

# V9BF Series Butterfly Valves and NOM..H Series Actuators

## Overview

Honeywell V9BF series butterfly valves and NOM-E electric actuators, with modulating control or two-position control, can be applied to water supply and HVAC systems of commercial buildings, public buildings and city pipework. The modulating actuators work with a variety of control signals, i.e. 4–20 mA, 0–10 V or 2–10 V (on-site set-up available).



## FEATURES

- Simple structure for easy operation and installation
- Soft valve seat for high performance sealing, high reliability and long service life
- Two-position control or analog control
- Manual operations available
- Position self-locking function and 3D position indicator
- Heaters to prevent condensation
- IP67 protection rating
- On-site on/off/stop control available

## SPECIFICATIONS

### Valve Body

|                      |                                        |
|----------------------|----------------------------------------|
| • Size               | DN50-DN600                             |
| • Nominal pressure   | PN16                                   |
| • Medium             | Cold/hot water                         |
| • Medium temperature | -10°C to 120°C                         |
| • Valve body         | GGG40                                  |
| • Valve disc         | Nylon coating GGG40 or stainless steel |
| • Valve stem         | Stainless steel                        |
| • Valve seat         | EPDM                                   |
| • Pipe connection    | ISO7005-2                              |
| • Sealing pressure   | 1.76 MPa                               |

## ACTUATOR

|                               |                                                                                   |
|-------------------------------|-----------------------------------------------------------------------------------|
| Power                         | 220 Vac+/-10%, 50/60 Hz                                                           |
| Run time                      | See the actuator information tables                                               |
| Angle of rotation             | 90°±5°                                                                            |
| Control (modulating control)  | 4–20 mA, DC 0–10 V or 2–10 V                                                      |
| Feedback (modulating control) | 4–20 mA, DC 0–10 V or 2–10 V                                                      |
| Protection rating             | IP67                                                                              |
| Heater                        | See the actuator information tables                                               |
| Overload protection           | Built-in thermal protection (the actuator stops at 135±5°C and resets at 95±15°C) |

# V9BF Series Butterfly Valve

## Features

### Connection Design

Complies with requirement of international standard ISO 5211 for easy coupling with third party actuators.

### Bearings

Self-lubricating bearings are installed at the top and bottom of the stem to prevent deadlock and reduce the torque.

### Sealing Ring

Automatically adjusts the seal based on pressure changes to prevent leakage.

### Valve Stem

Pinless connection of valve stem and disc to prevent leakage through the pin hole. DN50-DN250 is connected by a single shaft spline while DN350-DN600 is connected by dual-shaft splines. The valve stem and disc are tightly meshed to ensure the sealing of the valve, minimize drive delay and improve control accuracy.

### Valve Disc

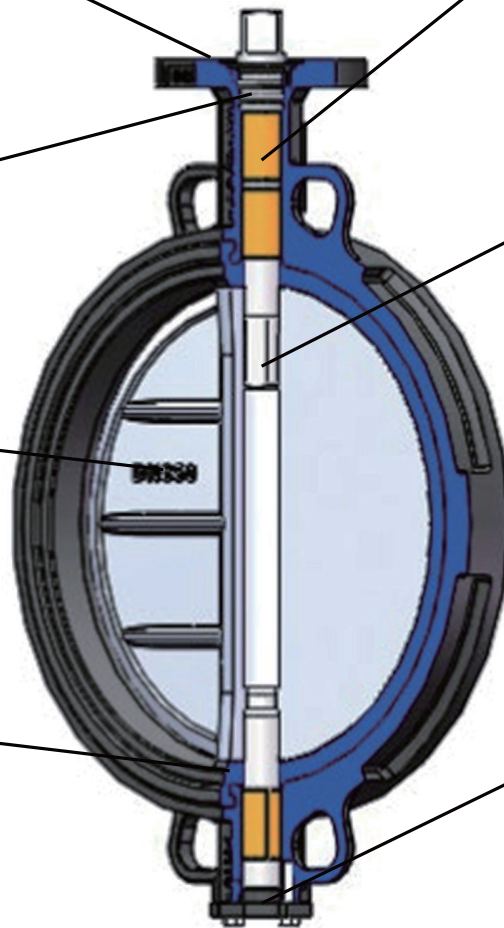
Reinforced strip on disc for increased strength. Nylon coating over disc to withstand corrosion, abrasion and high temperatures.

### Valve Seat

Soft valve seat to eliminate leakage points. The valve seat is fitted into a groove on the valve body to prevent separation. The groove also prevents deformation due to frictional torque.

### Thrust Bushing

The thrust bushing reduces friction caused by the weight of the valve disc and decreases the overall frictional torque on the valve. It also eliminates the risk of deadlock between the stem and the lower end of the valve body.



# V9BF Series Butterfly Valves and Actuators

## Model Designation

### Butterfly Valve

|    |                |                 |                                              |                      |                                                                                 |
|----|----------------|-----------------|----------------------------------------------|----------------------|---------------------------------------------------------------------------------|
| V9 | The new series |                 |                                              |                      |                                                                                 |
|    | BF             | Butterfly Valve |                                              |                      |                                                                                 |
|    |                | W               | Connection: W — Wafer; F — Flanged ; L - Lug |                      |                                                                                 |
|    |                |                 | 16                                           | Rated pressure: PN16 |                                                                                 |
|    |                |                 |                                              | -050                 | Valve Size: DN50                                                                |
|    |                |                 |                                              |                      | -2                                                                              |
|    |                |                 |                                              |                      | Valve disc material: Blank - Nylon coating ductile iron<br>-2 - Stainless Steel |

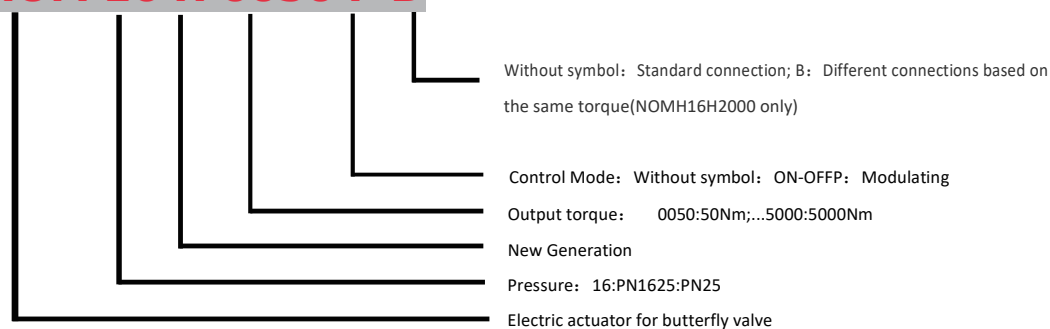
E.g.:

|    |    |   |    |   |     |
|----|----|---|----|---|-----|
| V9 | BF | W | 16 | - | 050 |
|----|----|---|----|---|-----|

