

# Type 526

Type 526  
Packed lever H4  
Closed bonnet  
Conventional design



## Flanged Safety Relief Valves – spring loaded

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## Article numbers – Overview

Article numbers												
Material	WCB	CF8M	WC6	LCB	WCB	CF8M	WC6	LCB	WCB	CF8M	WC6	LCB
	1.0619	1.4408	1.7357		1.0619	1.4408	1.7357		1.0619	1.4408	1.7357	
<b>Flange class</b>	150 x 150				300L x 150				300 x 150			
<b>Valve size</b>	1 D 2				1 D 2				1 D 2			
D	5262.001 <sup>a</sup>	5264.010 <sup>a</sup>	–	5263.500 <sup>a</sup>	Use 1 D 2 300 x 150				5262.002 <sup>a</sup>	5264.011 <sup>a</sup>	5267.006 <sup>a</sup>	5263.501 <sup>a</sup>
E	1 E 2				1 E 2				1 E 2			
E	5262.015 <sup>a</sup>	5264.024 <sup>a</sup>	–	5263.505 <sup>a</sup>	Use 1 E 2 300 x 150				5262.016 <sup>a</sup>	5264.025 <sup>a</sup>	5267.020 <sup>a</sup>	5263.506 <sup>a</sup>
F	1 1/2 F 2				1 1/2 F 2				1 1/2 F 2			
F	5262.029 <sup>a</sup>	5264.039 <sup>a</sup>	–	5263.510 <sup>a</sup>	5262.030 <sup>a</sup>	5264.040 <sup>a</sup>	–	5263.511 <sup>a</sup>	5262.031 <sup>a</sup>	5264.041 <sup>a</sup>	5267.035 <sup>a</sup>	5263.512 <sup>a</sup>
G	1 1/2 G 3				1 1/2 G 3				1 1/2 G 3			
G	5262.045 <sup>a</sup>	5264.110 <sup>a</sup>	–	5263.516 <sup>a</sup>	5262.046 <sup>a</sup>	5264.111 <sup>a</sup>	–	5263.517 <sup>a</sup>	5262.047 <sup>a</sup>	5264.112 <sup>a</sup>	5267.052 <sup>a</sup>	5263.518 <sup>a</sup>
<b>Flange class</b>	150 x 150				300L x 150				300 x 150			
<b>Valve size</b>	1 1/2 H 3				1 1/2 H 3				2 H 3			
H	5262.142 <sup>a</sup>	5264.152 <sup>a</sup>	–	5263.523 <sup>a</sup>	5262.143 <sup>a</sup>	5264.153 <sup>a</sup>	–	5263.524 <sup>a</sup>	5262.144 <sup>a</sup>	5264.154 <sup>a</sup>	5267.148 <sup>a</sup>	5263.525 <sup>a</sup>
J	2 J 3				2 J 3				3 J 4			
J	5262.162 <sup>a</sup>	5264.196 <sup>a</sup>	–	5263.529 <sup>a</sup>	5262.163 <sup>a</sup>	5264.197 <sup>a</sup>	–	5263.530 <sup>a</sup>	5262.164 <sup>a</sup>	5264.198 <sup>a</sup>	5267.168 <sup>a</sup>	5263.531 <sup>a</sup>
K	3 K 4				3 K 4				3 K 4			
K	5262.202 <sup>a</sup>	5264.211 <sup>a</sup>	–	5263.535 <sup>a</sup>	Use 3 K 4 300 x 150				5262.203 <sup>a</sup>	5264.212 <sup>a</sup>	5267.207 <sup>a</sup>	5263.536 <sup>a</sup>
<b>Flange class</b>	150 x 150				300L x 150				300 x 150			
<b>Valve size</b>	3 L 4				3 L 4				4 L 6			
L	5262.232 <sup>a</sup>	5264.242 <sup>a</sup>	–	5263.540 <sup>a</sup>	5262.233 <sup>a</sup>	5264.243 <sup>a</sup>	–	5263.541 <sup>a</sup>	5262.234 <sup>a</sup>	5264.244 <sup>a</sup>	5267.238 <sup>a</sup>	5263.542 <sup>a</sup>
M	4 M 6				4 M 6				4 M 6			
M	5262.580 <sup>a</sup>	5264.587 <sup>a</sup>	–	5263.546 <sup>a</sup>	Use 4 M 6 300 x 150				5262.581 <sup>a</sup>	5264.588 <sup>a</sup>	5267.584 <sup>a</sup>	5263.547 <sup>a</sup>
N	4 N 6				4 N 6				4 N 6			
N	5262.590 <sup>a</sup>	5264.597 <sup>a</sup>	–	5263.550 <sup>a</sup>	Use 4 N 6 300 x 150				5262.591 <sup>a</sup>	5264.598 <sup>a</sup>	5267.594 <sup>a</sup>	5263.551 <sup>a</sup>
P	4 P 6				4 P 6				4 P 6			
P	5262.645 <sup>a</sup>	5264.653 <sup>a</sup>	–	5263.554 <sup>a</sup>	5262.646 <sup>a</sup>	5264.654 <sup>a</sup>	–	5263.555 <sup>a</sup>	5262.647 <sup>a</sup>	5264.655 <sup>a</sup>	5267.650 <sup>a</sup>	5263.556 <sup>a</sup>
Q	6 Q 8				6 Q 8				6 Q 8			
Q	5262.657 <sup>a</sup>	5264.662 <sup>a</sup>	–	5263.559 <sup>a</sup>	Use 6 Q 8 300 x 150				5262.658 <sup>a</sup>	5264.663 <sup>a</sup>	5267.660 <sup>a</sup>	5263.560 <sup>a</sup>
R	6 R 8				6 R 8				6 R 10			
R	5262.665 <sup>a</sup>	5264.671 <sup>a</sup>	–	5263.562 <sup>a</sup>	5262.666 <sup>a</sup>	5264.672 <sup>a</sup>	5267.669 <sup>a</sup>	5263.563 <sup>a</sup>	5262.667 <sup>a</sup>	5264.673 <sup>a</sup>	–	5263.564 <sup>a</sup>
T	8 T 10				8 T 10				8 T 10			
T	5262.675 <sup>a</sup>	5264.678 <sup>a</sup>	–	5263.566 <sup>a</sup>	Use 8 T 10 300 x 150				5262.676 <sup>a</sup>	5264.679 <sup>a</sup>	5267.677 <sup>a</sup>	5263.567 <sup>a</sup>

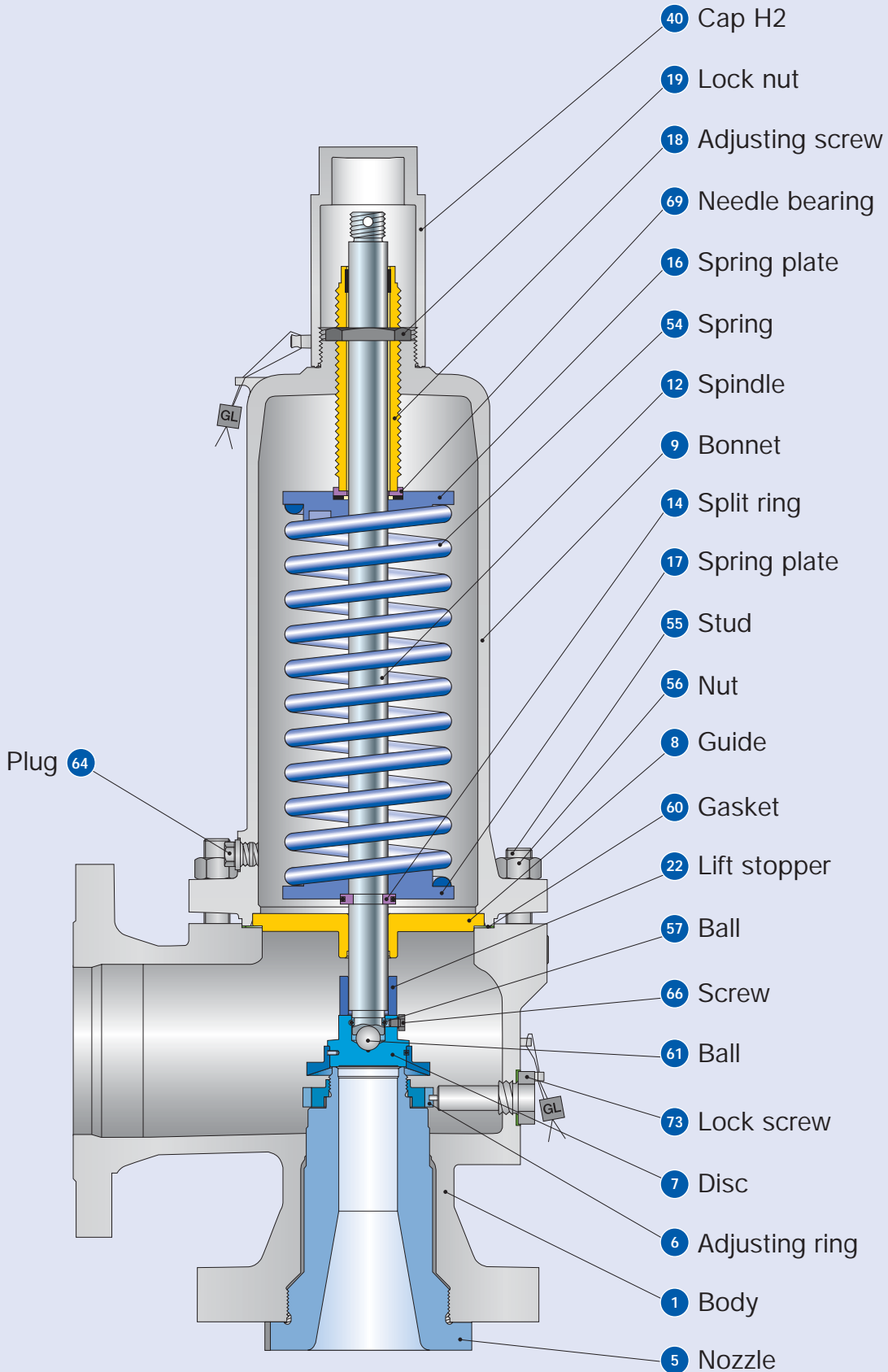
## Article numbers – Overview

Article numbers																
Material	WCB	CF8M	WC6	LCB	WCB	CF8M	WC6	LCB	WCB	CF8M	WC6	LCB	WCB	CF8M	WC6	LCB
	1.0619	1.4408	1.7357		1.0619	1.4408	1.7357		1.0619	1.4408	1.7357		1.0619	1.4408	1.7357	
<b>Flange class</b>	600 x 150				900 x 300				1500 x 300				2500 x 300			
<b>Valve size</b>	1 D 2				1 1/2 D 2				1 1/2 D 2				1 1/2 D 3			
<b>D</b>	5262.003 <sup>2)</sup>	5264.012 <sup>2)</sup>	5267.007 <sup>2)</sup>	5263.502 <sup>2)</sup>	Use 1 1/2 D 2 1500 x 300				5262.004 <sup>2)</sup>	5264.013 <sup>2)</sup>	5267.008 <sup>2)</sup>	5263.503 <sup>2)</sup>	5262.005 <sup>2)</sup>	5264.014 <sup>2)</sup>	5267.009 <sup>2)</sup>	5263.504 <sup>2)</sup>
<b>E</b>	1 E 2				1 1/2 E 2				1 1/2 E 2				1 1/2 E 3			
<b>E</b>	5262.017 <sup>2)</sup>	5264.026 <sup>2)</sup>	5267.021 <sup>2)</sup>	5263.507 <sup>2)</sup>	Use 1 1/2 E 2 1500 x 300				5262.018 <sup>2)</sup>	5264.027 <sup>2)</sup>	5267.022 <sup>2)</sup>	5263.508 <sup>2)</sup>	5262.019 <sup>2)</sup>	5264.028 <sup>2)</sup>	5267.023 <sup>2)</sup>	5263.509 <sup>2)</sup>
<b>F</b>	1 1/2 F 2				1 1/2 F 3				1 1/2 F 3				1 1/2 F 3			
<b>F</b>	5262.032 <sup>2)</sup>	5264.042 <sup>2)</sup>	5267.036 <sup>2)</sup>	5263.513 <sup>2)</sup>	Use 1 1/2 F 3 1500 x 300				5262.033 <sup>2)</sup>	5264.043 <sup>2)</sup>	5267.037 <sup>2)</sup>	5263.514 <sup>2)</sup>	5262.034 <sup>2)</sup>	5264.044 <sup>2)</sup>	5267.038 <sup>2)</sup>	5263.515 <sup>2)</sup>
<b>G</b>	1 1/2 G 3				1 1/2 G 3				2 G 3				2 G 3			
<b>G</b>	5262.048 <sup>2)</sup>	5264.113 <sup>2)</sup>	5267.053 <sup>2)</sup>	5263.519 <sup>2)</sup>	5262.049 <sup>2)</sup>	5264.114 <sup>2)</sup>	5267.054 <sup>2)</sup>	5263.520 <sup>2)</sup>	5262.050 <sup>2)</sup>	5264.115 <sup>2)</sup>	5267.055 <sup>2)</sup>	5263.521 <sup>2)</sup>	5262.051 <sup>2)</sup>	5264.116 <sup>2)</sup>	5267.056 <sup>2)</sup>	5263.522 <sup>2)</sup>
<b>Flange class</b>	600 x 150				900 x 150				1500 x 300							
<b>Valve size</b>	2 H 3				2 H 3				2 H 3							
<b>H</b>	5262.145 <sup>2)</sup>	5264.155 <sup>2)</sup>	5267.149 <sup>2)</sup>	5263.526 <sup>2)</sup>	5262.146 <sup>2)</sup>	5264.156 <sup>2)</sup>	5267.150 <sup>2)</sup>	5263.527 <sup>2)</sup>	5262.147 <sup>2)</sup>	5264.157 <sup>2)</sup>	5267.151 <sup>2)</sup>	5263.528 <sup>2)</sup>				
<b>J</b>	3 J 4				3 J 4				3 J 4							
<b>J</b>	5262.165 <sup>2)</sup>	5264.199 <sup>2)</sup>	5267.169 <sup>2)</sup>	5263.532 <sup>2)</sup>	5262.166 <sup>2)</sup>	5264.200 <sup>2)</sup>	5267.170 <sup>2)</sup>	5263.533 <sup>2)</sup>	5262.167 <sup>2)</sup>	5264.201 <sup>2)</sup>	5267.171 <sup>2)</sup>	5263.534 <sup>2)</sup>				
<b>K</b>	3 K 4				3 K 6				3 K 6							
<b>K</b>	5262.204 <sup>2)</sup>	5264.213 <sup>2)</sup>	5267.208 <sup>2)</sup>	5263.537 <sup>2)</sup>	5262.205 <sup>2)</sup>	5264.214 <sup>2)</sup>	5267.209 <sup>2)</sup>	5263.538 <sup>2)</sup>	5262.206 <sup>2)</sup>	5264.215 <sup>2)</sup>	5267.210 <sup>2)</sup>	5263.539 <sup>2)</sup>				
<b>Flange class</b>	600 x 150				900 x 150				1500 x 150							
<b>Valve size</b>	4 L 6				4 L 6				4 L 6							
<b>L</b>	5262.235 <sup>2)</sup>	5264.245 <sup>2)</sup>	5267.239 <sup>2)</sup>	5263.543 <sup>2)</sup>	5262.236 <sup>2)</sup>	5264.246 <sup>2)</sup>	5267.240 <sup>2)</sup>	5263.544 <sup>2)</sup>	5262.237 <sup>2)</sup>	-	5267.241 <sup>2)</sup>	5263.545 <sup>2)</sup>				
<b>M</b>	4 M 6				4 M 6											
<b>M</b>	5262.582 <sup>2)</sup>	5264.589 <sup>2)</sup>	5267.585 <sup>2)</sup>	5263.548 <sup>2)</sup>	5262.583 <sup>2)</sup>	-	5267.586 <sup>2)</sup>	5263.549 <sup>2)</sup>								
<b>N</b>	4 N 6				4 N 6											
<b>N</b>	5262.592 <sup>2)</sup>	5264.599 <sup>2)</sup>	5267.595 <sup>2)</sup>	5263.552 <sup>2)</sup>	5262.593 <sup>2)</sup>	-	5267.596 <sup>2)</sup>	5263.553 <sup>2)</sup>								
<b>P</b>	4 P 6				4 P 6											
<b>P</b>	5262.648 <sup>2)</sup>	5264.656 <sup>2)</sup>	5267.651 <sup>2)</sup>	5263.557 <sup>2)</sup>	5262.649 <sup>2)</sup>	-	5267.652 <sup>2)</sup>	5263.558 <sup>2)</sup>								
<b>Q</b>	6 Q 8															
<b>Q</b>	5262.659 <sup>2)</sup>	5264.664 <sup>2)</sup>	5267.661 <sup>2)</sup>	5263.561 <sup>2)</sup>												
<b>R</b>	6 R 10															
<b>R</b>	5262.668 <sup>2)</sup>	5264.674 <sup>2)</sup>	5267.670 <sup>2)</sup>	5263.565 <sup>2)</sup>												
<b>T</b>	8 T 10															
<b>T</b>	-	-	-	-												

<sup>2)</sup> Please add code for the required cap or lifting device.

Code for 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	-

## Conventional design



## Conventional design

Materials		Standard Service Type 5262 Trim: Standard	Corrosive Service Type 5264 Trim: Standard	Type 5267 Trim: Standard	Type 5263 Trim: Standard
1	Body	1.0619	1.4408	1.7357	
		SA 216 WCB	SA 315 CF8M	SA 217 WC6	SA 352 LCB
5	Nozzle <sup>1)</sup>	1.4404	1.4404	1.4404 stellited	1.4404
		316 L	316L	316L stellited	316L
6	Adjusting ring	1.4408	1.4408	1.4404	1.4408
		CF8M	CF8M	316L	CF8M
7	Disc	1.4122	1.4404 stellited	1.4122	1.4122
		Hardened stainless steel	316L stellited	Hardened stainless steel	Hardened stainless steel
8	Guide	1.4404	1.4404	1.4404	1.4404
		316 L	316L	316L	316L
9	Bonnet	1.0619	1.4404, 1.4571	1.7357	
		SA 216 WCB	SA 479 316L, 316Ti	SA 217 WC6	SA 352 LCB
12	Spindle	1.4021	1.4021	1.4021	1.4021
		420	420	420	420
14	Split ring	1.4104	1.4404	1.4104	1.4104
		Chrome steel	316L	Chrome steel	Chrome steel
16 / 17	Spring plate	1.0718	1.4404	1.0718	1.0718
		Steel	316L	Steel	Steel
18	Adjusting screw	1.4104	1.4404 tenifer	1.4104	1.4104
		Chrome steel	316L tenifer	Chrome steel	Chrome steel
	with bushing	PTFE with 15% Glas	PTFE 15% Glas	PTFE 15% Glas	PTFE 15% Glas
		- " -	- " -	- " -	- " -
19	Lock nut	1.0718	1.4404	1.0718	1.0718
		Steel	316L	Steel	Steel
22	Lift stopper	1.4404	1.4404	1.4404	1.4404
		316L	316L	316L	316L
40	Cap H2	1.0718	1.4404	1.0718	1.0718
		Steel	316L	Steel	Steel
54	Spring	1.8159	1.4310	1.8159	1.8159
		High temp. alloy steel	Stainless steel	High temp. alloy steel	High temp. alloy steel
55	Stud	1.4401	1.4401	1.4401	1.4401
		B8M	B8M	B8M	B8M
56	Nut	1.4401	1.4401	1.4401	1.4401
		8M	8M	8M	8M
57	Ball	1.4401	1.4401	1.4401	1.4401
		316	316	316	316
60	Gasket	Graphite / 1.4401	Graphite / 1.4401	Graphite / 1.4401	Graphite / 1.4401
		Graphite / 316	Graphite / 316	Graphite / 316	Graphite / 316
61	Ball	1.3541	1.4401	1.3541	1.3541
		Hardened stainless steel	316	Hardened stainless steel	Hardened stainless steel
64	Plug	Steel	1.4401	Steel	Steel
		- " -	B8M	- " -	- " -
66	Screw	1.4401	1.4401	1.4401	1.4401
		B8M	B8M	B8M	B8M
69	Needle bearing	1.4404	1.4404	1.4404	1.4404
		316L	316 L	316L	316L
73	Lock screw	1.4404	1.4404	1.4404	1.4404
		8M	8M	8M	8M

