Type 526

Flanged Safety Relief Valves – spring loaded

Metric + US Units

N

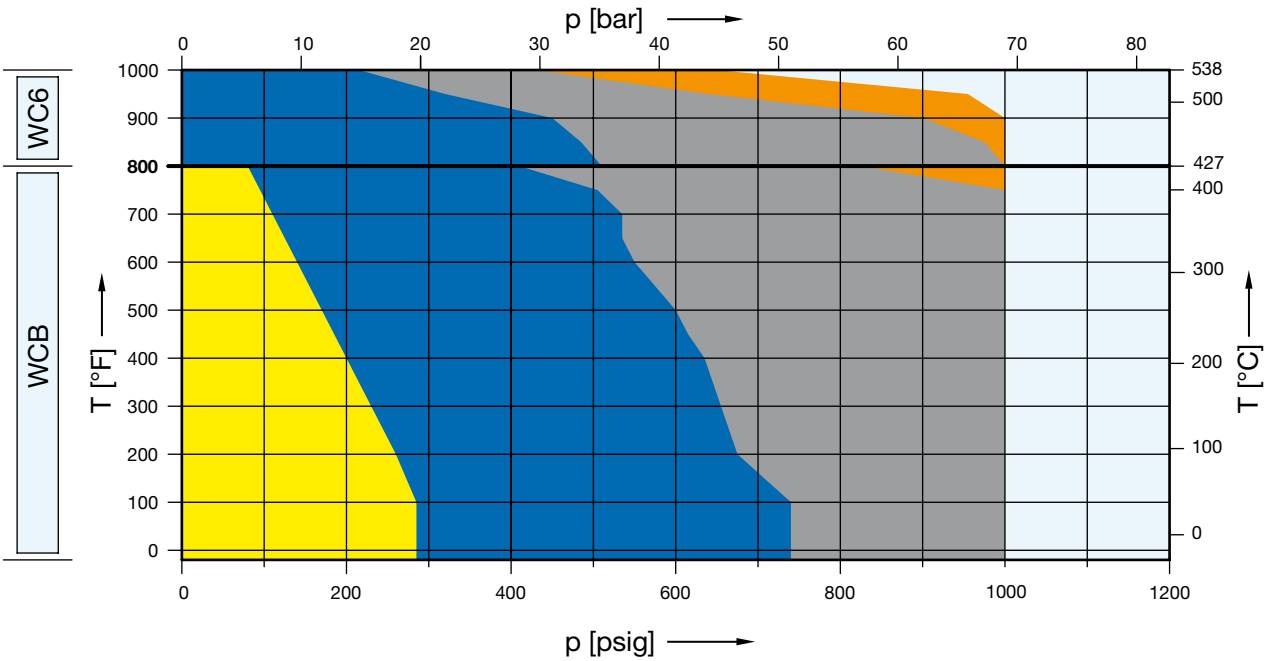
Facts

LESER

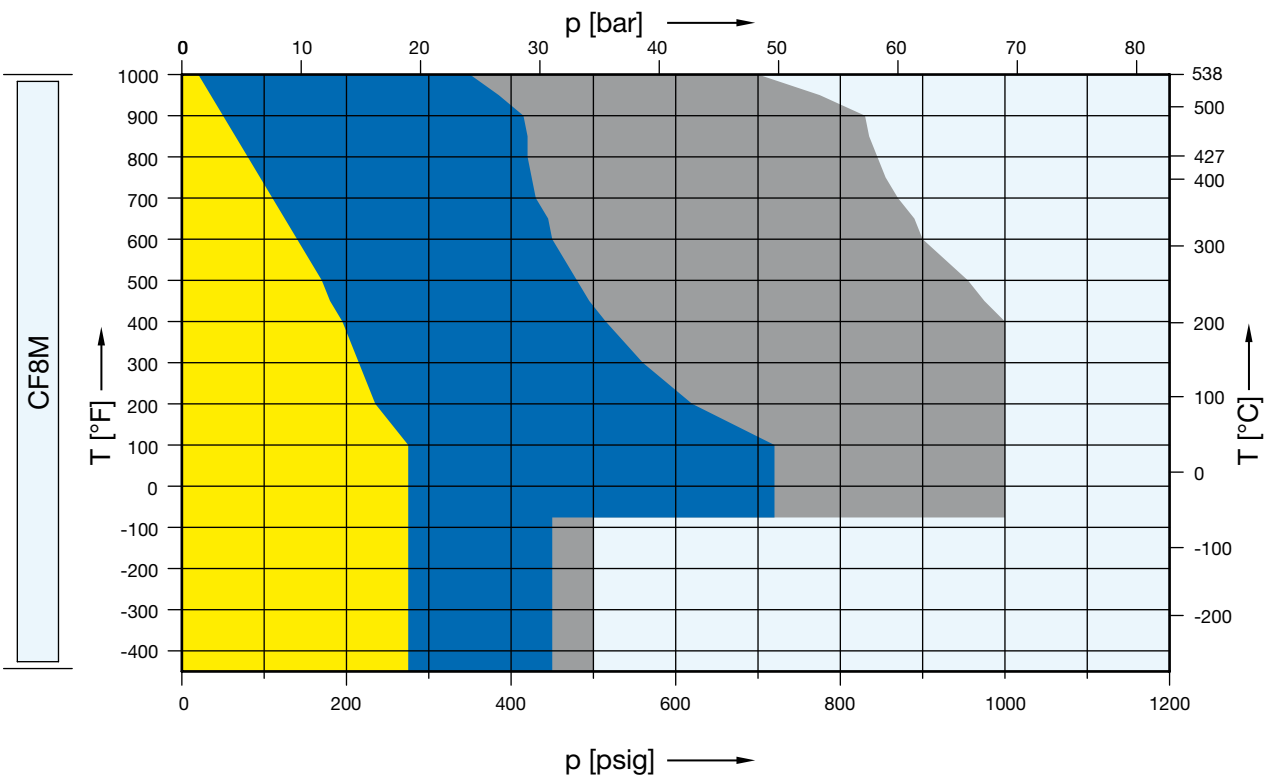
The-Safety-Valve.com

Selection chart

	150 x 150	300L x 150	300 x 150	600 x 150	900 x 150	1500 x 150	2500 x 300
WCB	5262.590X	See 300 x 150	5262.591X	5262.592X	5262.593X	–	–
WC6	–	See 300 x 150	5267.594X	5267.595X	5267.596X	–	–



	150 x 150	300L x 150	300 x 150	600 x 150	900 x 150	1500 x 150	2500 x 300
CF8M	5264.597X	See 300 x 150	5264.598X	5264.599X	–	–	–



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Article numbers, dimensions and weights

Article numbers

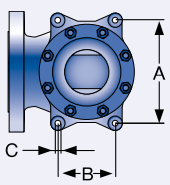
Valve size		4 N 6	4 N 6	4 N 6	4 N 6	4 N 6
Flange rating class Inlet x Outlet		150 x 150	300L x 150	300 x 150	600 x 150	900 x 150
Actual Orifice diameter d_0 [mm]		66.0	66.0	66.0	66.0	66.0
Actual Orifice area A_0 [mm²]		3421	3421	3421	3421	3421
Body material						
WCB 1.0619	Art.-No.	**5262.590**¤	Use 4 N 6 300 x 150	**5262.591**¤	**5262.592**¤	**5262.593**¤
CF8M 1.4408	Art.-No.	**5264.597**¤		**5264.598**¤	**5264.599**¤	–
WC6 1.7357	Art.-No.	–		**5267.594**¤	**5267.595**¤	**5267.596**¤
LCB	Art.-No.	**5263.550**¤		**5263.551**¤	**5263.552**¤	**5263.553**¤

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

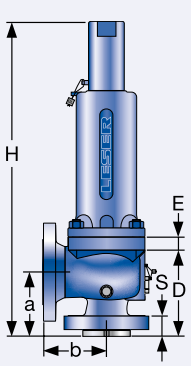
