# Type 526

**Flanged Safety Relief Valves – spring loaded**

**Metric + US Units**

# Q

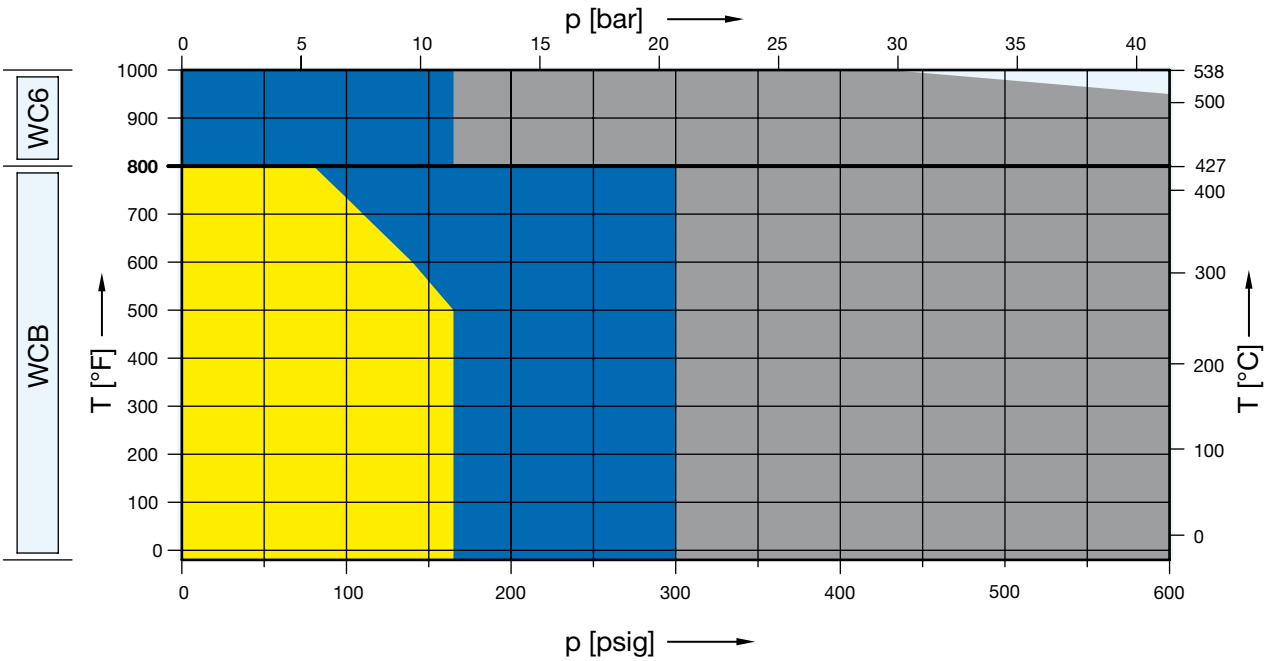
## Facts

LESER

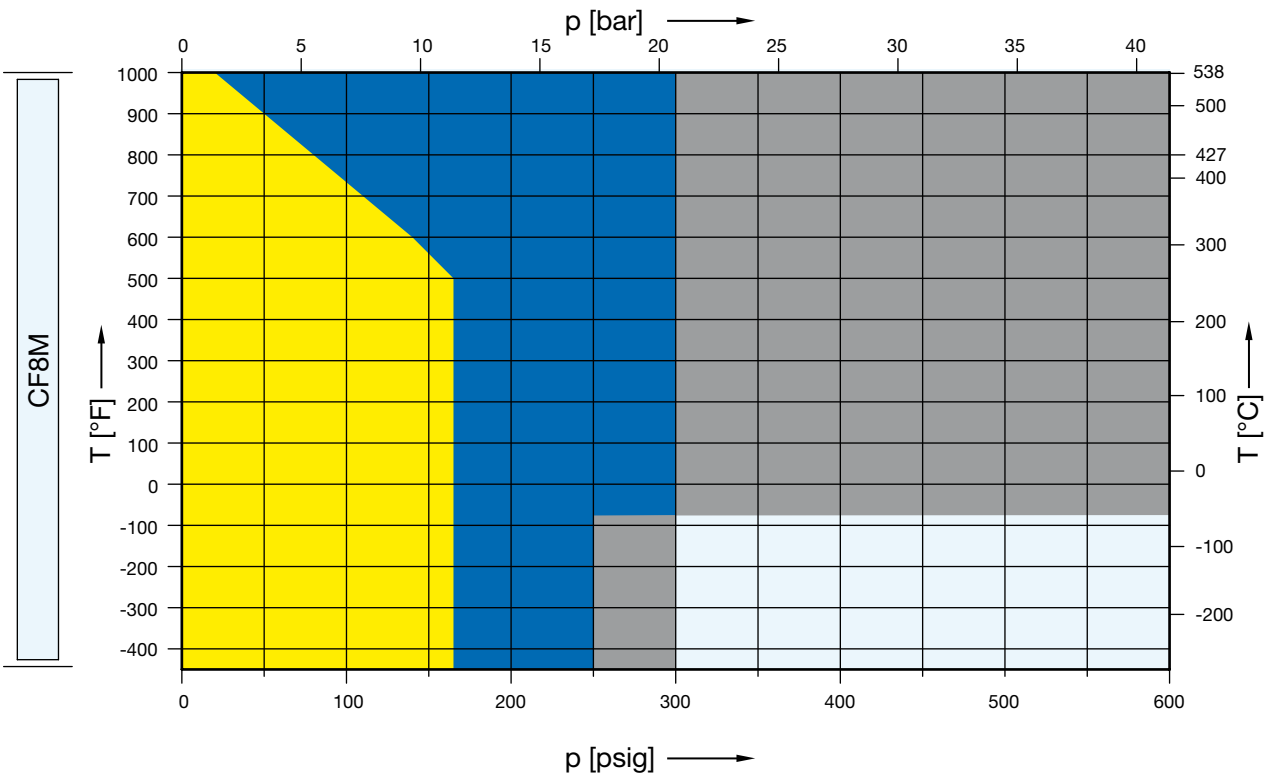
The-Safety-Valve.com

## Selection chart

| | 150 x 150 | 300L x 150 | 300 x 150 | 600 x 150 | 900 x 150 | 1500 x 150 | 2500 x 300 |
|---|---|---|---|---|---|---|---|
| WCB | 5262.657X | See 300 x 150 | 5262.658X | 5262.659X | – | – | – |
| WC6 | – | See 300 x 150 | 5267.660X | 5267.661X | – | – | – |




| | 150 x 150 | 300L x 150 | 300 x 150 | 600 x 150 | 900 x 150 | 1500 x 150 | 2500 x 300 |
|---|---|---|---|---|---|---|---|
| CF8M | 5264.662X | See 300 x 150 | 5264.663X | 5264.664X | – | – | – |

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# Article numbers, dimensions and weights

## Article numbers

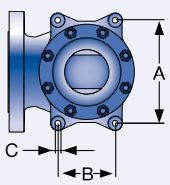
| | | | | | |
|---|---|---|---|---|---|
| Valve size | | 6 Q 8 | 6 Q 8 | 6 Q 8 | 6 Q 8 |
| Flange rating class Inlet x Outlet | | 150 x 150 | 300L x 150 | 300 x 150 | 600 x 150 |
| Actual Orifice diameter $d_0$ [mm] | | 105.5 | 105.5 | 105.5 | 105.5 |
| Actual Orifice area $A_0$ [mm²] | | 8742 | 8742 | 8742 | 8742 |
| **Body material** | | | | | |
| WCB 1.0619 | Art.-No. | **5262.657**¤ | Use 6 Q 8 300 x 150 | **5262.658**¤ | **5262.659**¤ |
| CF8M 1.4408 | Art.-No. | **5264.662**¤ | | **5264.663**¤ | **5264.664**¤ |
| WC6 1.7357 | Art.-No. | – | | **5267.660**¤ | **5267.661**¤ |
| LCB | Art.-No. | **5263.559**¤ | | **5263.560**¤ | **5263.561**¤ |

¤) Please add code for the required cap or lifting device. See below.

