

BV200 butterfly valves are manufactured exclusively from high-quality, advanced materials. They are used for both shutoff and flow control. A wide selection of materials allows for a valve to be selected for a wide range of operating conditions. MATICA® Series 200 valves are highly reliable and require little maintenance.

BV200 butterfly valves are used in industries such as water supply, sewerage, sea and industrial water, light chemicals, pharmaceuticals, oil and food industries.

BV200 butterfly valves are valves with a symmetrical disk arrangement, with an inter-flange (with smooth and threaded lugs, or a guide flange) connection.

Valves in this series are designed and manufactured in accordance with European design, construction, and quality requirements. A distinctive feature of the MATICA® BV200 butterfly valves is their soft seal, which eliminates the need for a rigid base ring, and the pinless connection between the stem and valve disc. The valve stem is secured within the body, eliminating the possibility of it being pulled out during operation. A three-stage axial sealing system ensures 100% sealing of the valve against the environment. The extended neck allows for thermal insulation of the pipeline. The valves can be installed in any orientation.

BV200 valve design is ergonomic, reliable, and compact. The design and technological solutions employed allow for valve repair and maintenance, including sleeve and disc replacement, by operating personnel without the need for specialized tooling or equipment.

MATICA® BV200 valves are equipped with various options of electric and pneumatic drives, sets of counter flanges and fasteners, upon customer request.



## ABOUT BASIC INFORMATION

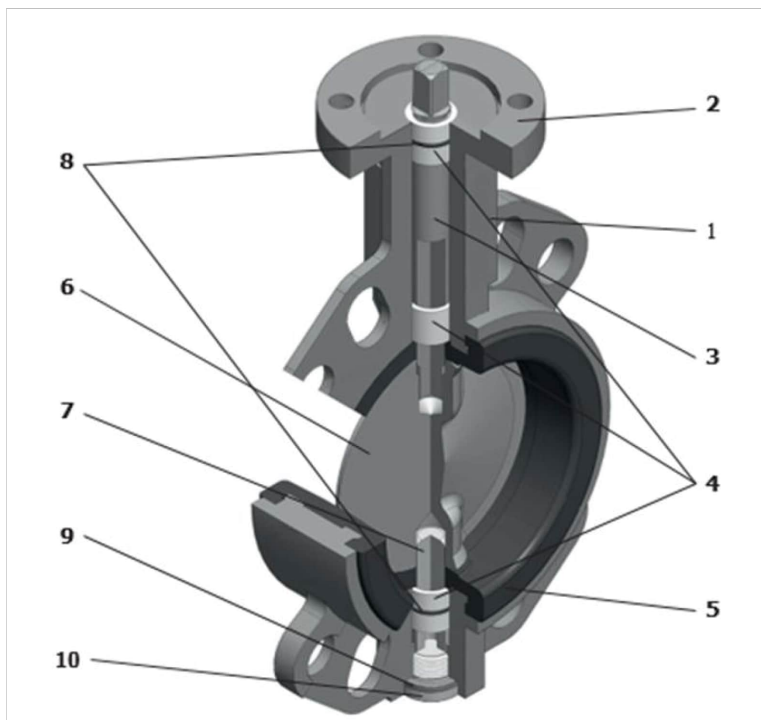
|                                               |                                                                                                                                                                            |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Construction type:                            | Symmetrical disc valves, serviceable, with elastomer seal                                                                                                                  |
| Nominal diameter, DN                          | 25 – 1200 on request*                                                                                                                                                      |
| Nominal pressure, MPa                         | 1.0 / 1.6 (0.6 and 2.5 on request)                                                                                                                                         |
| Working environment temperature:              | up to +210°C depending on the cuff material                                                                                                                                |
| Control:                                      | Handle DN 25-250 mm; gearbox DN 25-1200 mm; general industrial, explosion-proof electric drives DN 25-1200 mm; single-sided or double-sided pneumatic drives DN 25-1200 mm |
| Main working environments:                    | Water, air, natural gas and gaseous products, gaseous ammonia, petroleum products, hydrocarbons, acids, alkalis, alcohols, sea water                                       |
| Joining:                                      | Wafer type with smooth lugs; Wafer type with threaded lugs; Wafer type with centering flange; Flanged type F                                                               |
| Counter flanges:                              | DIN EN 1092                                                                                                                                                                |
| Installation position:                        | Any position except "electrically down" for electric valves                                                                                                                |
| Direction of working medium supply:           | Any                                                                                                                                                                        |
| Working medium flow rate:                     | Up to 80 m/s for gaseous media, up to 5 m/s for liquids                                                                                                                    |
| Flow characteristics of valves:               | At opening angles of 20-70°, the valves can be used to a limited extent for throttling the flow of the working medium.                                                     |
| Dimensions of the upper flange for the drive: | In accordance with ISO 5211 standard                                                                                                                                       |