<sup>1)</sup> Stellited sealing surfaces please refer to page 99/06

**Please notice:**

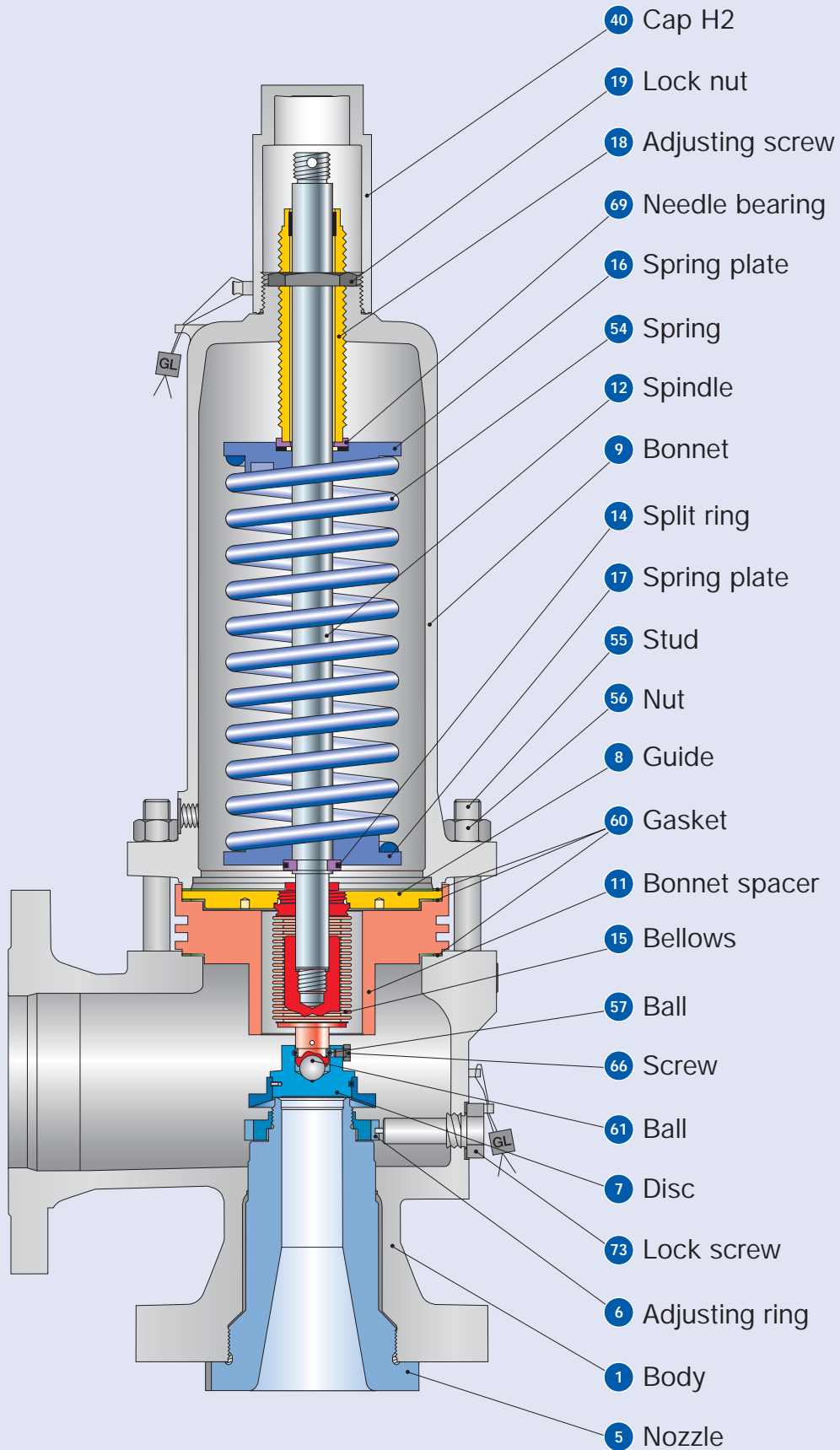
- Modifications reserved by LESER
- LESER can upgrade materials without notice
- Every part can be replaced by other material acc. to customer specification.

**Special materials:**

Body and trim available in various materials (Monel®, Hastelloy® ...).  
For nozzle and disc machined from the bar a short lead time is possible.

## Balanced bellows design

Type 526



## Balanced bellows design

Materials		Standard Service Type 5262 Trim: Standard	Corrosive Service Type 5264 Trim: Standard	Type 5267 Trim: Standard	Type 5263 Trim: Standard
1	Body	1.0619	1.4408	1.7357	
		SA 216 WCB	SA 315 CF8M	SA 217 WC6	SA 352 LCB
5	Nozzle <sup>2)</sup>	1.4404	1.4404	1.4404 stellited	1.4404
		316 L	316L	316L stellited	316L
6	Adjusting ring	1.4408	1.4408	1.4404	1.4408
		CF8M	CF8M	316L	CF8M
7	Disc	1.4122	1.4404 stellited	1.4122	1.4122
		Hardened stainless steel	316L stellited	Hardened stainless steel	Hardened stainless steel
8	Guide	1.4404	1.4404	1.4404	1.4404
		316 L	316L	316L	316L
9	Bonnet	1.0619	1.4404, 1.4571	1.7357	
		SA 216 WCB	SA 479 316L, 316Ti	SA 217 WC6	SA 352 LCB
	Valve size 6 R 10, 8T10	1.0305	1.4571	1.0305	1.0305
		Steel	SA 479 316Ti	Steel	Steel
11	Bonnet spacer <sup>1)</sup>	1.0460	1.4404	1.4404	1.4404
		Carbon steel	SA 479 316L	SA 479 316L	316L
12	Spindle	1.4021	1.4021	1.4021	1.4021
		420	420	420	420
14	Split ring	1.4104	1.4404	1.4104	1.4104
		Chrome steel	316L	Chrome steel	Chrome steel
15	Bellows	1.4571	1.4571	1.4571	1.4571
		316 Ti	316 Ti	316 Ti	316 Ti
16 / 17	Spring plate	1.0718	1.4404	1.0718	1.0718
		Steel	316L	Steel	Steel
18	Adjusting screw	1.4104	1.4404 tenifer	1.4104	1.4104
		Chrome steel	316L tenifer	Chrome steel	Chrome steel
	with bushing	PTFE with 15% Glas	PTFE 15% Glas	PTFE 15% Glas	PTFE 15% Glas
		- " -	- " -	- " -	- " -
19	Lock nut	1.0718	1.4404	1.0718	1.0718
		Steel	316L	Steel	Steel
22	Lift stopper	1.4404	1.4404	1.4404	1.4404
		316L	316L	316L	316L
40	Cap H2	1.0718	1.4404	1.0718	1.0718
		Steel	316L	Steel	Steel
54	Spring	1.8159	1.4310	1.8159	1.8159
		High temp. alloy steel	Stainless steel	High temp. alloy steel	High temp. alloy steel
55	Stud	1.4401	1.4401	1.7709	1.4401
		B8M	B8M	B16	B8M
56	Nut	1.4401	1.4401	1.7258	1.4401
		8M	8M	7M	8M
57	Ball	1.4401	1.4401	1.4401	1.4401
		316	316	316	316
60	Gasket	Graphite / 1.4401	Graphite / 1.4401	Graphite / 1.4401	Graphite / 1.4401
		Graphite / 316	Graphite / 316	Graphite / 316	Graphite / 316
61	Ball	1.3541	1.4401	1.3541	1.3541
		Hardened stainless steel	316	Hardened stainless steel	Hardened stainless steel
66	Screw	1.4401	1.4401	1.4401	1.4401
		B8M	B8M	B8M	B8M
69	Needle bearing	1.4404	1.4404	1.4404	1.4404
		316L	316 L	316L	316L
73	Lock screw	1.4404	1.4404	1.4404	1.4404
		8M	8M	8M	8M

<sup>1)</sup> Valve size 6 R 10 and 8 T 10 without bonnet spacer    <sup>2)</sup> Stellited sealing surfaces please refer to page 99/06

**Please notice:**

- Modifications reserved by LESER
- LESER can upgrade materials without notice
- Every part can be replaced by other material acc. to customer specification.

LWN 480.01-E

**Special materials:**

Body and trim available in various materials (Monel®, Hastelloy® ...).  
For nozzle and disc machined from the bar a short lead time is possible.

# Type 526

## Dimensions

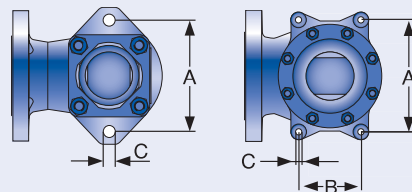
### Metric Units

Safety valve dimensions [mm]		a	b	s	H <sub>max.</sub>	H <sub>max.</sub> with bellows	a	b	s	H <sub>max.</sub>	H <sub>max.</sub> with bellows	a	b	s	H <sub>max.</sub>	H <sub>max.</sub> with bellows	
Support brackets [mm]		A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	
<b>Flange rating class</b>		150 x 150					300L x 150					300 x 150					
<b>Valve size</b>		1 D 2					1 D 2					1 D 2					
<b>D</b>	d <sub>0</sub> [mm]	14	105	114	30	440	Please see 1 D 2					105	114	30	440	465	
	A <sub>0</sub> [mm <sup>2</sup> ]	154	130	-	Ø 14	132	300 x 150					130	-	Ø 14	132	16	
<b>Valve size</b>		1 E 2					1 E 2					1 E 2					
<b>E</b>	d <sub>0</sub> [mm]	14	105	114	30	440	Please see 1 E 2					105	114	30	440	465	
	A <sub>0</sub> [mm <sup>2</sup> ]	154	130	-	Ø 14	132	300 x 150					130	-	Ø 14	132	16	
<b>Valve size</b>		1 1/2 F 2					1 1/2 F 2					1 1/2 F 2					
<b>F</b>	d <sub>0</sub> [mm]	18	124	121	32	536	124	121	32	536	561	124	152	35	536	561	
	A <sub>0</sub> [mm <sup>2</sup> ]	254	162	-	Ø 14	148	162	-	Ø 14	148	16	162	-	Ø 14	148	16	
<b>Valve size</b>		1 1/2 G 3					1 1/2 G 3					1 1/2 G 3					
<b>G</b>	d <sub>0</sub> [mm]	22,5	124	121	32	536	124	121	32	536	574	124	152	35	536	574	
	A <sub>0</sub> [mm <sup>2</sup> ]	398	162	-	Ø 14	148	162	-	Ø 14	148	16	162	-	Ø 14	148	16	
<b>Flange rating class</b>		150 x 150					300L x 150					300 x 150					
<b>Valve size</b>		1 1/2 H 3					1 1/2 H 3					2 H 3					
<b>H</b>	d <sub>0</sub> [mm]	28,3	130	124	38	542	130	124	38	542	580	130	124	43	666	692	
	A <sub>0</sub> [mm <sup>2</sup> ]	629	162	-	Ø 14	155	162	-	Ø 14	155	16	184	110	Ø 14	177	16	
<b>Valve size</b>		2 J 3					2 J 3					2 J 3					
<b>J</b>	d <sub>0</sub> [mm]	36	137	124	49	673	137	124	49	673	722	184	181	49	786	824	
	A <sub>0</sub> [mm <sup>2</sup> ]	1018	184	110	Ø 14	184	16	184	110	Ø 14	184	16	238	140	Ø 18	234	25
<b>Valve size</b>		3 K 4					3 K 4					3 K 4					
<b>K</b>	WCB, LCB, CF8M (WC6)	d <sub>0</sub> [mm]	43	156	162	49	758	Please see 3 K 4					156	162	49	758	796
	WC6	A <sub>0</sub> [mm <sup>2</sup> ]	1452	238	140	Ø 18	206	300 x 150					238	140	Ø 18	206	25
<b>Flange rating class</b>		150 x 150					300L x 150					300 x 150					
<b>Valve size</b>		3 L 4					3 L 4					4 L 6					
<b>L</b>	d <sub>0</sub> [mm]	53,5	156	165	49	758	156	165	49	758	796	179	181	49	853	886	
	A <sub>0</sub> [mm <sup>2</sup> ]	2248	238	140	Ø 18	206	25	238	140	Ø 18	206	25	278	160	Ø 18	262	25
<b>Valve size</b>		4 M 6					4 M 6					4 M 6					
<b>M</b>	d <sub>0</sub> [mm]	60,3	178	184	48	852	Please see 4 M 6					178	184	48	852	885	
	A <sub>0</sub> [mm <sup>2</sup> ]	2856	278	160	Ø 18	260	25	300 x 150					278	160	Ø 18	260	25
<b>Valve size</b>		4 N 6					4 N 6					4 N 6					
<b>N</b>	d <sub>0</sub> [mm]	66	197	210	48	871	Please see 4 N 6					197	210	48	871	904	
	A <sub>0</sub> [mm <sup>2</sup> ]	3421	278	160	Ø 18	280	25	300 x 150					278	160	Ø 18	280	25
<b>Valve size</b>		4 P 6					4 P 6					4 P 6					
<b>P</b>	d <sub>0</sub> [mm]	80	181	229	48	855	181	229	48	855	888	225	254	62	1079	1138	
	A <sub>0</sub> [mm <sup>2</sup> ]	5027	278	160	Ø 18	262	25	278	160	Ø 18	262	25	370	210	Ø 18	306	25
<b>Valve size</b>		6 Q 8					6 Q 8					6 Q 8					
<b>Q</b>	d <sub>0</sub> [mm]	105,5	240	241	68	1120	Please see 6 Q 8					240	241	68	1120	1200	
	A <sub>0</sub> [mm <sup>2</sup> ]	8742	370	210	Ø 18	346	25	300 x 150					370	210	Ø 18	346	25
<b>Valve size</b>		6 R 8					6 R 8					6 R 10					
<b>R</b>	d <sub>0</sub> [mm]	126,5	240	241	68	1120	240	241	68	1120	1200	240	267	68	1426	1426	
	A <sub>0</sub> [mm <sup>2</sup> ]	12568	370	210	Ø 18	346	25	370	210	Ø 18	346	25	470	150	Ø 18	460	25
<b>Valve size</b>		8 T 10					8 T 10					8 T 10					
<b>T</b>	d <sub>0</sub> [mm]	161,5	276	279	62	1462	Please see 8 T 10					276	279	62	1462	1462	
	A <sub>0</sub> [mm <sup>2</sup> ]	20485	470	150	Ø 18	497	25	300 x 150					470	150	Ø 18	497	25

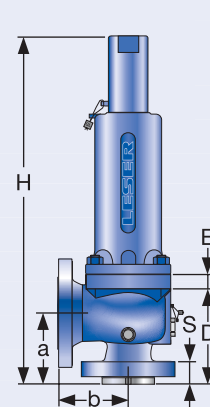


$d_0$  = Actual orifice diameter  
 $A_0$  = Actual orifice area

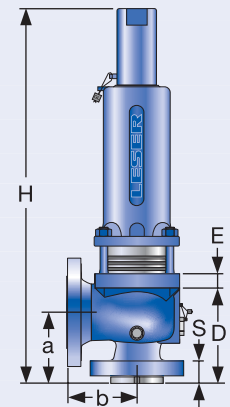
a	b	s	H <sub>max.</sub>	H <sub>max.</sub> with bellows	a	b	s	H <sub>max.</sub>	H <sub>max.</sub> with bellows	a	b	s	H <sub>max.</sub>	H <sub>max.</sub> with bellows	a	b	s	H <sub>max.</sub>	H <sub>max.</sub> with bellows
A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
<b>600 x 150</b>					<b>900 x 300</b>					<b>1500 x 300</b>					<b>2500 x 300</b>				
1 D 2					1 1/2 D 2					1 1/2 D 2					1 1/2 D 3				
105	114	30	440	465	Please see 1 1/2 D 2					105	140	44	517	542	140	178	57	576	576
130	-	Ø 14	132	16	1500 x 300					162	-	Ø 14	129	16	162	-	Ø 14	189	16
1 E 2					1 1/2 E 2					1 1/2 E 2					1 1/2 E 3				
105	114	30	440	465	Please see 1 1/2 E 2					105	140	44	517	542	140	178	57	576	576
130	-	Ø 14	132	16	1500 x 300					162	-	Ø 14	129	16	162	-	Ø 14	189	16
1 1/2 F 2					1 1/2 F 3					1 1/2 F 3					1 1/2 F 3				
124	152	35	536	561	Please see 1 1/2 F 3					124	165	44	560	560	140	178	57	576	576
162	-	Ø 14	148	16	1500 x 300					162	-	Ø 14	174	16	162	-	Ø 14	189	16
1 1/2 G 3					1 1/2 G 3					2 G 3					2 G 3				
124	152	35	536	574	124	165	44	560	573	156	172	68	688	705	156	172	68	688	705
162	-	Ø 14	148	16	162	-	Ø 14	174	16	184	110	Ø 14	198	16	184	110	Ø 14	198	16
<b>600 x 150</b>					<b>900 x 150</b>					<b>1500 x 300</b>									
2 H 3					2 H 3					2 H 3									
154	162	56	691	717	154	162	56	691	717	154	162	56	691	717					
184	110	Ø 14	202	16	184	110	Ø 14	202	16	184	110	Ø 14	202	16					
3 J 4					3 J 4					3 J 4									
184	181	49	786	824	184	181	65	786	824	184	181	65	786	824					
238	140	Ø 18	234	25	238	140	Ø 18	234	25	238	140	Ø 18	234	25					
3 K 4					3 K 6					3 K 6									
184	181	49	786	824	198	216	67	880	880	197	216	65	879	879					
238	140	Ø 18	234	25	278	160	Ø 18	288	25	278	160	Ø 18	287	25					
156	162	49	758	796															
238	140	Ø 18	206	25															
<b>600 x 150</b>					<b>900 x 150</b>					<b>1500 x 150</b>									
4 L 6					4 L 6					4 L 6									
179	203	57	853	886	197	222	72	871	904	197	222	72	871	904					
278	160	Ø 18	262	25	278	160	Ø 18	280	25	278	160	Ø 18	280	25					
4 M 6					4 M 6														
178	203	56	852	885	197	222	72	871	904										
278	160	Ø 18	260	25	278	160	Ø 18	280	25										
4 N 6					4 N 6														
197	222	72	871	904	197	222	72	871	904										
278	160	Ø 18	280	25	278	160	Ø 18	280	25										
4 P 6					4 P 6														
225	254	62	1079	1138	225	254	62	1079	1138										
370	210	Ø 18	306	25	370	210	Ø 18	306	25										
6 Q 8																			
240	241	68	1120	1200															
370	210	Ø 18	346	25															
6 R 10																			
240	267	68	1426	1426															
470	150	Ø 18	460	25															
-	-	-	-	-															
-	-	-	-	-															
-	-	-	-	-															



