

佶洋閥業有限公司 KING YOUNG VALVES CO.,LTD

PROFESSIONAL MANUFACTURER

氣動驅動器 Pneumatic Actuator



Management System Certification

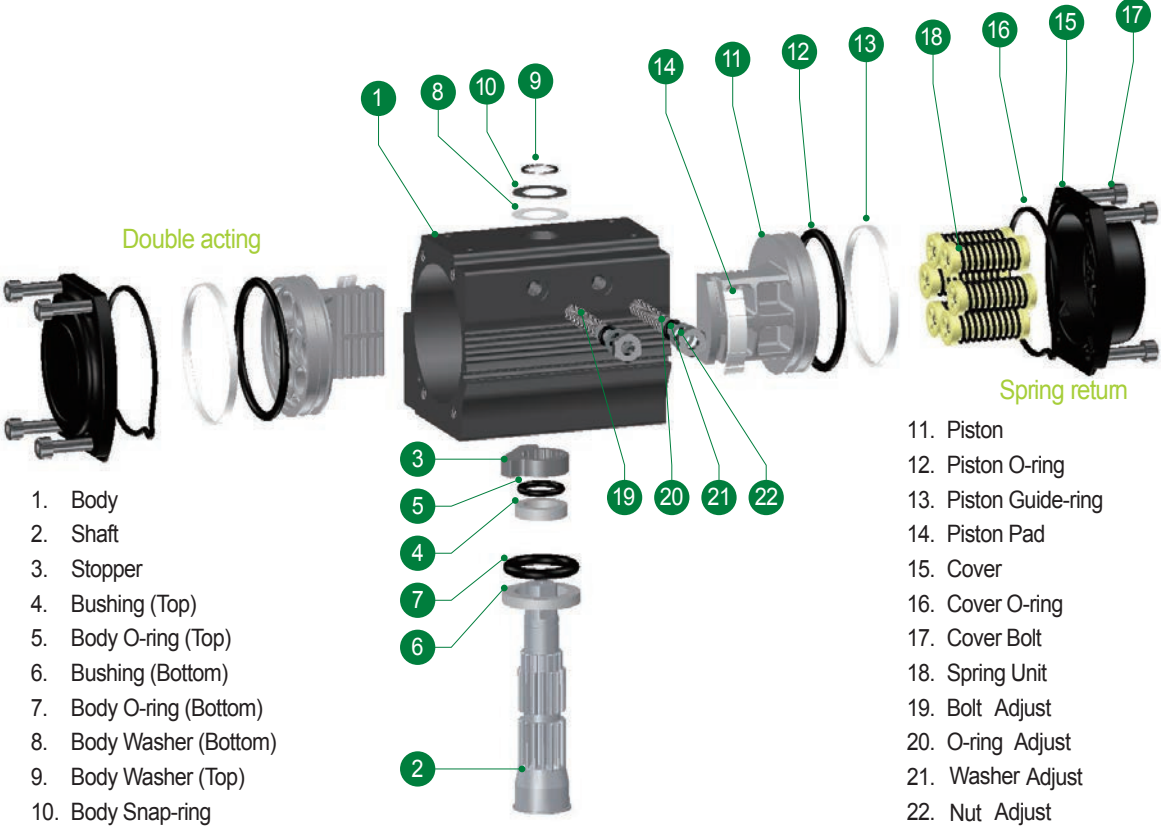


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Part List



Operating Mechanism

| | | | | |
|---------------|-------------------------|--|-------|-------|
| DOUBLE ACTING | Action "A" | | | |
| | | | Open | Close |
| SPRING RETURN | Action "A" (Fail Close) | | | |
| | | | Open | Close |
| | Action "B" (Fail Open) | | | |
| | | | Close | Open |



氣缸均可加裝極限開關 電磁閥 或其他配件

All pneumatic actuators can be assembled with Limit Switch, solenoid valve, and other accessories;

Aluminum Cover: is not easily peeled off, and its polish can last long as it is power coated upon special surface treatment.

鋁合金端蓋: 進行特殊表面處理後塗裝, 表面不易脫落, 可長期維持光澤。

As there is **no friction between metal to metal**, product life is long and without noise.