## ADVANTAGES

BV200 butterfly valves are designed in accordance with international quality standards and norms. Thanks to the efforts of our specialists, the following undeniable advantages have been achieved:

|                                                                                     |                                                                                                          |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| High reliability confirmed by testing of each unit of the product;                  | The extended neck facilitates thermal insulation of communications at the installation site of the unit; |
| Work as shut-off and control valves;                                                | Application for vacuum up to 0.2 bar absolute;                                                           |
| 100% tightness ensured by non-slip sealing rings and the lower neck of the housing; | Standard anti-corrosion coating of the body and disk is 80 micron epoxy paint;                           |
| Ease of installation, maintenance and repair;                                       | A variety of designs from the spectrum of available flow diameters and drive versions.                   |
| Significant product life;                                                           | 18 months warranty from the date of commissioning;                                                       |

## MANUFACTURING MATERIALS



|                     |                                                                                                                                                                                                                                            |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Valve body       | 1 Grey cast iron GG25 with epoxy coating<br>2 Ductile iron GGG40 with epoxy coating<br>3 Carbon steel A216 WCB with epoxy coating<br>4 Stainless steel 4308 (CF8)<br>5 Stainless steel 1.4408 (CF8M)<br>9 Special steels and alloys        |
| 2. Drive flange     | ISO 5211                                                                                                                                                                                                                                   |
| 3. Upper rod        | stainless steel 1.4021 (AISI 420), stainless steel 1.4057 (AISI 431)                                                                                                                                                                       |
| 4. Sliding bushings | FCD45<br>BRONZEPTFE                                                                                                                                                                                                                        |
| 5. Saddle cuff      | NR<br>NBR<br>EPDM<br>EPDM HT<br>VITON<br>SILICONE<br>HYPALON<br>XXX                                                                                                                                                                        |
| 6. Rotary disk      | 2 High-strength cast iron GGG40 with epoxy coating<br>3 Carbon steel A216 WCB with epoxy coating<br>4 Stainless steel 1.4308 (CF8)<br>5 Stainless steel 1.4408 (CF8M)<br>9 Special steels and alloys<br>* - <i>disc lining on request.</i> |
| 7. Lower rod        | stainless steel 1.4021 (AISI 420), stainless steel 1.4057 (AISI 431)                                                                                                                                                                       |
| 8. Sealing rings    | NR<br>NBR<br>EPDM<br>EPDM HT<br>VITON<br>SILICONE<br>HYPALON<br>XXX                                                                                                                                                                        |
| 9. Gasket           | Copper (Cu)<br>PTFE                                                                                                                                                                                                                        |
| 10. Threaded plug   | Stainless steel 1.4308 (CF8),<br>Stainless steel 1.4408 (CF8M), Carbon steel Q235                                                                                                                                                          |

## MARKING

|           |          |          |          |   |             |   |           |           |   |            |   |            |   |          |          |   |           |   |            |
|-----------|----------|----------|----------|---|-------------|---|-----------|-----------|---|------------|---|------------|---|----------|----------|---|-----------|---|------------|
| <b>BV</b> | <b>2</b> | <b>2</b> | <b>4</b> | - | <b>EPDM</b> | - | <b>DN</b> | <b>50</b> | - | <b>1.6</b> | - | <b>130</b> | - | <b>4</b> | <b>W</b> | - | <b>HA</b> | - | <b>( )</b> |
| 1         | 2        | 3        | 4        |   | 5           |   | 6         | 6         |   | 7          |   | 8          |   | 9        | 10       |   | 11        |   | 12         |

### 1 Type designation

|           |                   |
|-----------|-------------------|
| <b>BV</b> | Rotary disc valve |
|-----------|-------------------|

### 2 Series marking

|          |                                     |
|----------|-------------------------------------|
| <b>2</b> | with symmetrical disk (serviceable) |
|----------|-------------------------------------|

### 3 Case material

|          |                                                  |
|----------|--------------------------------------------------|
| <b>1</b> | gray cast iron GG25 with epoxy coating           |
| <b>2</b> | high-strength cast iron GGG40 with epoxy coating |
| <b>3</b> | GS-C25 steel with epoxy coating                  |
| <b>4</b> | stainless steel CF8 (AISI304)                    |
| <b>5</b> | stainless steel CF8M (AISI316)                   |
| <b>9</b> | special steels and alloys *                      |
| <b>*</b> | execution using other materials upon request     |

### 4 Disc material

|          |                                                  |
|----------|--------------------------------------------------|
| <b>2</b> | high-strength cast iron GGG40 with epoxy coating |
| <b>3</b> | GS-C25 steel with epoxy coating                  |
| <b>4</b> | stainless steel CF8 (AISI304)                    |
| <b>5</b> | stainless steel CF8M (AISI316)                   |
| <b>9</b> | non-standard steels and alloys*                  |
| <b>*</b> | disc lining on request                           |

