



## LESER Spring-loaded safety valve Type 1551 series 441 stainless steel high-lifting flange

High-luminosity spring retainer made of stainless steel.  
The set pressure must be specified when ordering.

### Characteristics

**Series:** 441  
**Type:** 1551  
**Norm:** ISO 4126-1  
**Model:** Spring-loaded  
**Construction type:** Angle Pattern  
**Housing material inlet side:** Stainless steel  
**Material quality inlet side:** 1.4408  
**Housing material outlet side:** Stainless steel  
**Material quality outlet side:** 1.4408  
**Connection inlet side:** Flange  
**Pressure rating inlet side:** PN40  
**Standard connection inlet side:** EN 1092-1  
**Connection outlet side:** Flange  
**Pressure rating outlet side:** PN16  
**Standard connection outlet side:** EN 1092-1  
**Flange finish:** Raised face  
**Blow-off characteristic:** High-lifting  
**Gastight valve:** Yes  
**Spring cap, closed:** Yes  
**Material spring bonnet:** Stainless steel  
**Material disc:** 1.4404  
**Seat material:** 1.4404

**Bellows seal:** No

**Spring material:** 1.4310

**Spindle material:** 1.4404

**Medium temperature:** -270 / 400 °C

### Application

- Gasses.
- Vapours (including steam).
- With large quantities, can also be used for liquids.

### Technical Information

- O-ring seal on valve.

### Approval

Available with type approval from:

- BV.
- DNV.
- ABS.
- Lloyds.
- RINA.
- EAK.

### Options

- Stainless steel bellows.

| Inlet<br>DN<br>[mm] | Inlet<br>PN | Outlet<br>DN<br>[mm] | Outlet<br>PN | d0<br>[mm] | A0<br>[mm <sup>2</sup> ] | Max. set<br>press.<br>[bar] | a<br>mm | b<br>mm | H<br>mm | Weight<br>[kg] |
|---------------------|-------------|----------------------|--------------|------------|--------------------------|-----------------------------|---------|---------|---------|----------------|
| 25                  | 40          | 40                   | 16           | 25         | 491                      | 40                          | 100     | 105     | 234     | 9              |
| 32                  | 40          | 50                   | 16           | 29         | 661                      | 40                          | 110     | 115     | 322     | 12             |
| 40                  | 40          | 65                   | 16           | 37         | 1075                     | 40                          | 115     | 140     | 363     | 16             |
| 50                  | 40          | 80                   | 16           | 46         | 1662                     | 33                          | 120     | 150     | 410     | 22             |
| 65                  | 40          | 100                  | 16           | 60         | 2827                     | 28                          | 140     | 170     | 529     | 32             |
| 80                  | 40          | 125                  | 16           | 74         | 4301                     | 13,6                        | 160     | 195     | 606     | 56             |
| 100                 | 40          | 150                  | 16           | 92         | 6648                     | 20                          | 180     | 220     | 663     | 75             |
| 125                 | 40          | 200                  | 16           | 98         | 7543                     | 17,7                        | 200     | 250     | 663     | 85             |
| 150                 | 40          | 250                  | 16           | 125        | 12272                    | 7                           | 225     | 285     | 735     | 131            |

| Press. range | Temperature range |
|--------------|-------------------|
| 0,1 - 40 bar | -270/+400 °C      |

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## Safety Valves | Spring loaded safety valves with flanged connection