Support brackets



Conventional design



Balanced bellows design

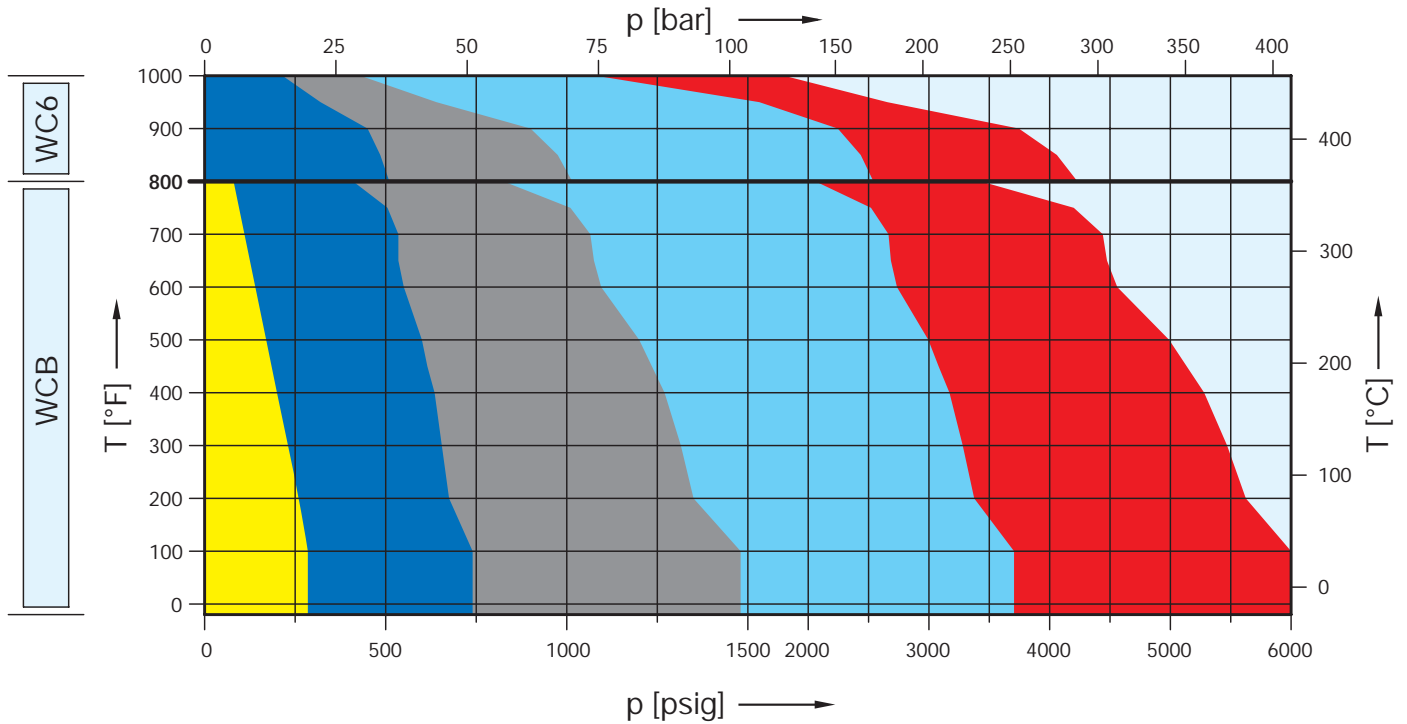
## Weights

### Metric Units

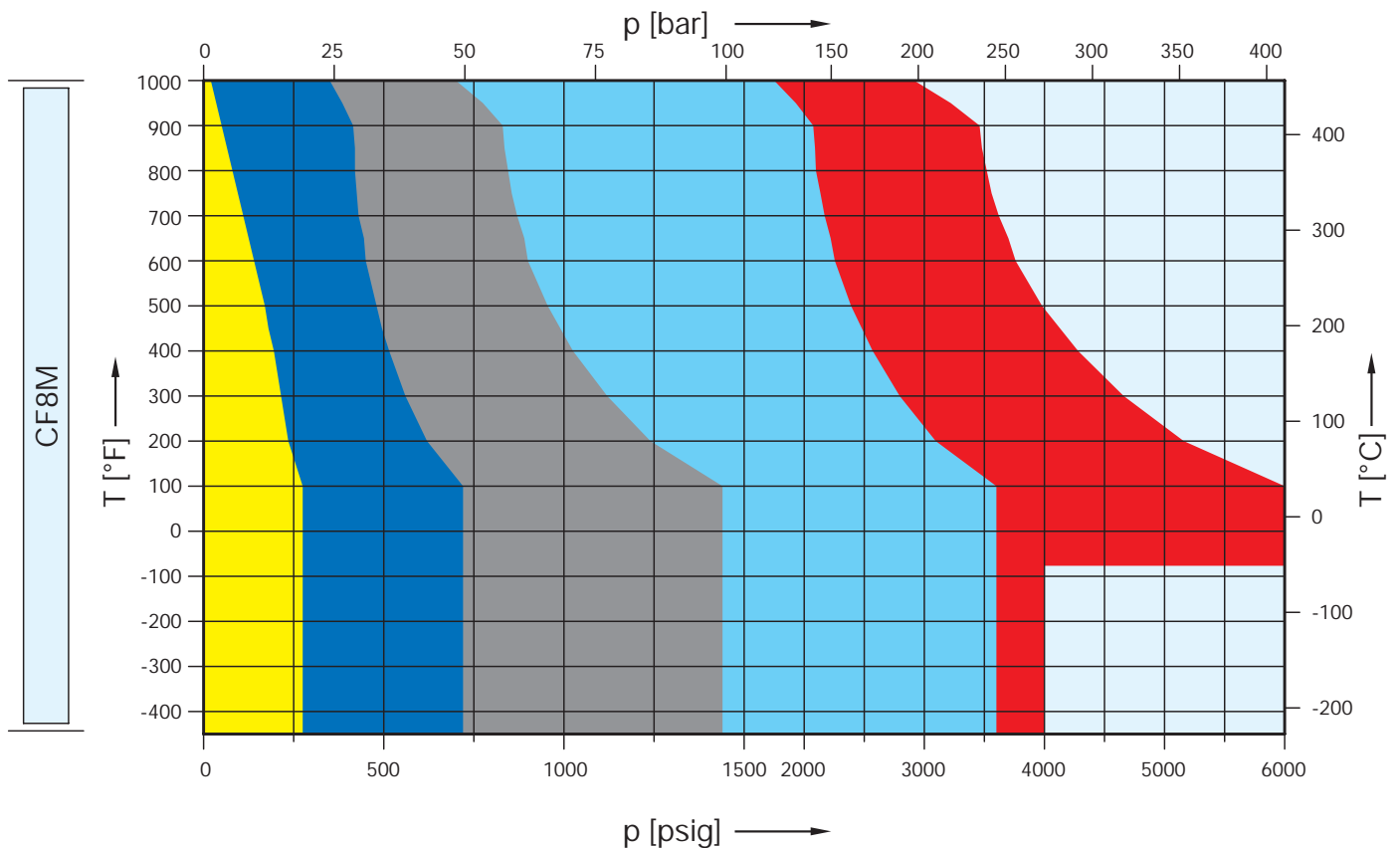
		Bonnet			all			
		Lifting device			all			
Flange class		150 x 150	300L x 150	300 x 150	600 x 150	900 x 300	1500 x 300	2500 x 300
<b>Valve size</b>		1 D 2	1 D 2	1 D 2	1 D 2	1 1/2 D 2	1 1/2 D 2	1 1/2 D 3
<b>D</b>	Weight [kg]	17,3	Use 300 lbs dimensions for this size	17,3	17,3	Use 1500 lbs dimensions for this size	31,1	41,8
	with bellows [kg]	18,4		18,4	18,4		33,1	44,6
<b>E</b>	Weight [kg]	17,3	Use 300 lbs dimensions for this size	17,3	17,3	Use 1500 lbs dimensions for this size	31,1	41,8
	with bellows [kg]	18,4		18,4	18,4		33,1	44,6
<b>F</b>	Weight [kg]	30,6	30,6	32,5	32,5	Use 1500 lbs dimensions for this size	36,3	41,8
	with bellows [kg]	33,1	33,1	35	35		38,6	44,6
<b>G</b>	Weight [kg]	30,6	30,6	32,5	32,5	36,3	69,9	69,9
	with bellows [kg]	33,1	33,1	35	35	38,6	72,5	72,5
<b>Flange class</b>		150 x 150	300L x 150	300 x 150	600 x 150	900 x 150	1500 x 300	
<b>Valve size</b>		1 1/2 H 3	1 1/2 H 3	2 H 3	2 H 3	2 H 3	2 H 3	
<b>H</b>	Weight [kg]	30,6	30,6	44,6	62,2	62,2	62,2	
	with bellows [kg]	33,1	33,1	48,4	65,3	65,3	65,3	
<b>J</b>	Weight [kg]	44,6	44,6	77,7	77,7	100,2	100,2	
	with bellows [kg]	48,4	48,4	83,2	83,2	105,7	105,7	
<b>K</b>	Weight [kg]	70,1	Use 300 lbs dimensions for this size	70,1	Other	WC6	127,5	127,5
	with bellows [kg]	75,7		75,7	83,2	75,7		
<b>Flange class</b>		150 x 150	300L x 150	300 x 150	600 x 150	900 x 150	1500 x 150	
<b>Valve size</b>		3 L 4	3 L 4	4 L 6	4 L 6	4 L 6	4 L 6	
<b>L</b>	Weight [kg]	70,1	70,1	112,2	122	134,1	127,5	
	with bellows [kg]	75,7	75,7	118,8	128,6	140,7	134,1	
<b>M</b>	Weight [kg]	112,1	Use 300 lbs dimensions for this size	112,1	122	134,1		
	with bellows [kg]	118,7		118,7	128,6	140,7		
<b>N</b>	Weight [kg]	128,6	Use 300 lbs dimensions for this size	128,6	134,1	134,1		
	with bellows [kg]	135,2		135,2	140,7	140,7		
<b>P</b>	Weight [kg]	107,7	107,7	164	164	164		
	with bellows [kg]	114,8	114,8	172	172	172		
<b>Q</b>	Weight [kg]	221	Use 300 lbs dimensions for this size	221	221			
	with bellows [kg]	230		230	230			
<b>R</b>	Weight [kg]	221	221	277	277			
	with bellows [kg]	230	230	288	288			
<b>T</b>	Weight [kg]	287	Use 300 lbs dimensions for this size	287				
	with bellows [kg]	298		298				

## Selection chart

	150 x 150	300L x 150	300 x 150	600 x 150	900 x 300	1500 x 300	2500 x 300
WCB	5262.001X	-	5262.002X	5262.003X	-	5262.004X	5262.005X
WC6	-	-	5267.006X	5267.007X	-	5267.008X	5267.009X



	150 x 150	300L x 150	300 x 150	600 x 150	900 x 300	1500 x 300	2500 x 300
CF8M	5264.010X	-	5264.011X	5264.012X	-	5264.013X	5264.014X



## Article numbers, dimensions and weights

### Article numbers

Valve size	1 D 2	1 D 2	1 D 2	1 D 2	1 1/2 D 2	1 1/2 D 2	1 1/2 D 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 <sub>0</sub> [mm]	14	14	14	14	14	14	14
Actual Orifice area A <sub>0</sub> [mm <sup>2</sup> ]	154	154	154	154	154	154	154

### Body material

WCB 1.0619	Art.-No.	5262.001 <sup>2)</sup>	Use 1 D 2 300 x 150	5262.002 <sup>2)</sup>	5262.003 <sup>2)</sup>	Use 1 1/2 D 2 1500 x 300	5262.004 <sup>2)</sup>	5262.005 <sup>2)</sup>
CF8M 1.4408	Art.-No.	5264.010 <sup>2)</sup>		5264.011 <sup>2)</sup>	5264.012 <sup>2)</sup>		5264.013 <sup>2)</sup>	5264.014 <sup>2)</sup>
WC6 1.7357	Art.-No.	-		5267.006 <sup>2)</sup>	5267.007 <sup>2)</sup>		5267.008 <sup>2)</sup>	5267.009 <sup>2)</sup>
LCB	Art.-No.	5263.500 <sup>2)</sup>		5263.501 <sup>2)</sup>	5263.502 <sup>2)</sup>		5263.503 <sup>2)</sup>	5263.504 <sup>2)</sup>

<sup>2)</sup> Please add code for the required cap or lifting device. See below.

### Dimensions and weights

#### Metric Units

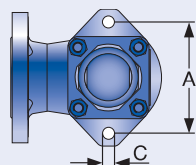
Weight [kg]		17,3	Use 1 D 2 300 x 150	17,3	17,3	Use 1 1/2 D 2 1500 x 300	31,1	41,8	
	with bellows	18,4		18,4	18,4		33,1	44,6	
Center to face [mm]	Inlet a	105		105	105		105	140	140
	Outlet b	114		114	114		140	178	178
	s	30	30	30	44	57			
Height (H4) [mm]	Standard H max.	440	440	440	517	576	576		
	Bellows 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

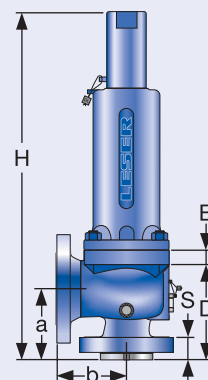
Weight [lbs]		38,1	Use 1 D 2 300 x 150	38,1	38,1	Use 1 1/2 D 2 1500 x 300	68,6	92,2	
	with bellows	40,5		40,5	40,5		73	98,4	
Center to face [inch]	Inlet a	4 1/8		4 1/8	4 1/8		4 1/8	5 1/2	5 1/2
	Outlet b	4 1/2		4 1/2	4 1/2		5 1/2	7	
	s	1 3/16	1 3/16	1 3/16	1 3/4	2 1/4			
Height (H4) [inch]	Standard H max.	17 5/16	17 5/16	17 5/16	20 11/32	22 11/16	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

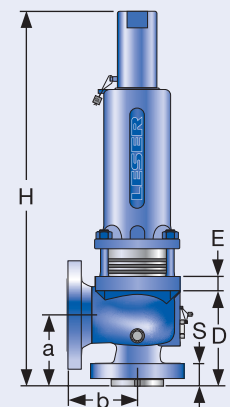
Lifting device	H2	H3	H4	H3
Bonnet	closed	closed	closed	open
WCB 1.0619, WC6 1.7357, LCB	2	3	4	5
CF8M 1.4408	2	-	4	-



Support brackets



Conventional design



Balanced bellows design

## Pressure temperature ratings

### Metric Units

Valve size	1 D 2	1 D 2	1 D 2	1 D 2	1 1/2 D 2	1 1/2 D 2	1 1/2 D 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 <sub>0</sub> [mm]	14	14	14	14	14	14	14
Actual Orifice area A <sub>0</sub> [mm <sup>2</sup> ]	154	154	154	154	154	154	154

#### Body material: WCB 1.0619

Temperature range		Pressure range p [bar] S/G/L						
<b>Maximum set pressure</b>	-29 to 38 °C	19,7	Use 1 D 2 300 x 150	51,0	102,1	Use 1 1/2 D 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
<b>Outlet pressure limit</b> Conventional design		19,7		19,7	19,7		41,4	51,0
<b>Outlet pressure limit</b> Balanced bellows design		15,9		15,9	15,9		34,5	34,5

#### Body material: CF8M 1.4408

Temperature range		Pressure range p [bar] S/G/L						
<b>Maximum set pressure</b>	-268 to -60 °C	19,0	Use 1 D 2 300 x 150	49,7	99,3	Use 1 1/2 D 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	68,3		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			
<b>Outlet pressure limit</b> Conventional design		19,0		19,0	19,0		41,4	49,7
<b>Outlet pressure limit</b> Balanced bellows design		15,9		15,9	15,9		34,5	34,5

#### Body material: WC6 1.7357

Temperature range		Pressure range p [bar] S/G/L						
<b>Maximum set pressure</b>	233 to 427 °C	-	-	35,2	70,0	Use 1 1/2 D 2 1500 x 300	175,2	291,7
	428 to 538 °C	-	-	14,8	29,7		74,5	124,1
<b>Outlet pressure limit</b> Conventional design		-	-	19,7	19,7		41,4	51,0
<b>Outlet pressure limit</b> Balanced bellows design		-	-	15,9	15,9		34,5	34,5

#### Body material: LCB

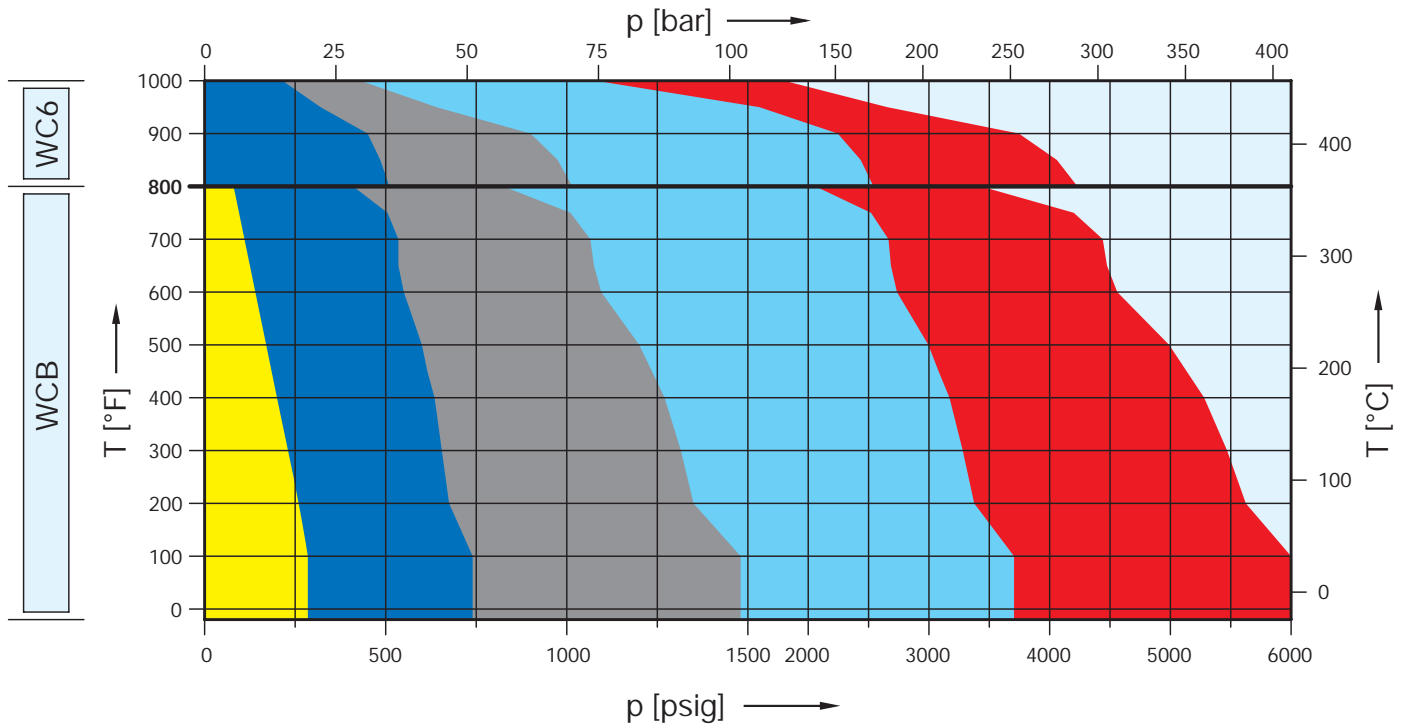
Temperature range		Pressure range p [bar] S/G/L						
<b>Maximum set pressure</b>	-46 to 38 °C	18,4	Use 1 D 2 300 x 150	48,0	96,0	Use 1 1/2 D 2 1500 x 300	240,1	400,1
	39 to 200 °C	13,8		42,5	85,1		212,7	354,4
	201 to 343 °C	8,4		36,4	72,8		182,0	303,3
<b>Outlet pressure limit</b> Conventional design		19,7		19,7	19,7		41,4	51,0
<b>Outlet pressure limit</b> 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

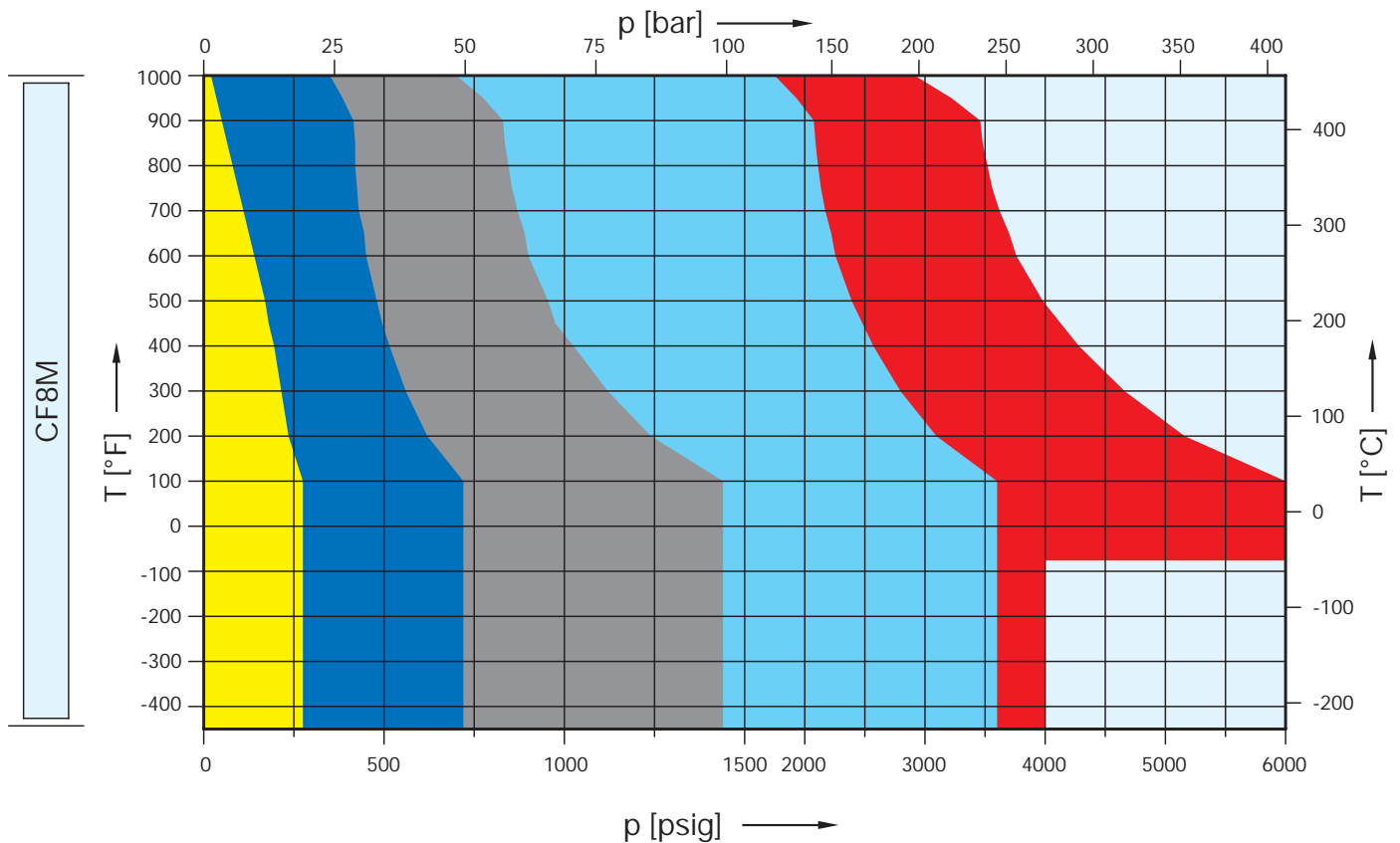
Due to the extended material test certificate the LESER LCB can be applied as LCC, WCB, WCC and 1.0619 with the respective pressure-temperature range as well.

