



Type 2671 can be combined with...



Type 2051
Pneumatic
actuator



Type 2052
Pneumatic
actuator



Type 3003
Electric
actuator



Type 3005
Electric
actuator



Type 3004
Electric
actuator

2/2-way shut-off butterfly valves, in metal for media streams.

There are different housing types and materials for diverse applications. They are used in the metal industry, power generation, pulp and paper, mining, shipbuilding, environmental engineering and mechanical engineering.

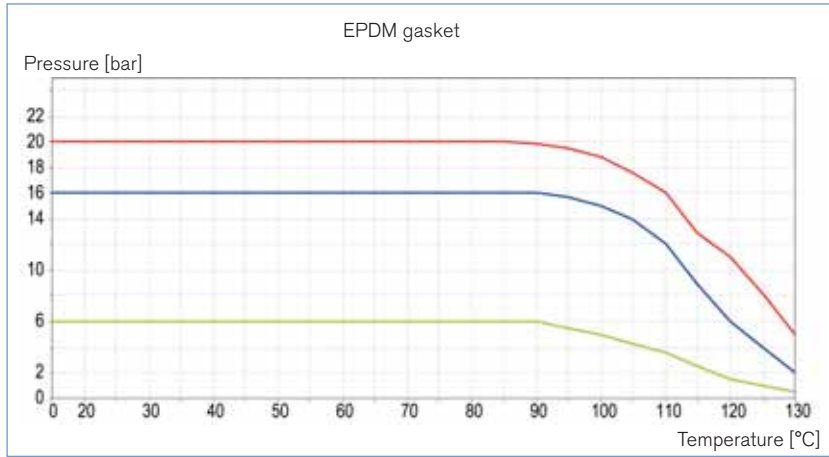
- Common shaft for self centering disc
- PFA-coated shaft in the sealing portion
- Blow-out proof shaft seal
- Spherically shaped disc actuated by Multiple grooves
- Self-centering for regular wear and low torque

2/2-way Butterfly Valves Intermediate flange mounting

- Manually operated / automatable
- High flow rate
- Shaft and housing are non-wetted parts
- Low torque through self-lubricating bearing bush

| Technical data | |
|-----------------------------|---|
| Orifice | DN25 to 300 |
| Body material | GG25 (GGG40 on request) |
| Body | Wafer |
| Disc material | 316 (other materials or coatings on request) |
| Seal material | EPDM (NBR, FKM on request) |
| Medium temperature | EPDM -10° C to 120° C (see Pressure/ Temperature chart p. 2) |
| Medium pressure | max. 16 bar (see Pressure/ Temperature chart p. 2) |
| Port connections | EN1092-1 & EN1092-2 ASME/ANSI B16.1 Class 125 ASME/ANSI B16.5 Class 150 (see chart p. 4) |
| ISO top flange | EN ISO 5211 |
| Type | EN593 |
| Considered standards | ISO 5752 Serie 20 EN 558 Serie 20 API609 Chart 2 |