| Nominal inner<br>diameter inlet side | Nominal inner<br>diameter outlet side | Adjustment range<br>bar | Valve bore<br>mm | Valve lifter | Sealing | Article  |
|--------------------------------------|---------------------------------------|-------------------------|------------------|--------------|---------|----------|
| DN25                                 | DN40                                  | 0.98 / 1.39             | 23               | Closed       | Metal   | 13478587 |
| DN25                                 | DN40                                  | 2.08 / 2.62             | 23               | Closed       | Metal   | 13478589 |
| DN25                                 | DN40                                  | 27.01 / 33              | 23               | Closed       | Metal   | 13478598 |
| DN25                                 | DN40                                  | 9.01 / 12               | 23               | Closed       | Metal   | 13478593 |
| DN25                                 | DN40                                  | 15.21 / 19.5            | 23               | Closed       | Metal   | 13478595 |
| DN25                                 | DN40                                  | 0.38 / 0.5              | 23               | Closed       | Metal   | 13478584 |
| DN25                                 | DN40                                  | 3.34 / 5.34             | 23               | Closed       | Metal   | 13478591 |
| DN25                                 | DN40                                  | 0.51 / 0.69             | 23               | Closed       | Metal   | 13478585 |
| DN25                                 | DN40                                  | 19.51 / 22.1            | 23               | Closed       | Metal   | 13478596 |
| DN25                                 | DN40                                  | 1.39 / 2.07             | 23               | Closed       | Metal   | 13478588 |
| DN25                                 | DN40                                  | 33.01 / 40              | 23               | Closed       | Metal   | 13478599 |
| DN25                                 | DN40                                  | 12.01 / 15.2            | 23               | Closed       | Metal   | 13478594 |
| DN25                                 | DN40                                  | 0.7 / 0.97              | 23               | Closed       | Metal   | 13478586 |
| DN25                                 | DN40                                  | 0.2 / 0.37              | 23               | Closed       | Metal   | 13478583 |
| DN25                                 | DN40                                  | 5.35 / 9                | 23               | Closed       | Metal   | 13478592 |
| DN25                                 | DN40                                  | 22.11 / 27              | 23               | Closed       | Metal   | 13478597 |
| DN25                                 | DN40                                  | 0.1 / 0.19              | 23               | Closed       | Metal   | 13478582 |
| DN25                                 | DN40                                  | 2.63 / 3.33             | 23               | Closed       | Metal   | 13478590 |
| DN32                                 | DN50                                  | 27.01 / 31.6            | 29               | Closed       | Metal   | 13478617 |
| DN32                                 | DN50                                  | 0.27 / 0.33             | 29               | Closed       | Metal   | 13478602 |
| DN32                                 | DN50                                  | 4.21 / 6.2              | 29               | Closed       | Metal   | 13478610 |
| DN32                                 | DN50                                  | 12.81 / 16.5            | 29               | Closed       | Metal   | 13478614 |
| DN32                                 | DN50                                  | 21.01 / 27              | 29               | Closed       | Metal   | 13478616 |
| DN32                                 | DN50                                  | 0.34 / 0.5              | 29               | Closed       | Metal   | 13478603 |
| DN32                                 | DN50                                  | 0.51 / 0.59             | 29               | Closed       | Metal   | 13478604 |
| DN32                                 | DN50                                  | 10.01 / 12.8            | 29               | Closed       | Metal   | 13478613 |
| DN32                                 | DN50                                  | 1.41 / 2.25             | 29               | Closed       | Metal   | 13478607 |
| DN32                                 | DN50                                  | 2.26 / 3                | 29               | Closed       | Metal   | 13478608 |
| DN32                                 | DN50                                  | 16.51 / 21              | 29               | Closed       | Metal   | 13478615 |
| DN32                                 | DN50                                  | 8.51 / 10               | 29               | Closed       | Metal   | 13478612 |
| DN32                                 | DN50                                  | 6.21 / 8.5              | 29               | Closed       | Metal   | 13478611 |
| DN32                                 | DN50                                  | 37.01 / 40              | 29               | Closed       | Metal   | 13478619 |
| DN32                                 | DN50                                  | 0.2 / 0.26              | 29               | Closed       | Metal   | 13478601 |
| DN32                                 | DN50                                  | 0.1 / 0.19              | 29               | Closed       | Metal   | 13478600 |
| DN32                                 | DN50                                  | 3.01 / 4.2              | 29               | Closed       | Metal   | 13478609 |
| DN32                                 | DN50                                  | 0.86 / 1.4              | 29               | Closed       | Metal   | 13478606 |
| DN32                                 | DN50                                  | 0.6 / 0.85              | 29               | Closed       | Metal   | 13478605 |
| DN32                                 | DN50                                  | 31.61 / 37              | 29               | Closed       | Metal   | 13478618 |
| DN40                                 | DN65                                  | 36.61 / 40              | 37               | Closed       | Metal   | 13478637 |
| DN40                                 | DN65                                  | 4.11 / 6.2              | 37               | Closed       | Metal   | 13478629 |
| DN40                                 | DN65                                  | 6.21 / 10               | 37               | Closed       | Metal   | 13478630 |
| DN40                                 | DN65                                  | 0.22 / 0.32             | 37               | Closed       | Metal   | 13478621 |
| DN40                                 | DN65                                  | 33.51 / 36.6            | 37               | Closed       | Metal   | 13478636 |
| DN40                                 | DN65                                  | 1.11 / 1.75             | 37               | Closed       | Metal   | 13478625 |
| DN40                                 | DN65                                  | 20.01 / 25.5            | 37               | Closed       | Metal   | 13478633 |
| DN40                                 | DN65                                  | 2.21 / 2.9              | 37               | Closed       | Metal   | 13478627 |
| DN40                                 | DN65                                  | 0.51 / 0.8              | 37               | Closed       | Metal   | 13478623 |
| DN40                                 | DN65                                  | 26.61 / 33.5            | 37               | Closed       | Metal   | 13478635 |
| DN40                                 | DN65                                  | 0.1 / 0.21              | 37               | Closed       | Metal   | 13478620 |
| DN40                                 | DN65                                  | 1.76 / 2.2              | 37               | Closed       | Metal   | 13478626 |
| DN40                                 | DN65                                  | 25.51 / 26.6            | 37               | Closed       | Metal   | 13478634 |
| DN40                                 | DN65                                  | 15.51 / 20              | 37               | Closed       | Metal   | 13478632 |

