

Type 526

Flanged Safety Relief Valves
– spring loaded
Metric + US Units

E

Facts

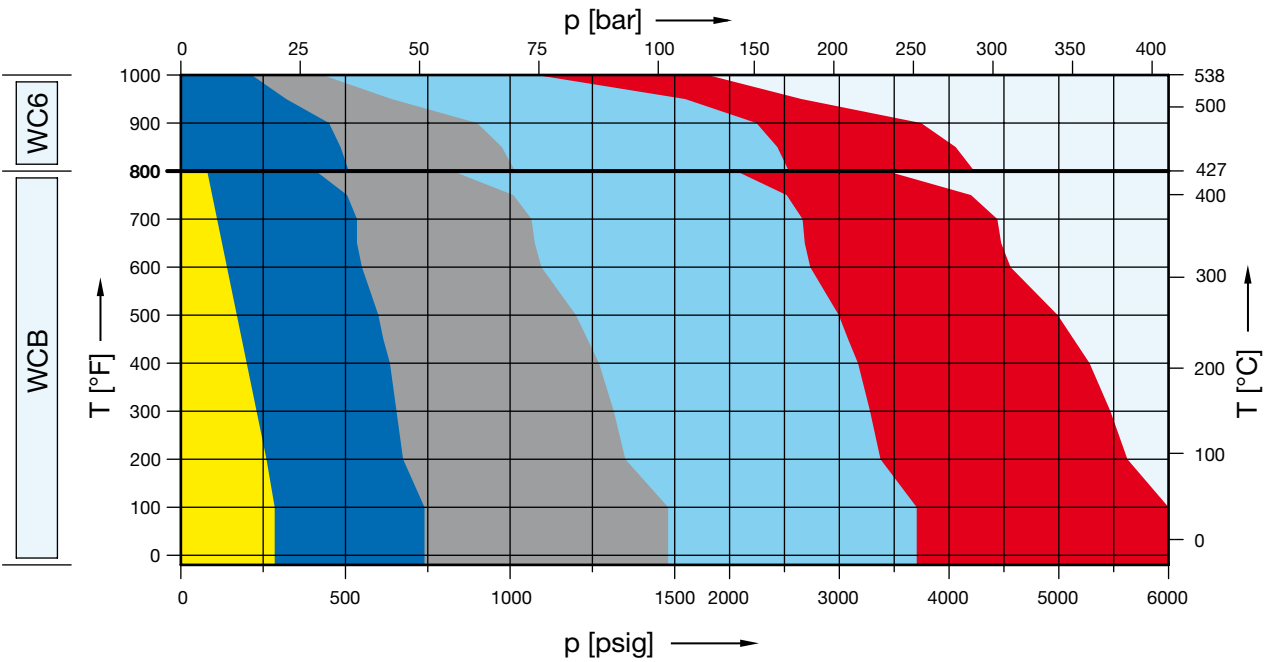


LESER

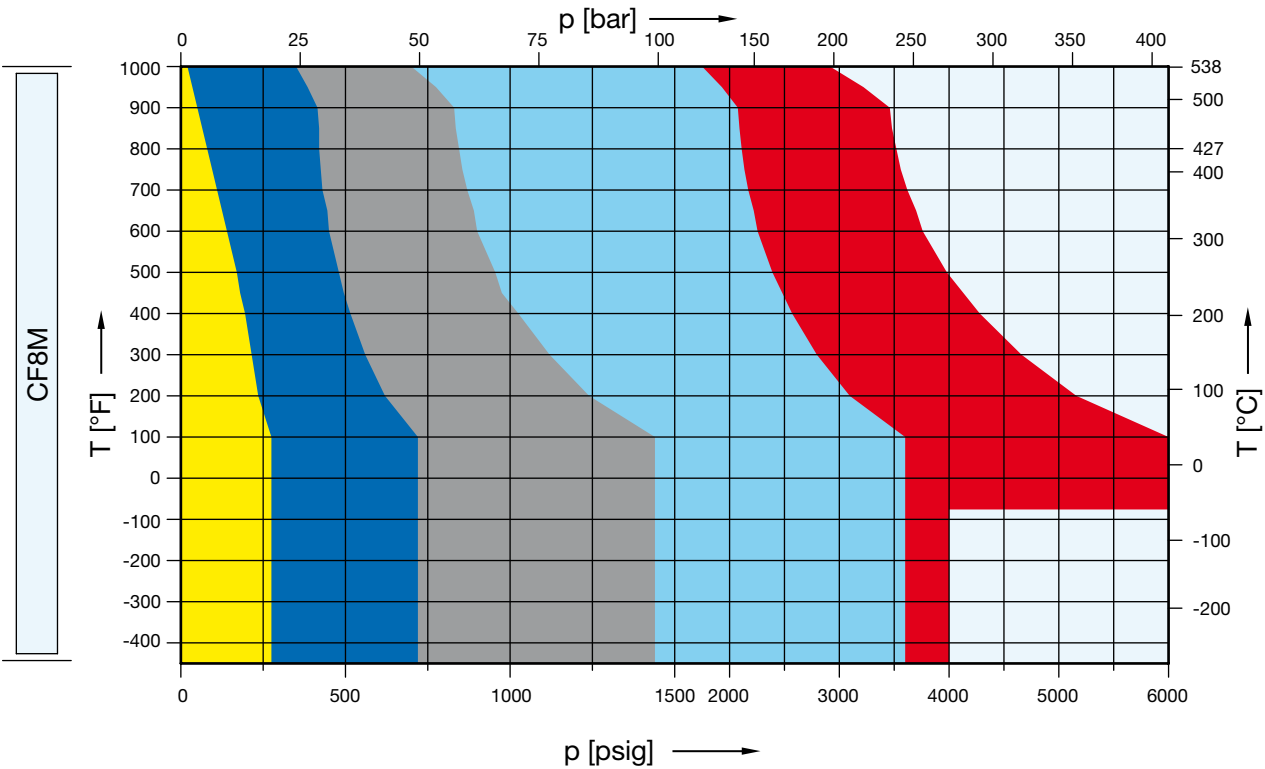
The-Safety-Valve.com

Selection chart

	150 x 150	300L x 150	300 x 150	600 x 150	900 x 300	1500 x 300	2500 x 300
WCB	5262.015X	See 300 x 150	5262.016X	5262.017X	See 1500 x 300	5262.018X	5262.019X
WC6	-	See 300 x 150	5267.020X	5267.021X	See 1500 x 300	5267.022X	5267.023X



	150 x 150	300L x 150	300 x 150	600 x 150	900 x 300	1500 x 300	2500 x 300
CF8M	5264.024X	See 300 x 150	5264.025X	5264.026X	See 1500 x 300	5264.027X	5264.028X



Article numbers, dimensions and weights

Article numbers

Valve size	1 E 2	1 E 2	1 E 2	1 E 2	1 1/2 E 2	1 1/2 E 2	1 1/2 E 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]	14.0	14.0	14.0	14.0	14.0	14.0	14.0
Actual Orifice area A ₀ [mm ²]	154	154	154	154	154	154	154
Body material							
WCB 1.0619	Art.-No. 5262.015[□]	Use 1 E 2 300 x 150	5262.016[□]	5262.017[□]	Use 1 1/2 E 2 1500 x 300	5262.018[□]	5262.019[□]
CF8M 1.4408	Art.-No. 5264.024[□]		5264.025[□]	5264.026[□]		5264.027[□]	5264.028[□]
WC6 1.7357	Art.-No. –		5267.020[□]	5267.021[□]		5267.022[□]	5267.023[□]
LCB	Art.-No. 5263.505[□]		5263.506[□]	5263.507[□]		5263.508[□]	5263.509[□]