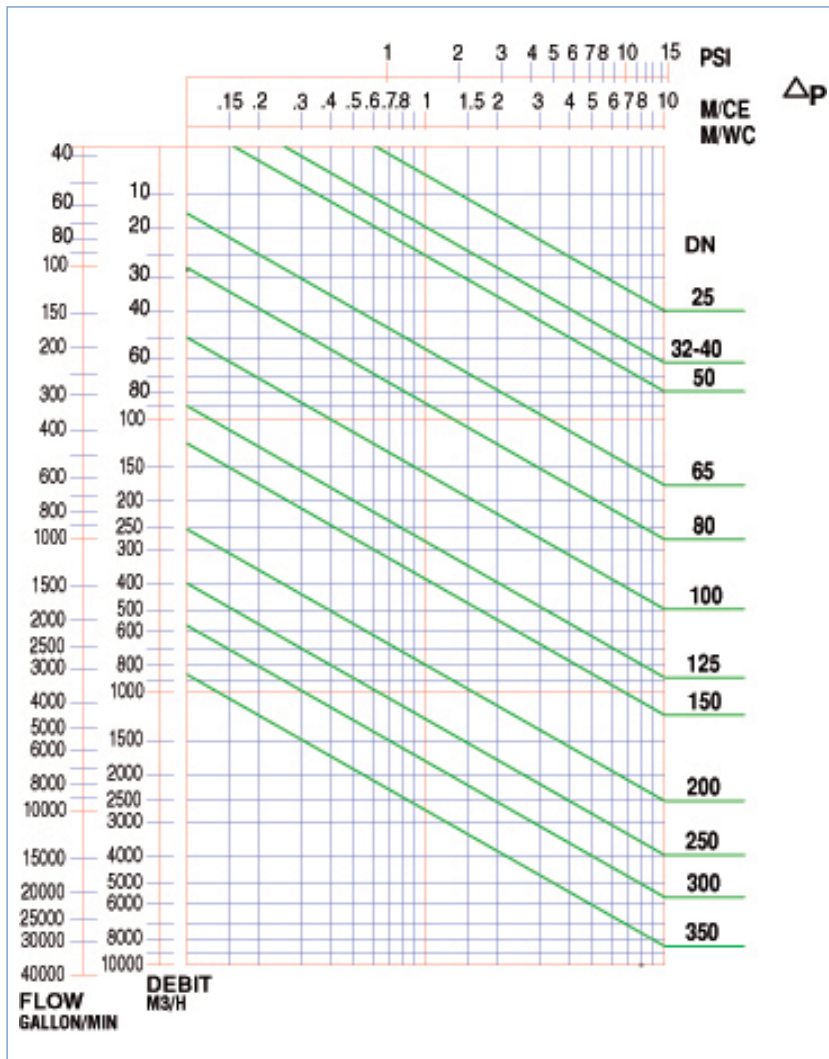
Pressure/Temperature diagramm

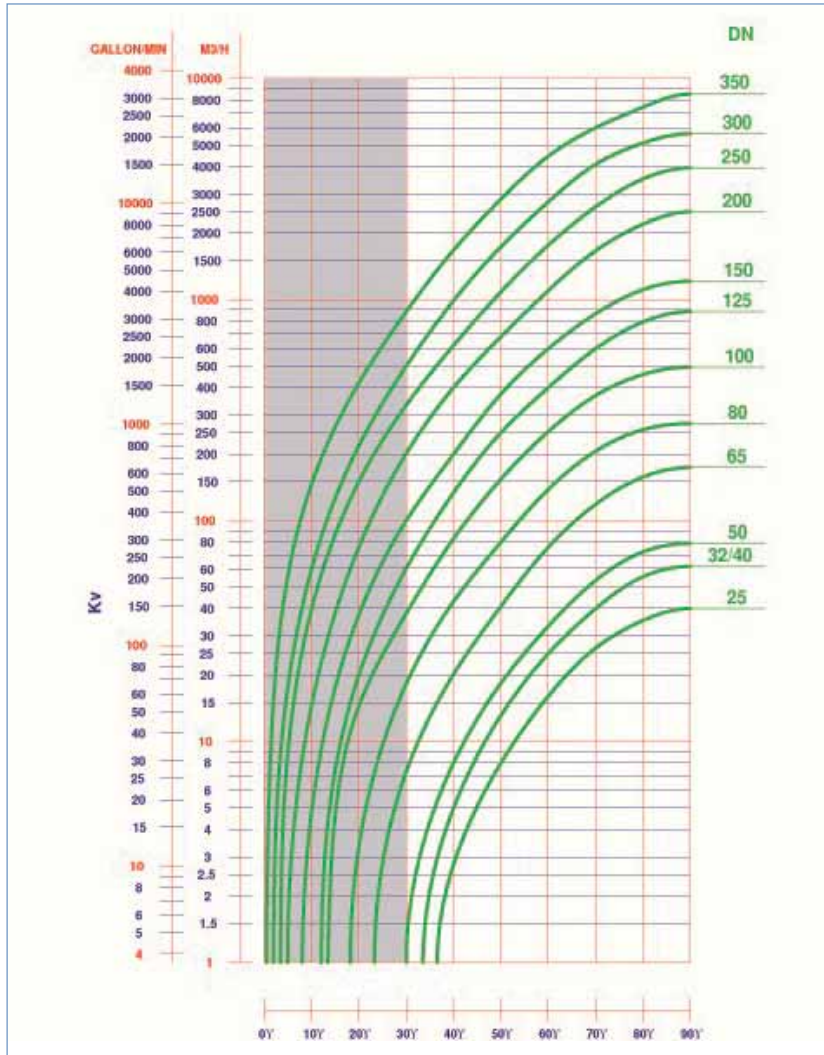


Torque [Nm] for water at 20 °C

| Orifice [mm] | 25 | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 |
|--------------|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|
| PN 6 | 10 | 10 | 10 | 10 | 10 | 20 | 22 | 40 | 45 | 100 | 200 | 280 |
| PN 16 | 10 | 10 | 10 | 10 | 18 | 25 | 46 | 50 | 60 | 180 | 280 | 430 |

Pressure drop diagram for water at 20 °C



Flow rate Kv [m³/h]

| Orifice [mm] | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° |
|--------------|-----|-----|-----|-----|------|------|------|------|------|
| 25 | - | - | - | 3 | 8 | 16 | 27 | 35 | 40 |
| 32/40 | - | - | - | 5 | 12 | 25 | 40 | 56 | 62 |
| 50 | - | - | 1 | 8 | 18 | 33 | 54 | 71 | 79 |
| 65 | - | - | 6 | 19 | 41 | 76 | 118 | 158 | 174 |
| 80 | - | 3 | 18 | 43 | 79 | 138 | 211 | 252 | 275 |
| 100 | - | 15 | 38 | 83 | 154 | 253 | 368 | 458 | 496 |
| 125 | - | 20 | 61 | 134 | 249 | 399 | 599 | 792 | 883 |
| 150 | 5 | 37 | 100 | 200 | 374 | 600 | 863 | 1109 | 1212 |
| 200 | 15 | 76 | 200 | 399 | 680 | 1099 | 1666 | 2196 | 2500 |
| 250 | 40 | 150 | 333 | 621 | 1084 | 1765 | 2652 | 3517 | 3948 |
| 300 | 60 | 219 | 500 | 989 | 1736 | 2770 | 4097 | 5118 | 5635 |