## 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	-	5262.016X	5262.017X	-	5262.018X	5262.019X
WC6	-	-	5267.020X	5267.021X	-	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	-	5264.025X	5264.026X	-	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 <sub>0</sub> [mm]	14	14	14	14	14	14	14
Actual Orifice area A <sub>0</sub> [mm <sup>2</sup> ]	154	154	154	154	154	154	154

### Body material

WCB 1.0619	Art.-No.	5262.015 <sup>2)</sup>	Use 1 E 2 300 x 150	5262.016 <sup>2)</sup>	5262.017 <sup>2)</sup>	Use 1 1/2 E 2 1500 x 300	5262.018 <sup>2)</sup>	5262.019 <sup>2)</sup>
CF8M 1.4408	Art.-No.	5264.024 <sup>2)</sup>		5264.025 <sup>2)</sup>	5264.026 <sup>2)</sup>		5264.027 <sup>2)</sup>	5264.028 <sup>2)</sup>
WC6 1.7357	Art.-No.	-		5267.020 <sup>2)</sup>	5267.021 <sup>2)</sup>		5267.022 <sup>2)</sup>	5267.023 <sup>2)</sup>
LCB	Art.-No.	5263.505 <sup>2)</sup>		5263.506 <sup>2)</sup>	5263.507 <sup>2)</sup>		5263.508 <sup>2)</sup>	5263.509 <sup>2)</sup>

<sup>2)</sup> Please add code for the required cap or lifting device. See below.

### Dimensions and weights

#### Metric Units

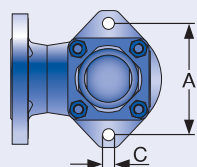
Weight [kg]		17,3	Use 1 E 2 300 x 150	17,3	17,3	Use 1 1/2 E 2 1500 x 300	31,1	41,8	
	with bellows	18,4		18,4	18,4		33,1	44,6	
Center to face [mm]	Inlet a	105		105	105		105	140	140
	Outlet b	114		114	114		140	178	178
	s	30	30	30	44	57			
Height (H4) [mm]	Standard H max.	440	440	440	517	576	576		
	Bellows 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

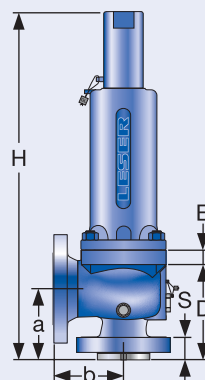
Weight [lbs]		38,1	Use 1 E 2 300 x 150	38,1	38,1	Use 1 1/2 E 2 1500 x 300	68,6	92,2	
	with bellows	40,5		40,5	40,5		73	98,4	
Center to face [inch]	Inlet a	4 1/8		4 1/8	4 1/8		4 1/8	5 1/2	5 1/2
	Outlet b	4 1/2		4 1/2	4 1/2		5 1/2	7	
	s	1 3/16	1 3/16	1 3/16	1 3/4	2 1/4			
Height (H4) [inch]	Standard H max.	17 5/16	17 5/16	17 5/16	20 11/32	22 11/16	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

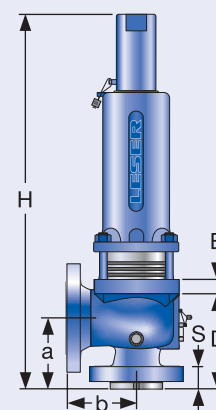
Lifting device	H2	H3	H4	H3
Bonnet	closed	closed	closed	open
WCB 1.0619, WC6 1.7357, LCB	2	3	4	5
CF8M 1.4408	2	-	4	-



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 <sub>0</sub> [mm]	14	14	14	14	14	14	14
Actual Orifice area A <sub>0</sub> [mm <sup>2</sup> ]	154	154	154	154	154	154	154

#### Body material: WCB 1.0619

Temperature range		Pressure range p [bar] S/G/L						
<b>Maximum set pressure</b>	-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
<b>Outlet pressure limit</b> Conventional design		19,7		19,7	19,7		41,4	51,0
<b>Outlet pressure limit</b> Balanced bellows design		15,9		15,9	15,9		34,5	34,5

#### Body material: CF8M 1.4408

Temperature range		Pressure range p [bar] S/G/L						
<b>Maximum set pressure</b>	-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
<b>Outlet pressure limit</b> Conventional design		19,0		19,0	19,0		41,4	49,7
<b>Outlet pressure limit</b> Balanced bellows design		15,9		15,9	15,9		34,5	34,5

#### Body material: WC6 1.7357

Temperature range		Pressure range p [bar] S/G/L						
<b>Maximum set pressure</b>	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
<b>Outlet pressure limit</b> Conventional design		-	-	19,7	19,7		41,4	51,0
<b>Outlet pressure limit</b> Balanced bellows design		-	-	15,9	15,9		34,5	34,5

#### Body material: LCB

Temperature range		Pressure range p [bar] S/G/L						
<b>Maximum set pressure</b>	-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
<b>Outlet pressure limit</b> Conventional design		19,7		19,7	19,7		41,4	51,0
<b>Outlet pressure limit</b> Balanced bellows design		15,9		15,9	15,9		34,5	34,5

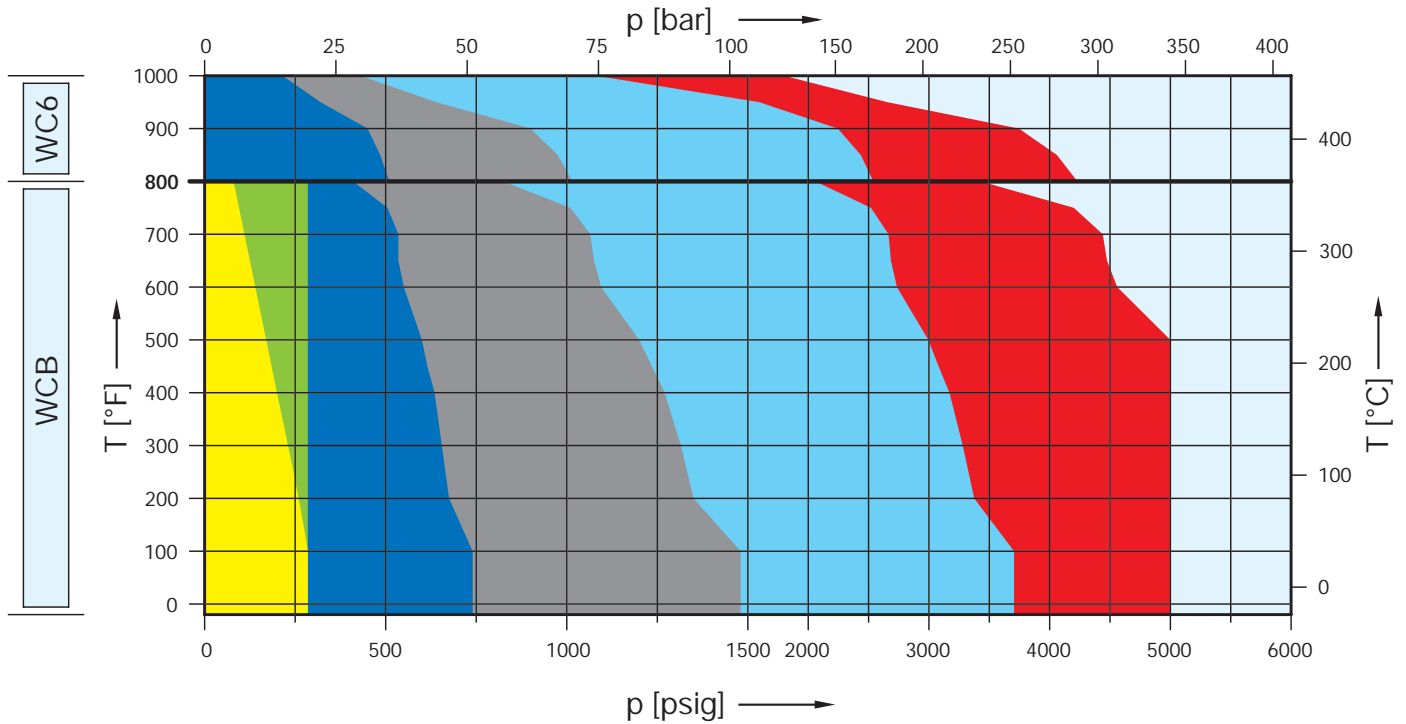
Remark: SA 352 Gr. LCB is not listed in the API 526. Pressure-Temperature Rating acc. to ASME B16.34 Table 2-1.3  
The stated Pressure-Temperature Rating are taken from ASME B16.34 Table 2-1.3

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.

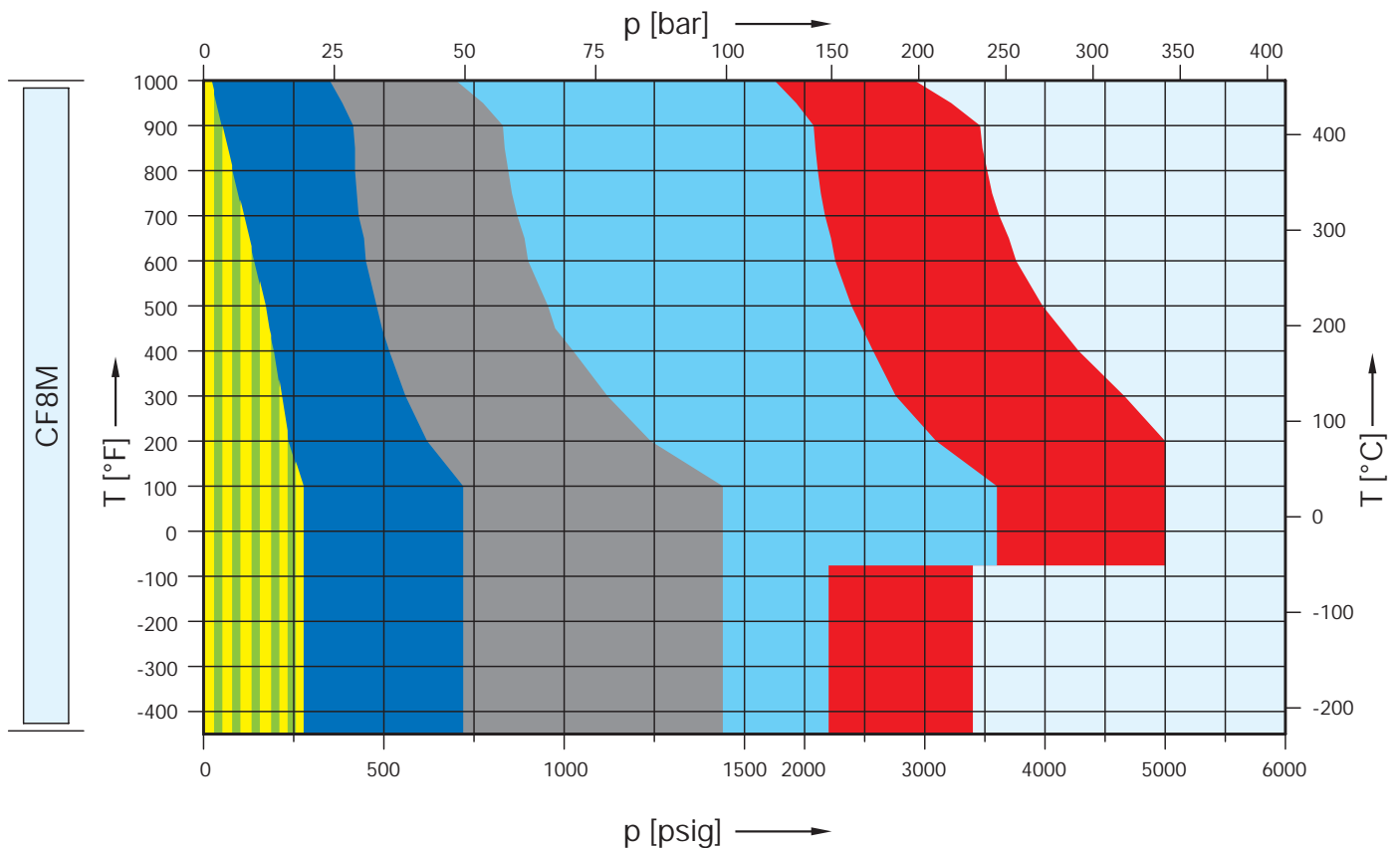


## Selection chart

	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	-	5262.033X	5262.034X
WC6	-	-	5267.035X	5267.036X	-	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	-	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 <sub>0</sub> [mm]	18	18	18	18	18	18	18
Actual Orifice area A <sub>0</sub> [mm <sup>2</sup> ]	254	254	254	254	254	254	254
Body material							
WCB 1.0619	Art.-No. 5262.029 <sup>m)</sup>	5262.030 <sup>m)</sup>	5262.031 <sup>m)</sup>	5262.032 <sup>m)</sup>	Use 1 1/2 F 3 1500 x 300	5262.033 <sup>m)</sup>	5262.034 <sup>m)</sup>
CF8M 1.4408	Art.-No. 5264.039 <sup>m)</sup>	5264.040 <sup>m)</sup>	5264.041 <sup>m)</sup>	5264.042 <sup>m)</sup>		5264.043 <sup>m)</sup>	5264.044 <sup>m)</sup>
WC6 1.7357	Art.-No. -	-	5267.035 <sup>m)</sup>	5267.036 <sup>m)</sup>		5267.037 <sup>m)</sup>	5267.038 <sup>m)</sup>
LCB	Art.-No. 5263.510 <sup>m)</sup>	5263.511 <sup>m)</sup>	5263.512 <sup>m)</sup>	5263.513 <sup>m)</sup>		5263.514 <sup>m)</sup>	5263.515 <sup>m)</sup>

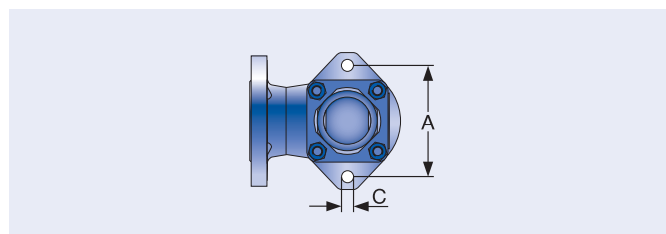
<sup>m)</sup> Please add code for the required cap or lifting device. See below.

### Dimensions and weights

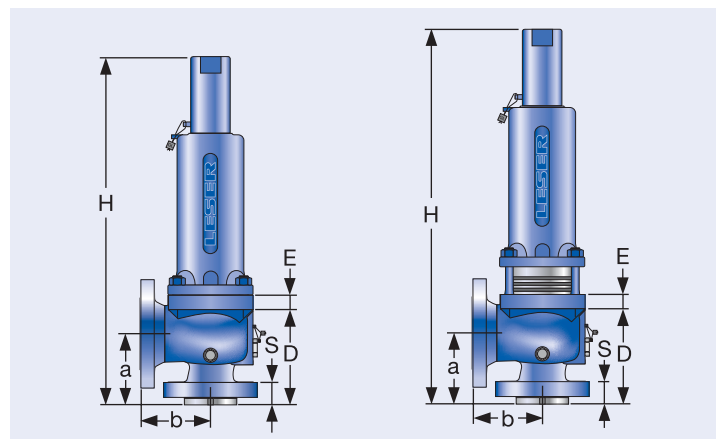
Metric Units								
Weight [kg]		30,6	30,6	32,5	32,5	Use 1 1/2 F 3 1500 x 300	36,3	41,8
	with bellows	33,1	33,1	35	35		38,6	44,6
Center to face [mm]	Inlet a	124	124	124	124		124	140
	Outlet b	121	121	152	152		165	178
	s	32	32	35	35	44	57	
Height (H4) [mm]	Standard H max.	536	536	536	536	560	576	
	Bellows 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 <sub>0</sub> [mm]	18	18	18	18	18	18	18
Actual Orifice area A <sub>0</sub> [mm <sup>2</sup> ]	254	254	254	254	254	254	254

#### Body material: WCB 1.0619

Temperature range		Pressure range p [bar] S/G/L						
<b>Maximum set pressure</b>	-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
<b>Outlet pressure limit</b> Conventional design		19,7	19,7	19,7	19,7	Use 1 1/2 F 3 1500 x 300	51,0	51,0
<b>Outlet pressure limit</b> Balanced bellows design		15,9	15,9	15,9	15,9		34,5	34,5

#### Body material: CF8M 1.4408

Temperature range		Pressure range p [bar] S/G/L						
<b>Maximum set pressure</b>	-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
<b>Outlet pressure limit</b> Conventional design		19,0	19,0	19,0	19,0	Use 1 1/2 F 3 1500 x 300	41,4	49,7
<b>Outlet pressure limit</b> Balanced bellows design		15,9	15,9	15,9	15,9		34,5	34,5

#### Body material: WC6 1.7357

Temperature range		Pressure range p [bar] S/G/L						
<b>Maximum set pressure</b>	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
<b>Outlet pressure limit</b> Conventional design		-	-	19,7	19,7	Use 1 1/2 F 3 1500 x 300	51,0	51,0
<b>Outlet pressure limit</b> Balanced bellows design		-	-	15,9	15,9		34,5	34,5

#### Body material: LCB

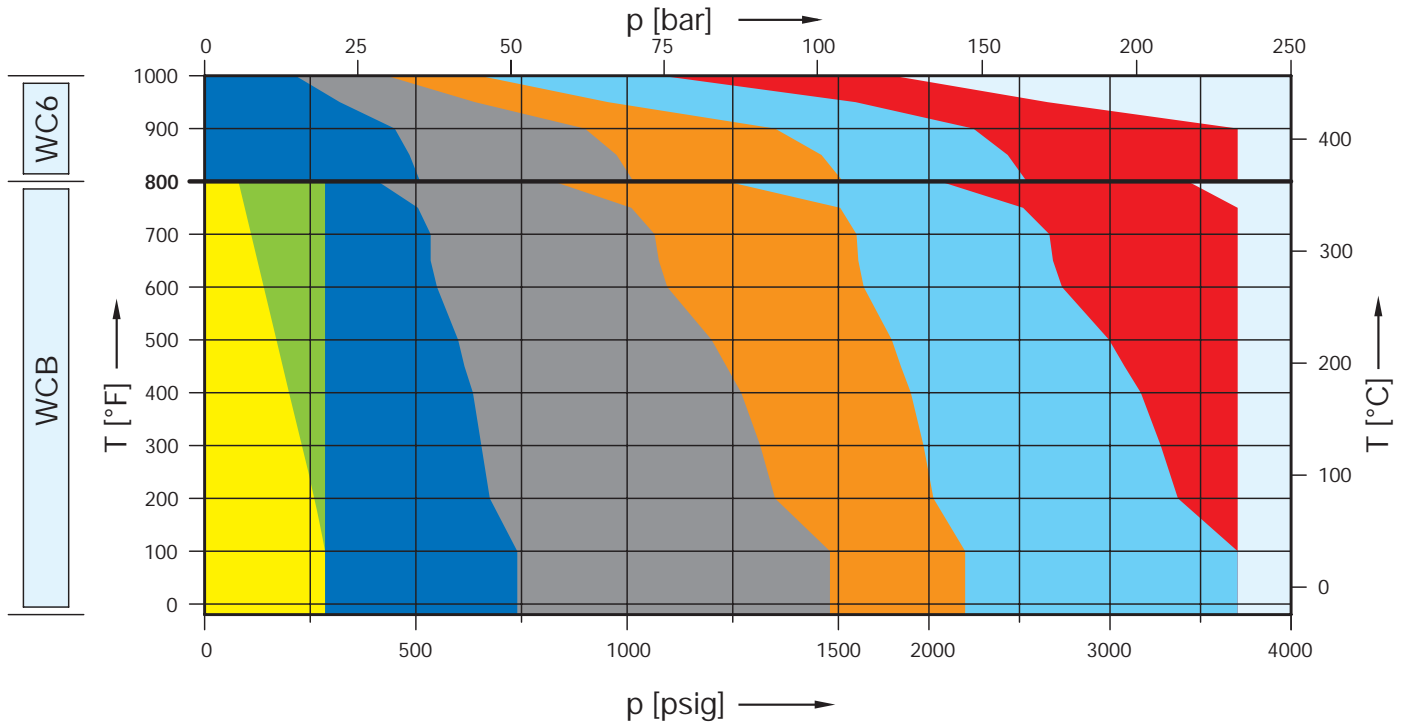
Temperature range		Pressure range p [bar] S/G/L						
<b>Maximum set pressure</b>	-46 to 38 °C	18,4	18,4	48,0	96,0	Use 1 1/2 F 3 1500 x 300	240,1	400,1
	39 to 200 °C	13,8	13,8	42,5	85,1		212,7	354,4
	201 to 343 °C	8,4	8,4	36,4	72,8		182,0	303,3
<b>Outlet pressure limit</b> Conventional design		19,7	19,7	19,7	19,7	Use 1 1/2 F 3 1500 x 300	51,0	51,0
<b>Outlet pressure limit</b> 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

