Type 526

Flanged Safety Relief Valves – spring loaded

Metric + US Units

H

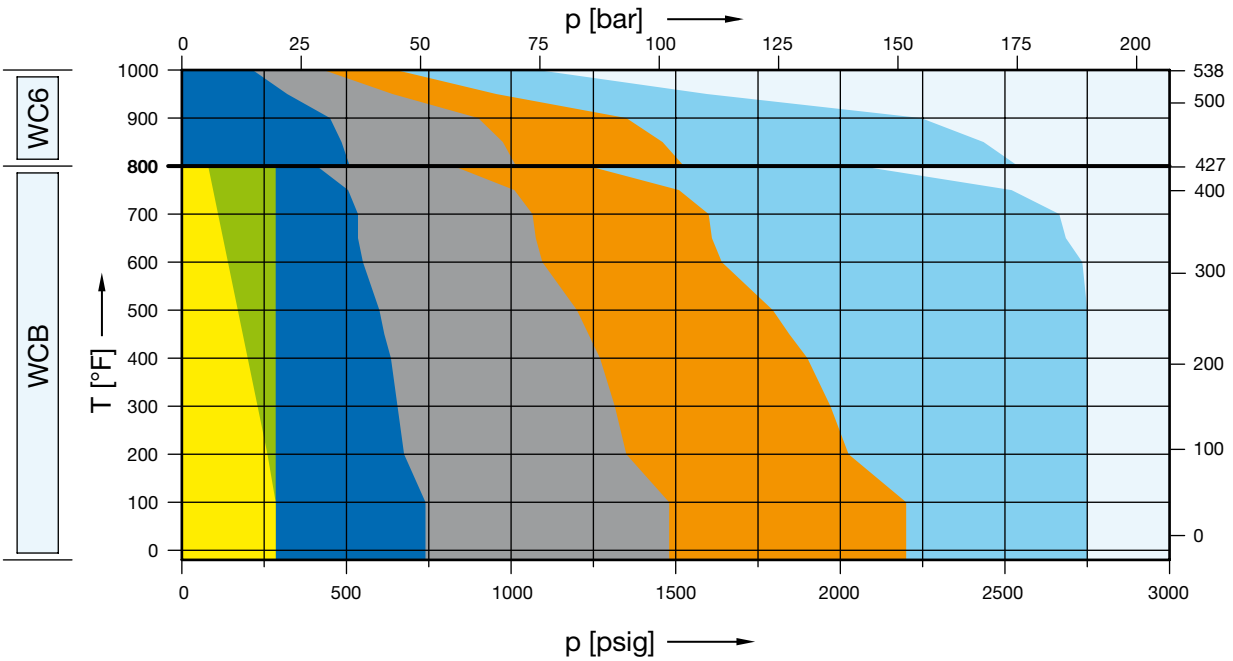
Facts

LESER

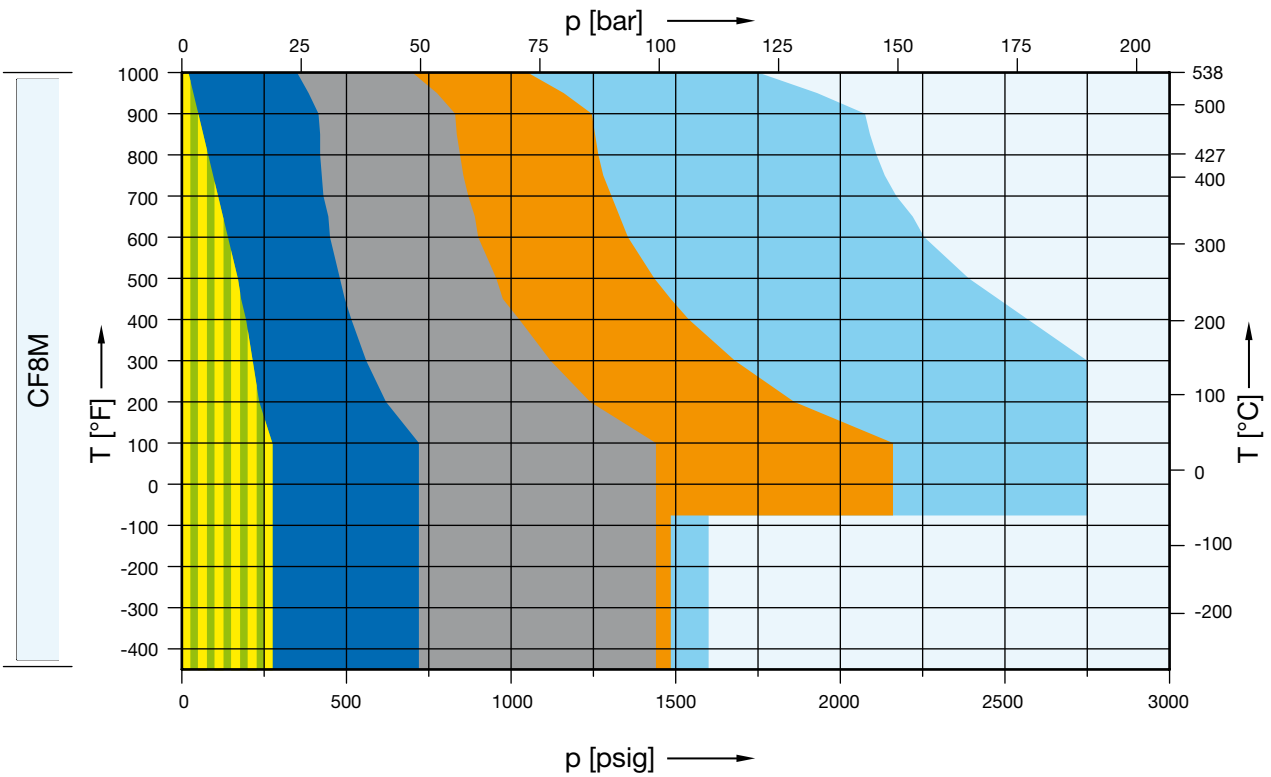
The-Safety-Valve.com

Selection chart

	150 x 150	300L x 150	300 x 150	600 x 150	900 x 150	1500 x 300	2500 x 300
WCB	5262.142X	5262.143X	5262.144X	5262.145X	5262.146X	5262.147X	–
WC6	–	–	5267.148X	5267.149X	5267.150X	5267.151X	–



	150 x 150	300L x 150	300 x 150	600 x 150	900 x 150	1500 x 300	2500 x 300
CF8M	5264.152X	5264.153X	5264.154X	5264.155X	5264.156X	5264.157X	–



Article numbers, dimensions and weights

Article numbers

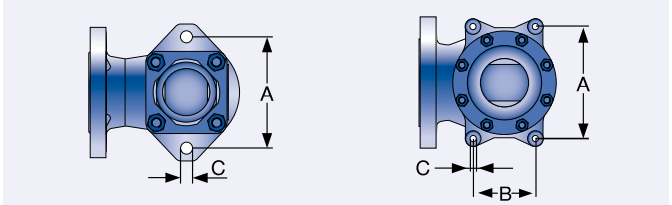
Valve size		1 1/2 H 3	1 1/2 H 3	2 H 3	2 H 3	2 H 3	2 H 3
Flange rating class Inlet x Outlet		150 x 150	300L x 150	300 x 150	600 x 150	900 x 150	1500 x 300
Actual Orifice diameter d_0 [mm]		28.3	28.3	28.3	28.3	28.3	28.3
Actual Orifice area A_0 [mm²]		629	629	629	629	629	629
Body material							
WCB 1.0619	Art.-No.	**5262.142¤**	**5262.143¤**	**5262.144¤**	**5262.145¤**	**5262.146¤**	**5262.147¤**
CF8M 1.4408	Art.-No.	**5264.152¤**	**5264.153¤**	**5264.154¤**	**5264.155¤**	**5264.156¤**	**5264.157¤**
WC6 1.7357	Art.-No.	–	–	**5267.148¤**	**5267.149¤**	**5267.150¤**	**5267.151¤**
LCB	Art.-No.	**5263.523¤**	**5263.524¤**	**5263.525¤**	**5263.526¤**	**5263.527¤**	**5263.528¤**

