

Type 526

Flanged Safety Relief Valves
– spring loaded
Metric + US Units

G

Facts

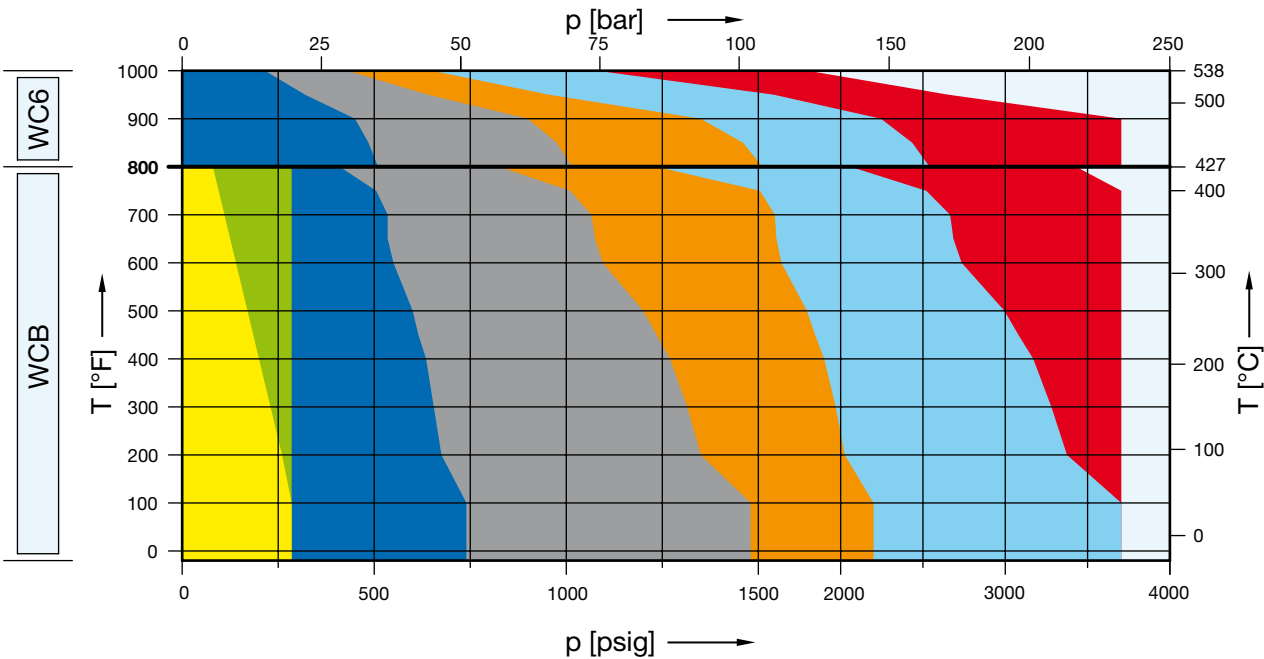


LESER

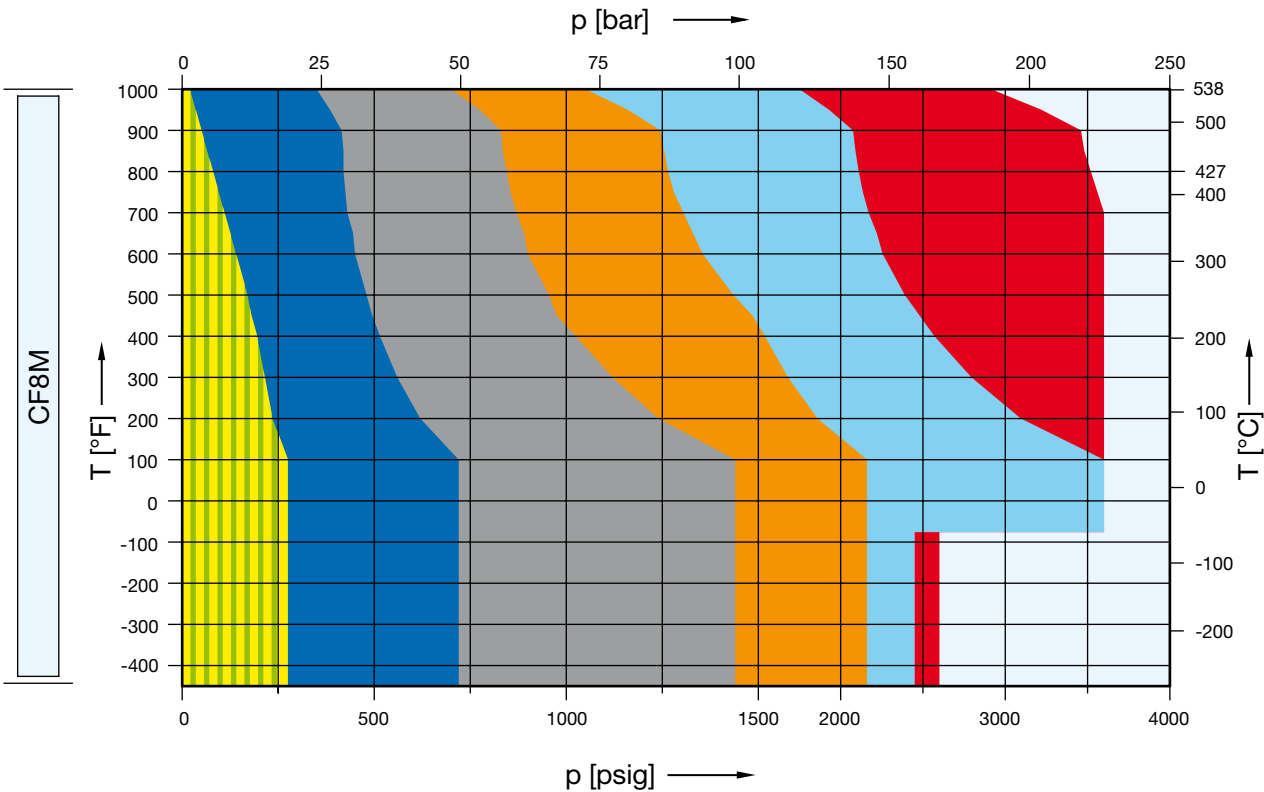
The-Safety-Valve.com

Selection chart

	150 x 150	300L x 150	300 x 150	600 x 150	900 x 300	1500 x 300	2500 x 300
WCB	5262.045X	5262.046X	5262.047X	5262.048X	5262.049X	5262.050X	5262.051X
WC6	-	-	5267.052X	5267.053X	5267.054X	5267.055X	5267.056X



	150 x 150	300L x 150	300 x 150	600 x 150	900 x 300	1500 x 300	2500 x 300
CF8M	5264.110X	5264.111X	5264.112X	5264.113X	5264.114X	5264.115X	5264.116X



Article numbers, dimensions and weights

Article numbers

Valve size	1 1/2 G 3	1 1/2 G 3	1 1/2 G 3	1 1/2 G 3	1 1/2 G 3	2 G 3	2 G 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]	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Actual Orifice area A ₀ [mm ²]	398	398	398	398	398	398	398
Body material							
WCB 1.0619	Art.-No. 5262.045 [□]	5262.046 [□]	5262.047 [□]	5262.048 [□]	5262.049 [□]	5262.050 [□]	5262.051 [□]
CF8M 1.4408	Art.-No. 5264.110 [□]	5264.111 [□]	5264.112 [□]	5264.113 [□]	5264.114 [□]	5264.115 [□]	5264.116 [□]
WC6 1.7357	Art.-No. –	–	5267.052 [□]	5267.053 [□]	5267.054 [□]	5267.055 [□]	5267.056 [□]
LCB	Art.-No. 5263.516 [□]	5263.517 [□]	5263.518 [□]	5263.519 [□]	5263.520 [□]	5263.521 [□]	5263.522 [□]