Next-generation PN16 DN50 wafer type butterfly valve with nylon coating ductile iron disc

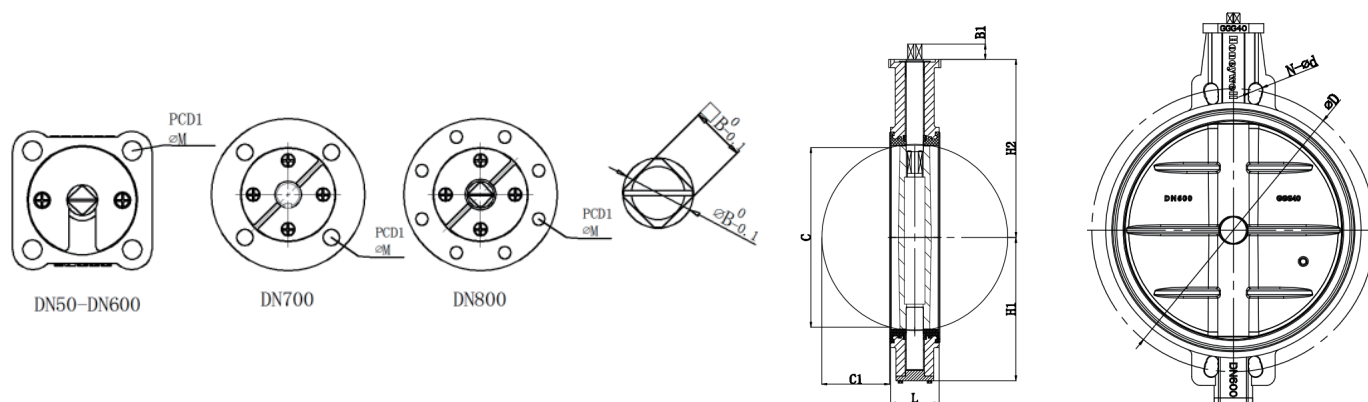
### Actuator

**NOM 16 H 0050 P B**



# V9BF Series Butterfly Valves and Actuators

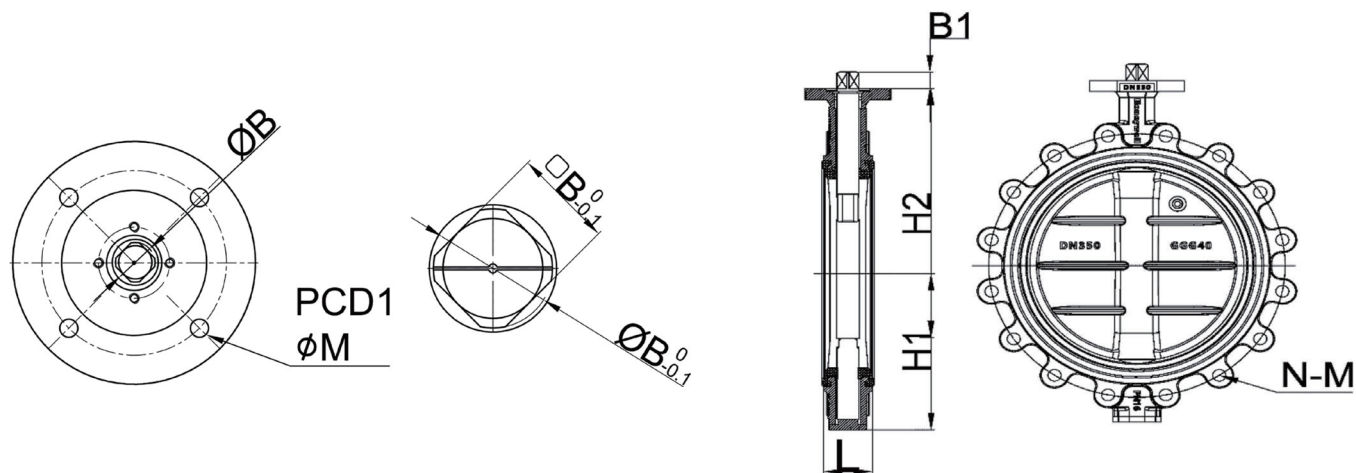
## V9BFW wafer type



| Model           | Size  | L   | H1  | H2  | N-Ød  | ØD  | C   | C1    | ØB    | B1 | □ B  | Mounting flange<br>(ISO 5211) |      |    | Weight<br>(Kg) |
|-----------------|-------|-----|-----|-----|-------|-----|-----|-------|-------|----|------|-------------------------------|------|----|----------------|
|                 |       |     |     |     |       |     |     |       |       |    |      | Type                          | PCD1 | ØM |                |
| V9BFW16-050(-2) | DN50  | 43  | 65  | 140 | 4-19  | 125 | 31  | 5     | 13.2  | 19 | 11   | F07                           | 70   | 10 | 2.3            |
| V9BFW16-065(-2) | DN65  | 46  | 78  | 150 | 4-19  | 145 | 45  | 9     | 13.2  | 19 | 11   | F07                           | 70   | 10 | 3.1            |
| V9BFW16-080(-2) | DN80  | 46  | 89  | 158 | 4-19  | 160 | 65  | 17    | 13.2  | 19 | 11   | F07                           | 70   | 10 | 3.4            |
| V9BFW16-100(-2) | DN100 | 52  | 106 | 176 | 4-19  | 180 | 90  | 26    | 14    | 19 | 11   | F07                           | 70   | 10 | 3.9            |
| V9BFW16-125(-2) | DN125 | 56  | 120 | 190 | 4-19  | 210 | 113 | 35    | 18    | 19 | 14   | F07                           | 70   | 10 | 5.8            |
| V9BFW16-150(-2) | DN150 | 56  | 133 | 211 | 4-23  | 240 | 145 | 49.5  | 18    | 19 | 14   | F07                           | 70   | 10 | 6.8            |
| V9BFW16-200(-2) | DN200 | 60  | 164 | 236 | 4-23  | 295 | 192 | 71    | 22    | 24 | 17   | F10                           | 102  | 12 | 13.6           |
| V9BFW16-250(-2) | DN250 | 68  | 200 | 267 | 4-28  | 355 | 242 | 91    | 28    | 24 | 22   | F10                           | 102  | 12 | 20             |
| V9BFW16-300(-2) | DN300 | 78  | 236 | 305 | 4-28  | 410 | 290 | 111   | 28    | 24 | 22   | F10                           | 102  | 12 | 28.6           |
| V9BFW16-350(-2) | DN350 | 78  | 267 | 368 | 4-28  | 470 | 324 | 128   | 35    | 29 | 27   | F12                           | 125  | 14 | 38             |
| V9BFW16-400(-2) | DN400 | 102 | 325 | 400 | 4-31  | 525 | 377 | 144   | 35    | 29 | 27   | F12                           | 125  | 14 | 59             |
| V9BFW16-450(-2) | DN450 | 114 | 345 | 422 | 4-31  | 585 | 425 | 163   | 45    | 38 | 36   | F14                           | 140  | 18 | 76             |
| V9BFW16-500(-2) | DN500 | 127 | 376 | 480 | 4-34  | 650 | 475 | 182   | 45    | 38 | 36   | F14                           | 140  | 18 | 91             |
| V9BFW16-600(-2) | DN600 | 154 | 452 | 562 | 4-37  | 770 | 573 | 219   | 45    | 48 | 36   | F16                           | 165  | 22 | 154            |
| V9BFW16-700(-2) | DN700 | 165 | 530 | 626 | 4-M33 | 840 | 666 | 261   | Φ74.7 | 90 | 2-20 | F16                           | 165  | 22 | 248            |