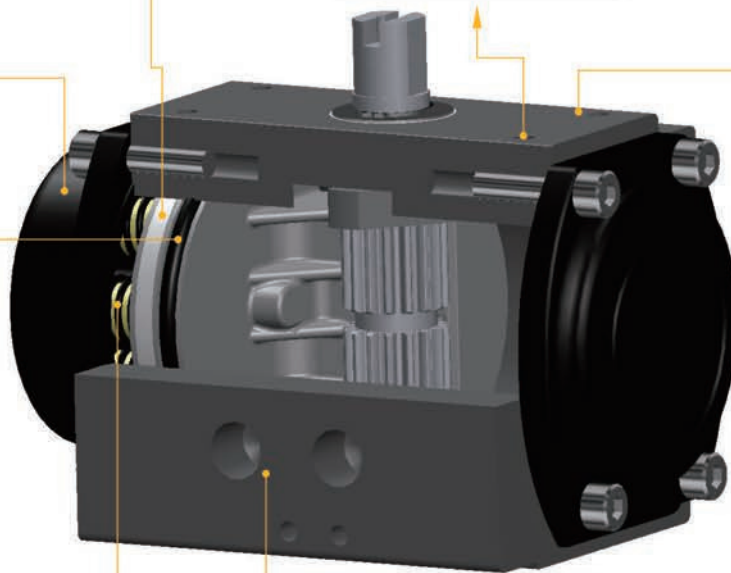
沒有金屬間的摩擦, 壽命長, 無噪音。

ISO 5211/DIN 3337: is the international standards, and thus the products can easily be fitted (assembled) with the accessories such as limit switch box.

ISO 5211/DIN 3337: 標準規格部件, 可直接裝上限位開關等配件。

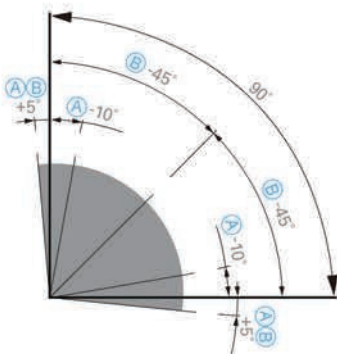
Aluminum Body is anodized to prevent internal/external scratches and thus securing long product life.

鋁合金缸體: 陽極硬化處理, 可同時保護內/外部, 不易被刮傷, 有助於延長壽命。



NBR: The products can be used at low/high temperature as the products are available in EPDM and/or VITON in addition to the standard NBR.

NBR: 除了標準NBR以外, EPDM或VITON可以在高/低溫使用。



Spring Cap: enables safer assembly/disassembly.

彈簧套: 利用彈簧套保障安全, 可安全的進行分解及裝配工作。

NAMUR: is the international standard, and thus the products can easily be fitted with solenoid valves.

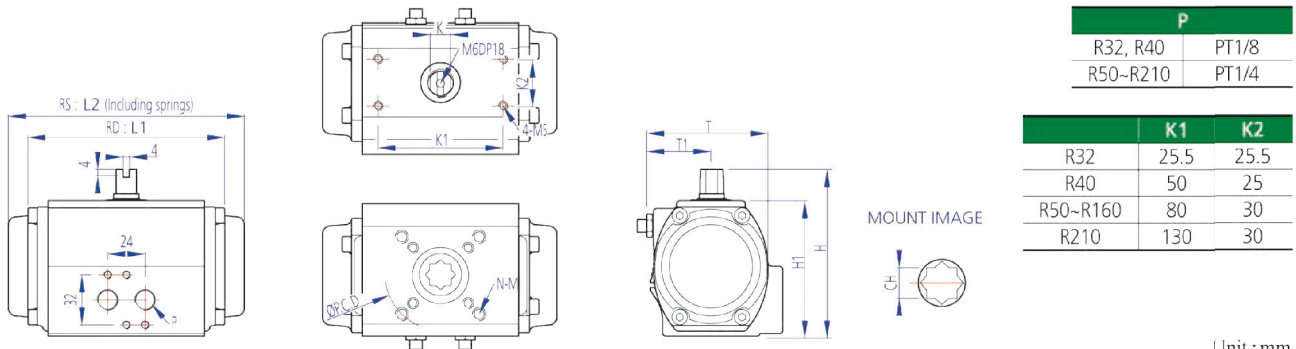
NAMUR: 標準規格部件, 可以迅速、簡便的裝上電磁閥。

A - STANDARD
B - SPECIAL (OPTION)

| | |
|-------------|---|
| Angle range | +5° 90° -10° (standard) -45° (option) |
|-------------|---|

