S06 | 664 | 345.2 | 912 | 593 | 1159 | 840.8 | 1407 | 1089 | 1505 | 1186 | 1646 | 1328 | 1894 | 1575 | 2143 | 1823 | | | | | | | | | | 876.2 | 557.6 | |
| S07 | | | 814 | 451.4 | 1066 | 699.2 | 1314 | 947 | 1412 | 1044 | 1553 | 1186 | 1801 | 1434 | 2049 | 1682 | 2288 | 1921 | | | | | | | | 1017.8 | 650.5 | |
| S08 | | | | | 974 | 548.7 | 1221 | 797 | 1319 | 894 | 1460 | 1036 | 1708 | 1283 | 1956 | 1531 | 2195 | 1700 | 2690 | 256 | | | | | | 1168.3 | 743.5 | |
| S09 | | | | | | | 1128 | 655 | 1226 | 752 | 1367 | 894 | 1615 | 1142 | 1859 | 1390 | 2102 | 1629 | 1713 | 239 | 3084 | 2611 | | | 1310 | 836.4 | | |
| S10 | | | | | | | | | | | 1274 | 743 | 1522 | 991 | 1770 | 1239 | 2009 | 1478 | 2505 | 223 | 2991 | 2461 | | | 1460.4 | 929.3 | | |
| S11 | | | | | | | | | | | | | 1425 | 850 | 1678 | 1097 | 1912 | 1336 | 2407 | 206 | 2894 | 2319 | | | 1602 | 1026.7 | | |
| S12 | | | | | | | | | | | | | | | 1584 | 947 | 1823 | 1186 | 2319 | 190 | 2805 | 2168 | | | 1752.4 | 1115.2 | | |
| S05 | 1195 | 788 | 1584 | 1177 | 1965 | 1558 | 2354 | 1947 | 2505 | 2098 | 2735 | 2328 | 3124 | 2717 | | | | | | | | | | | | 1133 | 725.8 | |
| S06 | 1044 | 549 | 1434 | 937 | 1814 | 1319 | 2204 | 1708 | 2354 | 1859 | 2584 | 2089 | 2974 | 2478 | 3354 | 2859 | | | | | | | | | | 1371.9 | 876.2 | |
| S07 | | | 1292 | 717 | 1673 | 1097 | 2062 | 1487 | 2213 | 1637 | 2443 | 1867 | 2832 | 2257 | 3213 | 2637 | 3602 | 3027 | | | | | | | | 1823 | 1168.2 | |
| S08 | | | | | 1522 | 867 | 1912 | 1257 | 2062 | 1407 | 2292 | 1637 | 2682 | 202 | | | | | | | | | | | | | | |

