



# Type 526

Flanged Safety Relief Valves  
– spring loaded

Metric + US Units

# P

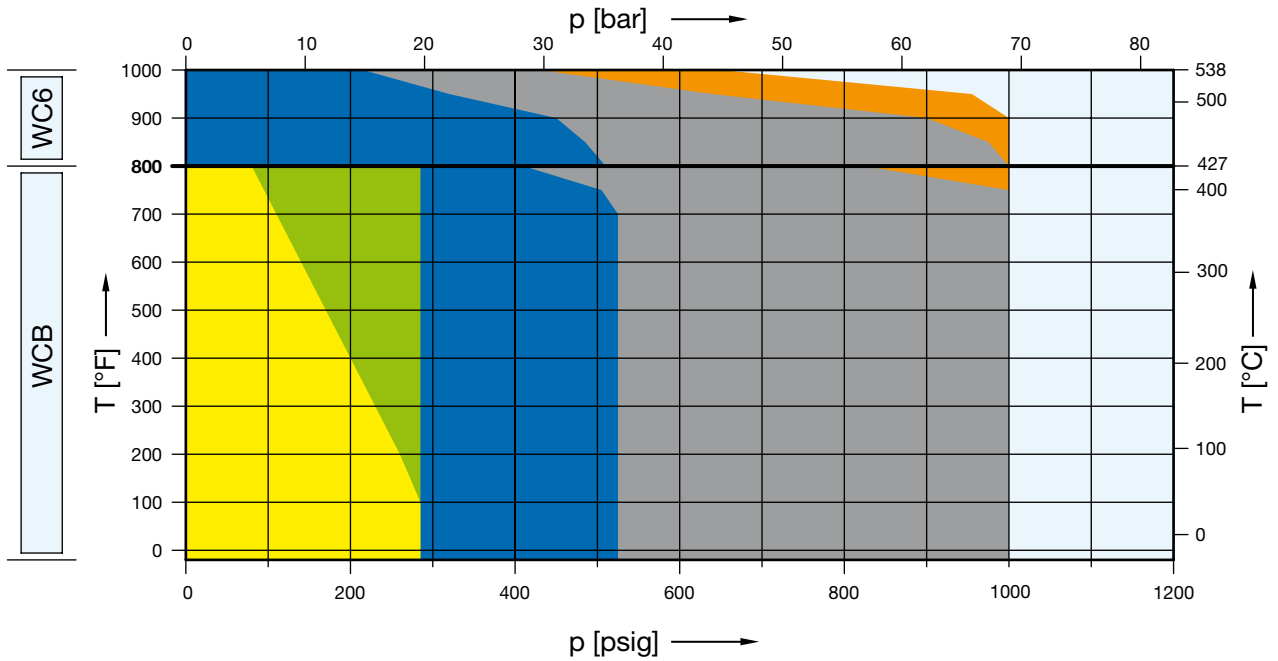
## Facts

**LESER**

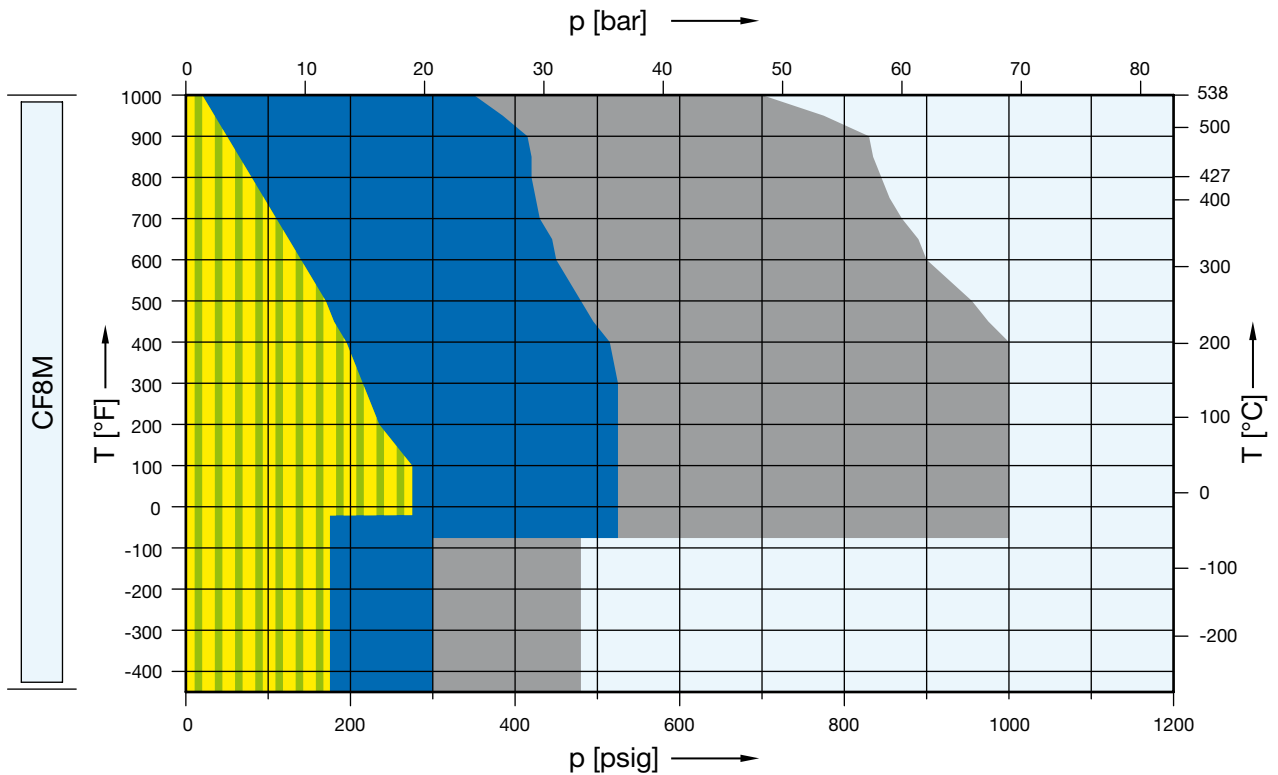
[The-Safety-Valve.com](http://The-Safety-Valve.com)

