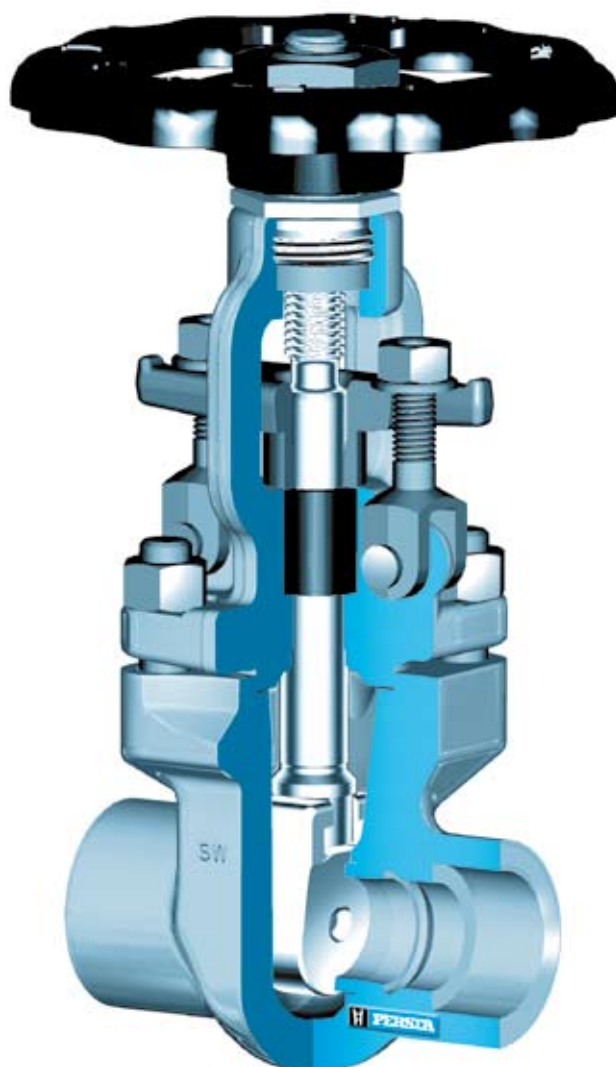


■ Gate valves ■ Small gate valve ■ 808 GJ ■ PN 10-100 ■ DN 10-40



**Range of application**

Admissible operating pressure [bar] at design temperature [°C] <sup>1)</sup>

| Material                    | PN           | -200 | -60 | -10 | 20  | 120 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 475 | 480 | 500 | 510 | 520 | 530 | 540 | 550 |
|-----------------------------|--------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>1.0460</b>               | <b>10-40</b> |      |     | 40  | 40  | 40  | 37  | 35  | 32  | 28  | 24  | 21  | 13  | 8   | 7   |     |     |     |     |     |     |
|                             | <b>63</b>    |      |     | 63  | 63  | 63  | 56  | 50  | 45  | 40  | 36  | 32  | 21  | 13  | 12  |     |     |     |     |     |     |
|                             | <b>100</b>   |      |     | 100 | 100 | 100 | 90  | 80  | 70  | 60  | 56  | 50  | 34  | 21  | 19  |     |     |     |     |     |     |
| <b>1.7335</b>               | <b>10-40</b> |      |     | 40  | 40  | 40  | 40  | 40  | 40  | 40  | 38  | 36  | 34  | 32  | 31  | 29  | 24  | 19  | 15  | 12  | 9   |
|                             | <b>63</b>    |      |     | 63  | 63  | 63  | 63  | 63  | 63  | 63  | 61  | 58  | 56  | 52  | 51  | 47  | 40  | 32  | 25  | 20  | 15  |
|                             | <b>100</b>   |      |     | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 95  | 91  | 87  | 81  | 79  | 74  | 62  | 49  | 38  | 30  | 23  |
| <b>1.0566 <sup>2)</sup></b> | <b>10-40</b> |      |     | 40  | 40  | 40  | 37  | 35  | 34  | 28  |     |     |     |     |     |     |     |     |     |     |     |
|                             | <b>63</b>    |      |     | 63  | 63  | 63  | 58  | 50  | 45  | 40  |     |     |     |     |     |     |     |     |     |     |     |
|                             | <b>100</b>   |      |     | 100 | 100 | 100 | 92  | 80  | 70  | 60  |     |     |     |     |     |     |     |     |     |     |     |
| <b>1.4571</b>               | <b>10-40</b> | 40   | 40  | 40  | 40  | 40  | 38  | 35  | 33  | 31  | 30  | 29  |     |     |     |     |     |     |     |     |     |
|                             | <b>63</b>    | 63   | 63  | 63  | 63  | 63  | 57  | 50  | 47  | 44  | 42  | 40  |     |     |     |     |     |     |     |     |     |
|                             | <b>100</b>   | 100  | 100 | 100 | 100 | 100 | 90  | 80  | 75  | 70  | 65  | 60  |     |     |     |     |     |     |     |     |     |