Dimension table

Rack&pinion Double acting / Spring return



Unit : mm

| MODEL | ISO | P.C.D(Ø) | N-G | K | L1 (RD) | L2 (RS) | T | T1 | H | H1 | CH | DTH | W1(K) (RD) | W2(K) (RS) |
|-------|-------------|----------|------------|----|---------|---------|------|------|-------|------|----------------|----------|------------|------------|
| *R32 | F03 | 36 | 4-M5 | 7 | 66 | - | 45 | 25 | 55 | 45 | 9*9 | 9 | 0.3 | - |
| *R40 | F03/F05 | 36/50 | 4-M5/M6 | 9 | 109 | 109 | 60 | 33 | 74 | 54 | 9*9 | 9 | 0.6 | 0.6 |
| R50 | F03/F05/F07 | 36/50/70 | 4-M5/M6/M8 | 10 | 119 | 133 | 75 | 40 | 90 | 70 | 11*11 | 13 | 1.3 | 1.6 |
| R65 | F05/F07 | 50/70 | 4-M6/M8 | 13 | 131 | 154 | 88.5 | 46 | 106.5 | 86.5 | 14*14 | 16 | 1.7 | 2.1 |
| R80 | F07 | 70 | 4-M8 | 17 | 189 | 220 | 101 | 49.5 | 126 | 106 | 17*17 | 19 | 2.7 | 3.4 |
| R90 | F07 | 70 | 4-M8 | 19 | 190 | 219 | 104 | 54.5 | 136 | 116 | 17*17 | 19 | 4.1 | 5.1 |
| R100 | F07/F10 | 70/102 | 4-M8/M10 | 22 | 229 | 256 | 132 | 61.5 | 148 | 128 | 22*22 17*17 | 26 19 | 4.7 | 5.9 |
| R125 | F07/F10 | 70/102 | 4-M8/M10 | 22 | 330 | 330 | 151 | 71.5 | 174 | 154 | 22*22 | 19 | 7.4 | 9.2 |
| R140 | F10/F12 | 102/125 | 4-M10/M12 | 24 | 332 | 389 | 164 | 77 | 192 | 172 | 27*27 22*22 | 30 19 | 12.1 | 15.1 |
| R160 | F10/F12 | 102/125 | 4-M10/M12 | 32 | 366 | 416 | 188 | 104 | 216 | 196 | 27*27 | 30 | 16.8 | 21.0 |
| R210 | F14 | 140 | 4-M16 | 36 | 444 | 527 | 231 | 115 | 284 | 254 | 36*36 | 30 | 29.9 | 37.3 |

- New model (R300) will be added.
- Models beginning with '**' indicate compact models. They may look different to the above images in real, simultaneous angle adjustment at both sides is disabled.
- 有 '**' 標誌的型號為小型型號, 與上術圖片形像有所不同, 也無法調整角度。

Torque table (Double acting)

Unit : Nm

| MODEL | SUPPLY AIR | | | | |
|-------|------------|-------|---------|---------|---------|
| | 3Bar | 4Bar | 4.5Bar | 5Bar | 6Bar |
| RD32 | 3.2 | 4.5 | 5.3 | 6.0 | 7.3 |
| RD40 | 5.0 | 7.0 | 8.0 | 9.0 | 11.0 |
| RD50 | 10.3 | 13.7 | 15.5 | 17.1 | 20.6 |
| RD65 | 19.1 | 25.4 | 28.6 | 31.8 | 38.2 |
| RD80 | 39.3 | 52.2 | 58.8 | 65.3 | 78.4 |
| RD90 | 57.8 | 77.1 | 86.8 | 96.4 | 115.7 |
| RD100 | 84.4 | 112.5 | 126.5 | 140.6 | 168.7 |
| RD125 | 171.2 | 228.4 | 256.9 | 285.4 | 342.5 |
| RD140 | 243.3 | 324.4 | 365.0 | 405.5 | 486.6 |
| RD160 | 350.7 | 467.6 | 526.0 | 584.4 | 701.3 |
| RD210 | 725.4 | 967.2 | 1,088.1 | 1,209.0 | 1,450.8 |

Torque table (Spring return)