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

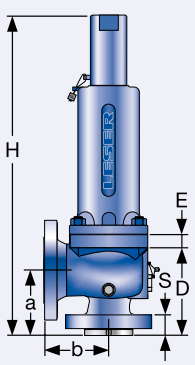
Dimensions and weights

Metric Units							
Weight [kg]		30.6	30.6	44.6	62.2	62.2	62.2
	with bellows	33.1	33.1	48.4	65.3	65.3	65.3
Center to face [mm]	Inlet a	130	130	130	154	154	154
	Outlet b	124	124	124	162	162	162
	s	38	38	43	56	56	56
Height (H4) [mm]	Standard H max.	542	542	666	691	691	691
	Bellows H max.	580	580	692	717	717	717
Support brackets [mm]	A	162	162	184	184	184	184
	B	–	–	110	110	110	110
	C	Ø 14	Ø 14	Ø 14	Ø 14	Ø 14	Ø 14
	D	155	155	177	202	202	202
	E	16	16	16	16	16	16
US Units							
Weight [lbs]		67.5	67.5	98.3	137.2	137.2	137.2
	with bellows	73	73	106.7	144	144	144
Center to face [inch]	Inlet a	5 1/8	5 1/8	5 1/8	6 1/16	6 1/16	6 1/16
	Outlet b	4 7/8	4 7/8	4 7/8	6 3/8	6 3/8	6 3/8
	s	1 1/2	1 1/2	1 1/16	2 3/16	2 3/16	2 3/16
Height (H4) [inch]	Standard H max.	21 11/32	21 11/32	26 7/32	27 7/32	27 7/32	27 7/32
	Bellows H max.	22 27/32	22 27/32	27 1/4	28 7/32	28 7/32	28 7/32
Support brackets [inch]	A	6 3/8	6 3/8	7 1/4	7 1/4	7 1/4	7 1/4
	B	–	–	4 11/32	4 11/32	4 11/32	4 11/32
	C	Ø 9/16	Ø 9/16	Ø 9/16	Ø 9/16	Ø 9/16	Ø 9/16
	D	6 3/32	6 3/32	6 31/32	7 15/16	7 15/16	7 15/16
	E	5/8	5/8	5/8	5/8	5/8	5/8

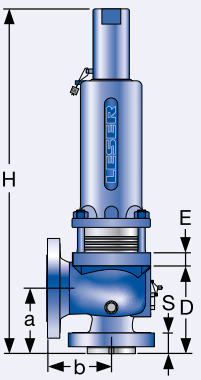
¤ Code for lifting device				
Lifting device	**H2**	**H3**	**H4**	**H3**
Bonnet	closed	closed	closed	open
WCB 1.0619, WC6 1.7357, LCB	2	3	4	5
CF8M 1.4408	2	–	4	–