| V9BFW16-800(-2) | DN800 | 190 | 591 | 672 | 4-M36 | 950 | 762 | 297.5 | 63.35 | 80 | 46   | F25                           | 254  | 18 | 354            |

# V9BF Series Butterfly Valves and Actuators

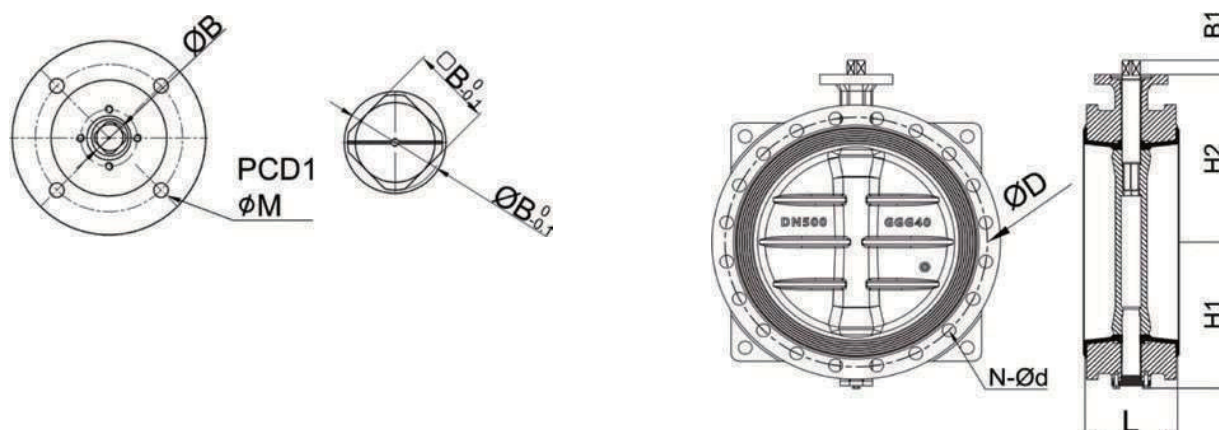
## V9BFL Lug type



| Model           | Size  | L   | H1  | H2  | N-Ød  | ØD  | ØB | B1 | □ B             | Mounting flange<br>(ISO 5211) |      |    | Weight<br>(Kg) |
|-----------------|-------|-----|-----|-----|-------|-----|----|----|-----------------|-------------------------------|------|----|----------------|
|                 |       |     |     |     |       |     |    |    |                 | Type                          | PCD1 | ØM |                |
| V9BFL16-050(-2) | DN50  | 43  | 62  | 136 | 4-M16 | 125 | 14 | 19 | 11              | F07                           | 70   | 10 | 3.95           |
| V9BFL16-065(-2) | DN65  | 46  | 84  | 145 | 4-M16 | 145 | 14 | 19 | 11              | F07                           | 70   | 10 | 4.5            |
| V9BFL16-080(-2) | DN80  | 46  | 89  | 151 | 4-M16 | 160 | 14 | 19 | 11              | F07                           | 70   | 10 | 5.4            |
| V9BFL16-100(-2) | DN100 | 52  | 106 | 175 | 4-M16 | 180 | 14 | 19 | 11              | F07                           | 70   | 10 | 7.2            |
| V9BFL16-125(-2) | DN125 | 56  | 120 | 190 | 4-M16 | 210 | 18 | 19 | 14              | F07                           | 70   | 10 | 11             |
| V9BFL16-150(-2) | DN150 | 56  | 133 | 203 | 4-M20 | 240 | 18 | 19 | 14              | F07                           | 70   | 10 | 12.5           |
| V9BFL16-200(-2) | DN200 | 60  | 164 | 246 | 4-M20 | 295 | 22 | 24 | 17              | F10                           | 102  | 12 | 20             |
| V9BFL16-250(-2) | DN250 | 68  | 200 | 271 | 4-M24 | 355 | 30 | 24 | 22              | F10                           | 102  | 12 | 29             |
| V9BFL16-300(-2) | DN300 | 78  | 235 | 296 | 4-M24 | 410 | 30 | 24 | 22              | F10                           | 102  | 12 | 48             |
| V9BFL16-350(-2) | DN350 | 78  | 280 | 368 | 4-M24 | 470 | 35 | 29 | 27              | F12                           | 125  | 14 | 61             |
| V9BFL16-400(-2) | DN400 | 102 | 315 | 400 | 4-M27 | 525 | 38 | 29 | 27              | F12                           | 125  | 14 | 85             |
| V9BFL16-450(-2) | DN450 | 114 | 345 | 422 | 4-M27 | 585 | 45 | 38 | 36              | F14                           | 140  | 18 | 130            |
| V9BFL16-500(-2) | DN500 | 127 | 373 | 480 | 4-M30 | 650 | 45 | 38 | 36              | F14                           | 140  | 18 | 175            |
| V9BFL16-600(-2) | DN600 | 154 | 449 | 508 | 4-M33 | 770 | 55 | 48 | 36              | F16                           | 165  | 22 | 265            |
| V9BFL16-700(-2) | DN700 | 165 | 506 | 562 | 4-M33 | 840 | 75 | 90 | Φ74.7<br>key 20 | F16                           | 165  | 22 | 328            |
| V9BFL16-800(-2) | DN800 | 190 | 576 | 630 | 4-M36 | 950 | 75 | 56 | 46              | F16                           | 165  | 22 | 517            |