Dimensions and weights

Metric Units						
Weight [kg]		128.6	Use 4 N 6 300 x 150	128.6	134.1	134.1
	with bellows	135.2		135.2	140.7	140.7
Center to face [mm]	Inlet a	197		197	197	197
	Outlet b	210		210	222	222
	s	48		48	72	72
Height (H4) [mm]	Standard H max.	871		871	871	871
	Bellows H max.	904		904	904	904
Support brackets [mm]	A	278		278	278	278
	B	160		160	160	160
	C	Ø 18		Ø 18	Ø 18	Ø 18
	D	280		280	280	280
	E	25		25	25	25
US Units						
Weight [lbs]		283.6	Use 4 N 6 300 x 150	283.6	295.7	295.7
	with bellows	298.1		298.1	310.2	310.2
Center to face [inch]	Inlet a	7 3/4		7 3/4	7 3/4	7 3/4
	Outlet b	8 1/4		8 1/4	8 3/4	8 3/4
	s	1 7/8		1 7/8	2 3/4	2 3/4
Height (H4) [inch]	Standard H max.	34 9/32		34 9/32	34 9/32	34 9/32
	Bellows H max.	35 19/32		35 19/32	35 19/32	35 19/32
Support brackets [inch]	A	10 15/16		10 15/16	10 15/16	10 15/16
	B	6 5/16		6 5/16	6 5/16	6 5/16
	C	Ø 23/32		Ø 23/32	Ø 23/32	Ø 23/32
	D	11		11	11	11
	E	31/32		31/32	31/32	31/32

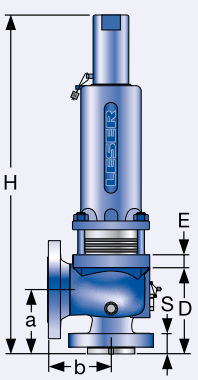
¤ Code for lifting device				
Lifting device	**H2**	**H3**	**H4**	**H3**
Bonnet	closed	closed	closed	open
WCB 1.0619, WC6 1.7357, LCB	2	3	4	5
CF8M 1.4408	2	–	4	–



Support brackets



Conventional design



Balanced bellows design

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Pressure temperature ratings

