# PO8-W SERIES:
# WAFER TYPE SOFT SEATED BUTTERFLY VALVE

## PO8-WY Series:
## PNEUMATIC BUTTERFLY VALVE WITH SCOTCH&YOKE ACTUATOR

### DESCRIPTION

POR series pneumatic actuators are scotch&yoke type rotary actuators, divided into double acting and single acting (spring return), driven by compressed air (0.3Mpa-0.7Mpa).

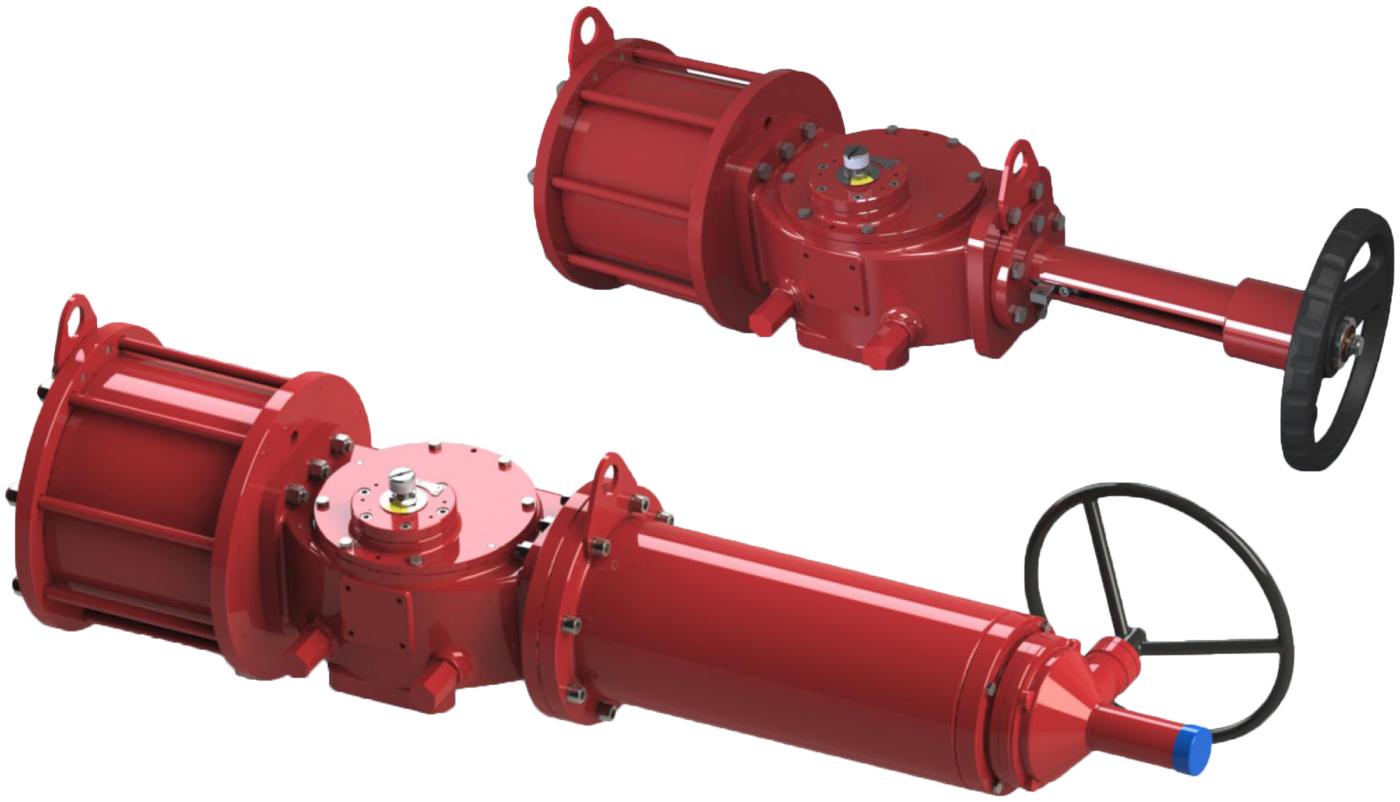
For large-diameter soft seated wafer type butterfly valve, the scotch&yoke type transmission structure has large output torque, flexible and stable action, which can provide a strong driving force for large-diameter soft seated wafer type butterfly valve.