### 5 Cuff material

|                 |                                              |
|-----------------|----------------------------------------------|
| <b>NR</b>       | natural rubber *                             |
| <b>NBR</b>      | butadiene-nitrile rubber                     |
| <b>EPDM</b>     | ethylene-propylene rubbers                   |
| <b>EPDM HT</b>  | high-temperature ethylene propylene rubber * |
| <b>VITON</b>    | fluorinated rubber FKM, FPM                  |
| <b>SILICONE</b> | silicone rubber                              |
| <b>HYPALON</b>  | chlorosulfonated polyethylene *              |
| <b>XXX</b>      | special version *                            |

### 6 Nominal diameter, DN

|           |                    |
|-----------|--------------------|
| <b>50</b> | from 25 to 1200 mm |
|-----------|--------------------|

### 7 Nominal pressure

|            |           |
|------------|-----------|
| <b>0.6</b> | 0.6 MPa*  |
| <b>1.0</b> | 1.0 MPa   |
| <b>1.6</b> | 1.6 MPa   |
| <b>2.5</b> | 2.5 MPa * |

### 8 Maximum operating temperature

|            |                     |
|------------|---------------------|
| <b>90</b>  | 90°C for NBR and NR |
| <b>100</b> | 100°C for HYPALON   |
| <b>130</b> | 130°C for EPDM      |
| <b>200</b> | 200°C for VITON     |
| <b>210</b> | 210°C for SILICONE  |

### 9 Connection type

|          |                           |
|----------|---------------------------|
| <b>3</b> | flanged*                  |
| <b>4</b> | wafer                     |
| <b>9</b> | non-standard connection * |

### 10 Wafer type body

|          |                         |
|----------|-------------------------|
| <b>W</b> | Wafer through-hole lugs |
| <b>L</b> | LUG threaded lugs       |
| <b>U</b> | guide flange            |

### 11 Control type

|           |                 |
|-----------|-----------------|
| <b>NA</b> | without control |
| <b>HA</b> | lever           |
| <b>GA</b> | gearbox         |
| <b>PA</b> | pneumatic drive |
| <b>EA</b> | electric drive  |

### 12 Options

|                                                             |
|-------------------------------------------------------------|
| rod extensions                                              |
| intermediate gearboxes for drive                            |
| pressure reducing filters                                   |
| positioners                                                 |
| limit switches                                              |
| solenoids                                                   |
| and other equipment for installation, connection and piping |

\*- upon request

## ORDER EXAMPLE

BV244-EPDM-DN50-1.6-130-4W-GA

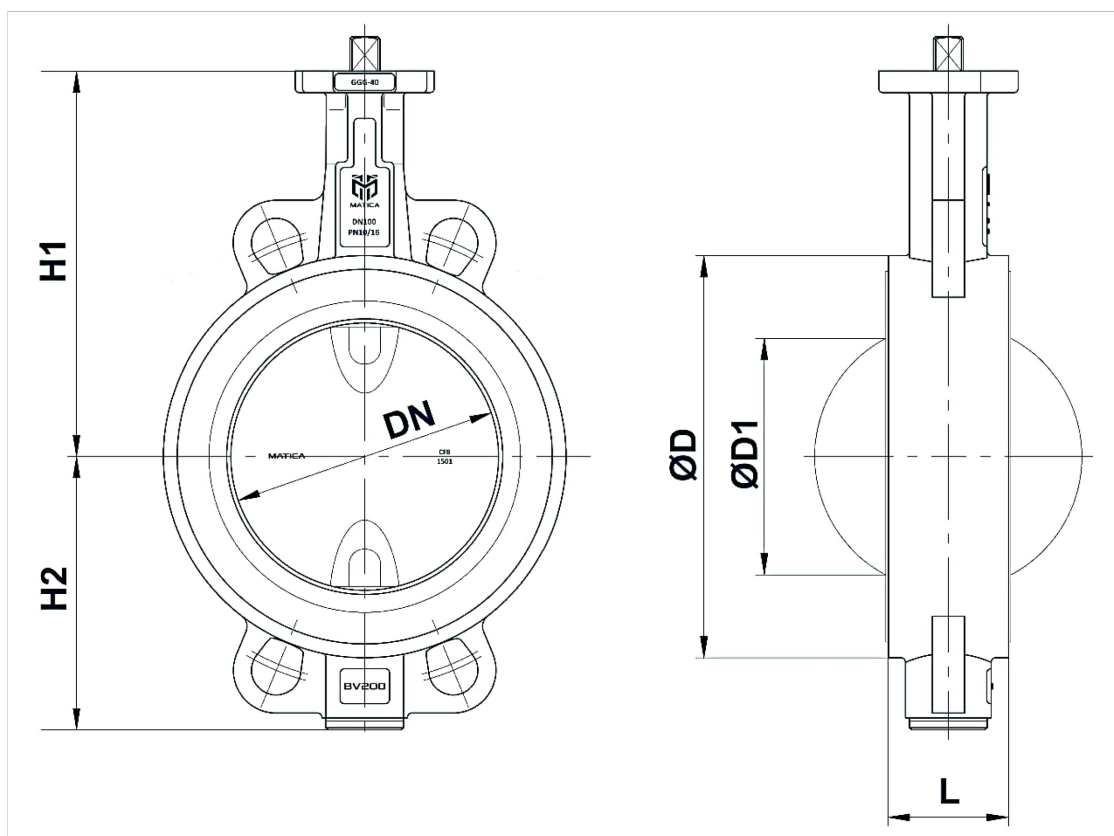
|             |                                     |                          |             |                                |
|-------------|-------------------------------------|--------------------------|-------------|--------------------------------|
| <b>BV</b>   | Rotary disc valve                   | <input type="checkbox"/> | <b>DN50</b> | nominal diameter DN50          |
| <b>2</b>    | with symmetrical disk (serviceable) | <input type="checkbox"/> | <b>1.6</b>  | maximum pressure, 1.6 MPa      |
| <b>4</b>    | CF8 (AISI304) stainless steel body  | <input type="checkbox"/> | <b>130</b>  | maximum temperature, 130°C     |
| <b>4</b>    | CF8 (AISI304) stainless steel disc  | <input type="checkbox"/> | <b>4W</b>   | Wafer connection, through lugs |
| <b>EPDM</b> | EPDM rubber cuff                    | <input type="checkbox"/> | <b>GA</b>   | gearbox control                |