# V9BF Series Butterfly Valves and Actuators

## V9BFF flanged butterfly valve



| Model           | Size  | L   | H1  | H2  | ØD  | N-Ød  | ØB | B1 | □ B             | Mounting flange (ISO 5211) |      |    | Weight (Kg) |
|-----------------|-------|-----|-----|-----|-----|-------|----|----|-----------------|----------------------------|------|----|-------------|
|                 |       |     |     |     |     |       |    |    |                 | Type                       | PCD1 | ØM |             |
| V9BFF16-050(-2) | DN50  | 108 | 80  | 110 | 125 | 4-19  | 14 | 19 | 11              | F07                        | 70   | 10 | 7.8         |
| V9BFF16-065(-2) | DN65  | 112 | 89  | 134 | 145 | 4-19  | 14 | 19 | 11              | F07                        | 70   | 10 | 9.7         |
| V9BFF16-080(-2) | DN80  | 114 | 100 | 131 | 160 | 8-19  | 14 | 19 | 11              | F07                        | 70   | 10 | 10.6        |
| V9BFF16-100(-2) | DN100 | 127 | 114 | 150 | 180 | 8-19  | 14 | 19 | 11              | F07                        | 70   | 10 | 13.8        |
| V9BFF16-125(-2) | DN125 | 140 | 127 | 170 | 210 | 8-19  | 18 | 19 | 14              | F07                        | 70   | 10 | 18.2        |
| V9BFF16-150(-2) | DN150 | 140 | 143 | 180 | 240 | 8-23  | 18 | 19 | 14              | F07                        | 70   | 10 | 21.7        |
| V9BFF16-200(-2) | DN200 | 152 | 175 | 210 | 295 | 12-23 | 24 | 24 | 17              | F10                        | 102  | 12 | 31.8        |
| V9BFF16-250(-2) | DN250 | 165 | 203 | 245 | 355 | 12-28 | 30 | 24 | 22              | F10                        | 102  | 12 | 44.7        |
| V9BFF16-300(-2) | DN300 | 178 | 242 | 276 | 410 | 12-28 | 30 | 24 | 22              | F10                        | 102  | 12 | 57.9        |
| V9BFF16-350(-2) | DN350 | 190 | 269 | 328 | 470 | 16-28 | 35 | 29 | 27              | F12                        | 125  | 14 | 81.6        |
| V9BFF16-400(-2) | DN400 | 216 | 310 | 376 | 525 | 16-31 | 38 | 29 | 27              | F12                        | 125  | 14 | 116         |
| V9BFF16-450(-2) | DN450 | 222 | 335 | 407 | 585 | 20-31 | 45 | 38 | 36              | F14                        | 140  | 18 | 157         |
| V9BFF16-500(-2) | DN500 | 229 | 362 | 433 | 650 | 20-34 | 45 | 38 | 36              | F14                        | 140  | 18 | 175         |
| V9BFF16-600(-2) | DN600 | 267 | 449 | 508 | 770 | 20-37 | 55 | 48 | 36              | F16                        | 165  | 22 | 245         |
| V9BFF16-700(-2) | DN700 | 292 | 506 | 562 | 840 | 24-37 | 75 | 90 | Φ74.7<br>key 20 | F16                        | 165  | 22 | 350         |
| V9BFF16-800(-2) | DN800 | 318 | 576 | 630 | 950 | 24-40 | 75 | 56 | 46              | F25                        | 165  | 22 | 490         |