## Selection chart

	150 x 150	300L x 150	300 x 150	600 x 150	900 x 150	1500 x 150	2500 x 300
WCB	5262.645X	5262.646X	5262.647X	5262.648X	5262.649X	-	-
WC6	-	-	5267.650X	5267.651X	5267.652X	-	-



	150 x 150	300L x 150	300 x 150	600 x 150	900 x 150	1500 x 150	2500 x 300
CF8M	5264.653X	5264.654X	5264.655X	5264.656X	-	-	-



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## Article numbers, dimensions and weights

### Article numbers

Valve size	4 P 6	4 P 6	4 P 6	4 P 6	4 P 6
Flange rating class $d_{inlet} \times d_{outlet}$	150 x 150	300L x 150	300 x 150	600 x 150	900 x 150
Actual Orifice diameter $d_0$ [mm]	80.0	80.0	80.0	80.0	80.0
Actual Orifice area $A_0$ [mm <sup>2</sup> ]	5027	5027	5027	5027	5027
Body material					
WCB 1.0619	Art.-No. <b>5262.645<sup>□</sup></b>	<b>5262.646<sup>□</sup></b>	<b>5262.647<sup>□</sup></b>	<b>5262.648<sup>□</sup></b>	<b>5262.649<sup>□</sup></b>
CF8M 1.4408	Art.-No. <b>5264.653<sup>□</sup></b>	<b>5264.654<sup>□</sup></b>	<b>5264.655<sup>□</sup></b>	<b>5264.656<sup>□</sup></b>	-
WC6 1.7357	Art.-No. -	-	<b>5267.650<sup>□</sup></b>	<b>5267.651<sup>□</sup></b>	<b>5267.652<sup>□</sup></b>
LCB	Art.-No. <b>5263.554<sup>□</sup></b>	<b>5263.555<sup>□</sup></b>	<b>5263.556<sup>□</sup></b>	<b>5263.557<sup>□</sup></b>	<b>5263.558<sup>□</sup></b>

<sup>□</sup> Please add code for the required cap or lifting device. See below.

### Dimensions and weights

#### Metric Units

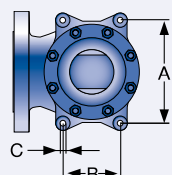
<b>Weight</b> [kg]		107.7	107.7	164	164	164
	with bellows	114.8	114.8	172	172	172
<b>Center to face</b> [mm]	Inlet a	181	181	225	225	225
	Outlet b	229	229	254	254	254
	s	48	48	62	62	62
<b>Height (H4)</b> [mm]	Standard H max.	855	855	1079	1079	1079
	Bellows H max.	888	888	1138	1138	1138
<b>Support brackets</b> [mm]	A	278	278	370	370	370
	B	160	160	210	210	210
	C	Ø 18	Ø 18	Ø 18	Ø 18	Ø 18
	D	262	262	306	306	306
	E	25	25	25	25	25