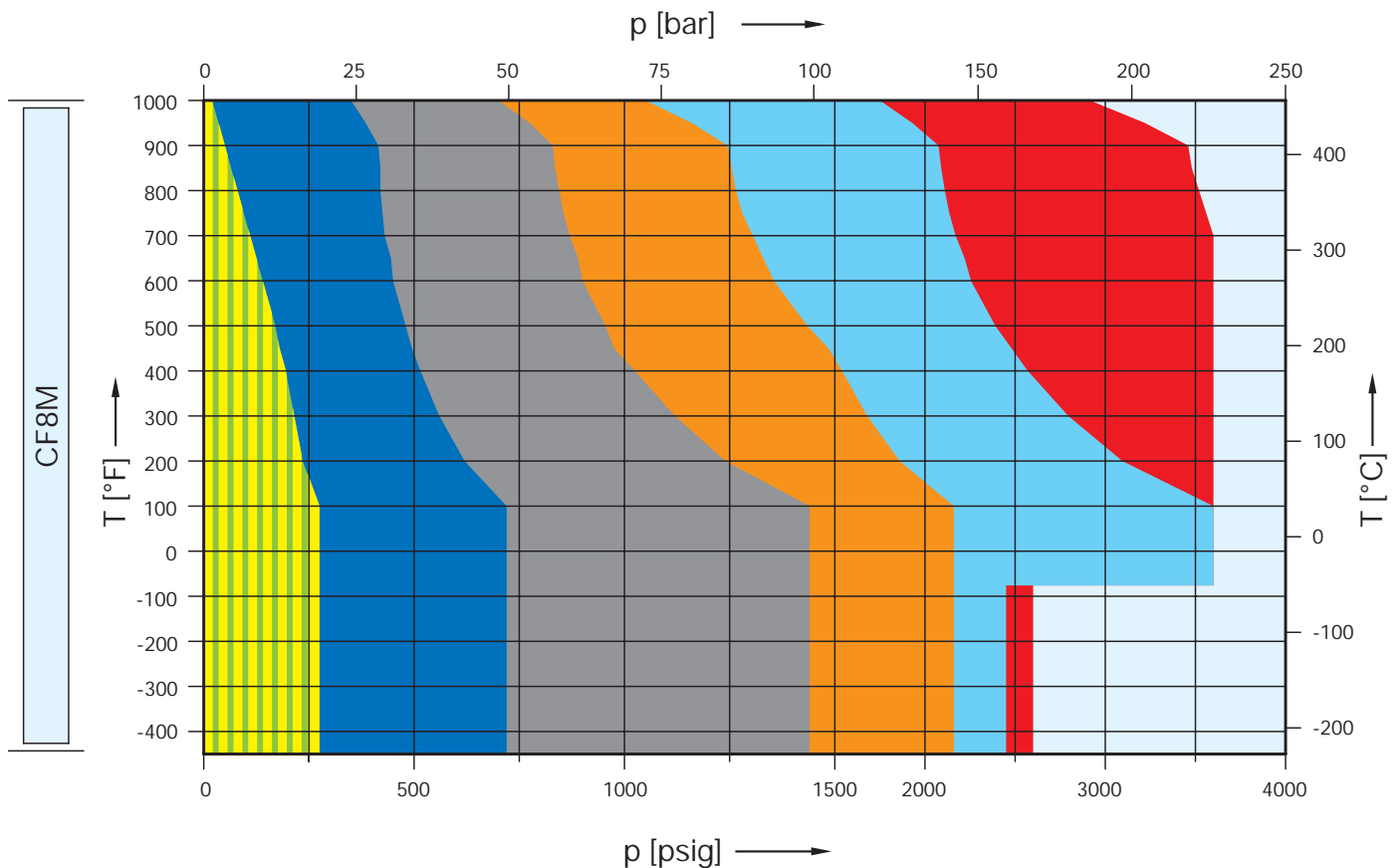
Due to the extended material test certificate the LESER LCB can be applied as LCC, WCB, WCC and 1.0619 with the respective pressure-temperature range as well.

## Selection chart

	150 x 150	300L x 150	300 x 150	600 x 150	900 x 300	1500 x 300	2500 x 300
WC6	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 <sub>0</sub> [mm]	22,5	22,5	22,5	22,5	22,5	22,5	22,5
Actual Orifice area A <sub>0</sub> [mm <sup>2</sup> ]	398	398	398	398	398	398	398
<b>Body material</b>							
WCB 1.0619	Art.-No. 5262.045 <sup>m)</sup>	5262.046 <sup>m)</sup>	5262.047 <sup>m)</sup>	5262.048 <sup>m)</sup>	5262.049 <sup>m)</sup>	5262.050 <sup>m)</sup>	5262.051 <sup>m)</sup>
CF8M 1.4408	Art.-No. 5264.110 <sup>m)</sup>	5264.111 <sup>m)</sup>	5264.112 <sup>m)</sup>	5264.113 <sup>m)</sup>	5264.114 <sup>m)</sup>	5264.115 <sup>m)</sup>	5264.116 <sup>m)</sup>
WC6 1.7357	Art.-No. -	-	5267.052 <sup>m)</sup>	5267.053 <sup>m)</sup>	5267.054 <sup>m)</sup>	5267.055 <sup>m)</sup>	5267.056 <sup>m)</sup>
LCB	Art.-No. 5263.516 <sup>m)</sup>	5263.517 <sup>m)</sup>	5263.518 <sup>m)</sup>	5263.519 <sup>m)</sup>	5263.520 <sup>m)</sup>	5263.521 <sup>m)</sup>	5263.522 <sup>m)</sup>

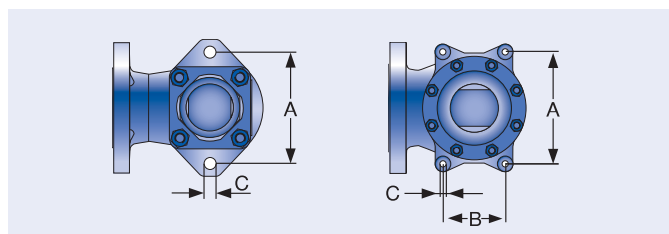
<sup>m)</sup> Please add code for the required cap or lifting device. See below.

### Dimensions and weights

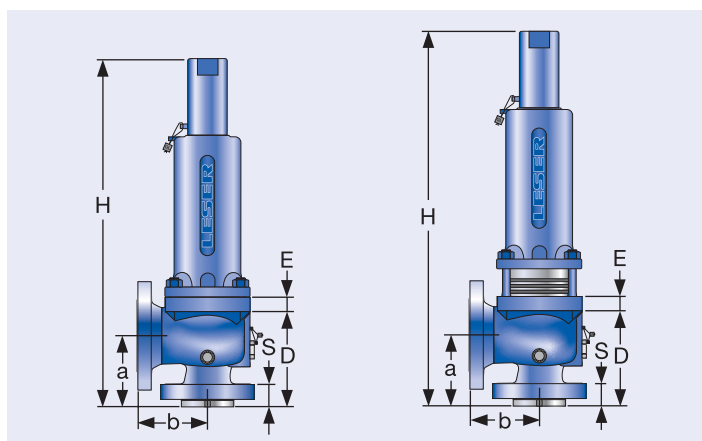
<b>Metric Units</b>								
<b>Weight</b> [kg]		30,6	30,6	32,5	32,5	36,3	69,9	69,9
	with bellows	33,1	33,1	35	35	38,6	72,5	72,5
<b>Center to face</b> [mm]	Inlet a	124	124	124	124	124	156	156
	Outlet b	121	121	152	152	165	172	172
	s	32	32	35	35	44	68	68
<b>Height (H4)</b> [mm]	Standard H max.	536	536	536	536	560	688	688
	Bellows H max.	574	574	574	574	573	705	705
<b>Support brackets</b> [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
<b>US Units</b>								
<b>Weight</b> [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
<b>Center to face</b> [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
<b>Height (H4)</b> [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
<b>Support brackets</b> [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 <sub>0</sub> [mm]	22,5	22,5	22,5	22,5	22,5	22,5	22,5
Actual Orifice area A <sub>0</sub> [mm <sup>2</sup> ]	398	398	398	398	398	398	398

#### Body material: WCB 1.0619

Temperature range		Pressure range p [bar] S/G/L						
<b>Maximum set pressure</b>	-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
<b>Outlet pressure limit</b> Conventional design		19,7	19,7	19,7	19,7	51,0	51,0	51,0
<b>Outlet pressure limit</b> Balanced bellows design		15,9	15,9	15,9	15,9	32,4	32,4	32,4

#### Body material: CF8M 1.4408

Temperature range		Pressure range p [bar] S/G/L						
<b>Maximum set pressure</b>	-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
<b>Outlet pressure limit</b> Conventional design		19,0	19,0	19,0	19,0	41,4	41,4	49,7
<b>Outlet pressure limit</b> Balanced bellows design		15,9	15,9	15,9	15,9	32,4	32,4	32,4

#### Body material: WC6 1.7357

Temperature range		Pressure range p [bar] S/G/L						
<b>Maximum set pressure</b>	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
<b>Outlet pressure limit</b> Conventional design		-	-	19,7	19,7	51,0	51,0	51,0
<b>Outlet pressure limit</b> Balanced bellows design		-	-	15,9	15,9	32,4	32,4	32,4

#### Body material: LCB

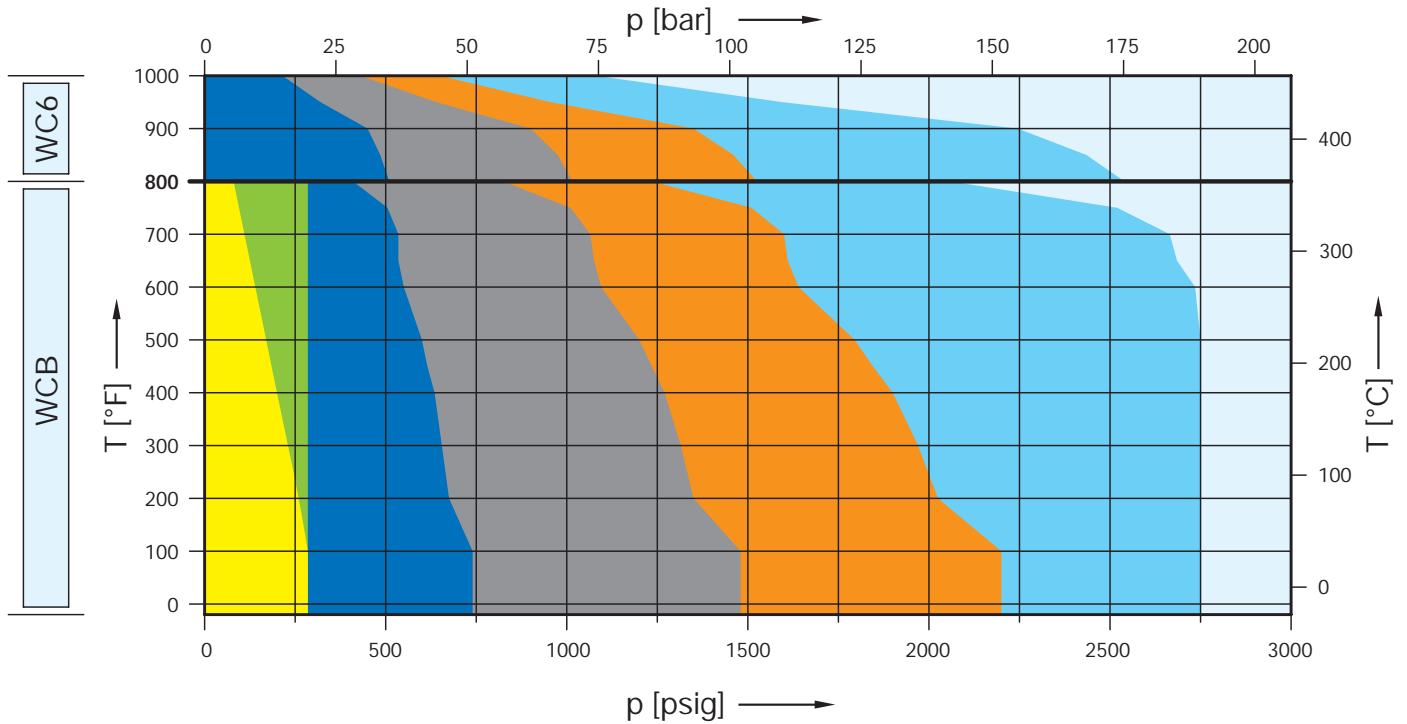
Temperature range		Pressure range p [bar] S/G/L						
<b>Maximum set pressure</b>	-46 to 38 °C	18,4	18,4	48,0	96,0	144,1	240,1	400,1
	39 to 200 °C	13,8	13,8	42,5	85,1	127,6	212,7	354,4
	201 to 343 °C	8,4	8,4	36,4	72,8	109,2	182,0	303,3
<b>Outlet pressure limit</b> Conventional design		19,7	19,7	19,7	19,7	51,0	51,0	51,0
<b>Outlet pressure limit</b> 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

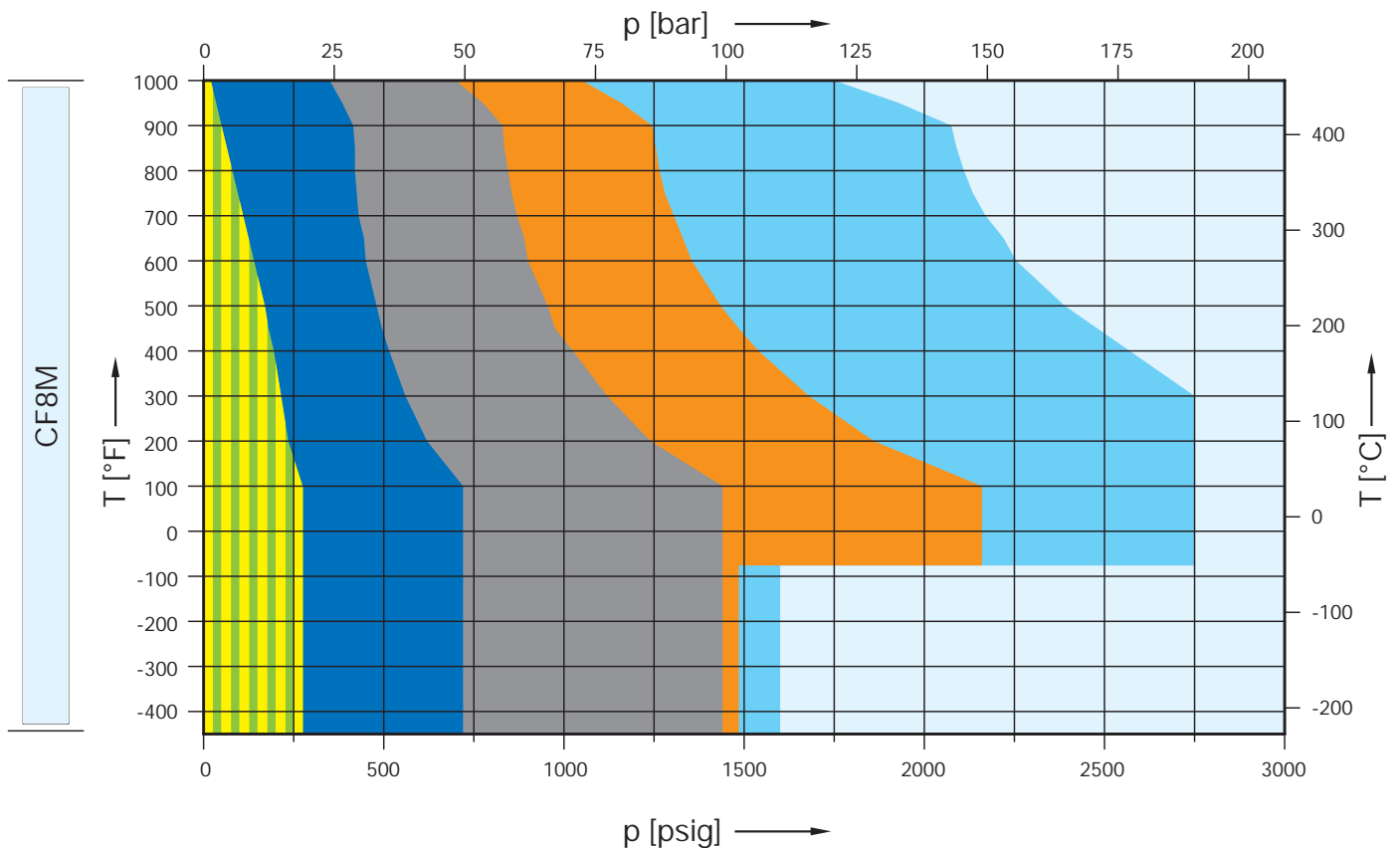
Due to the extended material test certificate the LESER LCB can be applied as LCC, WCB, WCC and 1.0619 with the respective pressure-temperature range as well.