Metric Units

Valve size		4 N 6	4 N 6	4 N 6	4 N 6	4 N 6
Flange rating class Inlet x Outlet		150 x 150	300L x 150	300 x 150	600 x 150	900 x 150
Actual Orifice diameter d_0 [mm]		66.0	66.0	66.0	66.0	66.0
Actual Orifice area A_0 [mm²]		3421	3421	3421	3421	3421
Minimum set pressure [bar] S/G/L		0.2	0.2	0.2	0.2	0.2
Minimum set pressure [bar] S/G		1.8	1.8	1.8	5.2	5.2
Balanced bellows Inconel [bar] L		1.8	1.8	1.8	8.9	8.9
Body material: WCB 1.0619			**Pressure range p [bar] S/G/L**			
Maximum set pressure	-29 to 38 °C	19.7	Use 4 N 6 300 x 150	51.0	69.0	69.0
	39 to 232 °C	12.8		42.4	69.0	69.0
	233 to 427 °C	5.5		28.3	56.9	69.0
Outlet pressure limit Conventional design		19.7		19.7	19.7	19.7
Outlet pressure limit Balanced bellows design		5.5		11.0	11.0	11.0
Body material: CF8M 1.4408			**Pressure range p [bar] S/G/L**			
Maximum set pressure	-268 to -60 °C	19.0	Use 4 N 6 300 x 150	31.0	34.5	–
	-59 to -29 °C	19.0		49.7	69.0	–
	-28 to 38 °C	19.0		49.7	69.0	–
	39 to 232 °C	12.4		34.1	67.2	–
	233 to 427 °C	5.5		29.0	58.3	–
	428 to 538 °C	1.4		24.1	48.3	–
Outlet pressure limit Conventional design		19.0		19.0	19.0	–
Outlet pressure limit Balanced bellows design		5.5		11.0	11.0	–
Body material: WC6 1.7357			**Pressure range p [bar] S/G/L**			
Maximum set pressure	233 to 427 °C	–	Use 4 N 6 300 x 150	35.2	69.0	69.0
	428 to 538 °C	–		14.8	29.7	44.8
Outlet pressure limit Conventional design		–		19.7	19.7	19.7
Outlet pressure limit Balanced bellows design		–		11.0	11.0	11.0
Body material: LCB			**Pressure range p [bar] S/G/L**			
Maximum set pressure	-46 to 38 °C	18.4	Use 4 N 6 300 x 150	48.0	69.0	69.0
	39 to 200 °C	13.8		42.5	69.0	69.0
	201 to 343 °C	8.4		36.4	69.0	69.0
Outlet pressure limit Conventional design		18.4		18.4	18.4	18.4
Outlet pressure limit Balanced bellows design		5.5		11.0	11.0	11.0

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 N 6	4 N 6	4 N 6	4 N 6	4 N 6
Flange rating class Inlet x Outlet		150 x 150	300L x 150	300 x 150	600 x 150	900 x 150
Actual Orifice diameter d_0 [inch]		2.60	2.60	2.60	2.60	2.60
Actual Orifice area A_0 [inch^2]		5.30	5.30	5.30	5.30	5.30
Minimum set pressure [psig] S/G/L		3.0	3.0	3.0	3.0	3.0
Minimum set pressure [psig] S/G		26.1	26.1	26.1	75.4	75.4
Balanced bellows Inconel [psig] L		26.1	26.1	26.1	129.0	129.0
Body material: WCB 1.0619			**Pressure range p [psig] S/G/L**			
Maximum set pressure	-20 to 100 °F	285	Use 4 N 6 300 x 150	740	1000	1000
	101 to 450 °F	185		615	1000	1000
	451 to 800 °F	80		410	825	1000
Outlet pressure limit Conventional design		285		285	285	285
Outlet pressure limit Balanced bellows design		80		160	160	160
Body material: CF8M 1.4408			**Pressure range p [psig] S/G/L**			
Maximum set pressure	-450 to -76 °F	275	Use 4 N 6 300 x 150	450	500	–
	-75 to -21 °F	275		720	1000	–
	-20 to 100 °F	275		720	1000	–
	101 to 450 °F	180		495	975	–
	451 to 800 °F	80		420	845	–
	801 to 1000 °F	20		350	700	–
Outlet pressure limit Conventional design		275		275	275	–
Outlet pressure limit Balanced bellows design		80		160	160	–
Body material: WC6 1.7357			**Pressure range p [psig] S/G/L**			
Maximum set pressure	451 to 800 °F	–	Use 4 N 6 300 x 150	510	1000	1000
	801 to 1000 °F	–		215	430	650
Outlet pressure limit Conventional design		–		285	285	285
Outlet pressure limit Balanced bellows design		–		160	160	160
Body material: LCB			**Pressure range p [psig] S/G/L**			
Maximum set pressure	-50 to 100 °F	265	Use 4 N 6 300 x 150	695	1000	1000
	101 to 400 °F	200		615	1000	1000
	401 to 650 °F	125		535	1000	1000
Outlet pressure limit Conventional design		265		265	265	265
Outlet pressure limit Balanced bellows design		80		160	160	160

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.