Unit : Nm

| Model | Spring unit | Supply Air | | | | | | | | | | | | | |
|-------|-------------|------------|-------|-------|-------|--------|-------|---------|-------|---------|---------|---------|---------|--------|-------|
| | | 3Bar | | 4Bar | | 4.5Bar | | 5Bar | | 6Bar | | 7Bar | | SPRING | |
| | | 0° | 90° | 0° | 90° | 0° | 90° | 0° | 90° | 0° | 90° | 0° | 90° | 90° | 0° |
| RS40 | 1 | 2.0 | - | 4.0 | 2.0 | 5.0 | 3.0 | 6.0 | 4.0 | 8.0 | 7.0 | 10.0 | 8.0 | 10.0 | 6.0 |
| | 2 | 1.0 | - | 2.0 | - | 3.0 | - | 4.0 | - | 6.0 | 2.0 | 8.0 | 4.0 | 12.0 | 9.0 |
| RS50 | 5 | 6.8 | 5.3 | 10.2 | 8.7 | 11.9 | 10.4 | 13.6 | 12.1 | - | - | - | - | 5.0 | 3.5 |
| | 6 | 6.2 | 4.3 | 9.6 | 7.7 | 11.3 | 9.5 | 13.0 | 11.1 | 16.5 | 14.6 | - | - | 6.0 | 4.1 |
| | 7 | 5.5 | 3.3 | 8.9 | 6.7 | 10.6 | 8.4 | 12.3 | 10.1 | 15.8 | 13.6 | 19.2 | 17.0 | 7.0 | 4.8 |
| | 8 | 4.7 | 2.3 | 8.1 | 5.7 | 9.9 | 7.4 | 11.5 | 9.1 | 15.0 | 12.6 | 18.4 | 16.0 | 8.0 | 5.6 |
| | 9 | - | - | 7.4 | 4.6 | 9.2 | 6.4 | 10.8 | 8.0 | 14.3 | 11.5 | 17.7 | 14.9 | 9.1 | 6.3 |
| | 10 | - | - | 6.8 | 3.7 | 8.5 | 5.5 | 10.2 | 7.1 | 13.7 | 10.6 | 17.1 | 14.0 | 10.0 | 6.9 |
| | 11 | - | - | - | - | 7.8 | 4.4 | 9.5 | 6.1 | 13.0 | 9.6 | 16.4 | 13.0 | 11.0 | 7.6 |
| | 12 | - | - | - | - | - | - | - | - | 12.3 | 8.5 | 15.7 | 11.9 | 12.1 | 8.3 |
| RS65 | 5 | 13.2 | 10.1 | 19.6 | 16.5 | 22.8 | 19.7 | 26.0 | 22.9 | - | - | - | - | 8.9 | 5.9 |
| | 6 | 11.9 | 8.3 | 18.3 | 14.7 | 21.5 | 17.9 | 24.7 | 21.1 | 31.1 | 27.5 | - | - | 10.8 | 7.1 |
| | 7 | 10.8 | 6.5 | 17.1 | 12.9 | 20.3 | 16.1 | 23.5 | 19.3 | 29.9 | 25.7 | 36.3 | 32.0 | 12.6 | 8.3 |
| | 8 | 9.6 | 4.7 | 16.0 | 11.1 | 19.2 | 14.3 | 22.4 | 17.5 | 28.7 | 23.8 | 35.1 | 30.2 | 14.4 | 9.5 |
| | 9 | - | - | 14.8 | 9.3 | 18.0 | 12.5 | 21.2 | 15.6 | 27.6 | 22.0 | 34.0 | 28.4 | 16.2 | 10.6 |
| | 10 | - | - | 13.6 | 7.5 | 16.8 | 10.6 | 20.0 | 13.8 | 26.4 | 20.2 | 32.8 | 26.6 | 18.0 | 11.8 |
| | 11 | - | - | - | - | 15.6 | 8.8 | 18.8 | 12.0 | 25.2 | 18.4 | 31.6 | 24.8 | 19.8 | 13.0 |
| | 12 | - | - | - | - | - | - | - | - | 24.1 | 16.7 | 30.4 | 23.1 | 21.5 | 14.2 |
| RS80 | 5 | 26.6 | 19.6 | 39.6 | 32.5 | 46.2 | 39.1 | 52.7 | 45.6 | - | - | - | - | 19.7 | 12.6 |
| | 6 | 24.1 | 15.6 | 37.1 | 28.6 | 43.7 | 35.2 | 50.2 | 41.6 | 63.3 | 54.7 | - | - | 23.7 | 15.1 |
| | 7 | 21.6 | 11.7 | 34.6 | 24.7 | 41.2 | 31.3 | 47.7 | 37.8 | 60.8 | 50.9 | 73.8 | 63.9 | 27.5 | 17.6 |
| | 8 | 19.1 | 7.7 | 32.1 | 20.7 | 38.7 | 27.3 | 45.2 | 33.8 | 58.3 | 46.9 | 71.3 | 60.0 | 30.7 | 20.1 |
| | 9 | - | - | 29.6 | 16.7 | 36.2 | 23.3 | 42.7 | 29.8 | 55.7 | 42.9 | 68.8 | 56.0 | 35.5 | 22.6 |
| | 10 | - | - | 27.1 | 12.9 | 33.7 | 19.5 | 40.4 | 25.9 | 53.2 | 39.0 | 66.3 | 52.1 | 39.4 | 25.1 |