Support brackets



Conventional design



Balanced bellows design

H

Pressure temperature ratings

Metric Units

Valve size		1 1/2 H 3	1 1/2 H 3	2 H 3	2 H 3	2 H 3	2 H 3
Flange rating class Inlet x Outlet		150 x 150	300L x 150	300 x 150	600 x 150	900 x 150	1500 x 300
Actual Orifice diameter d_0 [mm]		28.3	28.3	28.3	28.3	28.3	28.3
Actual Orifice area A_0 [mm²]		625	625	625	625	625	625
Minimum set pressure [bar] S/G/L		0.2	0.2	0.3	0.3	0.3	0.3
Minimum set pressure [bar] S/G		3.2	3.2	6.5	6.5	6.5	6.5
Balanced bellows Inconel [bar] L		3.2	3.2	12.0	12.0	12.0	12.0
Body material: WCB 1.0619		**Pressure range p [bar] S/G/L**					
Maximum set pressure	-29 to 38 °C	19.7	19.7	51.0	102.1	153.1	189.7
	39 to 232 °C	12.8	19.7	42.4	85.2	127.2	189.7
	233 to 427 °C	5.5	19.7	28.3	56.9	85.2	142.1
Outlet pressure limit Conventional design		19.7	19.7	19.7	19.7	19.7	51.0
Outlet pressure limit Balanced bellows design		15.9	15.9	15.9	15.9	15.9	28.6
Body material: CF8M 1.4408		**Pressure range p [bar] S/G/L**					
Maximum set pressure	-268 to -60 °C	19.0	19.0	49.7	99.3	102.4	110.3
	-59 to -29 °C	19.0	19.0	49.7	99.3	149.0	189.7
	-28 to 38 °C	19.0	19.0	49.7	99.3	149.0	189.7
	39 to 232 °C	12.4	12.4	34.1	67.2	102.4	171.0
	233 to 427 °C	5.5	5.5	29.0	58.3	87.2	145.5
	428 to 538 °C	1.4	1.4	24.1	48.3	72.4	120.7
Outlet pressure limit Conventional design		19.0	19.0	19.0	19.0	41.4	41.4
Outlet pressure limit Balanced bellows design		15.9	15.9	15.9	15.9	15.9	28.6
Body material: WC6 1.7357		**Pressure range p [bar] S/G/L**					
Maximum set pressure	233 to 427 °C	–	–	35.2	70.0	105.2	175.2
	428 to 538 °C	–	–	14.8	29.7	44.8	74.5
Outlet pressure limit Conventional design		–	–	19.7	19.7	19.7	51.0
Outlet pressure limit Balanced bellows design		–	–	15.9	15.9	15.9	28.6
Body material: LCB		**Pressure range p [bar] S/G/L**					
Maximum set pressure	-46 to 38 °C	18.4	18.4	48.0	96.0	144.1	189.7
	39 to 200 °C	13.8	13.8	42.5	85.1	127.6	189.7
	201 to 343 °C	8.4	8.4	36.4	72.8	109.2	182.0
Outlet pressure limit Conventional design		18.4	18.4	18.4	18.4	18.4	48.0
Outlet pressure limit Balanced bellows design		15.9	15.9	15.9	15.9	15.9	28.6

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		1 1/2 H 3	1 1/2 H 3	2 H 3	2 H 3	2 H 3	2 H 3
Flange rating class Inlet x Outlet		150 x 150	300L x 150	300 x 150	600 x 150	900 x 150	1500 x 300
Actual Orifice diameter d_0 [inch]		1.11	1.11	1.11	1.11	1.11	1.11
Actual Orifice area A_0 [inch^2]		0.975	0.975	0.975	0.975	0.975	0.975
Minimum set pressure [psig] S/G/L		3.0	3.0	4.0	4.0	4.0	4.0
Minimum set pressure [psig] S/G		46.4	46.4	94.3	94.3	94.3	94.3
Balanced bellows Inconel [psig] L		46.4	46.4	174.0	174.0	174.0	174.0
Body material: WCB 1.0619		**Pressure range p [psig] S/G/L**					
Maximum set pressure	-20 to 100 °F	285	285	740	1480	2220	2750
	101 to 450 °F	185	285	615	1235	1845	2750
	451 to 800 °F	80	285	410	825	1235	2060
Outlet pressure limit Conventional design		285	285	285	285	285	740
Outlet pressure limit Balanced bellows design		230	230	230	230	230	415
Body material: CF8M 1.4408		**Pressure range p [psig] S/G/L**					
Maximum set pressure	-450 to -76 °F	275	275	720	1440	1485	1600
	-75 to -21 °F	275	275	720	1440	2160	2750
	-20 to 100 °F	275	275	720	1440	2160	2750
	101 to 450 °F	180	180	495	975	1485	2480
	451 to 800 °F	80	80	420	845	1265	2110
	801 to 1000 °F	20	20	350	700	1050	1750
Outlet pressure limit Conventional design		275	275	275	275	600	600
Outlet pressure limit Balanced bellows design		230	230	230	230	230	415
Body material: WC6 1.7357		**Pressure range p [psig] S/G/L**					
Maximum set pressure	451 to 800 °F	–	–	510	1015	1525	2540
	801 to 1000 °F	–	–	215	430	650	1080
Outlet pressure limit Conventional design		–	–	285	285	285	740
Outlet pressure limit Balanced bellows design		–	–	230	230	230	415
Body material: LCB		**Pressure range p [psig] S/G/L**					
Maximum set pressure	-50 to 100 °F	265	265	695	1395	2090	2750
	101 to 400 °F	200	200	615	1230	1845	2750
	401 to 650 °F	125	125	535	1065	1600	2665
Outlet pressure limit Conventional design		265	265	265	265	265	695
Outlet pressure limit Balanced bellows design		230	230	230	230	230	415

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.