PNEUMATIC ACTUATOR



| Supply Pressure | | SPRING RETURN TORQUE RATINGS IN (N.m) | | | | | | | | | | | | | | Spring stroke | | | | | | | | | | |
|-----------------|------------|---------------------------------------|-------|--------|-------|---------|-------|--------|-------|---------|-------|---------|-------|--------|-------|---------------|-------|--------|-------|--------|-------|--------|-------|--------|-------|-------|
| Actuator Model | Spring set | 2.5 Bar | | 3 Bar | | 3.5 Bar | | 4 Bar | | 4.2 Bar | | 4.5 Bar | | 5 Bar | | 5.5 Bar | | 6 Bar | | 7 Bar | | 8 Bar | | 90° 0° | | |
| | | 0° 90° | | 0° 90° | | 0° 90° | | 0° 90° | | 0° 90° | | 0° 90° | | 0° 90° | | 0° 90° | | 0° 90° | | 0° 90° | | 0° 90° | | 90° 0° | | |
| | | Start | End | Start | End | Start | End | Start | End | Start | End | Start | End | Start | End | Start | End | Start | End | Start | End | Start | End | Start | End | Start |
| RP200SR | S05 | 2823 | 1921 | 3761 | 2859 | 4708 | 3806 | 5647 | 4744 | 6027 | 5116 | 6594 | 5682 | 7532 | 6629 | | | | | | | | | 2788 | 1885 | |
| | S06 | 2451 | 1363 | 3390 | 2301 | 4328 | 3248 | 4337 | 3284 | 5647 | 4558 | 6213 | 5124 | 7134 | 6071 | 8098 | 7010 | | | | | | | 3346 | 2257 | |
| | S07 | | | 3018 | 1744 | 3956 | 2691 | 3956 | 2629 | 3956 | 2629 | 4894 | 3452 | 5841 | 4567 | 6780 | 5514 | 7718 | 6452 | 8665 | 7390 | | | 3903 | 2683 | |
| | S08 | | | | | 3576 | 2133 | 3585 | 2133 | 4894 | 3452 | 5461 | 4009 | 6399 | 4956 | 7346 | 5894 | 8284 | 6833 | 10169 | 8718 | | | 4461 | 3009 | |
| | S09 | | | | | | | | | 4523 | 2894 | 5089 | 3452 | 6027 | 4399 | 6966 | 5337 | 7913 | 6275 | 9789 | 8160 | 11674 | 10046 | 5018 | 3390 | |
| | S10 | | | | | | | | | | | 4523 | 2894 | 5647 | 3841 | 6594 | 4779 | 7532 | 5718 | 9417 | 7603 | 11302 | 9488 | 5576 | 3762 | |
| | S11 | | | | | | | | | | | | | 5275 | 3284 | 6213 | 4160 | 7160 | 5160 | 9037 | 7045 | 10922 | 8930 | 6134 | 4142 | |
| | S12 | | | | | | | | | | | | | | | 5841 | 3664 | 6780 | 4602 | 8664 | 6488 | 10550 | 8373 | 6691 | 4514 | |
| | RP240SR | S05 | 4717 | 3292 | 6301 | 4877 | 7877 | 6461 | 9461 | 8036 | 10099 | 8674 | 11046 | 9621 | 12621 | 11205 | | | | | | | | | 4511 | 3186 |
| | | S06 | 4080 | 2372 | 5664 | 3956 | 7240 | 5532 | 8824 | 7116 | 9453 | 7753 | 10408 | 8700 | 11984 | 10285 | 13568 | 11860 | | | | | | | 5532 | 3806 |
| | | S07 | | | 5027 | 3036 | 6602 | 4611 | 8187 | 6195 | 8815 | 6824 | 9771 | 7780 | 11347 | 9355 | 12931 | 10939 | 14515 | 12524 | | | | | 6461 | 4470 |
| | | S08 | | | | | 7550 | 5266 | 8175 | 5903 | 9134 | 6850 | 10709 | 8435 | 12294 | 10019 | 13878 | 11594 | 17038 | 14763 | | | | | 7381 | 5107 |
| S09 | | | | | | 6912 | 4346 | 7541 | 4983 | 8488 | 5930 | 10072 | 7514 | 11603 | 9045 | 13241 | 10674 | 16400 | 13842 | 19560 | 17002 | 19560 | 17002 | 8302 | 5744 | |
| S10 | | | | | | | | | | 7851 | 5009 | 9435 | 6594 | 10966 | 8125 | 12595 | 9753 | 15763 | 12913 | 18923 | 16082 | | | 9222 | 6381 | |
| S11 | | | | | | | | | | | | 8798 | 5673 | 10329 | 7204 | 11957 | 8833 | 15126 | 11993 | 18256 | 15161 | | | 10143 | 7019 | |
| S12 | | | | | | | | | | | | | | 9691 | 6275 | 11320 | 7913 | 14489 | 11072 | 17648 | 14232 | | | 11072 | 7656 | |
| RP265SR | | S05 | 6647 | 4389 | 8948 | 6682 | 11240 | 8983 | 13533 | 11276 | 14453 | 12196 | 15834 | 13568 | 18126 | 15869 | | | | | | | | | 7089 | 4832 |
| | | S06 | 5682 | 2947 | 7983 | 5266 | 10275 | 7559 | 12568 | 9860 | 13488 | 10771 | 14869 | 12152 | 17161 | 14444 | 19453 | 16745 | | | | | | | 8506 | 5797 |
| | | S07 | | | 7010 | 3850 | 9311 | 6142 | 11603 | 8444 | 12534 | 9355 | 13895 | 10735 | 16197 | 13028 | 18489 | 15329 | 20781 | 17622 | | | | | 9922 | 6762 |
| | | S08 | | | | | 8346 | 4726 | 10638 | 7019 | 11559 | 7939 | 12931 | 9320 | 15232 | 11612 | 17542 | 13904 | 19817 | 15781 | | | | | 11338 | 7727 |