POR series pneumatic actuator adopts modular optimization design, which is mainly composed of drive module, pneumatic module, spring module and manual module. POR series pneumatic actuators are equipped with modular manual mechanisms to operate the valves in case of failure or emergency. When the air source fails or requires manual operation alone, the manual mechanism can be used to open and close or debug the valves.

The U-shaped curve characteristic output torque of POR series pneumatic actuator is more suitable for switching and regulating large caliber butterfly valves.

POR series scotch&yoke type pneumatic actuator is equipped with a variety of adaptive platforms, including the installation platform for position indicator (limit switch) and accessory installation platform for various control needs.

For more details, please check POV POR Actuator catalog.



# SOFT SEATED BUTTERFLY VALVE

PO8-WY

## PO8-WY Series:
## PNEUMATIC BUTTERFLY VALVE WITH SCOTCH&YOKE ACTUATOR

### ORDERING CODE

PO 8 6 7 □ — 1 □ □ □ — W Y —

| Seal Material | |
|---|---|
| 2 | EPDM |
| 3 | NBR |
| 4 | PTFE |
| V | VITON |
| H | HYPALON |
| Q | SILICON RUBBER |
| P | POLYURETHANE |
| F | Others |

| Body Material | |
|---|---|
| 2 | Ductile Cast Iron |
| 3 | A216 WCB |
| A | A351 CF8 / SS304 |
| B | A351 CF8M / SS316 |
| C | A351 CF3M / SS316L |
| E | Duplex S.S. 2205 |
| F | Others |

| Disc Material | |
|---|---|
| 2 | DI c/w Nickel Coated |
| 3 | A216 WCB |
| A | A351 CF8 / SS304 |
| B | A351 CF8M / SS316 |
| C | A351 CF3M / SS316L |
| D | Duplex S.S. 2507 |
| E | Duplex S.S. 2205 |
| G | Super S.S. 1.4529 |
| K | B148 C95400 |
| N | B148 C95800 |
| H | Halar Coated |
| R | Rubber Coated |
| L | Nylon Coated |
| F | Others |

| Pressure Rating | |
|---|---|
| 2 | PN10 |
| 3 | PN16 |
| A | CLASS150LB |
| E | JIS 5K |
| F | JIS 10K |

— □ □ □ □ —

| Acting Type | |
|---|---|
| D | Double Acting Type |
| O | Fail Open |
| C | Fail Close |

| Explosion-Proof Grade | |
|---|---|
| 0 | NA |
| 1 | EXd II CT6 |
| 2 | EXd II CT5 |
| 3 | EX ia IICT6 |

| Manual Override | |
|---|---|
| 0 | NA |
| M | Handwheel Type |
| G | Gear Operator Type |
| H | Hydraulic Type |

| Actuator Installation Direction | |
|---|---|
| A | VERTICAL Type |
| B | PARALLEL Type |

— □ □ □ □

| Accessory | |
|---|---|
| BLANK | NA |
| L | Limit Switch |

| Accessory | |
|---|---|
| BLANK | NA |
| S | Solenoid Valve |

| Accessory | |
|---|---|
| BLANK | NA |
| A | Air Set |

| Accessory | |
|---|---|
| BLANK | NA |
| M | Mechnical Positioner |
| I | Intelligent Positioner |

Example: PO8672-12A2-WY-C0MA-AI: Pneumatic Butterfly Valve, Ductile Cast Iron Body, SS304 Disc, EPDM Seat, PN10, with Pneumatic Scotch&Yoke type, Actuator, Single acting fail close, Vertical type, c/w Air set and Intelligent positioner.