## V9BFW(L) Series Butterfly Valves and Actuators (Shut-Off Pressure: 1.0 Mpa)

### Order Information

| Size  | Valve items        | Actuator items<br>(ON-OFF) | Actuator items<br>(Modulating) | Torque<br>(Nm) | Running<br>time<br>(50Hz) | Motor<br>Consumption<br>(VA) | Heater<br>(W) | Hand wheel |
|-------|--------------------|----------------------------|--------------------------------|----------------|---------------------------|------------------------------|---------------|------------|
| DN50  | V9BFW(L)16-050(-2) | NOM16H0050                 | NOM16H0050P                    | 50             | 20                        | 48                           | 5             | Hand wheel |
| DN65  | V9BFW(L)16-065(-2) | NOM16H0050                 | NOM16H0050P                    | 50             | 20                        | 48                           | 5             | Hand wheel |
| DN80  | V9BFW(L)16-080(-2) | NOM16H0050                 | NOM16H0050P                    | 50             | 20                        | 48                           | 5             | Hand wheel |
| DN100 | V9BFW(L)16-100(-2) | NOM16H0050                 | NOM16H0050P                    | 50             | 20                        | 48                           | 5             | Hand wheel |
| DN125 | V9BFW(L)16-125(-2) | NOM16H0080                 | NOM16H0080P                    | 80             | 30                        | 48                           | 5             | Hand wheel |
| DN150 | V9BFW(L)16-150(-2) | NOM16H0200                 | NOM16H0200P                    | 200            | 30                        | 92                           | 5             | Hand wheel |
| DN200 | V9BFW(L)16-200(-2) | NOM16H0200                 | NOM16H0200P                    | 200            | 30                        | 92                           | 5             | Hand wheel |
| DN250 | V9BFW(L)16-250(-2) | NOM16H0400                 | NOM16H0400P                    | 400            | 30                        | 136                          | 5             | Hand wheel |
| DN300 | V9BFW(L)16-300(-2) | NOM16H0400                 | NOM16H0400P                    | 400            | 30                        | 136                          | 5             | Hand wheel |
| DN350 | V9BFW(L)16-350(-2) | NOM16H0800                 | NOM16H0800P                    | 800            | 35                        | 220                          | 5             | Hand wheel |
| DN400 | V9BFW(L)16-400(-2) | NOM16H0800                 | NOM16H0800P                    | 800            | 35                        | 220                          | 5             | Hand wheel |
| DN450 | V9BFW(L)16-450(-2) | NOM16H2000N                | NOM16H2000PN                   | 2000           | 40                        | 376                          | 5             | Hand wheel |
|       |                    | NOM16H2000                 | NOM16H2000P                    | 2000           | 70                        | 286                          | 5             | Hand wheel |
| DN500 | V9BFW(L)16-500(-2) | NOM16H2000N                | NOM16H2000PN                   | 2000           | 40                        | 376                          | 5             | Hand wheel |
|       |                    | NOM16H2000                 | NOM16H2000P                    | 2000           | 70                        | 286                          | 5             | Hand wheel |
| DN600 | V9BFW(L)16-600(-2) | NOM16H2000BN               | NOM16H2000PBN                  | 2000           | 40                        | 376                          | 5             | Hand wheel |
|       |                    | NOM16H2000B                | NOM16H2000PB                   | 2000           | 70                        | 286                          | 5             | Hand wheel |
| DN700 | V9BFW(L)16-700(-2) | NOM16H4000                 | NOM16H4000P                    | 4000           | 140                       | 286                          | 5             | Hand wheel |
| DN800 | V9BFW(L)16-800(-2) | NOM16H5000                 | NOM16H5000P                    | 5000           | 140                       | 286                          | 5             | Hand wheel |

## V9BFF Series Flanged Butterfly Valves and Actuators (Shut-Off Pressure: 1.0 Mpa) Order Information

| Size  | Valve items     | Actuator items (ON-OFF) | Actuator items (Modulating) | Torque (Nm) | Running time (50Hz) | Motor Consumption (VA) | Heater (W) | Hand wheel |
|-------|-----------------|-------------------------|-----------------------------|-------------|---------------------|------------------------|------------|------------|
| DN50  | V9BFF16-050(-2) | NOM16H0050              | NOM16H0050P                 | 50          | 20                  | 48                     | 5          | Hand wheel |
| DN65  | V9BFF16-065(-2) | NOM16H0050              | NOM16H0050P                 | 50          | 20                  | 48                     | 5          | Hand wheel |
| DN80  | V9BFF16-080(-2) | NOM16H0050              | NOM16H0050P                 | 50          | 20                  | 48                     | 5          | Hand wheel |
| DN100 | V9BFF16-100(-2) | NOM16H0050              | NOM16H0050P                 | 50          | 20                  | 48                     | 5          | Hand wheel |
| DN125 | V9BFF16-125(-2) | NOM16H0080              | NOM16H0080P                 | 80          | 30                  | 48                     | 5          | Hand wheel |
| DN150 | V9BFF16-150(-2) | NOM16H0200              | NOM16H0200P                 | 200         | 30                  | 92                     | 5          | Hand wheel |
| DN200 | V9BFF16-200(-2) | NOM16H0200              | NOM16H0200P                 | 200         | 30                  | 92                     | 5          | Hand wheel |
| DN250 | V9BFF16-250(-2) | NOM16H0400              | NOM16H0400P                 | 400         | 30                  | 136                    | 5          | Hand wheel |
| DN300 | V9BFF16-300(-2) | NOM16H0400              | NOM16H0400P                 | 400         | 30                  | 136                    | 5          | Hand wheel |
| DN350 | V9BFF16-350(-2) | NOM16H0800              | NOM16H0800P                 | 800         | 35                  | 220                    | 5          | Hand wheel |
| DN400 | V9BFF16-400(-2) | NOM16H1000              | NOM16H1000P                 | 1000        | 54                  | 220                    | 5          | Hand wheel |
| DN450 | V9BFF16-450(-2) | NOM16H2000N             | NOM16H2000PN                | 2000        | 40                  | 376                    | 5          | Hand wheel |
|       |                 | NOM16H2000N             | NOM16H2000PN                | 2000        | 70                  | 286                    | 5          | Hand wheel |
| DN500 | V9BFF16-500(-2) | NOM16H2000BN            | NOM16H2000PBN               | 2000        | 40                  | 376                    | 5          | Hand wheel |
|       |                 | NOM16H2000              | NOM16H2000P                 | 2000        | 70                  | 286                    | 5          | Hand wheel |
| DN600 | V9BFF16-600(-2) | NOM16H2000              | NOM16H2000P                 | 2000        | 40                  | 376                    | 5          | Hand wheel |
|       |                 | NOM16H2000B             | NOM16H2000PB                | 2000        | 70                  | 286                    | 5          | Hand wheel |
| DN700 | V9BFF16-700(-2) | NOM16H4000              | NOM16H4000P                 | 4000        | 140                 | 286                    | 5          | Hand wheel |
| DN800 | V9BFF16-800(-2) | NOM16H5000              | NOM16H5000P                 | 5000        | 140                 | 286                    | 5          | Hand wheel |