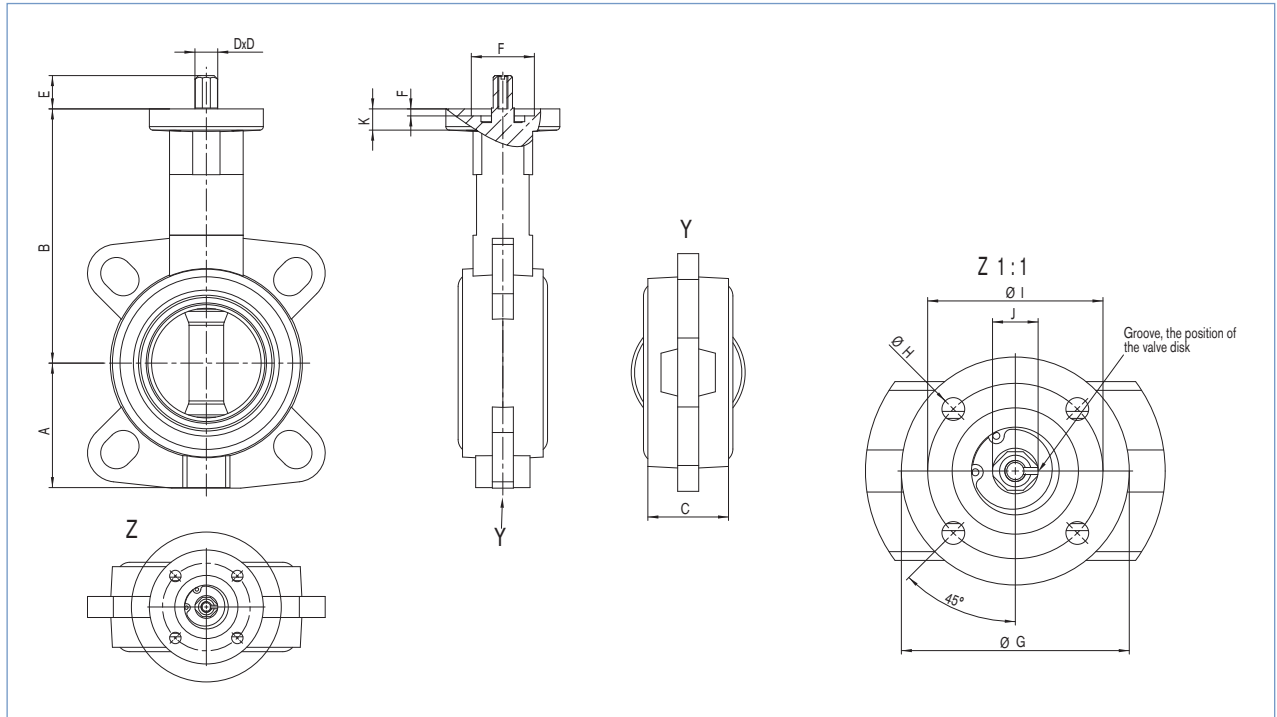
Kvs value [m³ / h] Nominal flow rate for water according to VDI / VDE 2173. Measurement at a medium temperature of 15 °C, 1 bar pressure at the inlet and free outlet.

A butterfly valve is not the best fitting for flow control. However, the butterfly valve can be used as a control valve at an opening angle between 30° and 90°. A regulation to an opening angle below 30° is not recommended due to high flow rates and cavitation, because this results in early damage of the valve.

The max. Flow rate of medium through the butterfly valve must not be exceeded:

- 3 m/s for liquid medium. The use between 3 and 5 m/s is possible, however, increases the risk of cavitation, noise, vibrations and pressure surges.
- 20m/s for Gas. The use between 20 and 25m/s is possible, however, increases the risk of cavitation, noise, vibrations and pressure surges.

Dimensions [mm]



| Orifice | A | B | C | D | E | F | G | H | I | ISO 5211 | J | K |
|---------|-----|-----|----|----|----|----|-----|------|-----|----------|----|------|
| 25 | 50 | 125 | 32 | 11 | 16 | 36 | 65 | 6.5 | 50 | F05 | 12 | 10 |
| 32 | 57 | 130 | 32 | 11 | 16 | 36 | 65 | 6.5 | 50 | F05 | 12 | 10 |
| 40 | 57 | 130 | 32 | 11 | 16 | 36 | 65 | 6.5 | 50 | F05 | 12 | 10 |
| 50 | 62 | 136 | 43 | 11 | 16 | 36 | 65 | 6.5 | 50 | F05 | 12 | 12 |
| 65 | 70 | 145 | 46 | 11 | 16 | 36 | 65 | 6.5 | 50 | F05 | 12 | 12 |
| 80 | 89 | 151 | 46 | 11 | 16 | 36 | 65 | 6.5 | 50 | F05 | 12 | 12 |
| 100 | 106 | 175 | 52 | 14 | 19 | 56 | 90 | 8.5 | 70 | F07 | 15 | 12 |
| 125 | 120 | 190 | 56 | 14 | 19 | 56 | 90 | 8.5 | 70 | F07 | 15 | 12 |
| 150 | 131 | 203 | 56 | 14 | 19 | 56 | 90 | 8.5 | 70 | F07 | 15 | 15,5 |
| 200 | 164 | 251 | 60 | 17 | 24 | 71 | 125 | 10.5 | 102 | F10 | 20 | 16 |
| 250 | 200 | 276 | 68 | 22 | 24 | 71 | 125 | 10.5 | 102 | F10 | 26 | 16 |
| 300 | 235 | 301 | 78 | 22 | 29 | 87 | 150 | 12.5 | 125 | F12 | 26 | 16 |