## MARKING

A plaque will be installed on the hull deck using rivets or other means. The plaque will be indelibly painted and stamped with the following: Bolt model, body material (or on the bolt body); disc material (or on the disc body); performance characteristics; serial number (or on the bolt body); size (or on the bolt body); manufacturer's website.

**ATTENTION!!!** Do not remove or damage the plate from the shutter. Warranty or service may be denied if the plate is missing or damaged.

## MAIN OVERALL AND CONNECTION DIMENSIONS TYPE W



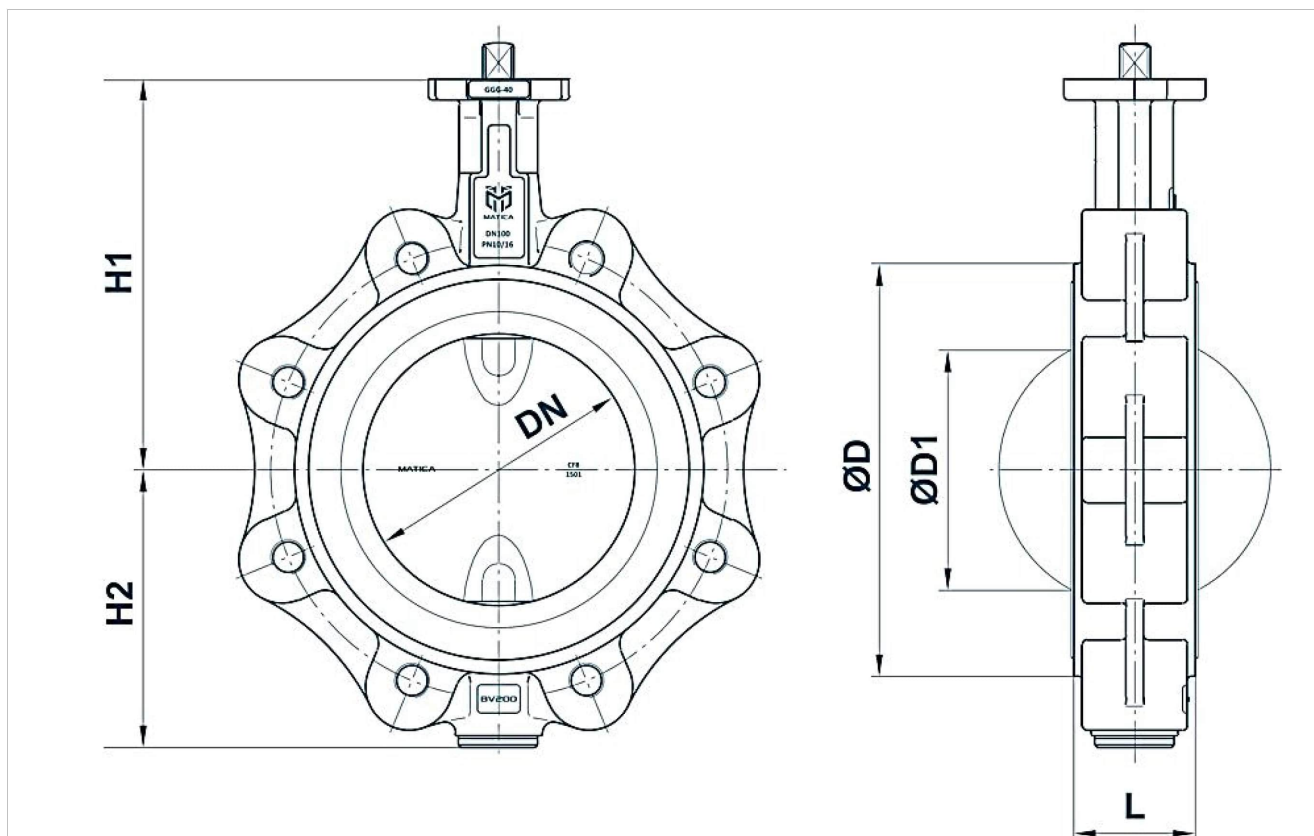
| DN (mm) | Size (inch) | Main dimensions (mm) |     |      |      |     | Weight (kg) |
|---------|-------------|----------------------|-----|------|------|-----|-------------|
|         |             | H1                   | H2  | D    | D1*  | L   |             |
| 25      | 1           | 104                  | 45  | 63   | 12   | 33  | 1.3         |
| 32      | 1 1/4       | 104                  | 50  | 68   | 16   | 33  | 1.4         |
| 40      | 1 1/2       | 113                  | 66  | 80   | 22   | 33  | 1.8         |
| 50      | 2           | 126                  | 84  | 95   | 25   | 43  | 2.2         |
| 65      | 2 1/2       | 134                  | 93  | 115  | 45   | 46  | 2.9         |
| 80      | 3           | 57                   | 104 | 138  | 65   | 46  | 4.0         |
| 100     | 4           | 167                  | 115 | 15   | 85   | 52  | 5.2         |
