Type 526

Flanged Safety Relief Valves – spring loaded

Metric + US Units

F

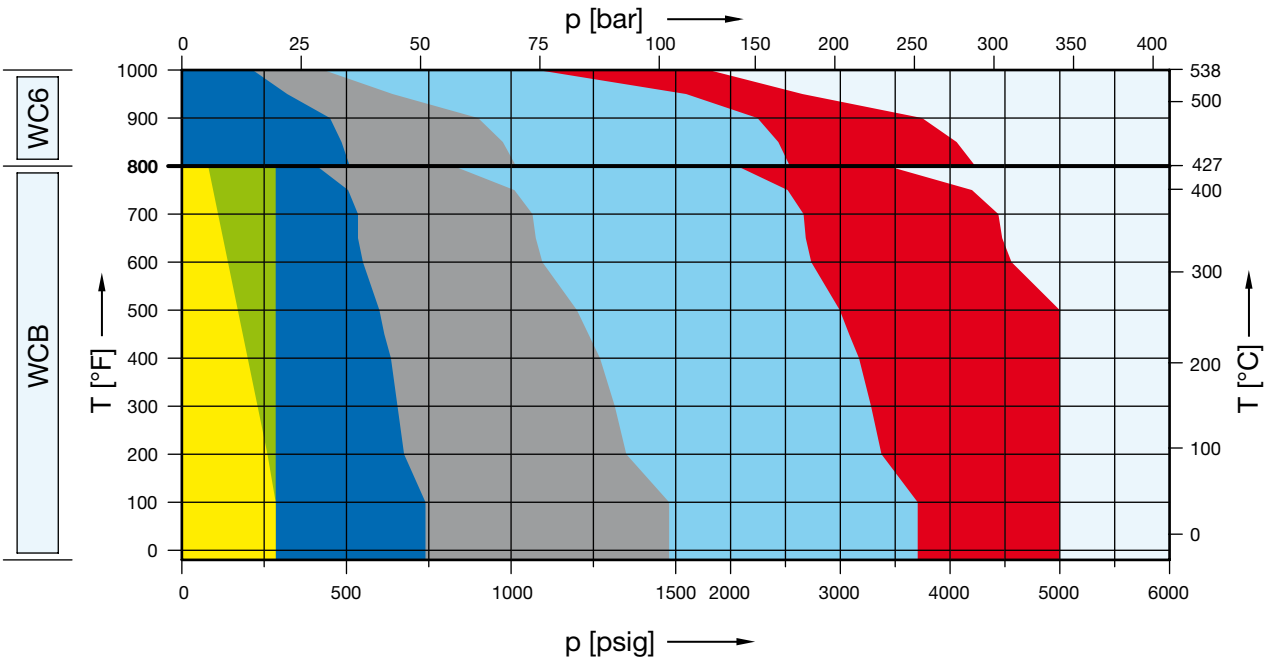
Facts

LESER

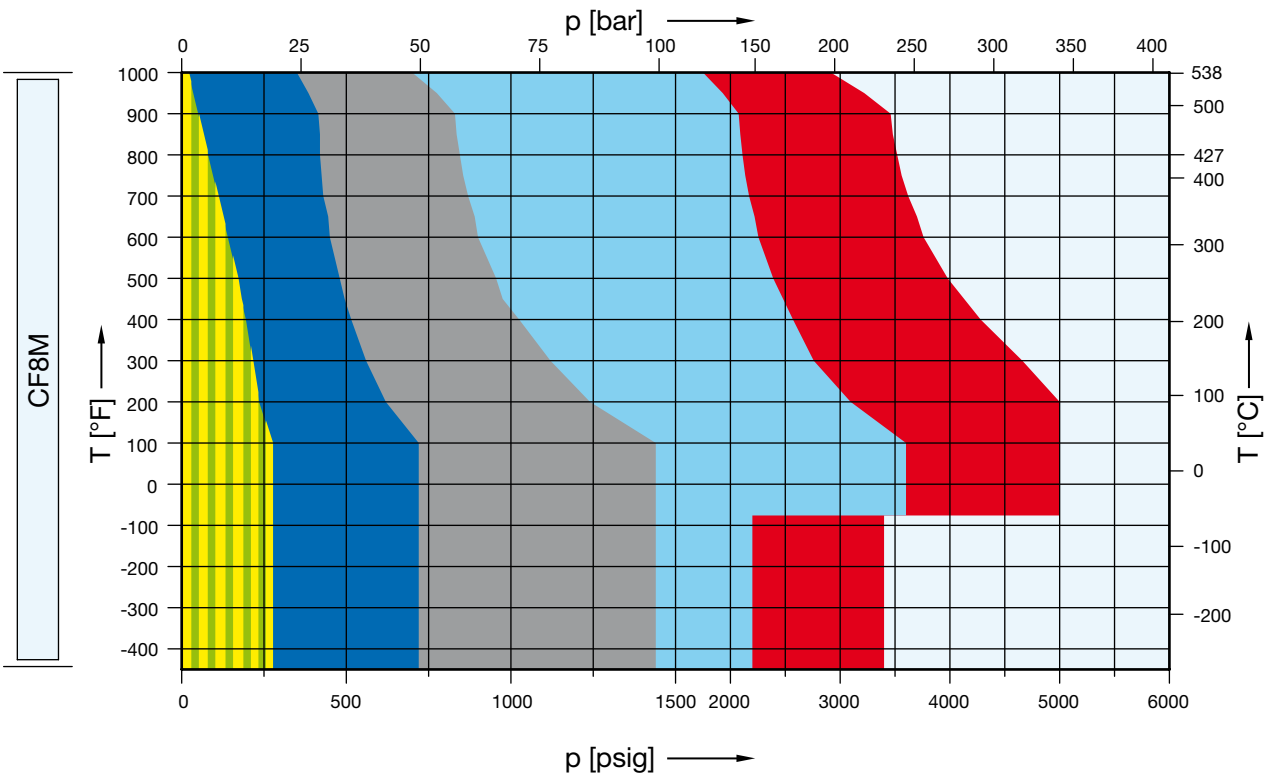
The-Safety-Valve.com

Selection chart

	150 x 150	300L x 150	300 x 150	600 x 150	900 x 300	1500 x 300	2500 x 300
WCB	5262.029X	5262.030X	5262.031X	5262.032X	See 1500 x 300	5262.033X	5262.034X
WC6	–	–	5267.035X	5267.036X	See 1500 x 300	5267.037X	5267.038X



	150 x 150	300L x 150	300 x 150	600 x 150	900 x 300	1500 x 300	2500 x 300
CF8M	5264.039X	5264.040X	5264.041X	5264.042X	See 1500 x 300	5264.043X	5264.044X



Article numbers, dimensions and weights

Article numbers

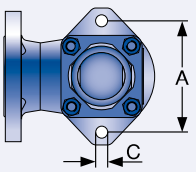
Valve size		1 1/2 F 2	1 1/2 F 2	1 1/2 F 2	1 1/2 F 2	1 1/2 F 3	1 1/2 F 3	1 1/2 F 3
Flange rating class Inlet x Outlet		150 x 150	300L x 150	300 x 150	600 x 150	900 x 300	1500 x 300	2500 x 300
Actual Orifice diameter d_0 [mm]		18.0	18.0	18.0	18.0	18.0	18.0	18.0
Actual Orifice area A_0 [mm²]		254	254	254	254	254	254	254
Body material								
WCB 1.0619	Art.-No.	**5262.029**¤	**5262.030**¤	**5262.031**¤	**5262.032**¤	Use 1 1/2 F 3 1500 x 300	**5262.033**¤	**5262.034**¤
CF8M 1.4408	Art.-No.	**5264.039**¤	**5264.040**¤	**5264.041**¤	**5264.042**¤		**5264.043**¤	**5264.044**¤
WC6 1.7357	Art.-No.	–	–	**5267.035**¤	**5267.036**¤		**5267.037**¤	**5267.038**¤
LCB	Art.-No.	**5263.510**¤	**5263.511**¤	**5263.512**¤	**5263.513**¤		**5263.514**¤	**5263.515**¤