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.

2) At temperature > 50 °C only applicable for short-time service.

■ **Gate valves** ■ **Small gate valve** ■ **808 GJ** ■ **PN 10-100** ■ **DN 10-40**

#### Standard features

- Die-forged body and bonnet
- Full bore
- Wedge
- Outside screw and yoke
- Non-turning rising stem
- Available with flange, socket and butt-weld ends

#### Pressure and temperature ratings

- Pressure rating up to 100 bar
- Temperature rating up to 550 °C

#### Materials

- 1.0460
- 1.7335
- 1.0566
- 1.4571

Further materials on request.

#### Media

Depending on the material the gate valves are suitable for water, gas, oil and other non aggressive media

#### Fields of application

Chemical industries, power plants, ship building and other

#### Design Highlights

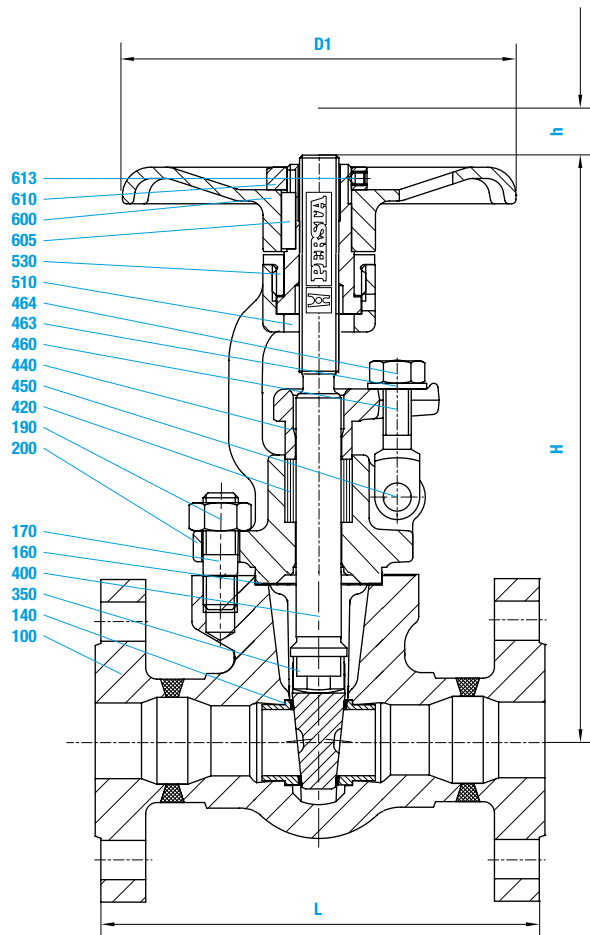
- Die-forged body and bonnet
- Wedge made of stellite
- Gasket, male and female face
- Full bore
- Non-turning, rising stem

#### Benefits

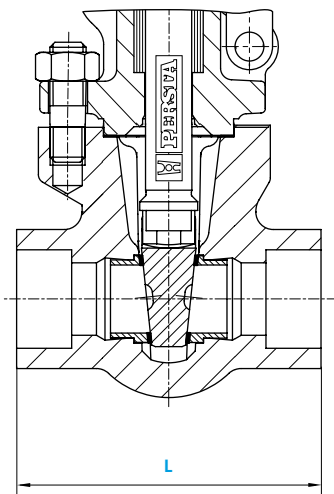
- Free from porosity and shrink holes
- Extremely resistant to wear
- Blow out protection
- No reduction in seat area
- Minimal wear of the gland-packing