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

Dimensions and weights

Metric Units

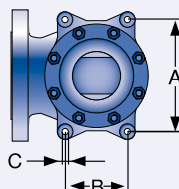
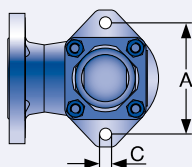
Weight [kg]		30,6	30,6	32,5	32,5	36,3	69,9	69,9
	with bellows	33,1	33,1	35	35	38,6	72,5	72,5
Center to face [mm]	Inlet a	124	124	124	124	124	156	156
	Outlet b	121	121	152	152	165	172	172
	s	32	32	35	35	44	68	68
Height (H4) [mm]	Standard H max.	536	536	536	536	560	688	688
	Bellows H max.	574	574	574	574	573	705	705
Support brackets [mm]	A	162	162	162	162	162	184	184
	B	–	–	–	–	–	110	110
	C	Ø 14	Ø 14	Ø 14	Ø 14	Ø 14	Ø 14	Ø 14
	D	148	148	148	148	174	198	198
	E	16	16	16	16	16	16	16

US Units

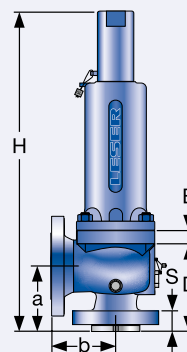
Weight [lbs]		67,5	67,5	71,7	71,7	80	154,1	154,1
	with bellows	73	73	77,2	77,2	85,1	159,9	159,9
Center to face [inch]	Inlet a	4 7/8	4 7/8	4 7/8	4 7/8	4 7/8	6 1/8	6 1/8
	Outlet b	4 3/4	4 3/4	6	6	6 1/2	6 3/4	6 3/4
	s	1 1/4	1 1/4	1 13/32	1 13/32	1 3/4	2 11/16	2 11/16
Height (H4) [inch]	Standard H max.	21 3/32	21 3/32	21 3/32	21 3/32	22 1/16	27 3/32	27 3/32
	Bellows H max.	22 19/32	22 19/32	22 19/32	22 19/32	22 9/16	27 3/4	27 3/4
Support brackets [inch]	A	6 3/8	6 3/8	6 3/8	6 3/8	6 3/8	7 1/4	7 1/4
	B	–	–	–	–	–	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	Ø 9/16
	D	5 27/32	5 27/32	5 27/32	5 27/32	6 27/32	7 13/16	7 13/16
	E	5/8	5/8	5/8	5/8	5/8	5/8	5/8

Code for lifting device

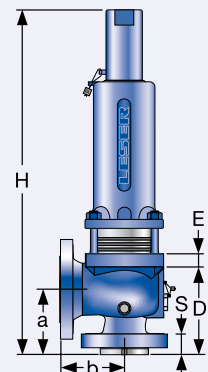
Lifting device	H2	H3	H4	H3
Bonnet	closed	closed	closed	open
WCB 1.0619, WC6 1.7357, LCB	2	3	4	5
CF8M 1.4408	2	–	4	–