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

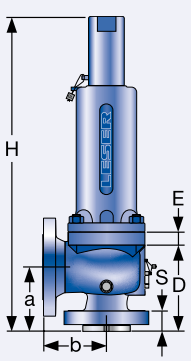
Dimensions and weights

Metric Units								
Weight [kg]		30.6	30.6	32.5	32.5	Use 1 1/2 F 3 1500 x 300	36.3	41.8
	with bellows	33.1	33.1	35	35		38.6	44.6
Center to face [mm]	Inlet a	124	124	124	124		124	140
	Outlet b	121	121	152	152		165	178
	s	32	32	35	35		44	57
Height (H4) [mm]	Standard H max.	536	536	536	536		560	576
	Bellows H max.	561	561	561	561		560	576
Support brackets [mm]	A	162	162	162	162		162	162
	B	–	–	–	–		–	–
	C	Ø 14		Ø 14	Ø 14		Ø 14	Ø 14
	D	148	148	148	148		174	189
	E	16	16	16	16		16	16
US Units								
Weight [lbs]		67.5	67.5	71.1	71.1	Use 1 1/2 F 3 1500 x 300	80	92.2
	with bellows	73	73	77.2	77.2		85.1	98.4
Center to face [inch]	Inlet a	4 7/8	4 7/8	4 7/8	4 7/8		4 7/8	5 1/2
	Outlet b	4 3/4	4 3/4	6	6		6 1/2	7
	s	1 1/4	1 1/4	1 13/32	1 13/32		1 3/4	2 1/4
Height (H4) [inch]	Standard H max.	21 3/32	21 3/32	21 3/32	21 3/32		22 1/16	22 11/16
	Bellows H max.	22 3/32	22 3/32	22 3/32	22 3/32		22 1/16	22 11/16
Support brackets [inch]	A	6 3/8	6 3/8	6 3/8	6 3/8		6 3/8	6 3/8
	B	–	–	–	–		–	–
	C	Ø 9/16	Ø 9/16	Ø 9/16	Ø 9/16		Ø 9/16	Ø 9/16
	D	5 27/32	5 27/32	5 27/32	5 27/32		6 27/32	6 27/32
	E	5/8	5/8	5/8	5/8		5/8	5/8

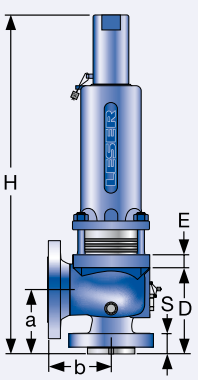
¤ Code for lifting device				
Lifting device	**H2**	**H3**	**H4**	**H3**
Bonnet	closed	closed	closed	open
WCB 1.0619, WC6 1.7357, LCB	2	3	4	5
CF8M 1.4408	2	–	4	–



Support brackets



Conventional design



Balanced bellows design

Pressure temperature ratings

Metric Units

Valve size		1 1/2 F 2	1 1/2 F 2	1 1/2 F 2	1 1/2 F 2	1 1/2 F 3	1 1/2 F 3	1 1/2 F 3
Flange rating class Inlet x Outlet		150 x 150	300L x 150	300 x 150	600 x 150	900 x 300	1500 x 300	2500 x 300
Actual Orifice diameter d_0 [mm]		18.0	18.0	18.0	18.0	18.0	18.0	18.0
Actual Orifice area A_0 [mm²]		254	254	254	254	254	254	254
Minimum set pressure [bar] S/G/L		0.3	0.3	0.3	0.3	0.3	0.3	0.3
Minimum set pressure [bar] S/G		1.7	1.7	1.7	12.0	12.0	12.0	13.5
Balanced bellows Inconel [bar] L		2.5	2.5	2.5	8.2	8.2	8.2	8.2
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	Use 1 1/2 F 3 1500 x 300	255.5	344.8
	39 to 232 °C	12.8	19.7	42.4	85.2		212.4	344.8
	233 to 427 °C	5.5	19.7	28.3	56.9		142.1	236.6
Outlet pressure limit Conventional design		19.7	19.7	19.7	19.7		51.0	51.0
Outlet pressure limit Balanced bellows design		15.9	15.9	15.9	15.9		34.5	34.5
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	Use 1 1/2 F 3 1500 x 300	151.7	234.5
	-59 to -29 °C	19.0	19.0	49.7	99.3		248.3	344.8
	-28 to 38 °C	19.0	19.0	49.7	99.3		248.3	344.8
	39 to 232 °C	12.4	12.4	34.1	67.2		171.0	284.8
	233 to 427 °C	5.5	5.5	29.0	58.3		145.5	242.8
	428 to 538 °C	1.4	1.4	24.1	48.3		120.7	201.0
Outlet pressure limit Conventional design		19.0	19.0	19.0	19.0		41.4	49.7
Outlet pressure limit Balanced bellows design		15.9	15.9	15.9	15.9		34.5	34.5
Body material: WC6 1.7357		**Pressure range p [bar] S/G/L**						
Maximum set pressure	233 to 427 °C	–	–	35.2	70.0	Use 1 1/2 F 3 1500 x 300	175.2	291.7
	428 to 538 °C	–	–	14.8	29.7		74.5	124.1
Outlet pressure limit Conventional design		–	–	19.7	19.7		51.0	51.0
Outlet pressure limit Balanced bellows design		–	–	15.9	15.9		34.5	34.5
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	Use 1 1/2 F 3 1500 x 300	240.1	344.8
	39 to 200 °C	13.8	13.8	42.5	85.1		212.7	344.8
	201 to 343 °C	8.4	8.4	36.4	72.8		182.0	303.3
Outlet pressure limit Conventional design		18.4	18.4	18.4	18.4		48.0	48.0
Outlet pressure limit Balanced bellows design		15.9	15.9	15.9	15.9		34.5	34.5