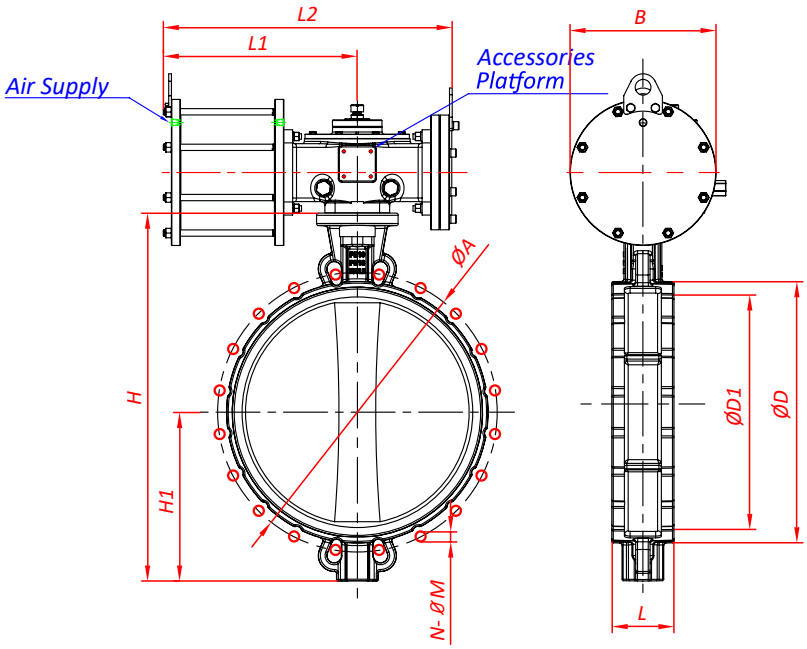
# SOFT SEATED BUTTERFLY VALVE

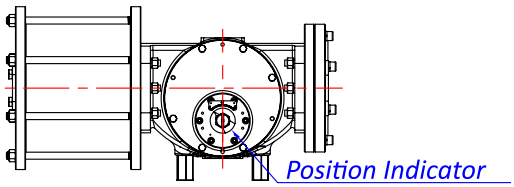
PO8-WY

## PO8-WY Series:
## PNEUMATIC BUTTERFLY VALVE WITH SCOTCH&YOKE ACTUATOR

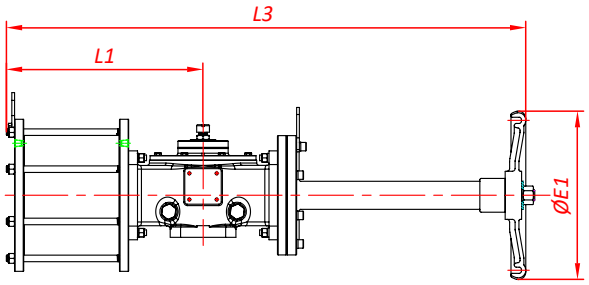
### DIMENSIONS

***DOUBLE ACTING TYPE***

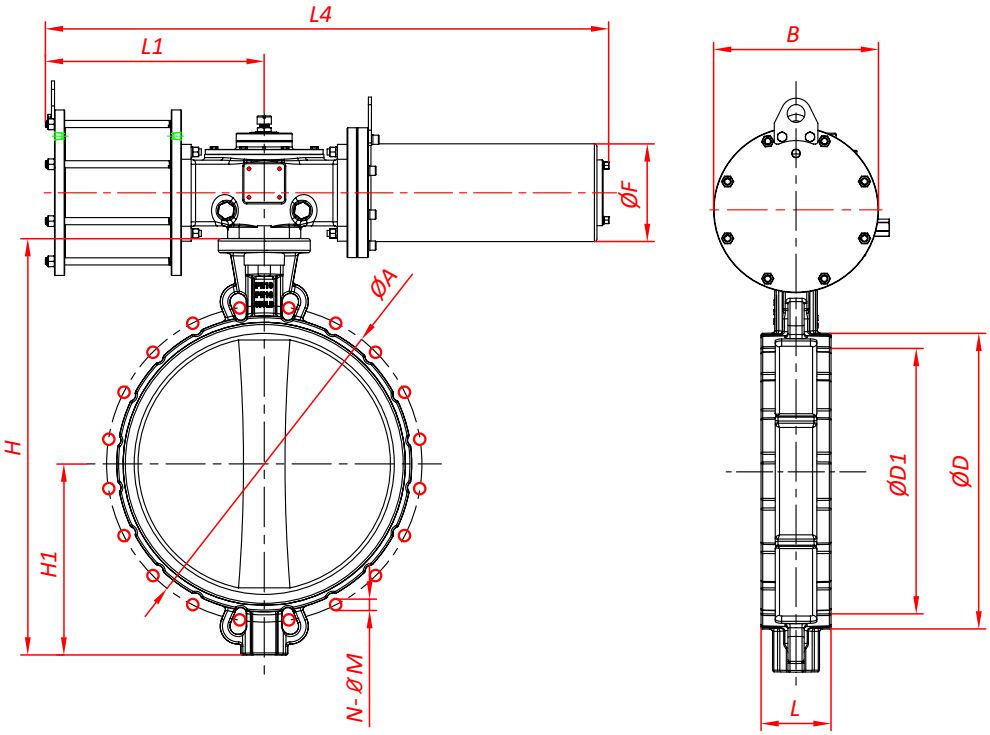


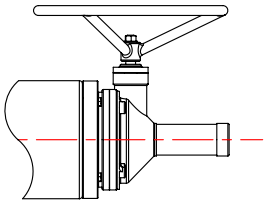

***DOUBLE ACTING TYPE WITH MANUAL OVEERRIDE***



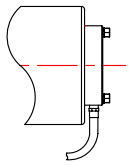

***SINGLE ACTING TYPE***



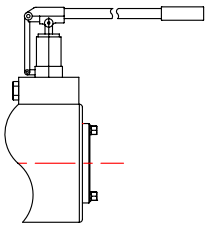

***SINGLE ACTING TYPE WITH MANUAL OVEERRIDE***



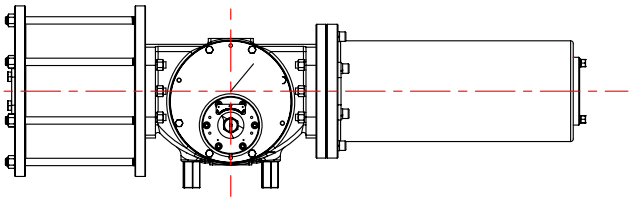
***A. MANUAL GEAR OPERATOR***

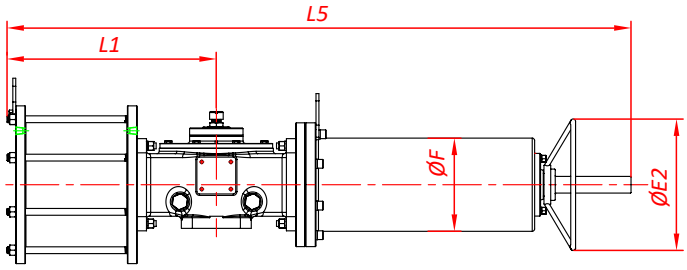


***B. HYDRAULIC MANUAL-OVERRIDE***



***C. HYDRAULIC HANDPUMP***






***D. MANUAL HANDWHEEL***

# SOFT SEATED BUTTERFLY VALVE

PO8-WY

## PO8-WY Series:
## PNEUMATIC BUTTERFLY VALVE WITH SCOTCH&YOKE ACTUATOR

### DIMENSIONS OF PNEUMATIC BUTTERFLY VALVE IN RATING PN10

| PN10 PRESSURE RATING | Size | L | GB standard (PN10) | | H1 | H2 | L1 | L2 | L3 | B | E1 | POR Model | L1 | L4 | L5 | B | F | E2 | POR Model |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | ΦA | N-M | | | DOUBLE ACTING TYPE | | | | | | SINGLE ACTING TYPE | | | | | | |
| | DN500 | 127 | 650 | 20-30 | 330 | 768 | 428 | 606 | 975 | 375 | 300 | POR-2K-300 | 522 | 1410 | 1760 | 435 | 235 | 400 | POR-4K-350-TH01 |
| | DN600 | 151 | 725 | 20-27 | 400 | 519 | 428 | 606 | 975 | 435 | 300 | POR-2K-350 | 522 | 1455 | 1805 | 435 | 235 | 400 | POR-4K-350-TH02 |
| | DN700 | 163 | 840 | 24-27 | 520 | 624 | 522 | 738 | 1165 | 435 | 350 | POR-4K-400 | 650 | 1745 | 2095 | 540 | 299 | 450 | POR-8K-450-TH03 |
| | DN800 | 190 | 950 | 24-30 | 591 | 672 | 650 | 925 | 1440 | 485 | 450 | POR-8K-400 | 699 | 1920 | 2350 | 590 | 370 | 500 | POR-16K-500-TH02 |
| | DN900 | 203 | 1050 | 28-30 | 656 | 720 | 650 | 925 | 1440 | 540 | 450 | POR-8K-450 | 699 | 1950 | 2380 | 645 | 370 | 500 | POR-16K-550-TH03 |
| | DN1000 | 216 | 1160 | 28-33 | 722 | 800 | 699 | 994 | 1550 | 540 | 500 | POR-16K-450 | 806 | 2240 | 2760 | 695 | 420 | 500 | POR-32K-600-TH02 |