| | S09 | | | | | | | 9674 | 5603 | 10594 | 6523 | 11966 | 7904 | 14267 | 10196 | 16559 | 12488 | 18852 | 14790 | 23445 | 19374 | 28039 | 23968 | 12763 | 8691 | |
| | S10 | | | | | | | | | 11001 | 6479 | 13303 | 8780 | 15595 | 11072 | 17887 | 13365 | 22481 | 17958 | 27074 | 22552 | | | 14179 | 9656 | |
| | S11 | | | | | | | | | | | 12329 | 7364 | 14630 | 9656 | 16922 | 11948 | 21516 | 16542 | 26109 | 21136 | | | 15595 | 10621 | |
| | S12 | | | | | | | | | | | | | 13665 | 8240 | 15958 | 10532 | 20551 | 15126 | 25136 | 19719 | | | 17011 | 11586 | |
| | RP300SR | S05 | 11789 | 8975 | 15781 | 12966 | 19675 | 16957 | 23755 | 20932 | 25438 | 22534 | 27738 | 24941 | 31703 | 28906 | | | | | | | | | 17533 | 13028 |
| | | S06 | 10169 | 6788 | 14152 | 10771 | 18135 | 14754 | 22127 | 18745 | 23719 | 20339 | 26110 | 22729 | 30101 | 26720 | 34084 | 30703 | | | | | | | 19728 | 14657 |
| | | S07 | | | 12524 | 8576 | 16507 | 12568 | 20498 | 16551 | 22091 | 18144 | 24481 | 20543 | 28473 | 24525 | 32456 | 28517 | 36447 | 32499 | | | | | 2194 | 16276 |
| | | S08 | | | | | 14887 | 10373 | 18870 | 14365 | 20463 | 15958 | 22853 | 18348 | 26844 | 22339 | 30827 | 26322 | 34818 | 30305 | 42810 | 35341 | | | 24109 | 17905 |
| S09 | | | | | | | | 17241 | 12170 | 18834 | 13763 | 21224 | 16153 | 25216 | 20144 | 29199 | 24127 | 33190 | 28119 | 41138 | 32730 | 50391 | 45325 | 26295 | 19533 | |
| S10 | | | | | | | | | | 19604 | 13966 | 23587 | 17949 | 27570 | 21941 | 31562 | 25924 | 39457 | 30119 | 48484 | 42961 | | | 21914 | 16276 | |
| S11 | | | | | | | | | | | | 21958 | 15763 | 25941 | 19745 | 29933 | 23738 | 37784 | 27499 | 46758 | 40607 | | | 24109 | 17905 | |
| S12 | | | | | | | | | | | | | | 24321 | 17551 | 28305 | 21543 | 36102 | 24888 | 44962 | 38244 | | | 26295 | 19533 | |
| RP350SR | | S05 | 10152 | 2717 | 14745 | 7311 | 19348 | 11913 | 23941 | 16515 | 25782 | 18348 | 28543 | 21109 | 31730 | 28906 | | | | | | | | | 20268 | 12842 |
| | | S06 | | | 12179 | 3257 | 16772 | 7859 | 21374 | 12453 | 23125 | 14294 | 25977 | 17055 | 30101 | 26720 | 35173 | 26251 | | | | | | | 24331 | 15409 |
| | | S07 | | | | | 14205 | 3806 | 18808 | 8399 | 20649 | 10240 | 23401 | 13002 | 28473 | 24525 | 32597 | 22198 | 37199 | 26971 | | | | | 28384 | 17985 |
| | | S08 | | | | | | | 16232 | 4396 | 18073 | 6187 | 20835 | 8948 | 26844 | 22339 | 30030 | 18144 | 34633 | 22737 | 43829 | 31933 | | | 32438 | 20551 |
| | S09 | | | | | | | | | 15506 | 2133 | 18268 | 4894 | 22861 | 9488 | 27464 | 14090 | 32057 | 18684 | 41262 | 27879 | 50458 | 37076 | 36492 | 23118 | |
| | S10 | | | | | | | | | | | | | 24897 | 10028 | 29491 | 14630 | 38686 | 23826 | 47882 | 33022 | 40554 | 25685 | | | |
| | S11 | | | | | | | | | | | | | | | | | | | 36120 | 19773 | 45316 | 28968 | 44608 | 28260 | |
| | S12 | | | | | | | | | | | | | | | | | | | | | 42749 | 24915 | 48661 | 30827 | |
| | RP400SR | S05 | 12303 | 283 | 18976 | 6957 | 25649 | 13630 | 32323 | 20304 | 34987 | 22968 | 38996 | 26977 | 45669 | 33650 | 52343 | 40324 | | | | | | | 33084 | 21065 |
| | | S06 | | | | | 21436 | 7010 | 28110 | 13683 | 30774 | 16356 | 34774 | 20357 | 41448 | 27030 | 48121 | 33704 | 54795 | 40377 | | | | | 39704 | 25278 |
| | | S07 | | | | | | | 23631 | 7062 | 26561 | 9736 | 30561 | 13736 | 37235 | 20410 | 43908 | 27083 | 50581 | 33757 | 63929 | 47104 | | | 46325 | 29491 |
| | | S08 | | | | | | | | | | | | | 33022 | 13798 | 39659 | 20472 | 46369 | 27145 | 59715 | 40492 | 73063 | 53830 | 52936 | 33704 |
| S09 | | | | | | | | | | | | | | | | 35483 | 13851 | 42156 | 20525 | 55503 | 33892 | 68850 | 47216 | 59556 | 37925 | |
| S10 | | | | | | | | | | | | | | | | | | 37943 | 13904 | 51290 | 27251 | 64637 | 40598 | 66177 | 42138 | |
| S11 | | | | | | | | | | | | | | | | | | | | 47076 | 20631 | 60424 | 33987 | 72788 | 46351 | |
| S12 | | | | | | | | | | | | | | | | | | | | | | 56211 | 27366 | 79409 | 50564 | |