Connection flange

| Orifice | | EN1092-1 & EN1092-2 | | | | | ASME / ANSI B16.1 Class 125 | ASME / ANSI B16.5 Class 150 | ASME / ANSI B16.5 Class 300 | BS10 | | JIS B2238 & JIS B2239 | | |
|---------|-------|---------------------|------|------|------|------|--------------------------------------|--------------------------------------|--------------------------------------|---------|---------|-----------------------|-------|-------|
| | | PN6 | PN10 | PN16 | PN25 | PN40 | | | | Table D | Table E | 5 GP | 10 GP | 16 GP |
| 25 | 1 | yes | yes | yes | yes | yes | yes | yes | yes | yes | yes | No | yes | no |
| 32 | 1 1/4 | yes | yes | yes | yes | yes | yes | yes | yes | no | no | no | yes | no |
| 40 | 1 1/2 | yes | yes | yes | yes | yes | yes | yes | no | yes | yes | no | yes | no |
| 50 | 2 | yes | yes | yes | yes | yes | yes | yes | no | yes | yes | no | no | no |
| 65 | 2 1/2 | yes | yes | yes | yes | yes | yes | yes | no | no | no | yes | yes | no |
| 80 | 3 | yes | yes | yes | yes | yes | yes | yes | no | yes | yes | yes | no | no |
| 100 | 4 | yes | yes | yes | yes | yes | yes | yes | no | yes | yes | no | no | yes |
| 125 | 5 | yes | yes | yes | no | no | yes | yes | no | yes | yes | yes | yes | no |
| 150 | 6 | yes | yes | yes | no | no | yes | yes | no | yes | no | yes | yes | no |
| 200 | 8 | yes | yes | yes | no | no | yes | yes | no | no | no | no | no | no |
| 250 | 10 | yes | yes | yes | no | no | yes | yes | no | no | yes | yes | yes | no |
| 300 | 12 | yes | yes | yes | no | no | yes | yes | no | yes | yes | no | no | no |

Ordering chart (other versions on request)

| Orifice | Body material | Gasket | KVs [m ³ /h] | Weight without hand lever [kg] | Weight with hand lever [kg] | Item no. without hand lever | Item no. with hand lever |
|---------|---------------|--------|-------------------------|--------------------------------|-----------------------------|-----------------------------|--------------------------|
| 25 | GG25 | EPDM | 40 | 1.6 | 2.4 | 770 959 | 255 059 |
| 32/40 | GG25 | EPDM | 62 | 1.8 | 2.6 | 770 520 | 255 060 |
| 50 | GG25 | EPDM | 79 | 2.5 | 3.3 | 770 961 | 255 061 |
| 65 | GG25 | EPDM | 174 | 2.9 | 3.7 | 770 962 | 255 062 |
| 80 | GG25 | EPDM | 275 | 3.2 | 4.0 | 770 963 | 255 063 |
| 100 | GG25 | EPDM | 496 | 5.1 | 6.3 | 770 964 | 255 064 |
| 125 | GG25 | EPDM | 883 | 6.5 | 7.7 | 770 517 | 255 065 |
| 150 | GG25 | EPDM | 1212 | 8.0 | 9.2 | 770 966 | 255 066 |
| 200 | GG25 | EPDM | 2500 | 13.9 | 16.8 | 770 516 | 255 067 |
| 250 | GG25 | EPDM | 3948 | 20.6 | 23.4 | 770 968 | 255 069 |
| 300 | GG25 | EPDM | 5635 | 22.2 | 25.6 | 770 881 | 255 070 |

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