#### US Units

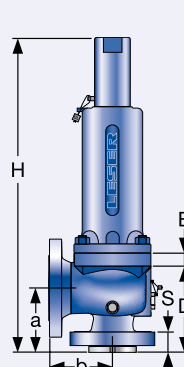
<b>Weight</b> [lbs]		237.5	237.5	361.6	361.6	361.6
	with bellows	253.1	253.1	379.3	379.3	379.3
<b>Center to face</b> [inch]	Inlet a	7 <sup>1</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>8</sub>	8 <sup>7</sup> / <sub>8</sub>	8 <sup>7</sup> / <sub>8</sub>	8 <sup>7</sup> / <sub>8</sub>
	Outlet b	9	9	10	10	10
	s	1 <sup>7</sup> / <sub>8</sub>	1 <sup>7</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>16</sub>	2 <sup>7</sup> / <sub>16</sub>	2 <sup>7</sup> / <sub>16</sub>
<b>Height (H4)</b> [inch]	Standard H max.	33 <sup>21</sup> / <sub>32</sub>	33 <sup>21</sup> / <sub>32</sub>	42 <sup>1</sup> / <sub>2</sub>	42 <sup>1</sup> / <sub>2</sub>	42 <sup>1</sup> / <sub>2</sub>
	Bellows H max.	34 <sup>31</sup> / <sub>32</sub>	34 <sup>31</sup> / <sub>32</sub>	44 <sup>13</sup> / <sub>16</sub>	44 <sup>13</sup> / <sub>16</sub>	44 <sup>13</sup> / <sub>16</sub>
<b>Support brackets</b> [inch]	A	10 <sup>15</sup> / <sub>16</sub>	10 <sup>15</sup> / <sub>16</sub>	14 <sup>9</sup> / <sub>16</sub>	14 <sup>9</sup> / <sub>16</sub>	14 <sup>9</sup> / <sub>16</sub>
	B	6 <sup>5</sup> / <sub>16</sub>	6 <sup>5</sup> / <sub>16</sub>	8 <sup>9</sup> / <sub>32</sub>	8 <sup>9</sup> / <sub>32</sub>	8 <sup>9</sup> / <sub>32</sub>
	C	Ø <sup>23</sup> / <sub>32</sub>	Ø <sup>23</sup> / <sub>32</sub>	Ø <sup>23</sup> / <sub>32</sub>	Ø <sup>23</sup> / <sub>32</sub>	Ø <sup>23</sup> / <sub>32</sub>
	D	10 <sup>5</sup> / <sub>16</sub>	10 <sup>5</sup> / <sub>16</sub>	12 <sup>1</sup> / <sub>16</sub>	12 <sup>1</sup> / <sub>16</sub>	12 <sup>1</sup> / <sub>16</sub>
	E	<sup>31</sup> / <sub>32</sub>	<sup>31</sup> / <sub>32</sub>	<sup>31</sup> / <sub>32</sub>	<sup>31</sup> / <sub>32</sub>	<sup>31</sup> / <sub>32</sub>

#### Code for lifting device

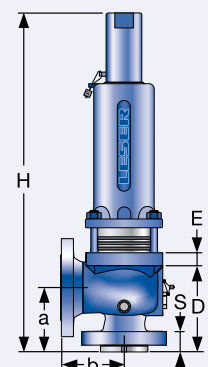
Lifting device	H2	H3	H4	H3
Bonnet	closed	closed	closed	open
WCB 1.0619, WC6 1.7357, LCB	2	3	4	5
CF8M 1.4408	2	-	4	-