Support brackets



Conventional design



Balanced bellows design

Pressure temperature ratings

Metric Units

Valve size		1 1/2 G 3	1 1/2 G 3	1 1/2 G 3	1 1/2 G 3	1 1/2 G 3	2 G 3	2 G 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]		22.5	22.5	22,5	22.5	22.5	22.5	22.5
Actual Orifice area A ₀ [mm ²]		398	398	398	398	398	398	398
Minimum set pressure [bar] S/G/L		0.2	0.2	0.2	0.2	0.2	5.0	5.0
Minimum set pressure [bar] S/G		3.4	3.4	3.4	9.2	9.2	9.2	9.2
Balanced bellows Inconel [bar] L		3.2	3.2	3.2	18.5	18.5	18.5	18.5
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	255.5	255.5
	39 to 232 °C	12.8	19.7	42.4	85.2	127.2	212.4	255.5
	233 to 427 °C	5.5	19.7	28.3	56.9	85.2	142.1	236.6
Outlet pressure limit Conventional design		19.7	19.7	19.7	19.7	51.0	51.0	51.0
Outlet pressure limit Balanced bellows design		15.9	15.9	15.9	15.9	32.4	32.4	32.4
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	149.0	169.0	179.3
	-59 to -29 °C	19.0	19.0	49.7	99.3	149.0	248.3	248.3
	-28 to 38 °C	19.0	19.0	49.7	99.3	149.0	248.3	248.3
	39 to 232 °C	12.4	12.4	34.1	67.2	102.4	171.0	248.3
	233 to 427 °C	5.5	5.5	29.0	58.3	87.2	145.5	242.8
	428 to 538 °C	1.4	1.4	24.1	48.3	72.4	120.7	201.0
Outlet pressure limit Conventional design		19.0	19.0	19.0	19.0	41.4	41.4	49.7
Outlet pressure limit Balanced bellows design		15.9	15.9	15.9	15.9	32.4	32.4	32.4
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	255.5
	428 to 538 °C	–	–	14.8	29.7	44.8	74.5	124.1
Outlet pressure limit Conventional design		–	–	19.7	19.7	51.0	51.0	51.0
Outlet pressure limit Balanced bellows design		–	–	15.9	15.9	32.4	32.4	32.4
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	240.1	255.5
	39 to 200 °C	13.8	13.8	42.5	85.1	127.6	212.7	255.5
	201 to 343 °C	8.4	8.4	36.4	72.8	109.2	182.0	255.5
Outlet pressure limit Conventional design		18.4	18.4	18.4	18.4	48.0	48.0	48.0
Outlet pressure limit Balanced bellows design		15.9	15.9	15.9	15.9	32.4	32.4	32.4

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 G 3	1 1/2 G 3	1 1/2 G 3	1 1/2 G 3	1 1/2 G 3	2 G 3	2 G 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]		0.886	0.886	0.886	0.886	0.886	0.886	0.886
Actual Orifice area A ₀ [inch ²]		0.616	0.616	0.616	0.616	0.616	0.616	0.616
Minimum set pressure [psig] S/G/L		3.0	3.0	3.0	3.0	3.0	73.0	73.0
Minimum set pressure [psig] S/G		46.6	46.6	46.6	133.4	133.4	133.4	133.4
Balanced bellows Inconel [psig] L		46.4	46.4	46.4	268.0	268.0	268.0	268.0
Body material: WCB 1.0619 Pressure range p [psig] S/G/L								
Maximum set pressure	-20 to 100 °F	285	285	740	1480	2220	3705	3705
	101 to 450 °F	185	285	615	1235	1845	3080	3705
	451 to 800 °F	80	285	410	825	1235	2060	3430
Outlet pressure limit Conventional design		285	285	285	285	740	740	740
Outlet pressure limit Balanced bellows design		230	230	230	230	470	470	470
Body material: CF8M 1.4408 Pressure range p [psig] S/G/L								
Maximum set pressure	-450 to -76 °F	275	275	720	1440	2160	2450	2600
	-75 to -21 °F	275	275	720	1440	2160	3600	3600
	-20 to 100 °F	275	275	720	1440	2160	3600	3600
	101 to 450 °F	180	180	495	975	1485	2480	3600
	451 to 800 °F	80	80	420	845	1265	2110	3520
	801 to 1000 °F	20	20	350	700	1050	1750	2915
Outlet pressure limit Conventional design		275	275	275	275	600	600	720
Outlet pressure limit Balanced bellows design		230	230	230	230	470	470	470
Body material: WC6 1.7357 Pressure range p [psig] S/G/L								
Maximum set pressure	451 to 800 °F	–	–	510	1015	1525	2540	3705
	801 to 1000 °F	–	–	215	430	650	1080	1800
Outlet pressure limit Conventional design		–	–	285	285	740	740	740
Outlet pressure limit Balanced bellows design		–	–	230	230	470	470	470
Body material: LCB Pressure range p [psig] S/G/L								
Maximum set pressure	-50 to 100 °F	265	265	695	1395	2090	3480	3705
	101 to 400 °F	200	200	615	1230	1845	3075	3705
	401 to 650 °F	125	125	535	1065	1600	2665	3705
Outlet pressure limit Conventional design		265	265	265	265	695	695	695
Outlet pressure limit Balanced bellows design		230	230	230	230	470	470	470

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.