RP400SR-1000SR If need other size actuator, Please contact us anytime.

| Supply Pressure Model No. | OUTPUT TORQUE OF DOUBLE ACTING (INCH) DOUBLE ACTING TORQUE RATINGS IN (lbf · in) | | | | | | | | | | |
|---------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 2.5 Bar | 3 Bar | 3.5 Bar | 4 Bar | 4.2 Bar | 4.5 Bar | 5 Bar | 5.5 Bar | 6 Bar | 7 Bar | 8 Bar |
| RP50DA | 73.5 | 88.5 | 102.7 | 117.7 | 123.9 | 132.8 | 146.9 | 162 | 176.1 | 206.2 | 235.4 |
| RP63DA | 130.1 | 155.8 | 181.4 | 208 | 217.7 | 233.7 | 259.3 | 285 | 311.5 | 362.9 | 415.1 |
| RP75DA | 256.7 | 309.8 | 362.9 | 411.6 | 433.7 | 460.2 | 513.3 | 566.4 | 619.6 | 716.9 | 824 |
| RP88DA | 405.4 | 485.9 | 567.3 | 647.9 | 680.6 | 729.3 | 809.8 | 893.9 | 973.6 | 1132.9 | 1292.2 |
| RP100DA | 588.6 | 706.3 | 824 | 938.2 | 991.6 | 1062.1 | 1177.1 | 1292.2 | 1416.1 | 1646.2 | 1885.2 |
| RP125DA | 1920.6 | 1469.2 | 1717 | 1964.9 | 2062.2 | 2203.8 | 2451.6 | 2699.5 | 2938.4 | 3434.1 | 3920.9 |
| RP145DA | 2513.6 | 2310 | 2690.6 | 3080.1 | 3230.5 | 3460.6 | 3850.1 | 4230.6 | 4620.1 | 5390.1 | 6160.1 |
| RP160DA | 3389.8 | 3009.2 | 3513.7 | 4018.2 | 4221.8 | 4522.7 | 5018.4 | 5522.8 | 6027.3 | 7027.5 | 8036.5 |
| RP180DA | 4708.6 | 4062.5 | 4743.9 | 5425.5 | 5691 | 6098.1 | 6779.7 | 7452.3 | 8133.8 | 9487.9 | 10842.1 |
| RP200DA | 7903.7 | 5646.8 | 6593.8 | 7531.9 | 7903.7 | 8470.1 | 9417.2 | 10355.3 | 11293.5 | 13178.7 | 15063.9 |
| RP240DA | 11479.4 | 9487.9 | 11072.3 | 15656.5 | 13284.9 | 14231.9 | 15816.2 | 17347.4 | 18975.9 | 22144.5 | 25304.2 |
| RP265DA | 19931.8 | 13771.7 | 16064.1 | 18365.2 | 19285.7 | 20657.6 | 22958.8 | 25251.1 | 27543.4 | 32136.9 | 36730.5 |
| RP300DA | 22991.5 | 23923.5 | 27906.3 | 31898 | 33491.1 | 35880.8 | 39863.6 | 43855.3 | 47838.1 | 55812.6 | 63062.3 |
| RP350DA | 33366.3 | 27589.5 | 32188.3 | 36786.2 | 38625.4 | 41385.1 | 45983 | 50580.9 | 55179.8 | 64376.6 | 73573.4 |
| RP400DA | 77855 | | | | | | | | | | |

Customized Service

Top



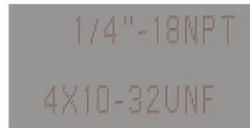
Side



Bottom



The side connection conforms to the VDI/VDE 3845 NAMUR standard
 The top connection conforms to VDI/VDE 3845 NAMUR standard
 The bottom connection conforms to ISO5211 and DIN3337 standard

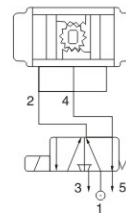


Each actuator is marked with a serial number, air connection and bottom mounting holes are marked for easy track and distinction.

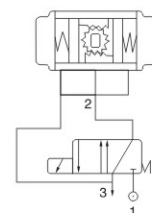
Top mounting pad configuration is in accordance with VDI / VDE 3845 Namur specification in order to permit simple and easy installation of the ancillary like switch boxes and positioners.

PMP can supply many different types of switch boxes and positioners for any application.

Air supply connection is in accordance with VDI / VDE3845 Namur specification to provide simple and easy solenoid valve installation direct mount avoiding piping and fittings. PMP can also supply Namur solenoid valves: 5/2 and 3/2 way in all standard voltages, D.C.or A.C.