Support brackets



Conventional design



Balanced bellows design

## Pressure temperature ratings

Metric Units						
Valve size		4 P 6	4 P 6	4 P 6	4 P 6	4 P 6
Flange rating class <small>Inlet x Outlet</small>		150 x 150	300L x 150	300 x 150	600 x 150	900 x 150
Actual Orifice diameter $d_0$ [mm]		80.0	80.0	80.0	80.0	80.0
Actual Orifice area $A_0$ [mm <sup>2</sup> ]		5027	5027	5027	5027	5027
Minimum set pressure [bar] S/G/L		0.12	0.12	0.25	0.25	0.25
Minimum set pressure [bar] S/G		2.3	2.3	2.3	2.3	2.3
Balanced bellows Inconel [bar] L		2.5	2.5	2.5	2.5	2.5
<b>Body material: WCB 1.0619</b>		<b>Pressure range p [bar] S/G/L</b>				
<b>Maximum set pressure</b>	-29 to 38 °C	19.7	19.7	36.2	69.0	69.0
	39 to 232 °C	12.8	19.7	36.2	69.0	69.0
	233 to 427 °C	5.5	19.7	28.3	56.9	69.0
<b>Outlet pressure limit</b> Conventional design		19.7	19.7	19.7	19.7	19.7
<b>Outlet pressure limit</b> Balanced bellows design		5.5	5.5	10.3	10.3	10.3
<b>Body material: CF8M 1.4408</b>		<b>Pressure range p [bar] S/G/L</b>				
<b>Maximum set pressure</b>	-268 to -60 °C	12.1	12.1	20.7	33.1	–
	-59 to -29 °C	19.0	19.0	36.2	69.0	–
	-28 to 38 °C	19.0	19.0	36.2	69.0	–
	39 to 232 °C	12.4	12.4	34.1	67.2	–
	233 to 427 °C	5.5	5.5	29.0	58.3	–
	428 to 538 °C	1.4	1.4	24.1	48.3	–
<b>Outlet pressure limit</b> Conventional design		19.0	19.0	19.0	19.0	–
<b>Outlet pressure limit</b> Balanced bellows design		5.5	5.5	10.3	10.3	–
<b>Body material: WC6 1.7357</b>		<b>Pressure range p [bar] S/G/L</b>				
<b>Maximum set pressure</b>	233 to 427 °C	–	–	35.2	69.0	69.0
	428 to 538 °C	–	–	14.8	29.7	44.8
<b>Outlet pressure limit</b> Conventional design		–	–	19.7	19.7	19.7
<b>Outlet pressure limit</b> Balanced bellows design		–	–	10.3	10.3	10.3
<b>Body material: LCB</b>		<b>Pressure range p [bar] S/G/L</b>				
<b>Maximum set pressure</b>	-46 to 38 °C	18.4	18.4	36.2	69.0	69.0
	39 to 200 °C	13.8	13.8	36.2	69.0	69.0
	201 to 343 °C	8.4	8.4	36.2	69.0	69.0
<b>Outlet pressure limit</b> Conventional design		18.4	18.4	18.4	18.4	18.4
<b>Outlet pressure limit</b> Balanced bellows design		5.5	5.5	10.3	10.3	10.3

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		4 P 6	4 P 6	4 P 6	4 P 6	4 P 6
Flange rating class <small>Inlet x Outlet</small>		150 x 150	300L x 150	300 x 150	600 x 150	900 x 150
Actual Orifice diameter $d_0$ [inch]		3.15	3.15	3.15	3.15	3.15
Actual Orifice area $A_0$ [inch <sup>2</sup> ]		7.79	7.79	7.79	7.79	7.79
Minimum set pressure [psig] S/G/L		2.0	2.0	4.0	4.0	4.0
Minimum set pressure [psig] S/G		33.4	33.4	33.4	33.4	33.4
Balanced bellows Inconel [psig] L		36.3	36.3	36.3	36.3	36.3
<b>Body material: WCB 1.0619</b>		<b>Pressure range p [psig] S/G/L</b>				
<b>Maximum set pressure</b>	-20 to 100 °F	285	285	525	1000	1000
	101 to 450 °F	185	285	525	1000	1000
	451 to 800 °F	80	285	410	825	1000
<b>Outlet pressure limit</b> Conventional design		285	285	285	285	285
<b>Outlet pressure limit</b> Balanced bellows design		80	80	150	150	150
<b>Body material: CF8M 1.4408</b>		<b>Pressure range p [psig] S/G/L</b>				
<b>Maximum set pressure</b>	-450 to -76 °F	175	175	300	480	-
	-75 to -21 °F	275	275	525	1000	-
	-20 to 100 °F	275	275	525	1000	-
	101 to 450 °F	180	180	495	975	-
	451 to 800 °F	80	80	420	845	-
	801 to 1000 °F	20	20	350	700	-
<b>Outlet pressure limit</b> Conventional design		275	275	275	275	-
<b>Outlet pressure limit</b> Balanced bellows design		80	80	150	150	-
<b>Body material: WC6 1.7357</b>		<b>Pressure range p [psig] S/G/L</b>				
<b>Maximum set pressure</b>	451 to 800 °F	-	-	510	1000	1000
	801 to 1000 °F	-	-	215	430	650
<b>Outlet pressure limit</b> Conventional design		-	-	285	285	285
<b>Outlet pressure limit</b> Balanced bellows design		-	-	150	150	150
<b>Body material: LCB</b>		<b>Pressure range p [psig] S/G/L</b>				
<b>Maximum set pressure</b>	-50 to 100 °F	265	265	525	1000	1000
	101 to 400 °F	200	200	525	1000	1000
	401 to 650 °F	125	125	525	1000	1000
<b>Outlet pressure limit</b> Conventional design		265	265	265	265	265
<b>Outlet pressure limit</b> Balanced bellows design		80	80	150	150	150

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.