| 125     | 5           | 180                  | 127 | 188  | 111  | 56  | 6.9         |
| 150     | 6           | 203                  | 150 | 212  | 139  | 56  | 9.5         |
| 200     | 8           | 228                  | 176 | 268  | 190  | 60  | 13.2        |
| 250     | 10          | 266                  | 212 | 320  | 240  | 68  | 22.5        |
| 300     | 12          | 291                  | 237 | 370  | 287  | 78  | 31.5        |
| 350     | 14          | 332                  | 269 | 408  | 330  | 78  | 39.4        |
| 400     | 16          | 363                  | 314 | 470  | 378  | 102 | 58.7        |
| 450     | 18          | 397                  | 335 | 530  | 417  | 114 | 91.0        |
| 500     | 20          | 437                  | 405 | 574  | 474  | 127 | 107.0       |
| 600     | 24          | 498                  | 469 | 675  | 563  | 154 | 171.0       |
| 700     | 28          | 581                  | 507 | 772  | 660  | 165 | 251.0       |
| 800     | 32          | 630                  | 556 | 874  | 757  | 190 | 355.0       |
| 900     | 36          | 696                  | 617 | 973  | 860  | 203 | 456.0       |
| 1000    | 40          | 771                  | 675 | 1070 | 956  | 216 | 570.0       |
| 1200    | 48          | 880                  | 810 | 1510 | 1154 | 254 | 914.0       |

Subject to technical changes.

\* - disk output size.

Diameter DN 1400 – DN 2000 on request.