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## Safety Valves | Spring loaded safety valves with flanged connection

| Nominal inner<br>diameter inlet side | Nominal inner<br>diameter outlet side | Adjustment range<br>bar | Valve bore<br>mm | Valve lifter | Sealing | Article  |
|--------------------------------------|---------------------------------------|-------------------------|------------------|--------------|---------|----------|
| DN40                                 | DN65                                  | 0.81 / 1.1              | 37               | Closed       | Metal   | 13478624 |
| DN40                                 | DN65                                  | 10.01 / 15.5            | 37               | Closed       | Metal   | 13478631 |
| DN40                                 | DN65                                  | 2.91 / 4.1              | 37               | Closed       | Metal   | 13478628 |
| DN40                                 | DN65                                  | 0.33 / 0.5              | 37               | Closed       | Metal   | 13478622 |
| DN50                                 | DN80                                  | 0.51 / 0.8              | 46               | Closed       | Metal   | 13478640 |
| DN50                                 | DN80                                  | 14.51 / 19              | 46               | Closed       | Metal   | 13478649 |
| DN50                                 | DN80                                  | 5.81 / 8.6              | 46               | Closed       | Metal   | 13478646 |
| DN50                                 | DN80                                  | 10.71 / 14.5            | 46               | Closed       | Metal   | 13478648 |
| DN50                                 | DN80                                  | 26.51 / 33              | 46               | Closed       | Metal   | 13478652 |
| DN50                                 | DN80                                  | 2.61 / 3.9              | 46               | Closed       | Metal   | 13478644 |
| DN50                                 | DN80                                  | 21.51 / 26.5            | 46               | Closed       | Metal   | 13478651 |
| DN50                                 | DN80                                  | 1.81 / 2.6              | 46               | Closed       | Metal   | 13478643 |
| DN50                                 | DN80                                  | 3.91 / 5.8              | 46               | Closed       | Metal   | 13478645 |
| DN50                                 | DN80                                  | 8.61 / 10.7             | 46               | Closed       | Metal   | 13478647 |
| DN50                                 | DN80                                  | 0.81 / 1.2              | 46               | Closed       | Metal   | 13478641 |
| DN50                                 | DN80                                  | 0.23 / 0.5              | 46               | Closed       | Metal   | 13478639 |
| DN50                                 | DN80                                  | 19.01 / 21.5            | 46               | Closed       | Metal   | 13478650 |
| DN50                                 | DN80                                  | 1.21 / 1.8              | 46               | Closed       | Metal   | 13478642 |
| DN50                                 | DN80                                  | 0.13 / 0.22             | 46               | Closed       | Metal   | 13478638 |
| DN65                                 | DN100                                 | 0.9 / 1.49              | 60               | Closed       | Metal   | 13478657 |
| DN65                                 | DN100                                 | 5 / 9                   | 60               | Closed       | Metal   | 13478661 |
| DN65                                 | DN100                                 | 18.31 / 23.1            | 60               | Closed       | Metal   | 13478665 |
| DN65                                 | DN100                                 | 16.01 / 18.3            | 60               | Closed       | Metal   | 13478664 |
| DN65                                 | DN100                                 | 13.91 / 16              | 60               | Closed       | Metal   | 13478663 |
| DN65                                 | DN100                                 | 0.62 / 0.89             | 60               | Closed       | Metal   | 13478656 |