## Kv Values for V9BF Series Butterfly Valves

| Size  | Kv values for different openings |        |        |        |        |         |         |         |         |
|-------|----------------------------------|--------|--------|--------|--------|---------|---------|---------|---------|
|       | 10°                              | 20°    | 30°    | 40°    | 50°    | 60°     | 70°     | 80°     | 90°     |
| DN50  | 1.12                             | 3.8    | 10.2   | 22.0   | 38.0   | 60.0    | 100.0   | 132.0   | 175.0   |
| DN65  | 2.0                              | 7.5    | 18.2   | 35.0   | 61.0   | 95.0    | 187.0   | 240.0   | 306.0   |
| DN80  | 2.5                              | 9.8    | 26.0   | 48.0   | 83.0   | 126.0   | 214.0   | 338.0   | 420.0   |
| DN100 | 3.8                              | 14.6   | 39.0   | 72.0   | 119.0  | 221.0   | 361.0   | 606.0   | 723.0   |
| DN125 | 6.5                              | 24.0   | 62.0   | 118.0  | 217.0  | 394.0   | 599.0   | 1038.0  | 1240.5  |
| DN150 | 10.0                             | 41.0   | 95.0   | 175.0  | 326.0  | 542.0   | 873.0   | 1260.0  | 1848.0  |
| DN200 | 19.0                             | 64.0   | 165.0  | 306.0  | 573.0  | 995.0   | 1567.0  | 2310.0  | 3117.0  |
| DN250 | 28.0                             | 101.0  | 245.0  | 450.0  | 836.0  | 1462.0  | 2253.0  | 3256.0  | 4540.0  |
| DN300 | 34.0                             | 129.0  | 312.0  | 615.0  | 1137.0 | 2125.0  | 3238.0  | 4991.0  | 6846.0  |
| DN350 | 47.0                             | 163.0  | 390.0  | 795.0  | 1498.0 | 2573.0  | 3980.0  | 6749.0  | 8520.0  |
| DN400 | 62.0                             | 231.0  | 508.0  | 1077.0 | 1973.0 | 3381.0  | 5385.0  | 8099.0  | 11458.0 |
| DN450 | 65.0                             | 256.0  | 621.0  | 1208.0 | 2315.0 | 3925.0  | 6331.0  | 9474.0  | 13542.0 |
| DN500 | 133.0                            | 346.0  | 1059.0 | 2693.0 | 4086.0 | 6348.0  | 9513.0  | 13109.0 | 18678.0 |
| DN600 | 239.0                            | 694.0  | 1153.0 | 2789.0 | 4966.0 | 7961.0  | 12985.0 | 19648.0 | 28017.0 |
| DN700 | 245.5                            | 774    | 1958.0 | 3792.0 | 7010.0 | 12471.0 | 20410.0 | 29480.0 | 43085.0 |
| DN800 | 310.0                            | 1150.0 | 2701.0 | 5310.0 | 9640.0 | 16523.0 | 26940.0 | 36900.0 | 53820.0 |

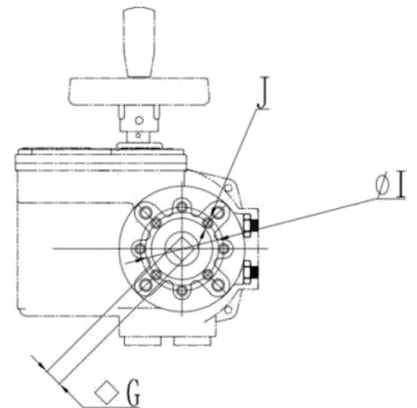
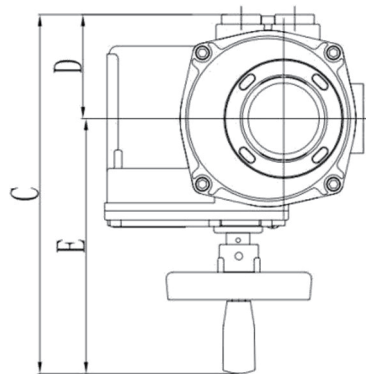
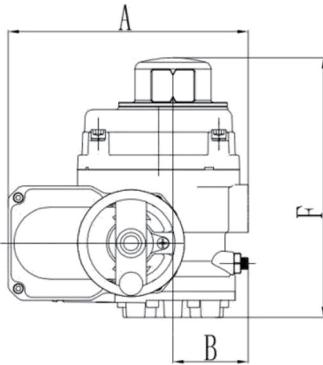
# V9BF+NOM..H Series Butterfly

## Valves and Actuators

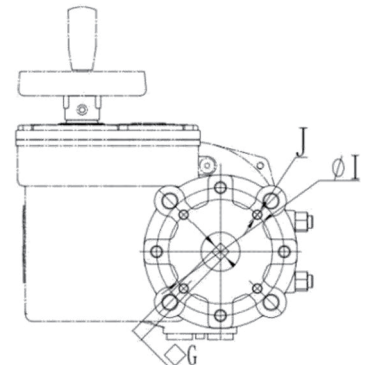
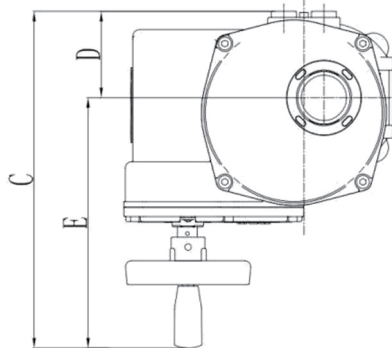
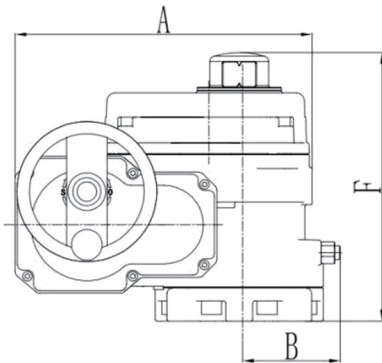
### Actuator dimensions

ON-OFF Type

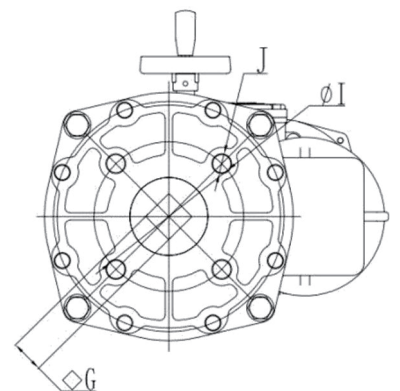
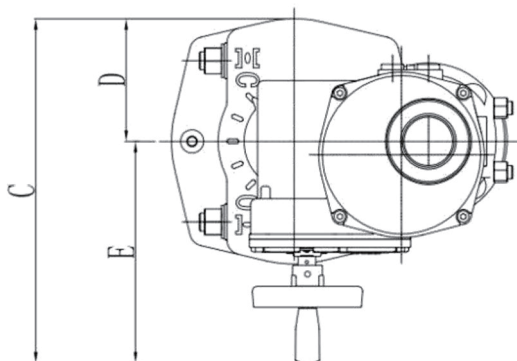
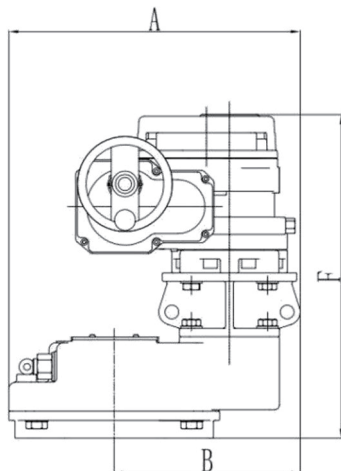
Notice: Multiple stem adaptors of NOM16H0200(P)/NOM16H0400(P) to meet the different sizes of butterfly valve.