## Selection chart

	150 x 150	300L x 150	300 x 150	600 x 150	900 x 150	1500 x 300	2500 x 300
WC6	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 <sub>0</sub> [mm]	28,3	28,3	28,3	28,3	28,3	28,3
Actual Orifice area A <sub>0</sub> [mm <sup>2</sup> ]	629	629	629	629	629	629

### Body material

WCB 1.0619	Art. -No.	5262.142 <sup>▫</sup>	5262.143 <sup>▫</sup>	5262.144 <sup>▫</sup>	5262.145 <sup>▫</sup>	5262.146 <sup>▫</sup>	5262.147 <sup>▫</sup>
CF8M 1.4408	Art. -No.	5264.152 <sup>▫</sup>	5264.153 <sup>▫</sup>	5264.154 <sup>▫</sup>	5264.155 <sup>▫</sup>	5264.156 <sup>▫</sup>	5264.157 <sup>▫</sup>
WC6 1.7357	Art. -No.	-	-	5267.148 <sup>▫</sup>	5267.149 <sup>▫</sup>	5267.150 <sup>▫</sup>	5267.151 <sup>▫</sup>
LCB	Art. -No.	5263.523 <sup>▫</sup>	5263.524 <sup>▫</sup>	5263.525 <sup>▫</sup>	5263.526 <sup>▫</sup>	5263.527 <sup>▫</sup>	5263.528 <sup>▫</sup>

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

### Dimensions and weights

#### Metric Units

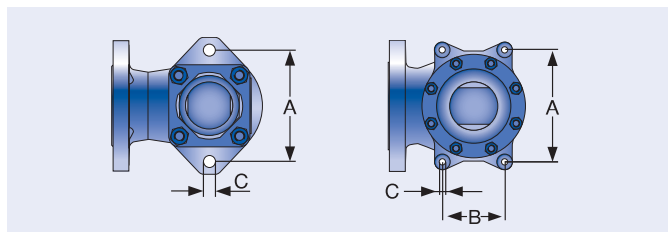
Weight [kg]		30,6	30,6	44,6	62,2	62,2	62,2
	with bellows	33,1	33,1	48,4	65,3	65,3	65,3
Center to face [mm]	Inlet a	130	130	130	154	154	154
	Outlet b	124	124	124	162	162	162
	s	38	38	43	56	56	56
Height (H4) [mm]	Standard H max.	542	542	666	691	691	691
	Bellows H max.	580	580	692	717	717	717
Support brackets [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

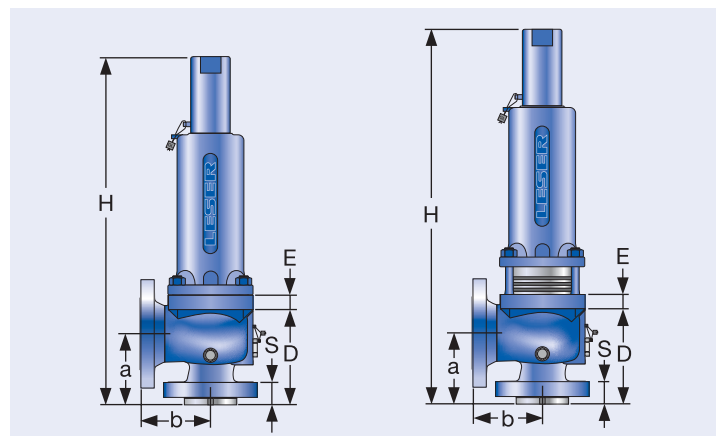
Weight [lbs]		67,5	67,5	98,3	137,2	137,2	137,2
	with bellows	73	73	106,7	144	144	144
Center to face [inch]	Inlet a	5 1/8	5 1/8	5 1/8	6 1/16	6 1/16	6 1/16
	Outlet b	4 7/8	4 7/8	4 7/8	6 3/8	6 3/8	6 3/8
	s	1 1/2	1 1/2	1 1/16	2 3/16	2 3/16	2 3/16
Height (H4) [inch]	Standard H max.	21 11/32	21 11/32	26 7/32	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



## Pressure temperature ratings

## Metric Units

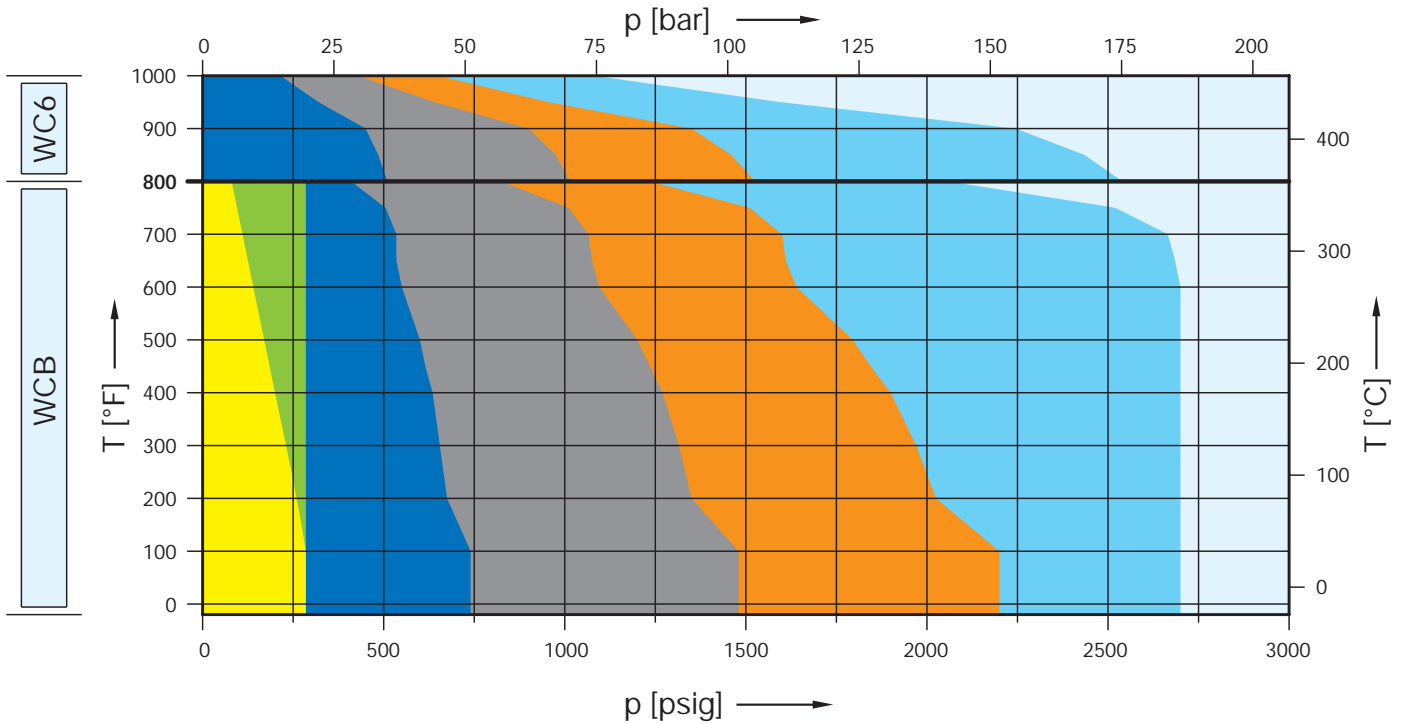
Valve size		1 1/2 H 3	1 1/2 H 3	2 H 3	2 H 3	2 H 3	2 H 3
Flange rating class Inlet x Outlet		150 x 150	300L x 150	300 x 150	600 x 150	900 x 150	1500 x 300
Actual Orifice diameter d <sub>0</sub> [mm]		28,3	28,3	28,3	28,3	28,3	28,3
Actual Orifice area A <sub>0</sub> [mm <sup>2</sup> ]		625	625	625	625	625	625
<b>Body material: WCB 1.0619</b>							
Temperature range		Pressure range p [bar] S/G/L					
<b>Maximum set pressure</b>	-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
<b>Outlet pressure limit</b> Conventional design		19,7	19,7	19,7	19,7	19,7	51,0
<b>Outlet pressure limit</b> Balanced bellows design		15,9	15,9	15,9	15,9	15,9	28,6
<b>Body material: CF8M 1.4408</b>							
Temperature range		Pressure range p [bar] S/G/L					
<b>Maximum set pressure</b>	-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
<b>Outlet pressure limit</b> Conventional design		19,0	19,0	19,0	19,0	41,4	41,4
<b>Outlet pressure limit</b> Balanced bellows design		15,9	15,9	15,9	15,9	15,9	28,6
<b>Body material: WC6 1.7357</b>							
Temperature range		Pressure range p [bar] S/G/L					
<b>Maximum set pressure</b>	233 to 427 °C	-	-	35,2	70,0	105,2	175,2
	428 to 538 °C	-	-	14,8	29,7	44,8	74,5
<b>Outlet pressure limit</b> Conventional design		-	-	19,7	19,7	19,7	51,0
<b>Outlet pressure limit</b> Balanced bellows design		-	-	15,9	15,9	15,9	28,6
<b>Body material: LCB</b>							
Temperature range		Pressure range p [bar] S/G/L					
<b>Maximum set pressure</b>	-46 to 38 °C	18,4	18,4	48,0	96,0	144,1	240,1
	39 to 200 °C	13,8	13,8	42,5	85,1	127,6	212,7
	201 to 343 °C	8,4	8,4	36,4	72,8	109,2	182,0
<b>Outlet pressure limit</b> Conventional design		19,7	19,7	19,7	19,7	19,7	51,0
<b>Outlet pressure limit</b> 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

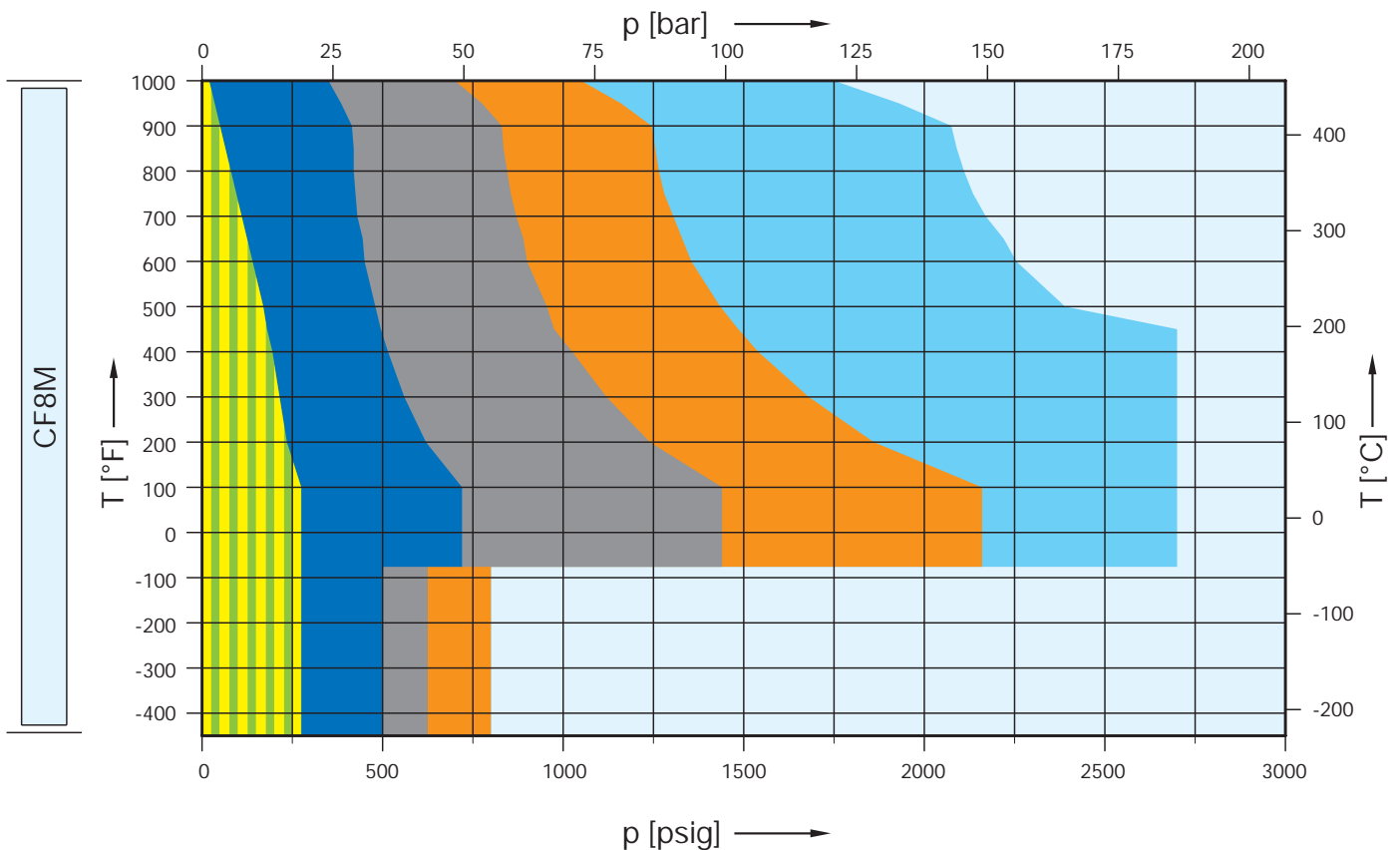
Due to the extended material test certificate the LESER LCB can be applied as LCC, WCB, WCC and 1.0619 with the respective pressure-temperature range as well.

## Selection chart

	150 x 150	300L x 150	300 x 150	600 x 150	900 x 150	1500 x 300	2500 x 300
WCB	5262.162X	5262.163X	5262.164X	5262.165X	5262.166X	5262.167X	-
WC6	-	-	5267.168X	5267.169X	5267.170X	5267.171X	-



	150 x 150	300L x 150	300 x 150	600 x 150	900 x 150	1500 x 300	2500 x 300
CF8M	5264.196X	5264.197X	5264.198X	5264.199X	5264.200X	5264.201X	-



## Article numbers, dimensions and weights

### Article numbers

Valve size	2 J 3	2 J 3	3 J 4	3 J 4	3 J 4	3 J 4
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 <sub>0</sub> [mm]	36	36	36	36	36	36
Actual Orifice area A <sub>0</sub> [mm <sup>2</sup> ]	1018	1018	1018	1018	1018	1018

### Body material

WCB 1.0619	Art.-No.	5262.162 <sup>▫</sup>	5262.163 <sup>▫</sup>	5262.164 <sup>▫</sup>	5262.165 <sup>▫</sup>	5262.166 <sup>▫</sup>	5262.167 <sup>▫</sup>
CF8M 1.4408	Art.-No.	5264.196 <sup>▫</sup>	5264.197 <sup>▫</sup>	5264.198 <sup>▫</sup>	5264.199 <sup>▫</sup>	5264.200 <sup>▫</sup>	5264.201 <sup>▫</sup>
WC6 1.7357	Art.-No.	-	-	5267.168 <sup>▫</sup>	5267.169 <sup>▫</sup>	5267.170 <sup>▫</sup>	5267.171 <sup>▫</sup>
LCB	Art.-No.	5263.529 <sup>▫</sup>	5263.530 <sup>▫</sup>	5263.531 <sup>▫</sup>	5263.532 <sup>▫</sup>	5263.533 <sup>▫</sup>	5263.534 <sup>▫</sup>

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

### Dimensions and weights

#### Metric Units

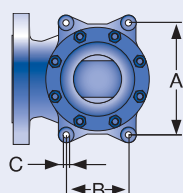
Weight [kg]		44,6	44,6	77,7	77,7	100,2	100,2
	with bellows	48,4	48,4	83,2	83,2	105,7	105,7
Center to face [mm]	Inlet a	137	137	184	184	184	184
	Outlet b	124	124	181	181	181	181
	s	49	49	49	49	65	65
Height (H4) [mm]	Standard H max.	673	673	786	786	786	786
	Bellows H max.	722	722	824	824	824	824
Support brackets [mm]	A	184	184	238	238	238	238
	B	110	110	140	140	140	140
	C	Ø 14	Ø 14	Ø 18	Ø 18	Ø 18	Ø 18
	D	184	184	234	234	234	234
	E	16	16	25	25	25	25

#### US Units

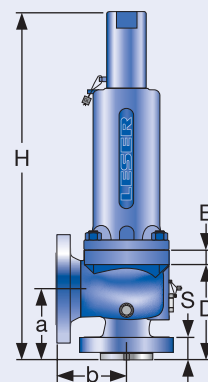
Weight [lbs]		98,3	98,3	171,3	171,3	220,9	220,9
	with bellows	106,7	106,7	183,5	183,5	233,1	233,1
Center to face [inch]	Inlet a	5 <sup>3</sup> / <sub>8</sub>	5 <sup>3</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>4</sub>
	Outlet b	4 <sup>7</sup> / <sub>8</sub>	4 <sup>7</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>8</sub>
	s	1 <sup>15</sup> / <sub>16</sub>	1 <sup>15</sup> / <sub>16</sub>	1 <sup>15</sup> / <sub>16</sub>	1 <sup>15</sup> / <sub>16</sub>	2 <sup>9</sup> / <sub>16</sub>	2 <sup>9</sup> / <sub>16</sub>
Height (H4) [inch]	Standard H max.	26 <sup>1</sup> / <sub>2</sub>	26 <sup>1</sup> / <sub>2</sub>	30 <sup>15</sup> / <sub>16</sub>	30 <sup>15</sup> / <sub>16</sub>	30 <sup>15</sup> / <sub>16</sub>	30 <sup>15</sup> / <sub>16</sub>
	Bellows H max.	28 <sup>7</sup> / <sub>16</sub>	28 <sup>7</sup> / <sub>16</sub>	32 <sup>7</sup> / <sub>16</sub>	32 <sup>7</sup> / <sub>16</sub>	32 <sup>7</sup> / <sub>16</sub>	32 <sup>7</sup> / <sub>16</sub>
Support brackets [inch]	A	7 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>4</sub>	9 <sup>3</sup> / <sub>8</sub>	9 <sup>3</sup> / <sub>8</sub>	9 <sup>3</sup> / <sub>8</sub>	9 <sup>3</sup> / <sub>8</sub>
	B	4 <sup>11</sup> / <sub>32</sub>	4 <sup>11</sup> / <sub>32</sub>	5 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>2</sub>
	C	Ø <sup>9</sup> / <sub>16</sub>	Ø <sup>9</sup> / <sub>16</sub>	Ø <sup>23</sup> / <sub>32</sub>	Ø <sup>23</sup> / <sub>32</sub>	Ø <sup>23</sup> / <sub>32</sub>	Ø <sup>23</sup> / <sub>32</sub>
	D	7 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>4</sub>	9 <sup>7</sup> / <sub>32</sub>	9 <sup>7</sup> / <sub>32</sub>	9 <sup>7</sup> / <sub>32</sub>	9 <sup>7</sup> / <sub>32</sub>
	E	<sup>5</sup> / <sub>8</sub>	<sup>5</sup> / <sub>8</sub>	<sup>31</sup> / <sub>32</sub>	<sup>31</sup> / <sub>32</sub>	<sup>31</sup> / <sub>32</sub>	<sup>31</sup> / <sub>32</sub>

### ▫ Code for lifting device

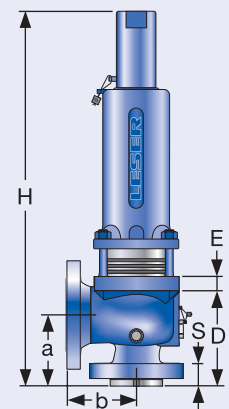
Lifting device	H2	H3	H4	H3
Bonnet	closed	closed	closed	open
WCB 1.0619, WC6 1.7357, LCB	2	3	4	5
CF8M 1.4408	2	-	4	-



Support brackets



Conventional design



Balanced bellows design

## Pressure temperature ratings

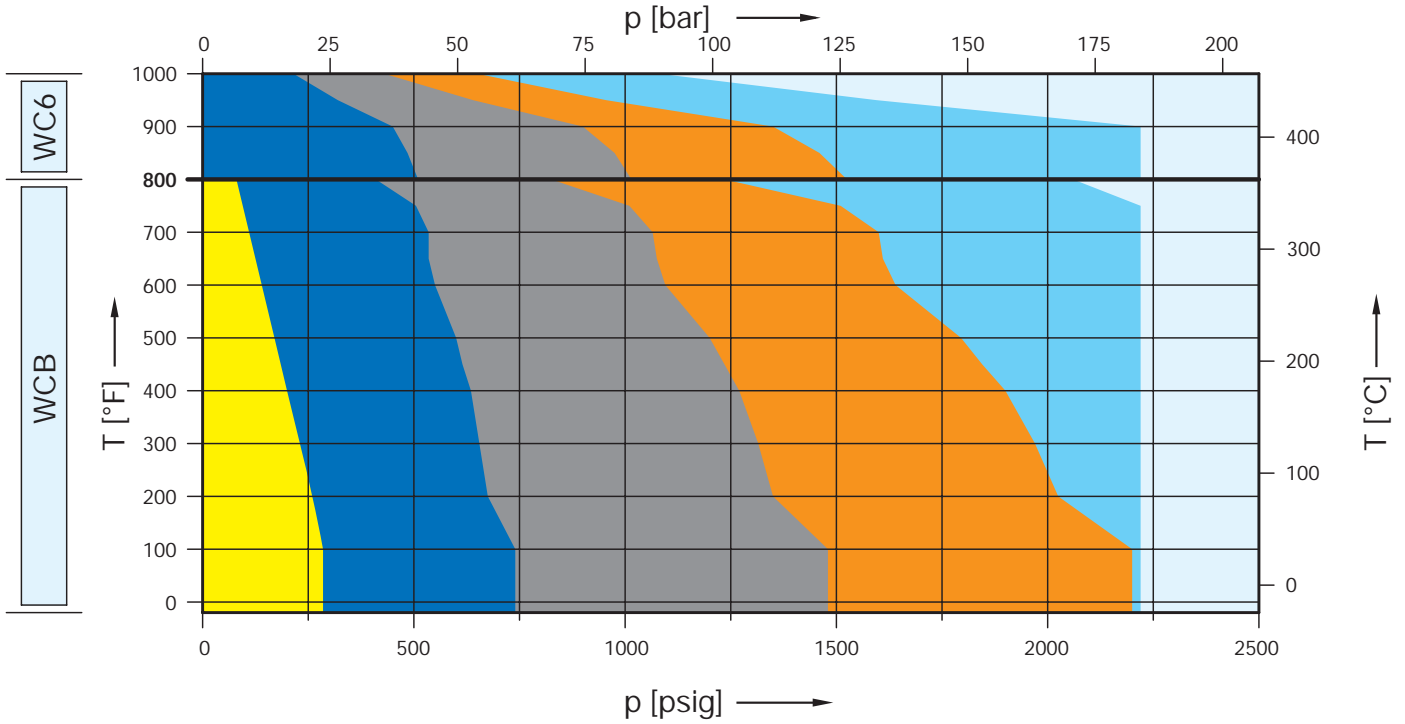
Metric Units							
Valve size		2 J 3	2 J 3	3 J 4	3 J 4	3 J 4	3 J 4
Flange rating class Inlet x Outlet		150 x 150	300L x 150	300 x 150	600 x 150	900 x 150	1500 x 300
Actual Orifice diameter d <sub>0</sub> [mm]		36	36	36	36	36	36
Actual Orifice area A <sub>0</sub> [mm <sup>2</sup> ]		1018	1018	1018	1018	1018	1018
Body material: WCB 1.0619							
Temperature range		Pressure range p [bar] S/G/L					
Maximum set pressure	-29 to 38 °C	19,7	19,7	51,0	102,1	153,1	186,2
	39 to 232 °C	12,8	19,7	42,4	85,2	127,2	186,2
	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	41,4
Outlet pressure limit Balanced bellows design		15,9	15,9	15,9	15,9	15,9	15,9
Body material: CF8M 1.4408							
Temperature range		Pressure range p [bar] S/G/L					
Maximum set pressure	-268 to -60 °C	19,0	19,0	34,5	43,1	55,2	55,2
	-59 to -29 °C	19,0	19,0	49,7	99,3	149,0	186,2
	-28 to 38 °C	19,0	19,0	49,7	99,3	149,0	186,2
	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	19,0	41,4
Outlet pressure limit Balanced bellows design		15,9	15,9	15,9	15,9	15,9	15,9
Body material: WC6 1.7357							
Temperature range		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	41,4
Outlet pressure limit Balanced bellows design		-	-	15,9	15,9	15,9	15,9
Body material: LCB							
Temperature range		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
	39 to 200 °C	13,8	13,8	42,5	85,1	127,6	212,7
	201 to 343 °C	8,4	8,4	36,4	72,8	109,2	182,0
Outlet pressure limit Conventional design		19,7	19,7	19,7	19,7	19,7	41,4
Outlet pressure limit Balanced bellows design		15,9	15,9	15,9	15,9	15,9	15,9

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

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.