### DIMENSIONS OF PNEUMATIC BUTTERFLY VALVE IN RATING PN16

| PN16 PRESSURE RATING | Size | L | GB standard (PN16) | | H1 | H2 | L1 | L2 | L3 | B | E1 | POR Model | L1 | L4 | L5 | B | F | E2 | POR Model |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | ΦA | N-M | | | DOUBLE ACTING TYPE | | | | | | SINGLE ACTING TYPE | | | | | | |
| | DN500 | 127 | 650 | 20-30 | 330 | 768 | 428 | 606 | 975 | 375 | 300 | POR-2K-300 | 522 | 1410 | 1760 | 435 | 235 | 400 | POR-4K-350-TH01 |
| | DN600 | 151 | 770 | 20-33 | 400 | 519 | 428 | 606 | 975 | 435 | 300 | POR-2K-350 | 522 | 1455 | 1805 | 435 | 235 | 400 | POR-4K-350-TH02 |
| | DN700 | 163 | 840 | 24-33 | 520 | 624 | 522 | 738 | 1165 | 435 | 350 | POR-4K-400 | 650 | 1745 | 2095 | 540 | 299 | 450 | POR-8K-450-TH03 |
| | DN800 | 190 | 950 | 24-36 | 591 | 672 | 650 | 925 | 1440 | 485 | 450 | POR-8K-400 | 699 | 1920 | 2350 | 590 | 370 | 500 | POR-16K-500-TH02 |
| | DN900 | 203 | 1050 | 28-36 | 656 | 720 | 650 | 925 | 1440 | 540 | 450 | POR-8K-450 | 699 | 1950 | 2380 | 645 | 370 | 500 | POR-16K-550-TH03 |
| | DN1000 | 216 | 1170 | 28-39 | 722 | 800 | 699 | 994 | 1550 | 540 | 500 | POR-16K-450 | 806 | 2240 | 2760 | 695 | 420 | 500 | POR-32K-600-TH02 |

### DIMENSIONS OF PNEUMATIC BUTTERFLY VALVE IN RATING CLASS150LBS

| CL.150# PRESSURE RATING | Size | L | ANSI standard (CL.150LBS) | | H1 | H2 | L1 | L2 | L3 | B | E1 | POR Model | L1 | L4 | L5 | B | F | E2 | POR Model |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | ΦA | N-M | | | DOUBLE ACTING TYPE | | | | | | SINGLE ACTING TYPE | | | | | | |
| | DN500 | 127 | 635 | 20-30 | 330 | 768 | 428 | 606 | 975 | 375 | 300 | POR-2K-300 | 522 | 1410 | 1760 | 435 | 235 | 400 | POR-4K-350-TH01 |
| | DN600 | 151 | 749.3 | 20-33 | 400 | 519 | 428 | 606 | 975 | 435 | 300 | POR-2K-350 | 522 | 1455 | 1805 | 435 | 235 | 400 | POR-4K-350-TH02 |
| | DN700 | 163 | 863.6 | 28-33 | 520 | 624 | 522 | 738 | 1165 | 435 | 350 | POR-4K-400 | 650 | 1745 | 2095 | 540 | 299 | 450 | POR-8K-450-TH03 |
| | DN800 | 190 | 977.9 | 28-39 | 591 | 672 | 650 | 925 | 1440 | 485 | 450 | POR-8K-400 | 699 | 1920 | 2350 | 590 | 370 | 500 | POR-16K-500-TH02 |
| | DN900 | 203 | 1085.8 | 32-39 | 656 | 720 | 650 | 925 | 1440 | 540 | 450 | POR-8K-450 | 699 | 1950 | 2380 | 645 | 370 | 500 | POR-16K-550-TH03 |
| | DN1000 | 216 | 1200.2 | 36-39 | 722 | 800 | 699 | 994 | 1550 | 540 | 500 | POR-16K-450 | 806 | 2240 | 2760 | 695 | 420 | 500 | POR-32K-600-TH02 |