## MAIN OVERALL AND CONNECTION DIMENSIONS TYPE L



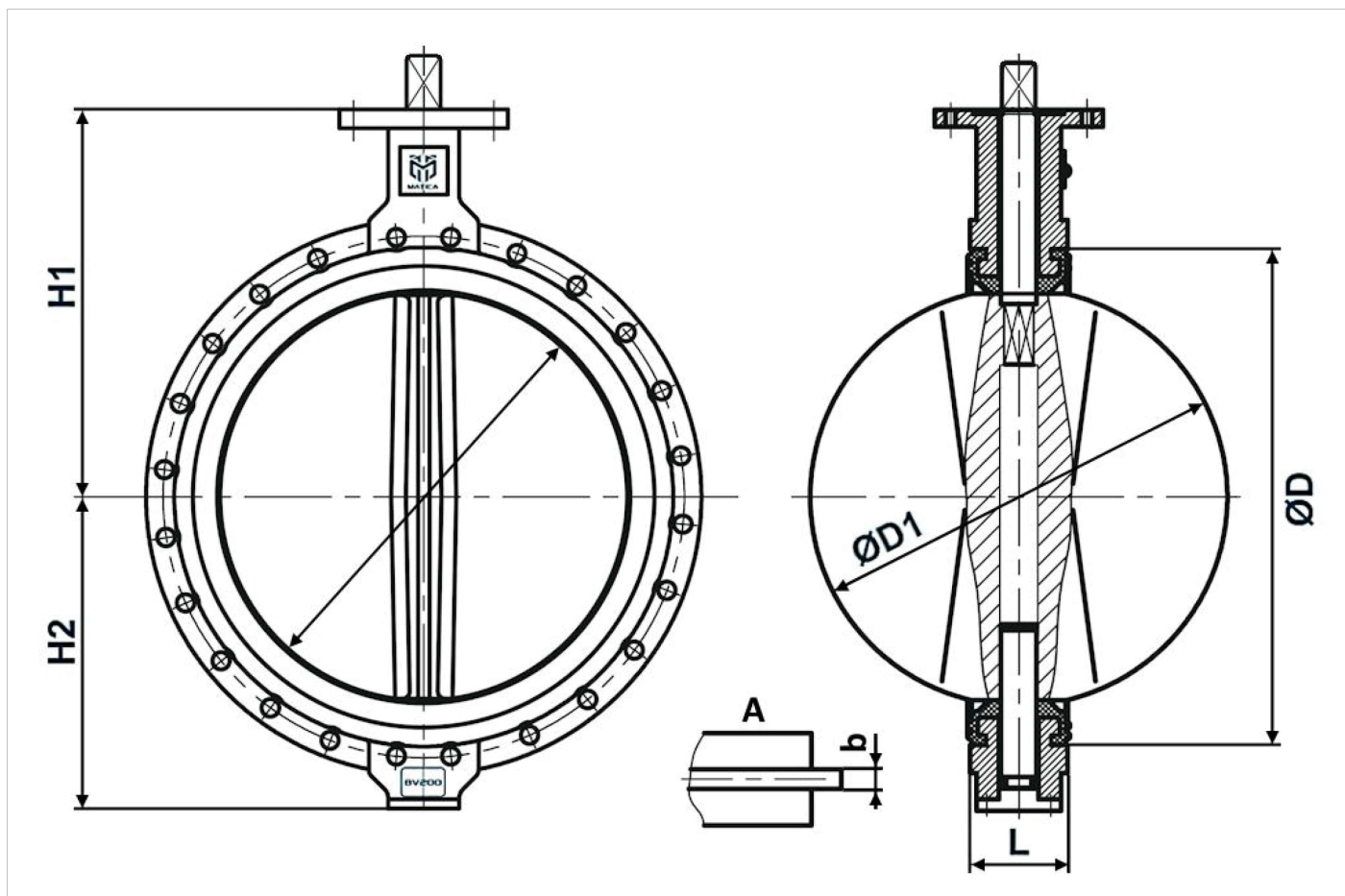
| DN (mm) | Size (inch) | Main dimensions (mm) |     |     |     |     | Weight (kg) |
|---------|-------------|----------------------|-----|-----|-----|-----|-------------|
|         |             | H1                   | H2  | D   | D1* | L   |             |
| 25      | 1           | 104                  | 45  | 63  | 12  | 33  | 2.1         |
| 32      | 1 1/4       | 104                  | 50  | 68  | 16  | 33  | 2.1         |
| 40      | 1 1/2       | 113                  | 66  | 80  | 22  | 33  | 4.0         |
| 50      | 2           | 126                  | 84  | 95  | 25  | 43  | 4.8         |
| 65      | 2 1/2       | 134                  | 93  | 115 | 45  | 46  | 5.5         |
| 80      | 3           | 57                   | 104 | 138 | 65  | 46  | 8.6         |
| 100     | 4           | 167                  | 115 | 15  | 85  | 52  | 9.8         |
| 125     | 5           | 180                  | 127 | 188 | 111 | 56  | 10.1        |
| 150     | 6           | 203                  | 150 | 212 | 139 | 56  | 13.1        |
| 200     | 8           | 228                  | 176 | 268 | 190 | 60  | 18.8        |
| 250     | 10          | 266                  | 212 | 320 | 240 | 68  | 29.5        |
| 300     | 12          | 291                  | 237 | 370 | 287 | 78  | 37.0        |
| 350     | 14          | 332                  | 269 | 408 | 330 | 78  | 54.8        |
| 400     | 16          | 363                  | 314 | 470 | 378 | 102 | 81.5        |
| 450     | 18          | 397                  | 335 | 530 | 417 | 114 | 101.4       |
| 500     | 20          | 437                  | 405 | 574 | 474 | 127 | 136.3       |
| 600     | 24          | 498                  | 469 | 675 | 563 | 154 | 240.5       |

Subject to technical changes.

\* - disk output size.

Diameter DN 700 – DN 2000 on request.