5/2 SOLENOID VALVE OPERATION

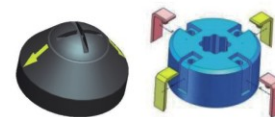


3/2 SOLENOID VALVE OPERATION

1、 Ancillaries installation without multi-function indicator

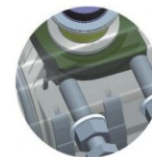
The actuator can be supplied upon request with a NAMUR that replaces the standard indicator and has the Namur drive slot permitting:

- 1)Accessories such as limit switch and positioner
- 2)Indicating the position of actuator via the Namur slot
- 3)Manual operation in emergency
- 4)Operating at high temperature.



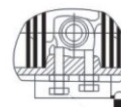
2、 External stroke adjustment

A great saving of time is achieved, when mounting the actuator on the valve,through the service friendly adjustment of both end positions with the precise cam system. The rotation angle is easily changeable with a special cam, Safety for emergency cases is possible through blocking of the actuator. This new feature can be used by simply changing the screw into a longer one.



3、 Lock-out capability in full-open of full-closed position

The actuator offers an economical solution when is requested to locking the Actuator in the full-open(90°) or fully-closed(0°) position. The actuator can be supplied with a Special bolt and locking device to permanently lock the actuator in position by using a padlock and prevent unwanted operation.





Imperial Dimension & Technical Data

| (DA/SR) | 50 | 63 | 75 | 88 | 100 | 125 | 145 | 160 | 180 | 200 | 240 | 265 | 300 |
|---------|------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| ISO5211 | F04 | F05 | F05/07 | F05/07 | F07/10 | F07/10 | F10/12 | F10/12 | F10/14 | F10/14 | F12/16 | F16 | F16 |
| A-120° | 1412 | 1589 | 2124 | 2487 | 2708 | 3496 | 4142 | 4425 | 4912 | 5470 | 6346 | 7514 | 8868 |
| A-180° | 1744 | 1960 | 2642 | 3080 | 3377 | 4390 | 5178 | 5541 | 6098 | 5709 | 7904 | 9444 | 10948 |
| B | 2.72 | 3.35 | 4.02 | 4.53 | 5 | 6.18 | 6.93 | 7.74 | 8.66 | 9.61 | 11.81 | 12.99 | 15.35 |
| C | 2.28 | 2.83 | 3.41 | 3.82 | 4.33 | 5.33 | 6.14 | 6.63 | 7.52 | 8.29 | 9.86 | 11.75 | 12.01 |
| D | M5 | M5 | M5 | M5 | M5 | M5 | M5 | M5 | M5 | M5 | M5 | M6 | M6 |
| E(NPT) | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" |
| F | 3.15 | 3.15 | 3.15 | 3.15 | 3.15 | 3.15 | 3.15 | 3.15 | 5.12 | 5.12 | 5.12 | 5.12 | 5.12 |
| G | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 |
| H | 0.79 | 0.79 | 0.79 | 0.79 | 0.79 | 1.18 | 1.18 | 1.18 | 1.97 | 1.97 | 1.97 | 1.97 | 1.97 |
| I | M5 | M5 | M5 | M5 | M5 | M5 | M5 | M5 | M5 | M5 | M5 | M5 | M5 |
| M | 1.14 | 1.42 | 1.71 | 1.94 | 2.18 | 2.74 | 3.11 | 3.46 | 3.86 | 4.25 | 5.14 | 6.44 | 6.69 |
| N | 1.61 | 1.85 | 2.09 | 2.22 | 2.64 | 3.23 | 3.58 | 3.88 | 4.21 | 4.43 | 5.14 | 6.54 | 7.60 |
| O | 0.43 | 0.55 | 0.67 | 0.67 | 0.87 | 1.06 | 1.06 | 1.06 | 1.42 | 1.42 | 1.81 | 1.81 | 2.17 |
| P | 1.06 | 1.14 | 1.14 | 1.26 | 1.46 | 1.79 | 2.07 | 2.05 | 2.28 | 2.46 | 3.07 | 6.52 | 7.68 |
| Q | 1.65 | 1.97 | 1.97 | 1.97 | 2.76 | 2.76 | 4.02 | 4.02 | 4.02 | 4.02 | 4.92 | 6.50 | 6.50 |
| Q1 | — | — | 2.76 | 2.76 | 4.02 | 4.02 | 4.92 | 4.92 | 5.51 | 5.51 | 6.50 | — | — |
| R | 1.26 | 1.26 | 1.26 | 1.26 | 1.26 | 1.26 | 1.26 | 1.26 | 1.26 | 1.26 | 1.77 | 1.77 | 1.77 |
| S | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 1.57 | 1.57 | 1.57 |
| T | 0.47 | 0.63 | 0.71 | 0.71 | 0.87 | 1.06 | 1.26 | 1.26 | 1.54 | 1.54 | 1.93 | 2.72 | 2.72 |
| W | M5 | M6 | M6 | M6 | M8 | M8 | M10 | M10 | M10 | M10 | M12 | M20 | M20 |
| W1 | — | — | M8 | M8 | M10 | M10 | M12 | M12 | M14 | M14 | M16 | — | — |
| ΦZ | 1.61 | 1.61 | 1.61 | 1.61 | 1.61 | 2.20 | 2.56 | 2.56 | 3.15 | 3.15 | 4.53 | 4.53 | 4.53 |

PMP reserves the right to amend the technical parameters.