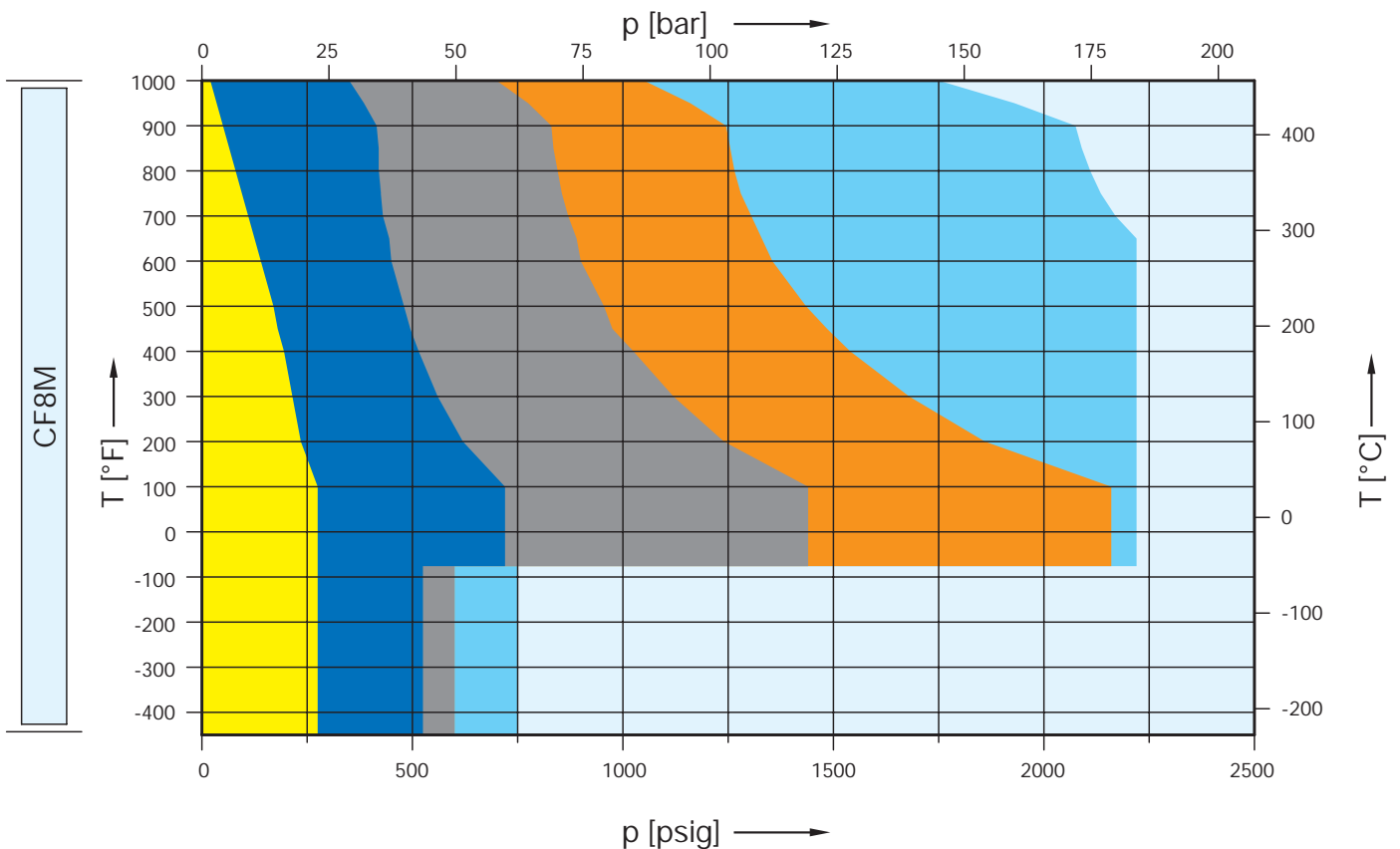
## Selection chart

	150 x 150	300L x 150	300 x 150	600 x 150	900 x 150	1500 x 300	2500 x 300
WC6	5262.202X	-	5262.203X	5262.204X	5262.205X	5262.206X	-
WC6	-	-	5267.207X	5267.208X	5267.209X	5267.210X	-



K

	150 x 150	300L x 150	300 x 150	600 x 150	900 x 150	1500 x 300	2500 x 300
CF8M	5264.211X	-	5264.212X	5264.213X	5264.214X	5264.215X	-



## Article numbers, dimensions and weights

### Article numbers

Valve size	3 K 4	3 K 4	3 K 4	3 K 4	3 K 6	3 K 6
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 <sub>0</sub> [mm]	43	43	43	43	43	43
Actual Orifice area A <sub>0</sub> [mm <sup>2</sup> ]	1452	1452	1452	1452	1452	1452

### Body material

WCB 1.0619	Art.-No.	5262.202 <sup>▫</sup>	Use 3 K 4 300 x 150	5262.203 <sup>▫</sup>	5262.204 <sup>▫</sup>	5262.205 <sup>▫</sup>	5262.206 <sup>▫</sup>
CF8M 1.4408	Art.-No.	5264.111 <sup>▫</sup>		5264.112 <sup>▫</sup>	5264.113 <sup>▫</sup>	5264.114 <sup>▫</sup>	5264.115 <sup>▫</sup>
WC6 1.7357	Art.-No.	-		5267.207 <sup>▫</sup>	5267.208 <sup>▫</sup>	5267.209 <sup>▫</sup>	5267.210 <sup>▫</sup>
LCB	Art.-No.	5263.535 <sup>▫</sup>		5263.536 <sup>▫</sup>	5263.537 <sup>▫</sup>	5263.538 <sup>▫</sup>	5263.539 <sup>▫</sup>

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

### Dimensions and weights

#### Metric Units

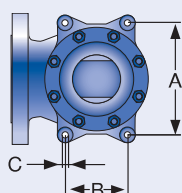
				Other	WC6			
Weight [kg]		70,1	Use 3 K 4 300 x 150	70,1	77,7	70,1	127,5	
	with bellows	75,7		75,7	83,2	75,7	134,1	
Center to face [mm]	Inlet a	156		156	184	156	198	197
	Outlet b	162		162	181	162	216	216
	s	49	49	49	49	67	65	
Height (H4) [mm]	Standard H max.	758	758	786	758	880	879	
	Bellows H max.	796	796	824	796	880	879	
Support brackets [mm]	A	238	238	238	238	278	278	
	B	140	140	140	140	160	160	
	C	Ø 18	Ø 18	Ø 18	Ø 18	Ø 18	Ø 18	
	D	206	206	234	206	288	287	
	E	25	25	25	25	25	25	

#### US Units

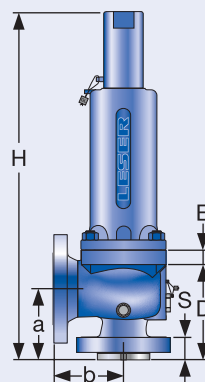
Weight [lbs]		154,6	Use 3 K 4 300 x 150	154,6	171,3	154,6	281,1	
	with bellows	166,9		166,9	183,5	166,9	295,7	
Center to face [inch]	Inlet a	6 1/8		6 1/8	7 1/4	6 1/8	7 13/16	7 3/4
	Outlet b	6 3/8		6 3/8	7 1/8	6 3/8	8 1/2	8 1/2
	s	1 15/16	1 15/16	1 15/16	1 15/16	2 9/16	2 9/16	
Height (H4) [inch]	Standard H max.	29 27/32	29 27/32	30 15/16	29 27/32	34 21/32	34 19/32	
	Bellows H max.	31 11/32	31 11/32	32 7/16	31 11/32	34 21/32	34 19/32	
Support brackets [inch]	A	9 3/8	9 3/8	9 3/8	9 3/8	10 15/16	10 15/16	
	B	5 1/2	5 1/2	5 1/2	5 1/2	6 5/16	6 5/16	
	C	Ø 23/32	Ø 23/32	Ø 23/32	Ø 23/32	Ø 23/32	Ø 23/32	
	D	8 3/32	8 3/32	9 7/32	8 3/32	11 11/32	11 9/32	
	E	31/32	31/32	31/32	31/32	31/32	31/32	

### ▫ Code for lifting device

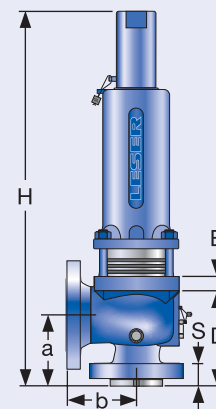
Lifting device	H2	H3	H4	H3
Bonnet	closed	closed	closed	open
WCB 1.0619, WC6 1.7357, LCB	2	3	4	5
CF8M 1.4408	2	-	4	-



Support brackets



Conventional design



Balanced bellows design

## Pressure temperature ratings

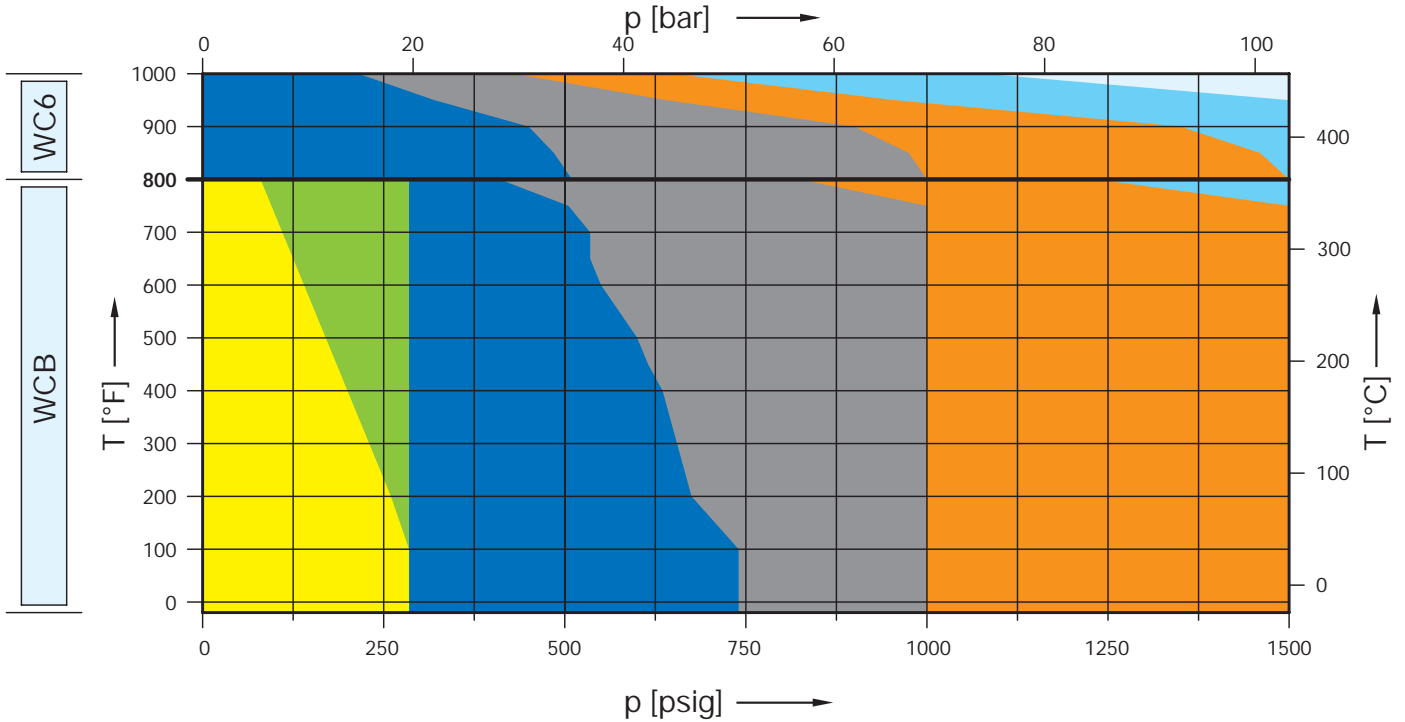
Metric Units							
Valve size	3 K 4	3 K 4	3 K 4	3 K 4	3 K 6	3 K 6	
Flange rating class Inlet x Outlet	150 x 150	300L x 150	300 x 150	600 x 150	900 x 150	1500 x 300	
Actual Orifice diameter d <sub>0</sub> [mm]	43	43	43	43	43	43	
Actual Orifice area A <sub>0</sub> [mm <sup>2</sup> ]	1452	1452	1452	1452	1452	1452	
<b>Body material: WCB 1.0619</b>							
Temperature range	Pressure range p [bar] S/G/L						
<b>Maximum set pressure</b>	-29 to 38 °C	19,7	Use 3 K 4 300 x 150	51,0	102,1	153,1	153,1
	39 to 232 °C	12,8		42,4	85,2	127,2	153,1
	233 to 427 °C	5,5		28,3	56,9	85,2	142,1
<b>Outlet pressure limit</b> Conventional design	19,7		19,7	19,7	19,7	41,4	
<b>Outlet pressure limit</b> Balanced bellows design	10,3		10,3	13,8	13,8	13,8	
<b>Body material: CF8M 1.4408</b>							
Temperature range	Pressure range p [bar] S/G/L						
<b>Maximum set pressure</b>	-268 to -60 °C	19,0	Use 3 K 4 300 x 150	36,2	41,4	41,4	51,7
	-59 to -29 °C	19,0		49,7	99,3	149,0	153,1
	-28 to 38 °C	19,0		49,7	99,3	149,0	153,1
	39 to 232 °C	12,4		34,1	67,2	102,4	171,0
	233 to 427 °C	5,5		29,0	58,3	87,2	145,5
	428 to 538 °C	1,4		24,1	48,3	72,4	120,7
<b>Outlet pressure limit</b> Conventional design	19,0		19,0	19,0	19,0	41,4	
<b>Outlet pressure limit</b> Balanced bellows design	10,3		10,3	13,8	13,8	13,8	
<b>Body material: WC6 1.7357</b>							
Temperature range	Pressure range p [bar] S/G/L						
<b>Maximum set pressure</b>	233 to 427 °C	-	-	35,2	70,0	105,2	153,1
	428 to 538 °C	-	-	14,8	29,7	44,8	74,5
<b>Outlet pressure limit</b> Conventional design	-	-	19,7	19,7	19,7	41,4	
<b>Outlet pressure limit</b> Balanced bellows design	-	-	10,3	13,8	13,8	13,8	
<b>Body material: LCB</b>							
Temperature range	Pressure range p [bar] S/G/L						
<b>Maximum set pressure</b>	-46 to 38 °C	18,4	Use 3 K 4 300 x 150	48,0	96,0	144,1	240,1
	39 to 200 °C	13,8		42,5	85,1	127,6	212,7
	201 to 343 °C	8,4		36,4	72,8	109,2	182,0
<b>Outlet pressure limit</b> Conventional design	19,7		19,7	19,7	19,7	41,4	
<b>Outlet pressure limit</b> Balanced bellows design	10,3		10,3	13,8	13,8	13,8	

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

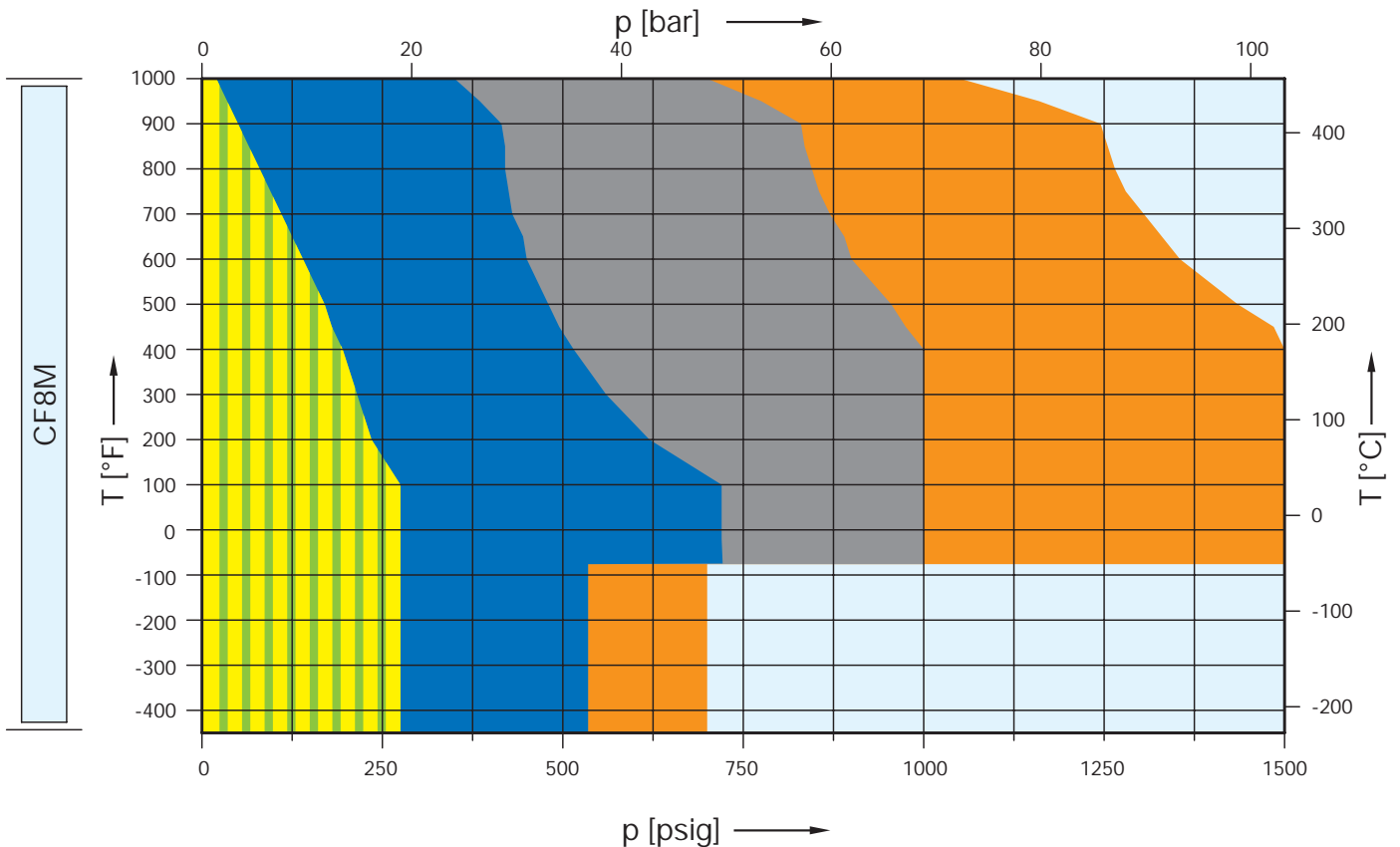
Due to the extended material test certificate the LESER LCB can be applied as LCC, WCB, WCC and 1.0619 with the respective pressure-temperature range as well.