| | 11 | - | - | - | - | 31.2 | 15.5 | 37.7 | 22.0 | 50.7 | 35.0 | 63.8 | 48.1 | 43.3 | 27.6 |
| | 12 | - | - | - | - | - | - | - | - | 48.2 | 31.2 | 61.3 | 44.3 | 47.2 | 30.1 |
| RS90 | 5 | 38.7 | 27.6 | 57.9 | 46.9 | 67.7 | 56.6 | 77.3 | 66.2 | - | - | - | - | 30.2 | 19.1 |
| | 6 | 34.8 | 21.5 | 54.1 | 40.8 | 63.8 | 50.5 | 73.4 | 60.1 | 92.7 | 79.4 | - | - | 36.3 | 23.0 |
| | 7 | 31.0 | 15.6 | 50.2 | 34.8 | 59.9 | 44.6 | 69.6 | 54.2 | 88.8 | 73.4 | 108.0 | 92.7 | 42.3 | 26.9 |
| | 8 | 27.2 | 9.5 | 46.4 | 28.8 | 56.2 | 38.5 | 65.8 | 48.1 | 85.0 | 67.4 | 104.3 | 86.6 | 48.3 | 30.6 |
| | 9 | - | - | 42.6 | 22.7 | 52.3 | 32.4 | 61.9 | 42.0 | 81.2 | 61.3 | 100.4 | 80.5 | 54.4 | 34.5 |
| | 10 | - | - | 38.7 | 16.6 | 48.4 | 26.4 | 58.0 | 36.0 | 77.3 | 55.2 | 96.5 | 74.5 | 60.5 | 38.4 |
| | 11 | - | - | - | - | 44.7 | 20.4 | 54.3 | 30.0 | 73.5 | 49.3 | 92.8 | 68.5 | 66.4 | 42.1 |
| | 12 | - | - | - | - | - | - | - | - | 69.7 | 43.2 | 88.9 | 62.4 | 72.5 | 46.0 |
| RS100 | 5 | 58.3 | 43.8 | 86.4 | 71.9 | 100.4 | 85.9 | 114.5 | 100.0 | - | - | - | - | 40.6 | 26.1 |
| | 6 | 53.0 | 35.6 | 81.2 | 63.8 | 95.2 | 77.8 | 109.3 | 91.9 | 137.4 | 120.0 | - | - | 48.7 | 31.3 |
| | 7 | 47.8 | 27.6 | 75.9 | 55.7 | 89.9 | 69.7 | 104.0 | 83.8 | 132.1 | 112.0 | 160.3 | 140.1 | 56.8 | 36.6 |
| | 8 | 42.6 | 19.5 | 70.8 | 47.6 | 84.8 | 61.6 | 98.9 | 75.7 | 127.0 | 103.8 | 155.1 | 131.9 | 64.9 | 41.7 |
| | 9 | - | - | 65.5 | 39.4 | 79.5 | 53.5 | 93.6 | 67.6 | 121.7 | 95.7 | 149.9 | 123.8 | 73.0 | 47.0 |
| | 10 | - | - | 60.3 | 31.3 | 74.3 | 45.3 | 88.4 | 59.4 | 116.5 | 87.6 | 144.6 | 115.7 | 81.2 | 52.2 |
| | 11 | - | - | - | - | 69.1 | 37.2 | 83.2 | 51.3 | 111.3 | 79.4 | 139.5 | 107.5 | 89.3 | 57.4 |
| | 12 | - | - | - | - | - | - | - | - | 106.1 | 71.4 | 134.2 | 99.5 | 97.3 | 62.6 |
| RS125 | 5 | 117.1 | 86.7 | 174.3 | 143.9 | 202.8 | 172.4 | 231.3 | 201.0 | - | - | - | - | 84.5 | 54.1 |
| | 6 | 106.3 | 69.2 | 163.5 | 126.4 | 192.0 | 154.9 | 220.5 | 183.4 | 277.6 | 240.5 | - | - | 102.0 | 64.9 |
| | 7 | 95.5 | 52.7 | 152.6 | 109.9 | 181.2 | 138.4 | 209.7 | 167.0 | 266.8 | 224.0 | 323.8 | 281.1 | 118.5 | 75.7 |
| | 8 | 84.7 | 35.2 | 141.8 | 92.4 | 170.4 | 120.9 | 198.9 | 149.5 | 256.0 | 206.5 | 313.0 | 263.6 | 136.0 | 86.5 |
| | 9 | - | - | 131.0 | 75.9 | 159.5 | 104.4 | 188.1 | 133.0 | 245.1 | 190.0 | 302.2 | 247.1 | 152.4 | 97.3 |
| | 10 | - | - | 120.2 | 58.4 | 148.7 | 86.9 | 177.3 | 115.5 | 234.3 | 172.5 | 291.4 | 229.6 | 170.0 | 108.2 |
| | 11 | - | - | - | - | 137.4 | 70.5 | 165.9 | 99.0 | 223.0 | 156.0 | 280.1 | 213.1 | 186.4 | 119.5 |
| | 12 | - | - | - | - | - | - | - | - | 212.7 | 138.5 | 269.8 | 195.6 | 203.9 | 129.8 |
| RS140 | 5 | 126.3 | 82.5 | 248.0 | 204.2 | 288.5 | 244.7 | 329.1 | 285.3 | - | - | - | - | 120.3 | 76.4 |