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 F 2	1 1/2 F 2	1 1/2 F 2	1 1/2 F 2	1 1/2 F 3	1 1/2 F 3	1 1/2 F 3
Flange rating class Inlet x Outlet		150 x 150	300L x 150	300 x 150	600 x 150	900 x 300	1500 x 300	2500 x 300
Actual Orifice diameter d_0 [inch]		0.709	0.709	0.709	0.709	0.709	0.709	0.709
Actual Orifice area A_0 [inch^2]		0.394	0.394	0.394	0.394	0.394	0.394	0.394
Minimum set pressure [psig] S/G/L		4.0	4.0	4.0	4.0	4.0	4.0	4.0
Minimum set pressure [psig] S/G		24.6	24.6	24.6	174.0	174.0	174.0	159.0
Balanced bellows Inconel [psig] L		36.3	36.3	36.3	118.9	118.9	118.9	118.9
Body material: WCB 1.0619		**Pressure range p [psig] S/G/L**						
Maximum set pressure	-20 to 100 °F	285	285	740	1480	Use 1 1/2 F 3 1500 x 300	3705	5000
	101 to 450 °F	185	285	615	1235		3080	5000
	451 to 800 °F	80	285	410	825		2060	3430
Outlet pressure limit Conventional design		285	285	285	285		740	740
Outlet pressure limit Balanced bellows design		230	230	230	230		500	500
Body material: CF8M 1.4408		**Pressure range p [psig] S/G/L**						
Maximum set pressure	-450 to -76 °F	275	275	720	1440	Use 1 1/2 F 3 1500 x 300	2200	3400
	-75 to -21 °F	275	275	720	1440		3600	5000
	-20 to 100 °F	275	275	720	1440		3600	5000
	101 to 450 °F	180	180	495	975		2480	4130
	451 to 800 °F	80	80	420	845		2110	3520
	801 to 1000 °F	20	20	350	700		1750	2915
Outlet pressure limit Conventional design		275	275	275	275		600	720
Outlet pressure limit Balanced bellows design		230	230	230	230		500	500
Body material: WC6 1.7357		**Pressure range p [psig] S/G/L**						
Maximum set pressure	451 to 800 °F	–	–	510	1015	Use 1 1/2 F 3 1500 x 300	2540	4230
	801 to 1000 °F	–	–	215	430		1080	1800
Outlet pressure limit Conventional design		–	–	285	285		740	740
Outlet pressure limit Balanced bellows design		–	–	230	230		500	500
Body material: LCB								
Maximum set pressure	-50 to 100 °F	265	265	695	1395	Use 1 1/2 F 3 1500 x 300	3480	5000
	101 to 400 °F	200	200	615	1230		3075	5000
	401 to 650 °F	125	125	535	1065		2665	4440
Outlet pressure limit Conventional design		265	265	265	265		695	695
Outlet pressure limit Balanced bellows design		230	230	230	230		500	500

Remark: SA 352 Gr. LCB is not listed in the API 526. Pressure-Temperature Rating acc. to ASME B16.34 Table 2-1.3
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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.