# MAIN OVERALL AND CONNECTION DIMENSIONS TYPE U



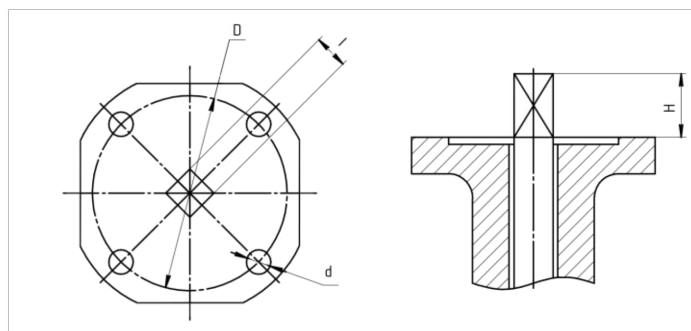
| DN (mm) | Size (inch) | Main dimensions (mm) |     |      |        |     |    | Weight (kg) |
|---------|-------------|----------------------|-----|------|--------|-----|----|-------------|
|         |             | H1                   | H2  | D    | D1*    | L   | b  |             |
| 700     | 28          | 629                  | 527 | 756  | 695    | 165 | 24 | 32 1.0      |
| 800     | 32          | 666                  | 591 | 860  | 794.7  | 190 | 24 | 42 5.0      |
| 900     | 36          | 720                  | 656 | 969  | 864.7  | 203 | 24 | 52 6.0      |
| 1000    | 40          | 800                  | 721 | 1065 | 965    | 216 | 33 | 63 0.0      |
| 1200    | 48          | 941                  | 864 | 1276 | 1160.6 | 254 | 42 | 107 4.0     |

Subject to technical changes.

\* - disk output size.

Diameter DN 1400 – DN 2000 on request.

## TOP FLANGE DIMENSIONS AND TORQUES FOR DRIVE SELECTION



| DN ( mm) | ISO flange | Dimensions, mm |        |    |     | N*m     |         |
|----------|------------|----------------|--------|----|-----|---------|---------|
|          |            | D              | d      | l  | H   | 1.0 MPa | 1.6 MPa |
| 25       | x*         | x*             | x*     | x* | x*  | 5       | 6       |
| 32       | x*         | x*             | x*     | x* | x*  | 5       | 6       |
| 40       | x*         | x*             | x*     | x* | x*  | 6       | 8       |
| 50       | F0 7       | 70             | 4xM 8  | 11 | 30  | 9       | 11      |
| 65       | F0 7       | 70             | 4xM 8  | 11 | 30  | 15      | 18      |
| 80       | F0 7       | 70             | 4xM 8  | 11 | 30  | 23      | 27      |
| 100      | F07        | 70             | 4xM 8  | 11 | 30  | 35      | 45      |
| 125      | F07        | 70             | 4xM 8  | 14 | 30  | 60      | 70      |
| 150      | F07        | 70             | 4xM8   | 14 | 30  | 100     | 110     |
| 200      | F10        | 102            | 4xM 10 | 17 | 35  | 168     | 220     |
| 250      | F10        | 102            | 4xM 10 | 22 | 35  | 280     | 380     |
| 300      | F10        | 102            | 4xM 10 | 22 | 35  | 360     | 500     |
| 350      | F10        | 102            | 4xM10  | 22 | 35  | 600     | 960     |
| 400      | F14        | 140            | 4xM 16 | 27 | 50  | 920     | 1500    |
| 450      | F14        | 140            | 4xM 16 | 27 | 50  | 1355    | 1887    |
| 500      | F14        | 140            | 4xM 16 | 36 | 50  | 1600    | 2500    |
| 600      | F16        | 165            | 4xM20  | 36 | 60  | 4100    | 6200    |
| 700      | F25        | 254            | 8xM 16 | x* | 80  | 3450    | 6100    |
| 800      | F25        | 254            | 8xM16  | x* | 80  | 5400    | 8780    |
| 900      | F25        | 254            | 8xM16+ | x* | 100 | 7100    | 12150   |
| 1000     | F25        | 254            | 8xM16  | x* | 100 | 11000   | 19350   |
| 1200     | F 30       | 298            | 8xM20  | x* | 100 | 20,000  | 27,000  |

The table shows the torque values at room temperature for liquid working medium.

- Dry environments - increase values by 50%
- Gases - increase values by 30%.

**ATTENTION!!!** When selecting a drive, the values should be taken with a 30% reserve.

MATICA will be happy to assist you with the calculation of drives and control functions.

## RELIABILITY INDICATORS OF VALVES BY SEALING UNIT

| DN ( mm)                                         | 25 - 100 | 125, 150 | 200 - 300 | 350, 400 | 450 - 600 | 700 - 900 | 1000, 1200 |
|--------------------------------------------------|----------|----------|-----------|----------|-----------|-----------|------------|
| Average resource, cycles, not less than          | 7000     | 6500     | 5500      | 4900     | 4000      | 3300      | 3000       |
| Guaranteed operating time, cycles, not less than | 2800     | 2600     | 2200      | 2000     | 1,600     | 1350      | 1200       |

### CAPACITY OF VALVES Kv , m3 / hour:

| DN | 40 | 50  | 65  | 80  | 100 | 125  | 150  | 200  | 250  | 300  |
|----|----|-----|-----|-----|-----|------|------|------|------|------|
| Kv | 68 | 145 | 225 | 325 | 590 | 1125 | 1950 | 3250 | 5000 | 7500 |

| DN | 350  | 400   | 450   | 500   | 600   | 700   | 800   | 900   | 1000  | 1200   |
|----|------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Kv | 8620 | 10416 | 15215 | 18959 | 24869 | 36200 | 44300 | 58000 | 80600 | 110500 |