NOM16(25)H0050/NOM16(25)H0080

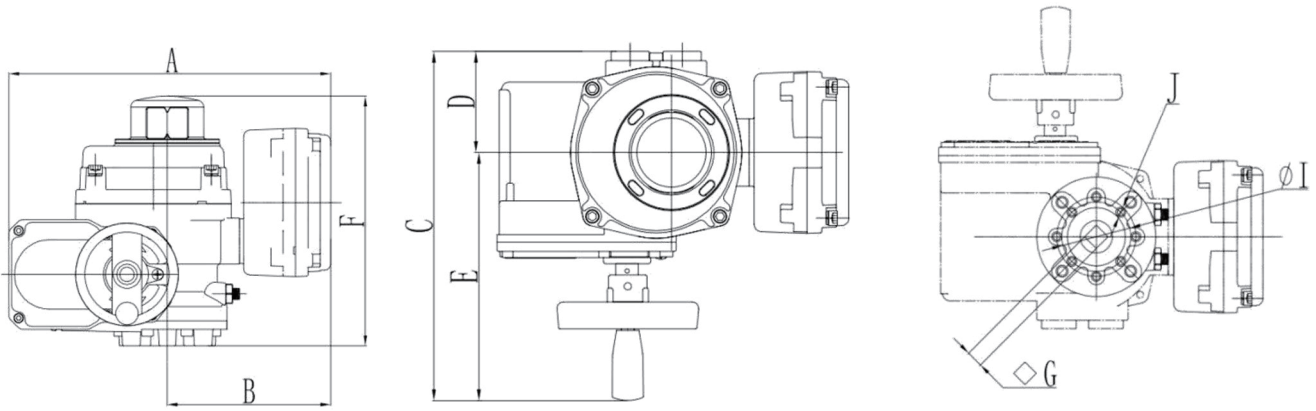


NOM16(25)H0200/NOM16(25)H0400/NOM16(25)H0600/NOM16(25)H0800/NOM16(25)H1000

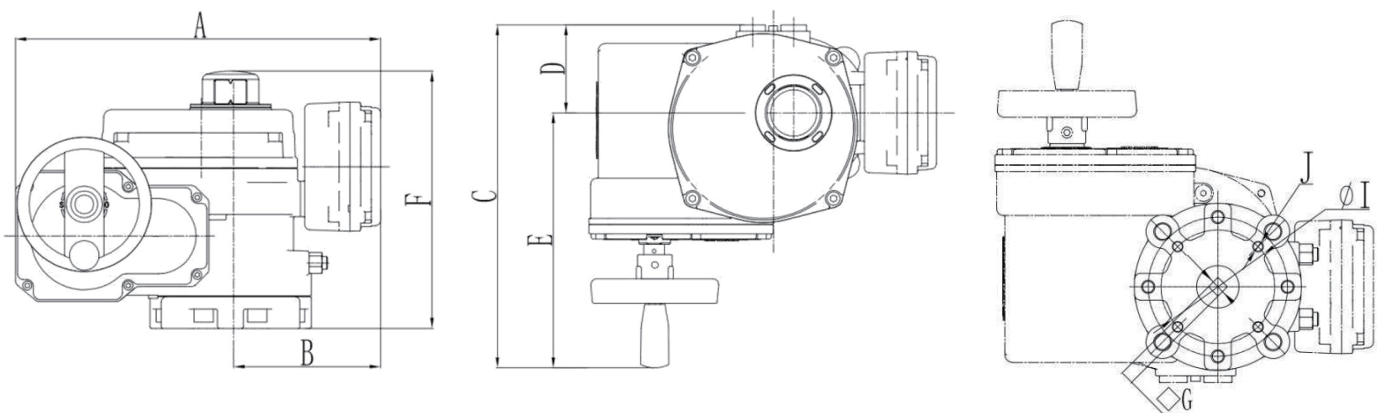


NOM16(25)H2000(B)/NOM16(25)H4000/NOM16(25)H5000

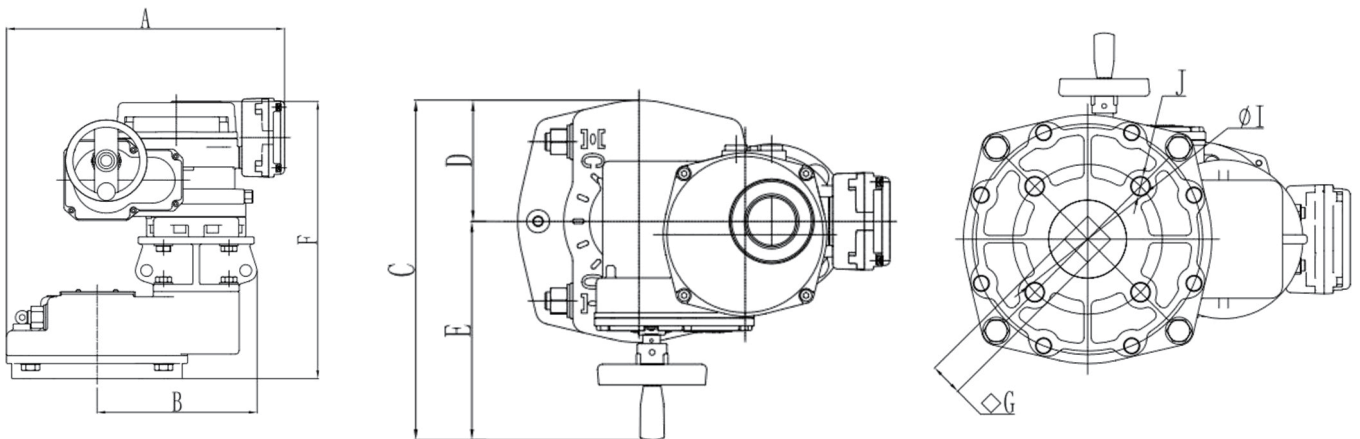
## Modulating Type



NOM16(25)H0050P/NOM16(25)H0080P



NOM16(25)H0200P/NOM16(25)H0400P/NOM16(25)H0600P/NOM16(25)H0800P/NOM16(25)H1000P

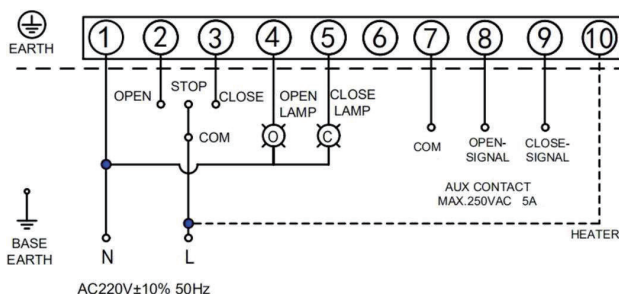


NOM16(25)H2000P(B)/NOM16(25)H4000P/NOM16(25)H5000P

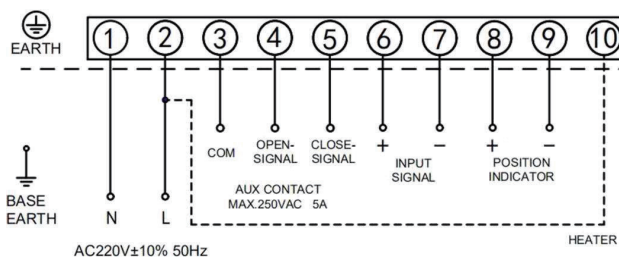
| Model         | Dimension(mm) |     |     |     |     |     |         |             |             | Weight (Kg) |
|---------------|---------------|-----|-----|-----|-----|-----|---------|-------------|-------------|-------------|
|               | A             | B   | C   | D   | E   | F   | φi      | J           | G           |             |
| NOM16H0050    | 166           | 52  | 236 | 66  | 170 | 180 | F05/F07 | 4-M6/4-M8   | 11*11       | 3.3         |
| NOM16H0080    | 166           | 52  | 236 | 66  | 170 | 180 | F05/F07 | 4-M6/4-M8   | 14*14       | 3.5         |
| NOM16H0200    | 243           | 84  | 342 | 82  | 260 | 214 | F07/F10 | 4-M8/4-M10  | 17*17/14*14 | 10          |
| NOM16H0400    | 243           | 84  | 342 | 82  | 260 | 214 | F10/F12 | 4-M10/4-M12 | 22*22/19*19 | 10.5        |
| NOM16H0600    | 243           | 84  | 342 | 82  | 260 | 214 | F10/F12 | 4-M10/4-M12 | 22*22       | 11          |
| NOM16H0800    | 265           | 90  | 355 | 86  | 269 | 239 | F12     | 4-M12       | 27*27       | 15.5        |
| NOM16H1000    | 265           | 90  | 355 | 86  | 269 | 239 | F12     | 4-M12       | 27*27       | 16          |
| NOM16H2000N   | 314           | 128 | 380 | 103 | 277 | 266 | F14     | 4-M16       | 36*36       | 25          |
| NOM16H2000BN  | 314           | 128 | 380 | 103 | 277 | 266 | F16     | 4-M20       | 36*36       | 25          |
| NOM16H2000    | 380           | 241 | 406 | 137 | 269 | 420 | F14     | 4-M16       | 36*36       | 52          |