# SOFT SEATED BUTTERFLY VALVE

PO8–WY

## PO8-WY Series:
## PNEUMATIC BUTTERFLY VALVE WITH SCOTCH&YOKE ACTUATOR

### DIMENSIONS OF PNEUMATIC BUTTERFLY VALVE IN RATING JIS5K

| JIS 5K PRESSURE RATING | Size | L | JIS standard (JIS 5K) | | H1 | H2 | L1 | L2 | L3 | B | E1 | POR Model | L1 | L4 | L5 | B | F | E2 | POR Model |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | ΦA | N-M | | | DOUBLE ACTING TYPE | | | | | | SINGLE ACTING TYPE | | | | | | |
| | DN500 | 127 | 605 | 20-22 | 330 | 768 | 428 | 606 | 975 | 375 | 300 | POR-2K-300 | 522 | 1410 | 1760 | 435 | 235 | 400 | POR-4K-350-TH01 |
| | DN600 | 151 | 715 | 20-24 | 400 | 519 | 428 | 606 | 975 | 435 | 300 | POR-2K-350 | 522 | 1455 | 1805 | 435 | 235 | 400 | POR-4K-350-TH02 |
| | DN700 | 163 | 820 | 24-30 | 520 | 624 | 522 | 738 | 1165 | 435 | 350 | POR-4K-400 | 650 | 1745 | 2095 | 540 | 299 | 450 | POR-8K-450-TH03 |
| | DN800 | 190 | 930 | 24-30 | 591 | 672 | 650 | 925 | 1440 | 485 | 450 | POR-8K-400 | 699 | 1920 | 2350 | 590 | 370 | 500 | POR-16K-500-TH02 |
| | DN900 | 203 | 1030 | 24-30 | 656 | 720 | 650 | 925 | 1440 | 540 | 450 | POR-8K-450 | 699 | 1950 | 2380 | 645 | 370 | 500 | POR-16K-550-TH03 |
| | DN1000 | 216 | 1130 | 28-30 | 722 | 800 | 699 | 994 | 1550 | 540 | 500 | POR-16K-450 | 806 | 2240 | 2760 | 695 | 420 | 500 | POR-32K-600-TH02 |

### DIMENSIONS OF PNEUMATIC BUTTERFLY VALVE IN RATING JIS10K

| JIS 10K PRESSURE RATING | Size | L | JIS standard (JIS 10K) | | H1 | H2 | L1 | L2 | L3 | B | E1 | POR Model | L1 | L4 | L5 | B | F | E2 | POR Model |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | ΦA | N-M | | | DOUBLE ACTING TYPE | | | | | | SINGLE ACTING TYPE | | | | | | |
| | DN500 | 127 | 620 | 20-24 | 330 | 768 | 428 | 606 | 975 | 375 | 300 | POR-2K-300 | 522 | 1410 | 1760 | 435 | 235 | 400 | POR-4K-350-TH01 |
| | DN600 | 151 | 730 | 24-30 | 400 | 519 | 428 | 606 | 975 | 435 | 300 | POR-2K-350 | 522 | 1455 | 1805 | 435 | 235 | 400 | POR-4K-350-TH02 |
| | DN700 | 163 | 840 | 24-30 | 520 | 624 | 522 | 738 | 1165 | 435 | 350 | POR-4K-400 | 650 | 1745 | 2095 | 540 | 299 | 450 | POR-8K-450-TH03 |
| | DN800 | 190 | 950 | 28-30 | 591 | 672 | 650 | 925 | 1440 | 485 | 450 | POR-8K-400 | 699 | 1920 | 2350 | 590 | 370 | 500 | POR-16K-500-TH02 |
| | DN900 | 203 | 1050 | 28-30 | 656 | 720 | 650 | 925 | 1440 | 540 | 450 | POR-8K-450 | 699 | 1950 | 2380 | 645 | 370 | 500 | POR-16K-550-TH03 |
| | DN1000 | 216 | 1160 | 28-36 | 722 | 800 | 699 | 994 | 1550 | 540 | 500 | POR-16K-450 | 806 | 2240 | 2760 | 695 | 420 | 500 | POR-32K-600-TH02 |

★★★★★ Important Note:
The configuration and choose of pneumatic scotch&yoke type actuator for butterfly valve is changeable and not fix.
The actuator choose is only for reference.
If you need more options for actuator torque and more details for POR actuator, please consult POV team for more details.