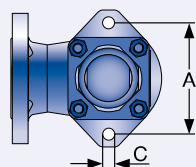
[□] Please add code for the required cap or lifting device. See below.

Dimensions and weights

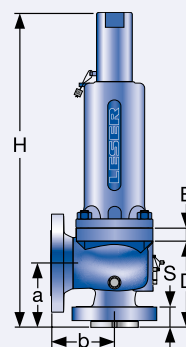
Metric Units								
Weight [kg]		17.3	Use 1 E 2 300 x 150	17.3	17.3	Use 1 1/2 E 2 1500 x 300	31.1	41.8
	with bellows	18.4		18.4	18.4		33.1	44.6
Center to face [mm]	Inlet a	105		105	105		105	140
	Outlet b	114		114	114		140	178
	s	30		30	30		44	57
Height (H4) [mm]	Standard H max.	440		440	440		517	576
	Bellows H max.	465		465	465		542	576
Support brackets [mm]	A	130		130	130		162	162
	B	–		–	–		–	–
	C	Ø 14		Ø 14	Ø 14		Ø 14	Ø 14
	D	132		132	132		129	189
	E	16		16	16		16	16
US Units								
Weight [lbs]		38.1	Use 1 E 2 300 x 150	38.1	38.1	Use 1 1/2 E 2 1500 x 300	68.6	92.2
	with bellows	40.5		40.5	40.5		73	98.4
Center to face [inch]	Inlet a	4 1/8		4 1/8	4 1/8		4 1/8	5 1/2
	Outlet b	4 1/2		4 1/2	4 1/2		5 1/2	7
	s	1 3/16		1 3/16	1 3/16		1 3/4	2 1/4
Height (H4) [inch]	Standard H max.	17 5/16		17 5/16	17 5/16		20 11/32	22 11/16
	Bellows H max.	18 5/16		18 5/16	18 5/16		21 11/32	22 11/16
Support brackets [inch]	A	5 1/8		5 1/8	5 1/8		6 3/8	6 3/8
	B	–		–	–		–	–
	C	Ø 9/16		Ø 9/16	Ø 9/16		Ø 9/16	Ø 9/16
	D	5 7/32		5 7/32	5 7/32		5 7/32	7 15/32
	E	5/8		5/8	5/8		5/8	5/8