| | 6 | 110.5 | 58.3 | 232.1 | 179.9 | 272.7 | 220.5 | 313.2 | 261.0 | 394.3 | 342.1 | - | - | 144.5 | 92.3 |
| | 7 | 95.6 | 35.0 | 217.2 | 156.6 | 257.8 | 197.2 | 298.3 | 237.7 | 379.4 | 318.8 | 460.5 | 399.9 | 167.8 | 107.2 |
| | 8 | 79.7 | 10.7 | 201.4 | 132.4 | 241.9 | 172.9 | 282.5 | 213.5 | 363.6 | 294.6 | 444.7 | 375.7 | 192.0 | 123.1 |
| | 9 | - | - | 186.4 | 108.1 | 227.0 | 148.7 | 267.5 | 189.2 | 348.6 | 270.3 | 429.7 | 351.4 | 216.3 | 138.0 |
| | 10 | - | - | 170.6 | 83.9 | 211.1 | 124.4 | 251.7 | 165.0 | 332.8 | 246.1 | 413.9 | 327.2 | 240.5 | 153.8 |
| | 11 | - | - | - | - | 196.2 | 101.1 | 236.8 | 141.7 | 317.9 | 222.8 | 399.0 | 303.9 | 263.8 | 168.7 |
| | 12 | - | - | - | - | - | - | - | - | 302.0 | 198.6 | 383.1 | 279.7 | 288.0 | 184.6 |
| RS160 | 5 | 235.4 | 179.7 | 352.3 | 296.6 | 410.7 | 355.0 | 469.1 | 413.4 | - | - | - | - | 171.0 | 115.4 |
| | 6 | 211.7 | 145.7 | 328.6 | 262.7 | 387.0 | 321.1 | 445.4 | 379.5 | 562.3 | 496.4 | - | - | 205.0 | 139.1 |
| | 7 | 189.0 | 110.7 | 305.9 | 227.6 | 364.3 | 286.0 | 422.7 | 344.4 | 539.6 | 461.3 | 656.5 | 578.2 | 240.0 | 161.7 |
| | 8 | 165.3 | 76.7 | 282.2 | 193.6 | 340.6 | 252.0 | 399.0 | 310.4 | 515.9 | 427.3 | 632.8 | 544.3 | 274.0 | 185.4 |
| | 9 | - | - | 259.6 | 159.7 | 318.0 | 218.1 | 376.4 | 276.5 | 493.3 | 393.4 | 610.2 | 510.3 | 308.0 | 208.1 |
| | 10 | - | - | 236.9 | 125.7 | 295.3 | 184.1 | 353.7 | 242.5 | 470.6 | 359.4 | 587.5 | 476.3 | 342.0 | 230.7 |
| | 11 | - | - | - | - | 271.6 | 150.1 | 330.0 | 208.5 | 446.9 | 325.4 | 563.8 | 442.3 | 376.0 | 254.4 |
| | 12 | - | - | - | - | - | - | - | - | 424.3 | 290.4 | 541.2 | 407.3 | 411.0 | 277.1 |
| RS210 | 4 | 563.8 | 442.9 | 805.6 | 684.6 | - | - | - | - | - | - | - | - | 282.5 | 161.6 |
| | 5 | 523.4 | 372.3 | 765.2 | 614.1 | 886.1 | 735.0 | 1,007.0 | 855.9 | - | - | - | - | 353.1 | 202.0 |
| | 6 | 483.1 | 301.7 | 724.8 | 543.4 | 845.7 | 664.4 | 966.7 | 785.3 | 1,208.2 | 1,027.0 | - | - | 423.7 | 242.4 |
| | 7 | 442.6 | 231.0 | 684.3 | 472.8 | 805.3 | 593.7 | 926.2 | 714.6 | 1,168.0 | 956.4 | 1,410.1 | 1,197.9 | 494.4 | 282.8 |
| | 8 | - | - | 644.0 | 402.2 | 764.9 | 523.1 | 885.8 | 644.1 | 1,127.9 | 885.8 | 1,369.9 | 1,127.9 | 565.0 | 323.2 |
| | 9 | - | - | 603.6 | 331.6 | 724.5 | 452.5 | 845.4 | 573.4 | 1,087.7 | 815.1 | 1,328.7 | 1,056.8 | 635.6 | 363.6 |
| | 10 | - | - | 563.2 | 260.9 | 684.1 | 381.8 | 805.0 | 502.7 | 1,046.5 | 744.5 | 1,288.5 | 986.3 | 706.3 | 404.0 |
| | 11 | - | - | - | - | 643.8 | 311.3 | 764.7 | 432.2 | 1,006.4 | 673.9 | 1,248.4 | 915.8 | 776.8 | 444.3 |
| 12 | - | - | - | - | 603.3 | 240.6 | 724.2 | 361.5 | 965.9 | 603.3 | 1,208.2 | 845.1 | 847.5 | 484.8 | |