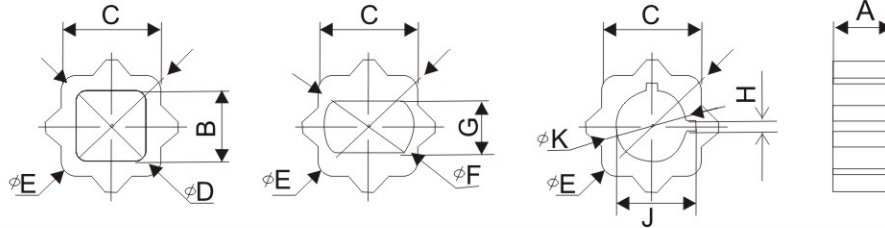
| Model Type | | | RP50DA | RP63DA | RP72DA | RP88DA | RP100DA | RP125DA | RP180DA | RP200DA |
|--------------------|-----------------------------------|-----------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | | 120° X 180° X | 120° X 180° X | 120° X 180° X | 120° X 180° X | 120° X 180° X | 120° X 180° X | 120° X 180° X | 120° X 180° X |
| Metric system | Cylinder bore | mm | 50 | 63 | 75 | 85 | 100 | 128 | 180 | 200 |
| | Travelling schedule adjustment | Needs the rotation(L) | 1/6turn | 1/6turn | 1/6turn | 1/5turn | 1/5turn | 1/4turn | 1/4turn | 1/4turn |
| | Opens to the air cylinder volume | (L) | 0.11 0.17 | 0.2 0.29 | 0.39 0.56 | 0.63 0.92 | 0.9 1.3 | 1.9 2.9 | 3.9 5.7 | 4.4 |
| | Closes to the air cylinder volume | (L) | 0.18 0.27 | 0.32 0.47 | 0.61 0.88 | 0.97 1.4 | 1.42 | 2.9 4.2 | 6.2 8.8 | 11.8 |
| | Ope times | S(Sec.) | 0.26 0.31 | 0.33 0.39 | 0.39 0.47 | 0.52 0.63 | 0.65 0.79 | 1.17 1.41 | 1.95 2.36 | 3.51 |
| | Closes times | S(Sec.) | 0.33 0.39 | 0.39 0.47 | 0.52 0.63 | 0.65 0.79 | 0.91 1.10 | 1.56 1.88 | 2.34 2.83 | 4.55 |
| Approximate weight | (Kg) | 1.2 1.5 | 2.25 | 3.4 4.4 | 4.66 | 6.6 8.1 | 12.3 15.4 | 24.6 29.5 | 44 | |
| British system | Cylinder bore | (inch) | 1.97 1.97 | 2.48 2.48 | 2.95 2.95 | 3.35 3.35 | 3.94 3.94 | 4.92 4.92 | 6.30 6.30 | 7.87 |
| | Travelling schedule adjustment | Needs the rotation(L) | 1/6turn | 1/6turn | 1/6turn | 1/5turn | 1/5turn | 1/4turn | 1/4turn | 1/4turn |
| | Opens to the air cylinder volume | (L) | 6.7 10.4 | 12.2 17.7 | 23.8 34.2 | 38.5 58.2 | 54.4 79.4 | 117.3 171.1 | 239.6 348.3 | 452.5 |
| | Closes to the air cylinder volume | (L) | 11 16.5 | 19.6 28.7 | 37.3 53.8 | 29.3 85.6 | 84.3 122.2 | 178.4 256.7 | 257.8 537.8 | 721.1 |
| | Ope times | S(Sec.) | 0.26 0.31 | 0.33 0.39 | 0.39 0.47 | 0.52 0.63 | 0.65 0.79 | 1.17 1.41 | 1.95 2.36 | 3.51 |
| | Closes times | S(Sec.) | 0.33 0.39 | 0.39 0.47 | 0.52 0.63 | 0.65 0.79 | 0.91 1.10 | 1.56 1.88 | 2.34 2.83 | 4.56 |
| Approximate weight | (Lb) | 2.6 3.3 | 4.4 4.5 | 7.4 9.6 | 10.1 13.1 | 14.4 17.7 | 26.9 33.7 | 53.8 64.5 | 96.3 | |

PMP reserves the right to amend the technical parameters.