### VALVE CONTROL OPTIONS

BV200 butterfly valves are available with various control options (handles, worm gears, pneumatic actuators, and electric actuators) upon customer request. Optional accessories include stem extensions, pressure reducers, positioners, limit switches, solenoids, and other equipment for installation, connection, and piping.

| HANDLES ON       |         |          |          |
|------------------|---------|----------|----------|
| DN (mm)          | 25 - 40 | 50 - 150 | 200, 250 |
| ISO flange mount | F05     | F07      | F10      |

BV200 valves are equipped with HA-type aluminum handles for manual operation, featuring a protective coating for increased resistance to corrosion, abrasion, and impact. Stainless steel handles are also available. The handles can be equipped with a locking mechanism to ensure optimal positioning. Limit switches can be added to the handles.



| GA GEARBOXES     |         |          |           |           |     |            |      |
|------------------|---------|----------|-----------|-----------|-----|------------|------|
| DN (mm)          | 25 - 40 | 50 - 100 | 200 - 350 | 400 - 500 | 600 | 700 - 1000 | 1200 |
| ISO flange mount | F05     | F07      | F10       | F14       | F16 | F25        | F30  |

The GA-type manual gearbox is made of ductile iron and stamped steel, ensuring trouble-free operation in all modes of operation of the MATICA® BV200 valves (open/close or regulation). It is IP67 moisture-proof. A self-locking gearbox holds the valve disc in the desired position. It is also equipped with a handwheel for operation, mechanical limit switches, and a disc position indicator. Gearboxes, like handles, can be equipped with limit switches. Stainless steel gearboxes are available upon request.



| PNEUMATIC DRIVES PA |         |          |           |           |     |            |      |
|---------------------|---------|----------|-----------|-----------|-----|------------|------|
| DN (mm)             | 25 - 40 | 50 - 100 | 200 - 350 | 400 - 500 | 600 | 700 - 1000 | 1200 |
| ISO flange mount    | F05     | F07      | F10       | F14       | F16 | F25        | F30  |

BV200 valves use two-piston PA type actuators with double-sided rack and pinion transmission. (double DA) or Single-acting (normally closed NC or normally open NO). IP67 moisture protection. PA type pneumatic actuators are made of anodized aluminum. Stainless steel pneumatic actuators are available upon request. Pneumatic actuators can also be equipped with limit switches, solenoid (distribution) valves, electro- pneumatic and pneumatic positioners, air preparation units, manual overrides, and other equipment according to customer specifications.



| PA pneumatic actuator options                                                       |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Pneumatic drive PA                                                                  | Pneumatic drive PA.H                                                                | Pneumatic drive PA.G                                                                | Pneumatic drive PA.SS                                                                | Pneumatic drive PA.HH                                                                 |
|  |  |  |  |  |
| Standard aluminum version                                                           | Reinforced drive for heavy working conditions                                       | Pneumatic drive with integrated manual override                                     | Pneumatic actuator made of stainless steel                                           | Rack and pinion pneumatic actuator for valves from DN 1000                            |

### EA ELECTRIC DRIVES

| DN (mm)          | 25 - 40 | 50 - 100 | 200 - 350 | 400 - 500 | 600 | 700 - 1000 | 1200 |
|------------------|---------|----------|-----------|-----------|-----|------------|------|
| ISO flange mount | F05     | F07      | F10       | F14       | F16 | F25        | F30  |

BV200 valves use type EA electric actuators with a rotation angle of 0–270 degrees. IP67 moisture protection. Pneumatic actuators have a clearly visible indicator indicating the open or closed position. A self-locking feature allows the switch to remain in the last position when the power is removed. Controlled by 380V/220V/110V AC or 24V/110V DC power inputs. 4–20 mA or 0–10 VDC control signal. Type EA electric actuators are made of anodized aluminum. Stainless steel pneumatic actuators are available upon request.



### GA Electric Drive Options

| Electric drive EA                                                                 | Electric drive EA.P                                                               | Electric drive EA.G                                                               | Electric drive EA.SS                                                               | Electric drive EA.I                                                                 |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |
| Standard aluminum version                                                         | Electric drive with the system return                                             | Electric drive with integrated manual override                                    | Electric drive made of stainless steel                                             | Intelligent electric drive                                                          |

### OPTIONS

|                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |
| End position blocks                                                                 | Pneumatic positioners                                                               | Electropneumatic positioners                                                        | Solenoid valves                                                                      | Gearboxes pressure                                                                    |
|  |  |  |  |  |
| Air preparation filters                                                             | Extension cords rod                                                                 | Worm gearboxes for drive mounting                                                   | Transition racks for drives                                                          | Adapters for actuators                                                                |