- You may select the number of springs (unit); if unspecified in P/O, the standard type (as shown in the yellow box) is provided.
- R型彈簧扭力可通過彈簧數量調整，如訂單上沒有特別標註我們以標準（黃色框）出貨。

Limit Switch Box ALS10 / ALS30 series 限位開關

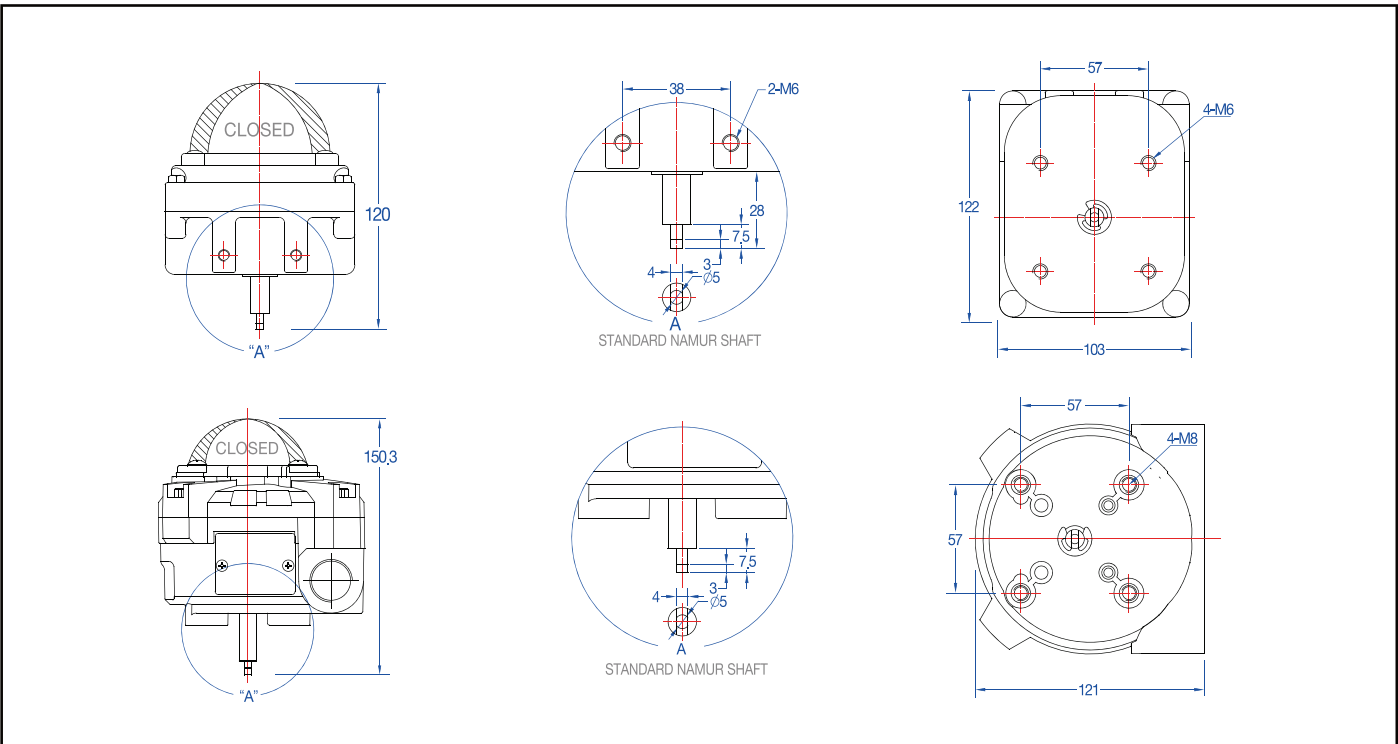
1. Open/Close Position Indicator 開/關 指示
2. Multipoint terminal strip 標準 8 Port 可做連結
3. Easy Mountin bracket (ISO 5211) ISO 5211 標準規格, 可直接安裝於氣缸