(A) The above indicated moving time of the actuator are obtained in the following test conditions: (1)Room Temperature.(2)Actuator Stroke 120° and 180° . (3)Solenoid Valve with orifice of 4mm and a flow capacity Qn 400L/min.(4)Inside pipe diameter 8mm.(5)Medium clean air.(6)Air supply pressure 5.5 bar(79.75psi). (7)Actuator without external resistance load.

Cautions: obviously on the field applications when one or more parameter varies, the operating time will be different.

Accessories Insert

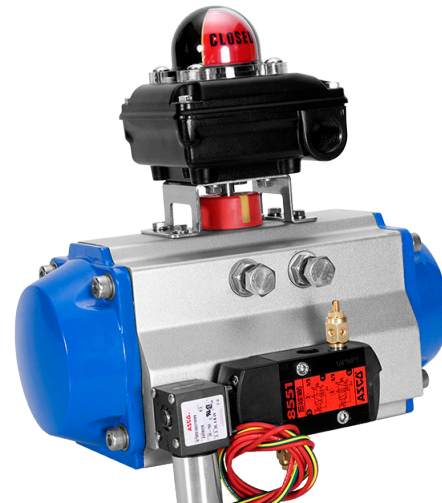


| Size | | A | | B | | C | | D | | E | | F | | G | | H | | J | | K | |
|--------|---|----|------|----|------|----|------|-------|-------|-----|-------|-------|-------|----|------|----|------|------|------|-----|-------|
| Model | | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in |
| RP 50 | 1 | 12 | 0.47 | 9 | 0.35 | 11 | 0.43 | φ12.2 | φ0.48 | φ14 | φ0.55 | | | | | | | | | | |
| | 2 | | | | | | | | | | | | | | | | | | | | |
| | 3 | | | | | | | | | | | | | | | | | | | | |
| RP 63 | 1 | 14 | 0.55 | 9 | 0.35 | 14 | 0.55 | φ12.2 | φ0.48 | φ18 | φ0.71 | φ12.2 | φ0.48 | 9 | 0.35 | | | | | | |
| | 2 | 14 | 0.55 | 11 | 0.43 | 14 | 0.55 | φ15 | φ0.59 | φ18 | φ0.71 | | | | | | | | | | |
| | 3 | | | | | | | | | | | | | | | | | | | | |
| RP 75 | 1 | 18 | 0.71 | 9 | 0.35 | 17 | 0.67 | φ12.2 | φ0.48 | φ22 | φ0.87 | φ12.2 | φ0.48 | 9 | 0.35 | 4 | 0.16 | 13.8 | 0.54 | φ12 | φ0.47 |
| | 2 | 18 | 0.71 | 11 | 0.43 | 17 | 0.67 | φ15 | φ0.59 | φ22 | φ0.87 | φ15 | φ0.59 | 11 | 0.43 | | | | | | |
| | 3 | 18 | 0.71 | 14 | 0.55 | 17 | 0.67 | φ18.5 | φ0.73 | φ22 | φ0.87 | | | | | | | | | | |
| RP 100 | 1 | 22 | 0.87 | 11 | 0.43 | 22 | 0.87 | φ15 | φ0.59 | φ28 | φ1.10 | φ12.2 | φ0.48 | 9 | 0.35 | 4 | 0.16 | 13.8 | 0.54 | φ12 | φ0.47 |
| | 2 | 22 | 0.87 | 14 | 0.55 | 22 | 0.87 | φ18.5 | φ0.73 | φ28 | φ1.10 | φ15 | φ0.59 | 11 | 0.43 | 5 | 0.20 | 16.3 | 0.64 | φ14 | φ0.55 |
| | 3 | 22 | 0.87 | 17 | 0.67 | 22 | 0.87 | φ23 | φ0.91 | φ28 | φ1.10 | φ18.5 | φ0.73 | 14 | 0.55 | | | | | | |
| RP 125 | 1 | 27 | 1.06 | 14 | 0.55 | 27 | 1.06 | φ18.5 | φ0.73 | φ36 | φ1.42 | φ12.2 | φ0.48 | 9 | 0.35 | 4 | 0.16 | 13.8 | 0.54 | φ12 | φ0.47 |
| | 2 | 27 | 1.06 | 17 | 0.67 | 27 | 1.06 | φ23 | φ0.91 | φ36 | φ1.42 | φ15 | φ0.59 | 11 | 0.43 | 5 | 0.20 | 16.3 | 0.64 | φ14 | φ0.55 |
| | 3 | 27 | 1.06 | 22 | 0.87 | 27 | 1.06 | φ29 | φ1.14 | φ36 | φ1.42 | φ18.5 | φ0.73 | 14 | 0.55 | 6 | 0.24 | 20.8 | 0.82 | φ18 | φ0.71 |
| RP 180 | 1 | 36 | 1.42 | 17 | 0.67 | 36 | 1.42 | φ23 | φ0.91 | φ48 | φ1.89 | φ18.5 | φ0.73 | 14 | 0.55 | 6 | 0.24 | 20.8 | 0.82 | φ18 | φ0.71 |
| | 2 | 36 | 1.42 | 22 | 0.87 | 36 | 1.42 | φ29 | φ1.14 | φ48 | φ1.89 | φ23 | φ0.91 | 17 | 0.67 | 6 | 0.24 | 24.8 | 0.98 | φ22 | φ0.87 |
| | 3 | 36 | 1.42 | 27 | 1.06 | 36 | 1.42 | φ37 | φ1.46 | φ48 | φ1.89 | φ29 | φ1.14 | 22 | 0.87 | 8 | 0.31 | 31.3 | 1.23 | φ28 | φ1.10 |
| RP 240 | 1 | 46 | 1.81 | 22 | 0.87 | 46 | 1.81 | φ29 | φ1.14 | φ60 | φ2.36 | φ23 | φ0.91 | 17 | 0.67 | 6 | 0.24 | 24.8 | 0.98 | φ22 | φ0.87 |
| | 2 | 46 | 1.81 | 27 | 1.06 | 46 | 1.81 | φ37 | φ1.46 | φ60 | φ2.36 | φ29 | φ1.14 | 22 | 0.87 | 8 | 0.31 | 31.3 | 1.23 | φ28 | φ1.10 |
| | 3 | 46 | 1.81 | 36 | 1.42 | 46 | 1.81 | 49 | φ1.93 | φ60 | φ2.36 | φ37 | φ1.46 | 27 | 1.06 | 10 | 0.39 | 39.3 | 1.55 | φ36 | φ1.42 |
| RP 300 | 1 | 55 | 2.17 | 27 | 1.06 | 55 | 2.17 | 37 | φ1.46 | φ72 | φ2.83 | φ29 | φ1.14 | 22 | 0.87 | 10 | 0.39 | 39.3 | 1.55 | φ36 | φ1.42 |
| | 2 | 55 | 2.17 | 36 | 1.42 | 55 | 2.17 | 49 | φ1.93 | φ72 | φ2.83 | φ37 | φ1.46 | 27 | 1.06 | 12 | 0.47 | 45.3 | 1.78 | φ42 | φ1.65 |
| | 3 | 55 | 2.17 | 46 | 1.81 | 55 | 2.17 | 62 | φ2.44 | φ72 | φ2.83 | φ49 | φ1.93 | 36 | 1.42 | 14 | 0.55 | 51.8 | 2.04 | φ48 | φ1.89 |