Code for lifting device

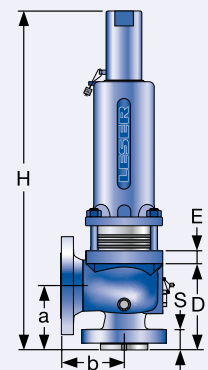
Lifting device	H2	H3	H4	H3
Bonnet	closed	closed	closed	open
WCB 1.0619, WC6 1.7357, LCB	2	3	4	5
CF8M 1.4408	2	–	4	–



Support brackets



Conventional design



Balanced bellows design

Pressure temperature ratings

Metric Units

Valve size		1 E 2	1 E 2	1 E 2	1 E 2	1 1/2 E 2	1 1/2 E 2	1 1/2 E 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]		14.0	14.0	14.0	14.0	14.0	14.0	14.0		
Actual Orifice area A ₀ [mm ²]		154	154	154	154	154	154	154		
Minimum set pressure [bar] S/G/L		0.3	0.3	0.3	0.3	5.0	5.0	18.5		
Minimum set pressure [bar] S/G		3.5	3.5	3.5	11.0	24.0	24.0	24.0		
Balanced bellows Inconel [bar] L		3.5	3.5	3.5	11.0	11.0	11.0	11.0		
Body material: WCB 1.0619										
Pressure range p [bar] S/G/L										
Maximum set pressure	-29 to 38 °C	19.7	Use 1 E 2 300 x 150	51.0	102.1	Use 1 1/2 E 2 1500 x 300	255.5	413.8		
	39 to 232 °C	12.8		42.4	85.2		212.4	354.1		
	233 to 427 °C	5.5		28.3	56.9		142.1	236.6		
Outlet pressure limit Conventional design		19.7		19.7	19.7		41.4	51.0		
Outlet pressure limit Balanced bellows design		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	Use 1 E 2 300 x 150	49.7	99.3	Use 1 1/2 E 2 1500 x 300	248.3	275.9		
	-59 to -29 °C	19.0		49.7	99.3		248.3	413.8		
	-28 to 38 °C	19.0		49.7	99.3		248.3	413.8		
	39 to 232 °C	12.4		34.1	67.2		171.0	284.8		
	233 to 427 °C	5.5		29.0	58.3		145.5	242.8		
	428 to 538 °C	1.4		24.1	48.3		120.7	201.0		
Outlet pressure limit Conventional design		19.0		19.0	19.0		41.4	49.7		
Outlet pressure limit Balanced bellows design		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 E 2 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		41.4	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	Use 1 E 2 300 x 150	48.0	96.0	Use 1 1/2 E 2 1500 x 300	240.1	400.1		
	39 to 200 °C	13.8		42.5	85.1		212.7	354.4		
	201 to 343 °C	8.4		36.4	72.8		182.0	303.3		
Outlet pressure limit Conventional design		18.4		18.4	18.4		41.4	48.0		
Outlet pressure limit Balanced bellows design		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 E 2	1 E 2	1 E 2	1 E 2	1 ½ E 2	1 ½ E 2	1 ½ E 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]		0.551	0.551	0.551	0.551	0.551	0.551	0.551
Actual Orifice area A ₀ [inch²]		0.239	0.239	0.239	0.239	0.239	0.239	0.239
Minimum set pressure [psig] S/G/L		4.0	4.0	4.0	4.0	73.0	73.0	268.0
Minimum set pressure [psig] S/G		50.8	50.8	50.8	159.5	348.0	348.0	348.0
Balanced bellows Inconel [psig] L		50.8	50.8	50.8	159.5	159.5	159.5	159.5
Body material: WCB 1.0619								
Pressure range p [psig] S/G/L								
Maximum set pressure	-20 to 100 °F	285	Use 1 E 2 300 x 150	740	1480	Use 1 ½ E 2 1500 x 300	3705	6000
	101 to 450 °F	185		615	1235		3080	5135
	451 to 800 °F	80		410	825		2060	3430
Outlet pressure limit Conventional design	285	285		285	600		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	Use 1 E 2 300 x 150	720	1440	Use 1 ½ E 2 1500 x 300	3600	4000
	-75 to -21 °F	275		720	1440		3600	6000
	-20 to 100 °F	275		720	1440		3600	6000
	101 to 450 °F	180		495	975		2480	4130
	451 to 800 °F	80		420	845		2110	3520
801 to 1000 °F	20	350		700	1750		2915	
Outlet pressure limit Conventional design	275	275	275	600	720			
Outlet pressure limit Balanced bellows design	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 ½ E 2 1500 x 300	2540	4230
	801 to 1000 °F	–	–	215	430		1080	1800
Outlet pressure limit Conventional design	–	–	285	285	600		740	
Outlet pressure limit Balanced bellows design	–	–	230	230	500	500		
Body material: LCB								
Pressure range p [psig] S/G/L								
Maximum set pressure	-50 to 100 °F	265	Use 1 E 2 300 x 150	695	1395	Use 1 ½ E 2 1500 x 300	3480	5805
	101 to 400 °F	200		615	1230		3075	5125
	401 to 650 °F	125		535	1065		2665	4440
Outlet pressure limit Conventional design	265	265		265	600		695	
Outlet pressure limit Balanced bellows design	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
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.