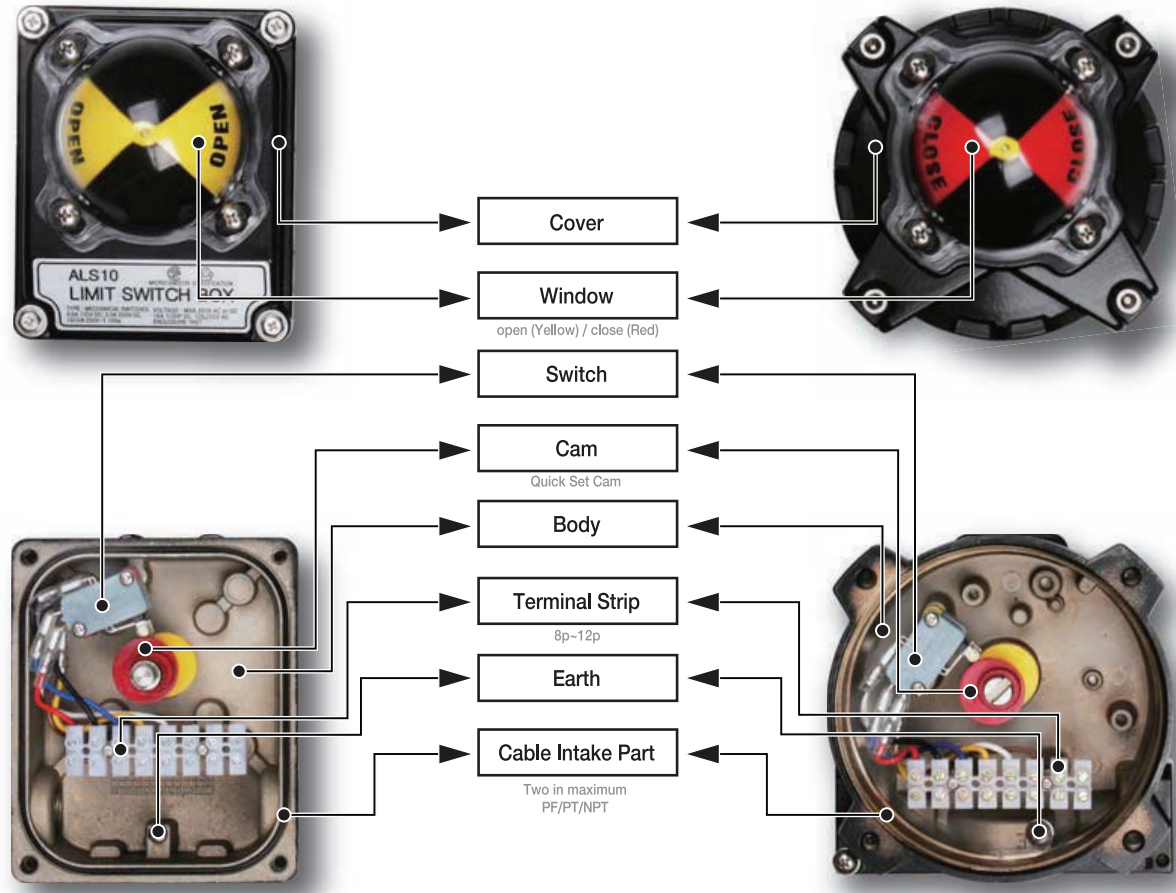
Switch Certification












Dimension Table



Part List



Mounting Bracket

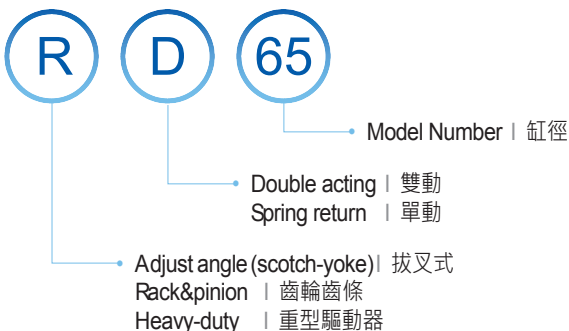
| MODEL / IMAGE | SIZE/ MATERIAL | MODEL / IMAGE | SIZE/ MATERIAL | MODEL / IMAGE | SIZE/ MATERIAL |
|--|---------------------------|--|----------------------|--|--------------------|
| P1  | 30*80*20 Plastic (ABS) | S1  | 30*80*20~30 Steel | S4  | 30*80*30 Steel |
| A1  | 30*80*20 Aluminium | S2  | 30*80*20 Steel | S5  | 30*130*50 Steel |
| A3  | 30*130*30 Aluminium | S3  | 30*130*30 Steel | S6  | 25*50*20 Steel |

Selection guide

| VALVE SIZE | | Double acting 雙動 | | Spring return 單動 | |
|------------|------|------------------|--------------------|------------------|--------------------|
| | | Ball Valve 球閥 | Butterfly Valve 蝶閥 | Ball Valve 球閥 | Butterfly Valve 蝶閥 |
| 1/2" | 15A | RD32(one piece) | RD50 | | RS40 |
| 3/4" | 20A | RD40(one piece) | | | RS50 |
| 1" | 25A | | RD65 | | RS65 |
| 1-1/4" | 32A | | | | RS80 |
| 1-1/2" | 40A | | RD80 | RD50 | RS90 |
| 2" | 50A | | | | RS100 |
| 2-1/2" | 65A | | RD90 | RD65 | RS125 |
| 3" | 80A | | RD100 | RD80 | RS140 |
| 4" | 100A | | RD125 | | RS160 |
| 5" | 125A | | RD140 | RD90 | RS210 |
| 6" | 150A | | RD160 | RD100 | RS300 |
| 8" | 200A | | RD210 | RD125 | |
| 10" | 250A | | RD300 | RD140 | RS160 |
| 12" | 300A | | | | RD160 |
| 14" | 350A | | | RD210 | RS300 |
| 16" | 400A | | | | |
| 18" | 450A | | | RD300 | |
| 20" | 500A | | | | |

- The above data is for reference only; the actual assembly may be different depending on valve material, pressure, structure, fluid and operational environment.
- 此數據僅供參考，數據會以閥門，使用環境而不同。此數據只是一個參考之一，會因閥門的材料，壓力閥，使用環境而不同。

How to order



| Scotch-yoke 拔叉式 | Rack&Pinion 齒輪齒條 |
|--|---|
| <ul style="list-style-type: none"> - Smooth on/off with the torque curve synchronized with valves - Relatively higher torque than the same model in Rack&Pinion type - 開和關的時候的輸出扭力是最大的 - 正和閥門需要的扭力是一致的 - 在同樣缸徑的情況下撥叉式的比齒輪齒條的扭力大很多 | <ul style="list-style-type: none"> - Short body length makes it easier to fit in small spaces. - The multi-spring structure enables adjustment of number of springs to suit the site requirements. - 缸體的長度短可以安裝在空間小的區域內 - 個別小彈簧組合根據使用者的需要可以在現場調整彈簧的數量 |
| | |



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- 這為用戶的安全性數據產品目錄，如有變更，恕不另行通知