| DN65                                 | DN100                                 | 9.01 / 13.9             | 60               | Closed       | Metal   | 13478662 |
| DN65                                 | DN100                                 | 0.29 / 0.5              | 60               | Closed       | Metal   | 13478654 |
| DN65                                 | DN100                                 | 2.5 / 3.35              | 60               | Closed       | Metal   | 13478659 |
| DN65                                 | DN100                                 | 1.5 / 2.49              | 60               | Closed       | Metal   | 13478658 |
| DN65                                 | DN100                                 | 0.22 / 0.28             | 60               | Closed       | Metal   | 13478653 |
| DN65                                 | DN100                                 | 0.51 / 0.61             | 60               | Closed       | Metal   | 13478655 |
| DN65                                 | DN100                                 | 3.36 / 4.99             | 60               | Closed       | Metal   | 13478660 |
| DN65                                 | DN100                                 | 23.11 / 28              | 60               | Closed       | Metal   | 13478666 |
| DN80                                 | DN125                                 | 7.51 / 10.6             | 74               | Closed       | Metal   | 13478677 |
| DN80                                 | DN125                                 | 2.31 / 3.2              | 74               | Closed       | Metal   | 13478674 |
| DN80                                 | DN125                                 | 1.05 / 1.5              | 74               | Closed       | Metal   | 13478672 |
| DN80                                 | DN125                                 | 0.36 / 0.49             | 74               | Closed       | Metal   | 13478669 |
| DN80                                 | DN125                                 | 0.5 / 0.64              | 74               | Closed       | Metal   | 13478670 |
| DN80                                 | DN125                                 | 0.26 / 0.35             | 74               | Closed       | Metal   | 13478668 |
| DN80                                 | DN125                                 | 0.15 / 0.25             | 74               | Closed       | Metal   | 13478667 |
| DN80                                 | DN125                                 | 0.65 / 1.04             | 74               | Closed       | Metal   | 13478671 |
| DN80                                 | DN125                                 | 1.51 / 2.3              | 74               | Closed       | Metal   | 13478673 |
| DN80                                 | DN125                                 | 3.21 / 5.5              | 74               | Closed       | Metal   | 13478675 |
| DN80                                 | DN125                                 | 5.51 / 7.5              | 74               | Closed       | Metal   | 13478676 |
| DN80                                 | DN125                                 | 10.61 / 13.6            | 74               | Closed       | Metal   | 13478678 |
| DN100                                | DN150                                 | 10.41 / 16              | 92               | Closed       | Metal   | 13478690 |
| DN100                                | DN150                                 | 1.18 / 1.79             | 92               | Closed       | Metal   | 13478684 |
| DN100                                | DN150                                 | 0.1 / 0.21              | 92               | Closed       | Metal   | 13478679 |
| DN100                                | DN150                                 | 1.8 / 2.73              | 92               | Closed       | Metal   | 13478685 |
| DN100                                | DN150                                 | 16.01 / 20              | 92               | Closed       | Metal   | 13478691 |
| DN100                                | DN150                                 | 8.41 / 10.4             | 92               | Closed       | Metal   | 13478689 |
| DN100                                | DN150                                 | 5.94 / 8.4              | 92               | Closed       | Metal   | 13478688 |