■ Gate valves ■ Small gate valve ■ 808 GJ ■ PN 10-100 ■ DN 10-40

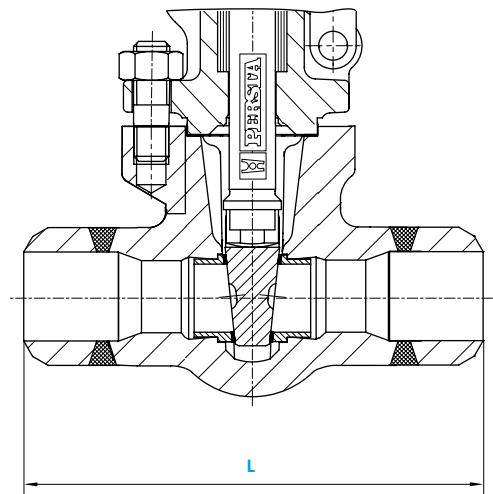
Small gate valve FL-version



Socket welding version



BW-version



■ Gate valves ■ Small gate valve ■ 808 GJ ■ PN 10-100 ■ DN 10-40

| Materials                  |               |             |                      |             |             |
|----------------------------|---------------|-------------|----------------------|-------------|-------------|
| Pos.                       | Component     | 1.0460 (21) | 1.7335 (44)          | 1.0566 (25) | 1.4571 (87) |
| 100                        | Body          | 1.0460      | 1.7335               | 1.0566      | 1.4571      |
| 140                        | Seat ring     | 1.4571      | 1.4571 <sup>1)</sup> | 1.4571      | 1.4571      |
| 160                        | ▶ Gasket      | Graphite    | Graphite             | Graphite    | Graphite    |
| 170                        | Stud          | 1.7709      | 1.4923               | A4-70       | A4-70       |
| 190                        | Hexagonal nut | 1.7218      | 1.4923               | A4-70       | A4-70       |
| 200                        | Bonnet        | 1.0460      | 1.7335               | 1.0566      | 1.4571      |
| 350                        | Wedge         | 1.4021      | 2.5788               | 2.5788      | 2.5788      |
| 400                        | ▶ Stem        | 1.4021      | 1.4021               | 1.4571      | 1.4571      |
| 420                        | ▶ Packing     | Graphite    | Graphite             | Graphite    | Graphite    |
| 440                        | Gland flange  | 1.0460      | 1.0460               | 1.4571      | 1.4571      |
| 450                        | Rivet         | 1.1181      | 1.1181               | A4-50       | A4-50       |
| 460                        | Gland bolt    | 1.1181      | 1.1181               | 1.4571      | 1.4571      |
| 463                        | Washer        | St          | St                   | A4-50       | A4-50       |
| 464                        | Hexagonal nut | 1.1181      | 1.1181               | A4-70       | A4-70       |
| 510                        | ▶ Yoke sleeve | 1.0718      | 1.0718               | 1.0718      | 1.0718      |
| 530                        | Yoke nut      | 1.0718      | 1.0718               | 1.0718      | 1.0718      |
| 600                        | Handwheel     | 0.7040      | 0.7040               | 0.7040      | 0.7040      |
| 605                        | Key           | 1.0060      | 1.0060               | 1.0060      | 1.0060      |
| 610                        | Hexagonal nut | St          | St                   | St          | St          |
| 613                        | Screw pin     | 45H         | 45H                  | 45H         | 45H         |
| ▶ Spare parts              |               |             |                      |             |             |
| 1) Welded on with Stellite |               |             |                      |             |             |

| Dimensions/mm and Kvs-values |    |         |         |         |     |        |     |                            |
|------------------------------|----|---------|---------|---------|-----|--------|-----|----------------------------|
| PN                           | DN | FL<br>L | BW<br>L | SM<br>L | H   | Stroke | D1  | Kvs<br>(m <sup>3</sup> /h) |
| 10-100                       | 10 |         |         | 105     | 205 | 27     | 140 |                            |
|                              | 15 | 130     | 130     | 105     | 205 | 27     | 140 | 14,2                       |
|                              | 20 | 150     | 150     | 105     | 205 | 27     | 140 | 29,2                       |
|                              | 25 | 160     | 160     | 105     | 205 | 27     | 140 | 39,5                       |
|                              | 32 | 180     | 180     | 115     | 228 | 35     | 180 | 74,7                       |
|                              | 40 | 240     | 240     | 115     | 228 | 35     | 180 | 95,3                       |