| NOM16H2000B   | 380           | 241 | 406 | 137 | 269 | 420 | F16     | 4-M20       | 36*36       | 52          |
| NOM16H4000    | 380           | 241 | 406 | 137 | 269 | 420 | F16     | 4-M20       | 74.7 K-20   | 55          |
| NOM16H5000    | 380           | 241 | 406 | 137 | 269 | 420 | F16     | 4-M20       | 46*46       | 57          |
| NOM16H0050P   | 234           | 121 | 236 | 66  | 170 | 180 | F05/F07 | 4-M6/4-M8   | 11*11       | 4.5         |
| NOM16H0080P   | 234           | 121 | 236 | 66  | 170 | 180 | F05/F07 | 4-M6/4-M8   | 14*14       | 4.7         |
| NOM16H0200P   | 303           | 132 | 342 | 82  | 260 | 214 | F07/F10 | 4-M8/4-M10  | 17*17/14*14 | 11.2        |
| NOM16H0400P   | 303           | 132 | 342 | 82  | 260 | 214 | F10/F12 | 4-M10/4-M12 | 22*22/19*19 | 11.7        |
| NOM16H0600P   | 303           | 132 | 342 | 82  | 260 | 214 | F10/F12 | 4-M10/4-M12 | 22*22       | 12.2        |
| NOM16H0800P   | 343           | 143 | 355 | 86  | 269 | 239 | F12     | 4-M12       | 27*27       | 16.7        |
| NOM16H1000P   | 343           | 143 | 355 | 86  | 269 | 239 | F12     | 4-M12       | 27*27       | 17.2        |
| NOM16H2000PN  | 383           | 151 | 380 | 103 | 277 | 266 | F14     | 4-M16       | 36*36       | 26          |
| NOM16H2000PBN | 383           | 151 | 380 | 103 | 277 | 266 | F16     | 4-M20       | 36*36       | 26          |
| NOM16H2000P   | 420           | 241 | 406 | 137 | 269 | 425 | F14     | 4-M16       | 36*36       | 53.2        |
| NOM16H2000PB  | 420           | 241 | 406 | 137 | 269 | 425 | F16     | 4-M20       | 36*36       | 53.2        |
| NOM16H4000P   | 420           | 241 | 406 | 137 | 269 | 425 | F16     | 4-M20       | 74.7 K-20   | 56.2        |
| NOM16H5000P   | 420           | 241 | 406 | 137 | 137 | 425 | F16/F25 | 4-M20       | 46*46       | 58.2        |

# Wiring Drawing

ON-OFF Type



Modulating Type



## For more information

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