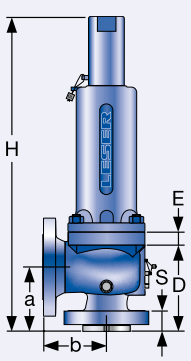
## Dimensions and weights

| | | | | | |
|---|---|---|---|---|---|
| **Metric Units** | | | | | |
| **Weight** [kg] | | 221 | | 221 | 221 |
| | with bellows | 230 | | 230 | 230 |
| **Center to face** [mm] | Inlet a | 240 | | 240 | 240 |
| | Outlet b | 241 | | 241 | 241 |
| | s | 68 | Use 6 Q 8 300 x 150 | 68 | 68 |
| **Height (H4)** [mm] | Standard H max. | 1120 | | 1120 | 1120 |
| | Bellows H max. | 1200 | | 1200 | 1200 |
| **Support brackets** [mm] | A | 370 | | 370 | 370 |
| | B | 210 | | 210 | 210 |
| | C | Ø 18 | | Ø 18 | Ø 18 |
| | D | 346 | | 346 | 346 |
| | E | 25 | | 25 | 25 |
| **US Units** | | | | | |
| **Weight** [lbs] | | 487,3 | | 487,3 | 487,3 |
| | with bellows | 507,2 | | 507,2 | 507,2 |
| **Center to face** [inch] | Inlet a | 9 7/16 | | 9 7/16 | 9 7/16 |
| | Outlet b | 9 1/2 | | 9 1/2 | 9 1/2 |
| | s | 2 11/16 | Use 6 Q 8 300 x 150 | 2 11/16 | 2 11/16 |
| **Height (H4)** [inch] | Standard H max. | 44 1/8 | | 44 1/8 | 44 1/8 |
| | Bellows H max. | 47 1/4 | | 47 1/4 | 47 1/4 |
| **Support brackets** [inch] | A | 14 9/16 | | 14 9/16 | 14 9/16 |
| | B | 8 9/32 | | 8 9/32 | 8 9/32 |
| | C | Ø 23/32 | | Ø 23/32 | Ø 23/32 |
| | D | 13 5/8 | | 13 5/8 | 13 5/8 |
| | E | 31/32 | | 31/32 | 31/32 |

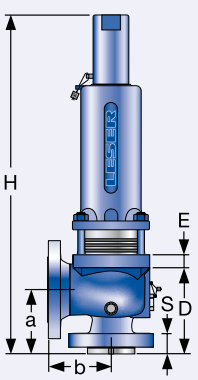
| ¤ Code for lifting device | | | | |
|---|---|---|---|---|
| Lifting device | **H2** | **H3** | **H4** | **H3** |
| Bonnet | closed | closed | closed | open |
| WCB 1.0619, WC6 1.7357, LCB | 2 | 3 | 4 | 5 |
| CF8M 1.4408 | 2 | – | 4 | – |



Support brackets



Conventional design



Balanced bellows design

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## Pressure temperature ratings

### Metric Units

| | | | | | |
|---|---|---|---|---|---|
| Valve size | | 6 Q 8 | 6 Q 8 | 6 Q 8 | 6 Q 8 |
| Flange rating class Inlet x Outlet | | 150 x 150 | 300L x 150 | 300 x 150 | 600 x 150 |
| Actual Orifice diameter $d_0$ [mm] | | 105.5 | 105.5 | 105.5 | 105.5 |
| Actual Orifice area $A_0$ [mm²] | | 8742 | 8742 | 8742 | 8742 |
| Minimum set pressure [bar] S/G/L | | 0.2 | 0.2 | 0.2 | 0.2 |
| Minimum set pressure [bar] S/G | | 1.3 | 1.3 | 1.3 | 1.3 |
| Balanced bellows Inconel [bar] L | | 2.3 | 2.3 | 2.3 | 2.3 |
| **Body material: WCB 1.0619** | | | **Pressure range p [bar] S/G/L** | | |
| **Maximum set pressure** | -29 to 38 °C | 11.4 | Use 6 Q 8 300 x 150 | 20.7 | 41.4 |
| | 39 to 232 °C | 11.4 | | 20.7 | 41.4 |
| | 233 to 427 °C | 5.5 | | 20.7 | 41.4 |
| **Outlet pressure limit** Conventional design | | 7.9 | | 7.9 | 7.9 |
| **Outlet pressure limit** Balanced bellows design | | 4.8 | | 7.9 | 7.9 |
| **Body material: CF8M 1.4408** | | | **Pressure range p [bar] S/G/L** | | |
| **Maximum set pressure** | -268 to -60 °C | 11.4 | Use 6 Q 8 300 x 150 | 17.2 | 20.7 |
| | -59 to -29 °C | 11.4 | | 20.7 | 41.4 |
| | -28 to 38 °C | 11.4 | | 20.7 | 41.4 |
| | 39 to 232 °C | 11.4 | | 20.7 | 41.4 |
| | 233 to 427 °C | 5.5 | | 20.7 | 41.4 |
| | 428 to 538 °C | 1.4 | | 20.7 | 41.4 |
| **Outlet pressure limit** Conventional design | | 7.9 | | 7.9 | 7.9 |
| **Outlet pressure limit** Balanced bellows design | | 4.8 | | 7.9 | 7.9 |
| **Body material: WC6 1.7357** | | | **Pressure range p [bar] S/G/L** | | |
| **Maximum set pressure** | 233 to 427 °C | – | Use 6 Q 8 300 x 150 | 11.4 | 41.4 |
| | 428 to 538 °C | – | | 11.4 | 29.7 |
| **Outlet pressure limit** Conventional design | | – | | 7.9 | 7.9 |
| **Outlet pressure limit** Balanced bellows design | | – | | 7.9 | 7.9 |
| **Body material: LCB** | | | **Pressure range p [bar] S/G/L** | | |
| **Maximum set pressure** | -46 to 38 °C | 11.4 | Use 6 Q 8 300 x 150 | 20.7 | 41.4 |
| | 39 to 200 °C | 11.4 | | 20.7 | 41.4 |
| | 201 to 343 °C | 8.4 | | 20.7 | 41.4 |
| **Outlet pressure limit** Conventional design | | 7.9 | | 7.9 | 7.9 |
| **Outlet pressure limit** Balanced bellows design | | 4.8 | | 7.9 | 7.9 |