Accessories

YT-850 Limit Switch Box

- Visual position indicator
- Splined and spring loaded cams
- Multipoint terminal strip
- 1/2" conduit entries
- Captive cover bolts
- ISO mounting brackets



WT-8551

- Compact spool valve with threaded port connections.
- Standard manual override
- DIN, Watertight and Explosionproof available
- Single and dual solenoid constructions
- Various voltages

YT-1000R Electro-Pneumatic Positioner

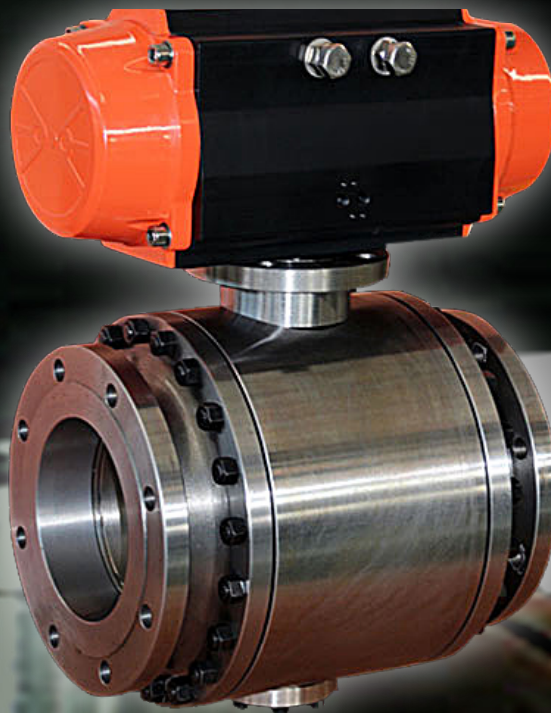
The Electro-Pneumatic Positioner is used for operation of pneumatic rotary actuators by means of electrical controller or control system with analog output signal of DC 4 to 20mA or split ranges.



YT-1200R Pneumatic-Pneumatic Positioner

The Pneumatic Positioner is used for pneumatic rotary valve actuators by means of pneumatic controller or control systems with an output signal of 3 to 5 psi or split ranges.





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