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## Safety Valves | Spring loaded safety valves with flanged connection

| Nominal inner<br>diameter inlet side | Nominal inner<br>diameter outlet side | Adjustment range<br>bar | Valve bore<br>mm | Valve lifter | Sealing | Article  |
|--------------------------------------|---------------------------------------|-------------------------|------------------|--------------|---------|----------|
| DN100                                | DN150                                 | 0.5 / 0.76              | 92               | Closed       | Metal   | 13478682 |
| DN100                                | DN150                                 | 0.33 / 0.49             | 92               | Closed       | Metal   | 13478681 |
| DN100                                | DN150                                 | 0.22 / 0.32             | 92               | Closed       | Metal   | 13478680 |
| DN100                                | DN150                                 | 2.74 / 4.15             | 92               | Closed       | Metal   | 13478686 |
| DN100                                | DN150                                 | 4.16 / 5.93             | 92               | Closed       | Metal   | 13478687 |
| DN100                                | DN150                                 | 0.77 / 1.17             | 92               | Closed       | Metal   | 13478683 |
| DN125                                | DN200                                 | 10.41 / 15              | 98               | Closed       | Metal   | 13478705 |
| DN125                                | DN200                                 | 0.25 / 0.35             | 98               | Closed       | Metal   | 13478694 |
| DN125                                | DN200                                 | 0.68 / 0.9              | 98               | Closed       | Metal   | 13478697 |
| DN125                                | DN200                                 | 0.36 / 0.51             | 98               | Closed       | Metal   | 13478695 |
| DN125                                | DN200                                 | 7.51 / 10.4             | 98               | Closed       | Metal   | 13478704 |
| DN125                                | DN200                                 | 15.01 / 17.7            | 98               | Closed       | Metal   | 13478706 |
| DN125                                | DN200                                 | 0.1 / 0.19              | 98               | Closed       | Metal   | 13478692 |
| DN125                                | DN200                                 | 6.01 / 7.5              | 98               | Closed       | Metal   | 13478703 |
| DN125                                | DN200                                 | 1.41 / 2                | 98               | Closed       | Metal   | 13478699 |
| DN125                                | DN200                                 | 2.01 / 2.9              | 98               | Closed       | Metal   | 13478700 |
| DN125                                | DN200                                 | 0.91 / 1.4              | 98               | Closed       | Metal   | 13478698 |
| DN125                                | DN200                                 | 0.52 / 0.67             | 98               | Closed       | Metal   | 13478696 |
| DN125                                | DN200                                 | 0.2 / 0.24              | 98               | Closed       | Metal   | 13478693 |
| DN125                                | DN200                                 | 4.51 / 6                | 98               | Closed       | Metal   | 13478702 |
| DN125                                | DN200                                 | 2.91 / 4.5              | 98               | Closed       | Metal   | 13478701 |
| DN150                                | DN250                                 | 3.81 / 5.5              | 125              | Closed       | Metal   | 13478714 |
| DN150                                | DN250                                 | 1.81 / 2.6              | 125              | Closed       | Metal   | 13478712 |
| DN150                                | DN250                                 | 5.51 / 7                | 125              | Closed       | Metal   | 13478715 |
| DN150                                | DN250                                 | 0.5 / 0.69              | 125              | Closed       | Metal   | 13478708 |
| DN150                                | DN250                                 | 1.45 / 1.8              | 125              | Closed       | Metal   | 13478711 |
| DN150                                | DN250                                 | 2.61 / 3.8              | 125              | Closed       | Metal   | 13478713 |
| DN150                                | DN250                                 | 0.3 / 0.49              | 125              | Closed       | Metal   | 13478707 |
| DN150                                | DN250                                 | 1 / 1.44                | 125              | Closed       | Metal   | 13478710 |
| DN150                                | DN250                                 | 0.7 / 0.99              | 125              | Closed       | Metal   | 13478709 |

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