Remark: SA 352 Gr. LCB is not listed in the API 526. Pressure-Temperature Rating acc. to ASME B16.34 Table 2-1.3
The stated Pressure-Temperature Rating are taken from ASME B16.34 Table 2-1.3 if the maximum pressure is not limited by API 526.

Due to the extended material test certificate the LESER LCB can be applied as LCC, WCB, WCC and 1.0619 with the respective pressure-temperature range as well.

## Pressure temperature ratings

### US Units

| | | | | | |
|---|---|---|---|---|---|
| Valve size | | 6 Q 8 | 6 Q 8 | 6 Q 8 | 6 Q 8 |
| Flange rating class Inlet x Outlet | | 150 x 150 | 300L x 150 | 300 x 150 | 600 x 150 |
| Actual Orifice diameter $d_0$ [inch] | | 4.15 | 4.15 | 4.15 | 4.15 |
| Actual Orifice area $A_0$ [inch$^2$] | | 13.55 | 13.55 | 13.55 | 13.55 |
| Minimum set pressure [psig] S/G/L | | 3.0 | 3.0 | 3.0 | 3.0 |
| Minimum set pressure [psig] S/G | | 18.8 | 18.8 | 18.8 | 18.8 |
| Balanced bellows Inconel [psig] L | | 33.4 | 33.4 | 33.4 | 33.4 |
| **Body material: WCB 1.0619** | | | **Pressure range p [psig] S/G/L** | | |
| **Maximum set pressure** | -20 to 100 °F | 165 | Use 6 Q 8 300 x 150 | 300 | 600 |
| | 101 to 450 °F | 165 | | 300 | 600 |
| | 451 to 800 °F | 80 | | 300 | 600 |
| **Outlet pressure limit** Conventional design | | 115 | | 115 | 115 |
| **Outlet pressure limit** Balanced bellows design | | 70 | | 115 | 115 |
| **Body material: CF8M 1.4408** | | | **Pressure range p [psig] S/G/L** | | |
| **Maximum set pressure** | -450 to -76 °F | 165 | Use 6 Q 8 300 x 150 | 250 | 300 |
| | -75 to -21 °F | 165 | | 300 | 600 |
| | -20 to 100 °F | 165 | | 300 | 600 |
| | 101 to 450 °F | 165 | | 300 | 600 |
| | 451 to 800 °F | 80 | | 300 | 600 |
| | 801 to 1000 °F | 20 | | 300 | 600 |
| **Outlet pressure limit** Conventional design | | 115 | | 115 | 115 |
| **Outlet pressure limit** Balanced bellows design | | 70 | | 115 | 115 |
| **Body material: WC6 1.7357** | | | **Pressure range p [psig] S/G/L** | | |
| **Maximum set pressure** | 451 to 800 °F | – | Use 6 Q 8 300 x 150 | 165 | 600 |
| | 801 to 1000 °F | – | | 165 | 430 |
| **Outlet pressure limit** Conventional design | | – | | 115 | 115 |
| **Outlet pressure limit** Balanced bellows design | | – | | 115 | 115 |
| **Body material: LCB** | | | **Pressure range p [psig] S/G/L** | | |
| **Maximum set pressure** | -50 to 100 °F | 165 | Use 6 Q 8 300 x 150 | 300 | 600 |
| | 101 to 400 °F | 165 | | 300 | 600 |
| | 401 to 650 °F | 125 | | 300 | 600 |
| **Outlet pressure limit** Conventional design | | 115 | | 115 | 115 |
| **Outlet pressure limit** Balanced bellows design | | 70 | | 115 | 115 |

Remark: SA 352 Gr. LCB is not listed in the API 526. Pressure-Temperature Rating acc. to ASME B16.34 Table 2-1.3
The stated Pressure-Temperature Rating are taken from ASME B16.34 Table 2-1.3 if the maximum pressure is not limited by API 526.

Due to the extended material test certificate the LESER LCB can be applied as LCC, WCB, WCC and 1.0619 with the respective pressure-temperature range as well.