## Selection chart

	150 x 150	300L x 150	300 x 150	600 x 150	900 x 150	1500 x 150	2500 x 300
WC6	5262.232X	5262.233X	5262.234X	5262.235X	5262.236X	5262.237X	-
WC6	-	-	5267.238X	5267.239X	5267.240X	5267.241X	-



	150 x 150	300L x 150	300 x 150	600 x 150	900 x 150	1500 x 150	2500 x 300
CF8M	5264.242X	5264.243X	5264.244X	5264.245X	5264.246X	-	-





## Article numbers, dimensions and weights

### Article numbers

Valve size	3 L 4	3 L 4	4 L 6	4 L 6	4 L 6	4 L 6
Flange rating class Inlet x Outlet	150 x 150	300L x 150	300 x 150	600 x 150	900 x 150	1500 x 150
Actual Orifice diameter d <sub>0</sub> [mm]	53,5	53,5	53,5	53,5	53,5	53,5
Actual Orifice area A <sub>0</sub> [mm <sup>2</sup> ]	2248	2248	2248	2248	2248	2248

### Body material

WCB 1.0619	Art.-No.	5262.232 <sup>▫</sup>	5262.233 <sup>▫</sup>	5262.234 <sup>▫</sup>	5262.235 <sup>▫</sup>	5262.236 <sup>▫</sup>	5262.237 <sup>▫</sup>
CF8M 1.4408	Art.-No.	5264.242 <sup>▫</sup>	5264.243 <sup>▫</sup>	5264.244 <sup>▫</sup>	5264.245 <sup>▫</sup>	5264.246 <sup>▫</sup>	-
WC6 1.7357	Art.-No.	-	-	5267.238 <sup>▫</sup>	5267.239 <sup>▫</sup>	5267.240 <sup>▫</sup>	5267.241 <sup>▫</sup>
LCB	Art.-No.	5263.540 <sup>▫</sup>	5263.541 <sup>▫</sup>	5263.542 <sup>▫</sup>	5263.543 <sup>▫</sup>	5263.544 <sup>▫</sup>	5263.545 <sup>▫</sup>

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

### Dimensions and weights

#### Metric Units

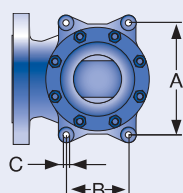
<b>Weight</b> [kg]		70,1	70,1	112,2	122	134,1	127,5
	with bellows	75,7	75,7	118,8	128,6	140,7	134,1
<b>Center to face</b> [mm]	Inlet a	156	156	179	179	197	197
	Outlet b	165	165	181	203	222	222
	s	49	49	49	57	72	72
<b>Height (H4)</b> [mm]	Standard H max.	758	758	853	853	871	871
	Bellows H max.	796	796	886	886	904	904
<b>Support brackets</b> [mm]	A	238	238	278	278	278	278
	B	140	140	160	160	160	160
	C	∅ 18	∅ 18	∅ 18	∅ 18	∅ 18	∅ 18
	D	206	206	262	262	280	280
	E	25	25	25	25	25	25

#### US Units

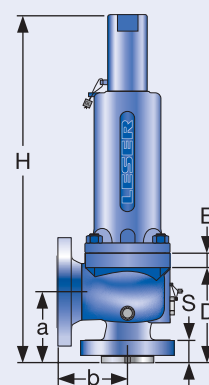
<b>Weight</b> [lbs]		154,6	154,6	247,4	269	295,7	281,1
	with bellows	166,9	166,9	262	283,6	310,2	295,7
<b>Center to face</b> [inch]	Inlet a	6 1/8	6 1/8	7 1/16	7 1/16	7 3/4	7 3/4
	Outlet b	6 1/2	6 1/2	7 1/8	8	8 3/4	8 3/4
	s	1 15/16	1 15/16	1 15/16	2 1/4	2 3/4	2 3/4
<b>Height (H4)</b> [inch]	Standard H max.	29 27/32	29 27/32	33 19/32	33 19/32	34 9/32	34 9/32
	Bellows H max.	31 11/32	31 11/32	34 7/8	34 7/8	35 19/32	35 19/32
<b>Support brackets</b> [inch]	A	9 3/8	9 3/8	10 15/16	10 15/16	10 15/16	10 15/16
	B	5 1/2	5 1/2	6 5/16	6 5/16	6 5/16	6 5/16
	C	∅ 23/32	∅ 23/32	∅ 23/32	∅ 23/32	∅ 23/32	∅ 23/32
	D	8 3/32	8 3/32	10 15/16	10 15/16	11	11
	E	31/32	31/32	31/32	31/32	31/32	31/32

### ▫ Code for lifting device

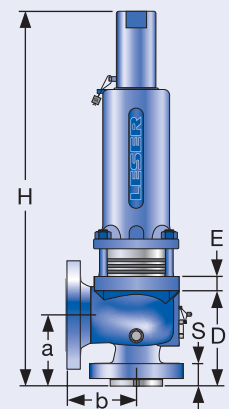
Lifting device	H2	H3	H4	H3
Bonnet	closed	closed	closed	open
WCB 1.0619, WC6 1.7357, LCB	2	3	4	5
CF8M 1.4408	2	-	4	-



Support brackets



Conventional design



Balanced bellows design

## Pressure temperature ratings

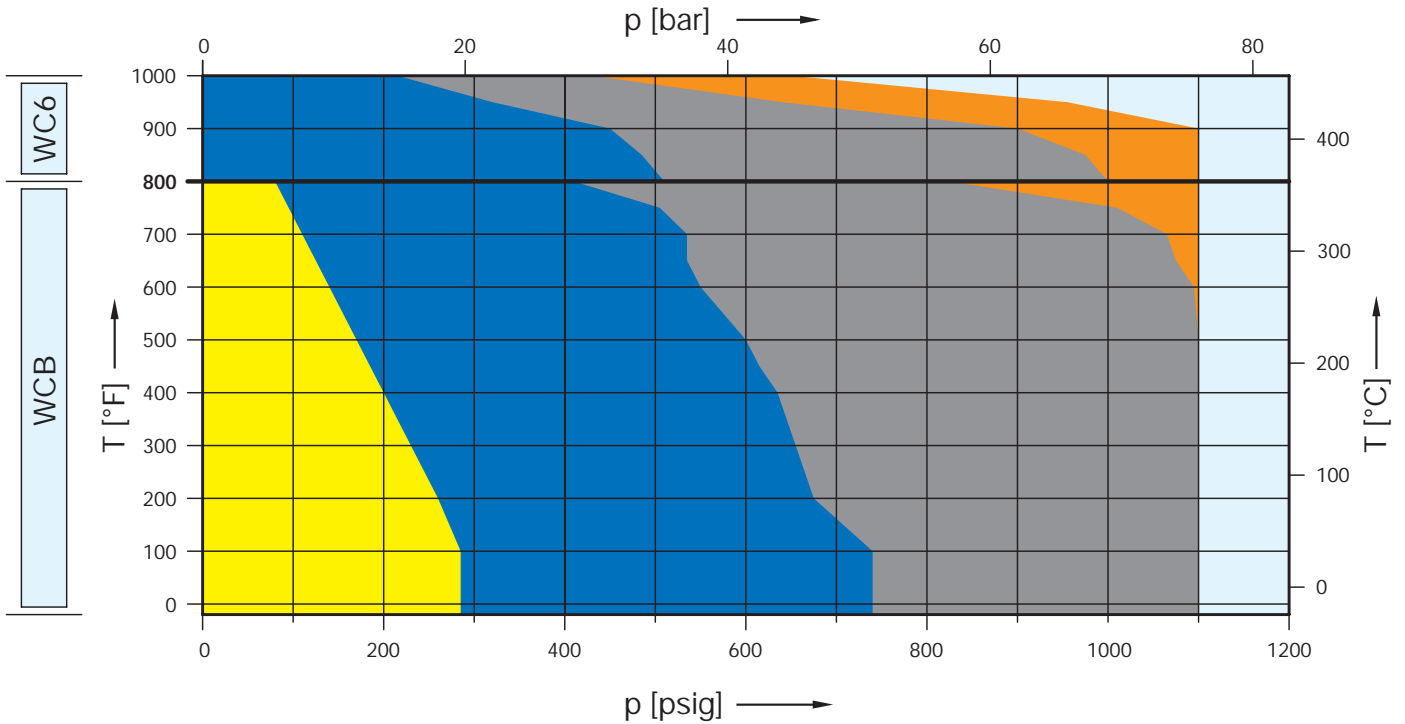
Metric Units							
Valve size		3 L 4	3 L 4	4 L 6	4 L 6	4 L 6	4 L 6
Flange rating class Inlet x Outlet		150 x 150	300L x 150	300 x 150	600 x 150	900 x 150	1500 x 150
Actual Orifice diameter d <sub>0</sub> [mm]		53,5	53,5	53,5	53,5	53,5	53,5
Actual Orifice area A <sub>0</sub> [mm <sup>2</sup> ]		2248	2248	2248	2248	2248	2248
Body material: WCB 1.0619							
Temperature range		Pressure range p [bar] S/G/L					
Maximum set pressure	-29 to 38 °C	19,7	19,7	51,0	69,0	103,4	-
	39 to 232 °C	12,8	19,7	42,4	69,0	103,4	-
	233 to 427 °C	5,5	19,7	28,3	56,9	85,2	103,4
Outlet pressure limit Conventional design		19,7	19,7	19,7	19,7	19,7	19,7
Outlet pressure limit Balanced bellows design		6,9	6,9	11,7	11,7	11,7	11,7
Body material: CF8M 1.4408							
Temperature range		Pressure range p [bar] S/G/L					
Maximum set pressure	-268 to -60 °C	19,0	19,0	36,2	36,9	48,3	-
	-59 to -29 °C	19,0	19,0	49,7	69,0	103,4	-
	-28 to 38 °C	19,0	19,0	49,7	69,0	103,4	-
	39 to 232 °C	12,4	12,4	34,1	67,2	102,4	-
	233 to 427 °C	5,5	5,5	29,0	58,3	87,2	-
	428 to 538 °C	1,4	1,4	24,1	48,3	72,4	-
Outlet pressure limit Conventional design		19,0	19,0	19,0	19,0	19,0	-
Outlet pressure limit Balanced bellows design		6,9	6,9	11,7	11,7	11,7	-
Body material: WC6 1.7357							
Temperature range		Pressure range p [bar] S/G/L					
Maximum set pressure	233 to 427 °C	-	-	35,2	69,0	103,4	103,4
	428 to 538 °C	-	-	14,8	29,7	44,8	74,5
Outlet pressure limit Conventional design		-	-	19,7	19,7	19,7	19,7
Outlet pressure limit Balanced bellows design		-	-	11,7	11,7	11,7	11,7
Body material: LCB							
Temperature range		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
	39 to 200 °C	13,8	13,8	42,5	85,1	127,6	212,7
	201 to 343 °C	8,4	8,4	36,4	72,8	109,2	182,0
Outlet pressure limit Conventional design		19,7	19,7	19,7	19,7	19,7	19,7
Outlet pressure limit Balanced bellows design		6,9	6,9	11,7	11,7	11,7	11,7

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

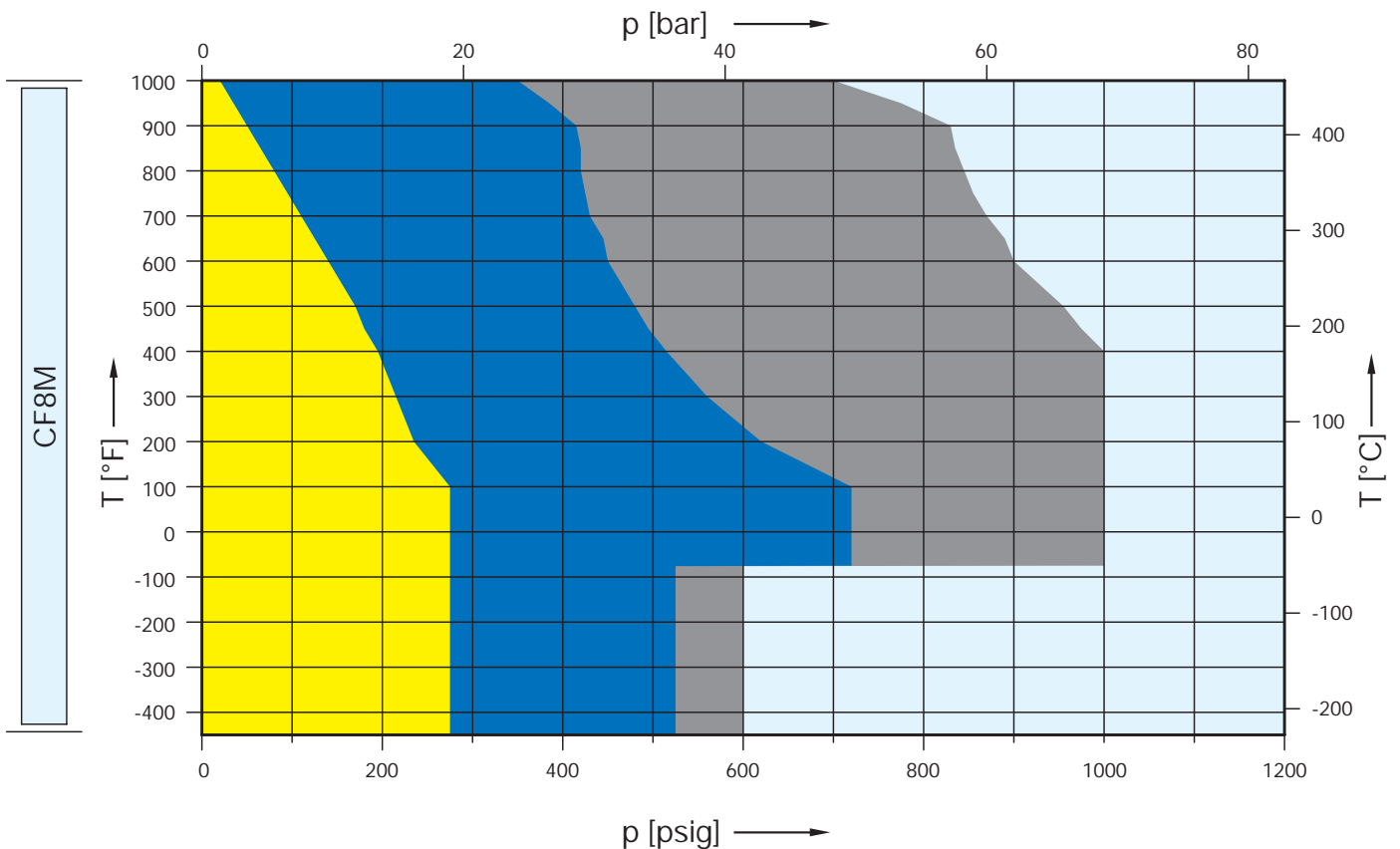
Due to the extended material test certificate the LESER LCB can be applied as LCC, WCB, WCC and 1.0619 with the respective pressure-temperature range as well.

## Selection chart

	150 x 150	300L x 150	300 x 150	600 x 150	900 x 150	1500 x 150	2500 x 300
WC6	5262.580X	-	5262.581X	5262.582X	5262.583X	-	-
WC6	-	-	5267.584X	5267.585X	5267.586X	-	-



	150 x 150	300L x 150	300 x 150	600 x 150	900 x 150	1500 x 150	2500 x 300
CF8M	5264.587X	-	5264.588X	5264.589X	-	-	-



## Article numbers, dimensions and weights

### Article numbers

Valve size	4 M 6	4 M 6	4 M 6	4 M 6	4 M 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 <sub>0</sub> [mm]	60,3	60,3	60,3	60,3	60,3
Actual Orifice area A <sub>0</sub> [mm <sup>2</sup> ]	2856	2856	2856	2856	2856

### Body material

Body material	Art.-No.	5262.580 <sup>2)</sup>	Use 4 M 6 300 x 150	5262.581 <sup>2)</sup>	5262.582 <sup>2)</sup>	5262.583 <sup>2)</sup>
WCB 1.0619	Art.-No.	5262.580 <sup>2)</sup>		5262.581 <sup>2)</sup>	5262.582 <sup>2)</sup>	5262.583 <sup>2)</sup>
CF8M 1.4408	Art.-No.	5264.587 <sup>2)</sup>		5264.588 <sup>2)</sup>	5264.589 <sup>2)</sup>	-
WC6 1.7357	Art.-No.	-		5267.584 <sup>2)</sup>	5267.585 <sup>2)</sup>	5267.586 <sup>2)</sup>
LCB	Art.-No.	5263.546 <sup>2)</sup>		5263.547 <sup>2)</sup>	5263.548 <sup>2)</sup>	5263.549 <sup>2)</sup>

<sup>2)</sup> Please add code for the required cap or lifting device. See below.

### Dimensions and weights

#### Metric Units

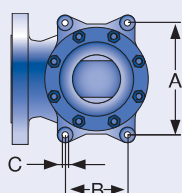
Weight [kg]		112,1	Use 4 M 6 300 x 150	112,1	122	134,1
	with bellows	118,7		118,7	128,6	134,1
Center to face [mm]	Inlet a	178		178	178	197
	Outlet b	184		184	203	222
	s	48		48	56	72
Height (H4) [mm]	Standard H max.	852		852	852	871
	Bellows H max.	885		885	885	904
Support brackets [mm]	A	278		278	278	278
	B	160		160	160	160
	C	Ø 18		Ø 18	Ø 18	Ø 18
	D	260		260	260	280
	E	25		25	25	25

#### US Units

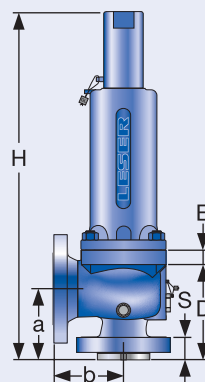
Weight [lbs]		247,2	Use 4 M 6 300 x 150	247,2	269	295,7
	with bellows	261,7		261,7	283,6	310,2
Center to face [inch]	Inlet a	7		7	7	7 <sup>3</sup> / <sub>4</sub>
	Outlet b	7 <sup>1</sup> / <sub>4</sub>		7 <sup>1</sup> / <sub>4</sub>	8	8 <sup>3</sup> / <sub>4</sub>
	s	1 <sup>7</sup> / <sub>8</sub>		1 <sup>7</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>4</sub>
Height (H4) [inch]	Standard H max.	33 <sup>17</sup> / <sub>32</sub>		33 <sup>17</sup> / <sub>32</sub>	33 <sup>17</sup> / <sub>32</sub>	33 <sup>17</sup> / <sub>32</sub>
	Bellows H max.	34 <sup>27</sup> / <sub>32</sub>		34 <sup>27</sup> / <sub>32</sub>	34 <sup>27</sup> / <sub>32</sub>	34 <sup>27</sup> / <sub>32</sub>
Support brackets [inch]	A	10 <sup>15</sup> / <sub>16</sub>		10 <sup>15</sup> / <sub>16</sub>	10 <sup>15</sup> / <sub>16</sub>	10 <sup>15</sup> / <sub>16</sub>
	B	6 <sup>5</sup> / <sub>16</sub>		6 <sup>5</sup> / <sub>16</sub>	6 <sup>5</sup> / <sub>16</sub>	6 <sup>5</sup> / <sub>16</sub>
	C	Ø <sup>23</sup> / <sub>32</sub>		Ø <sup>23</sup> / <sub>32</sub>	Ø <sup>23</sup> / <sub>32</sub>	Ø <sup>23</sup> / <sub>32</sub>
	D	10 <sup>1</sup> / <sub>4</sub>		10 <sup>1</sup> / <sub>4</sub>	10 <sup>1</sup> / <sub>4</sub>	11
	E	<sup>31</sup> / <sub>32</sub>		<sup>31</sup> / <sub>32</sub>	<sup>31</sup> / <sub>32</sub>	<sup>31</sup> / <sub>32</sub>

### Code for lifting device

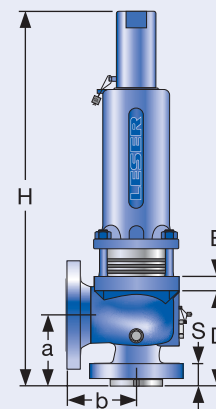
Lifting device	H2	H3	H4	H3
Bonnet	closed	closed	closed	open
WCB 1.0619, WC6 1.7357, LCB	2	3	4	5
CF8M 1.4408	2	-	4	-



Support brackets



Conventional design



Balanced bellows design

## Pressure temperature ratings

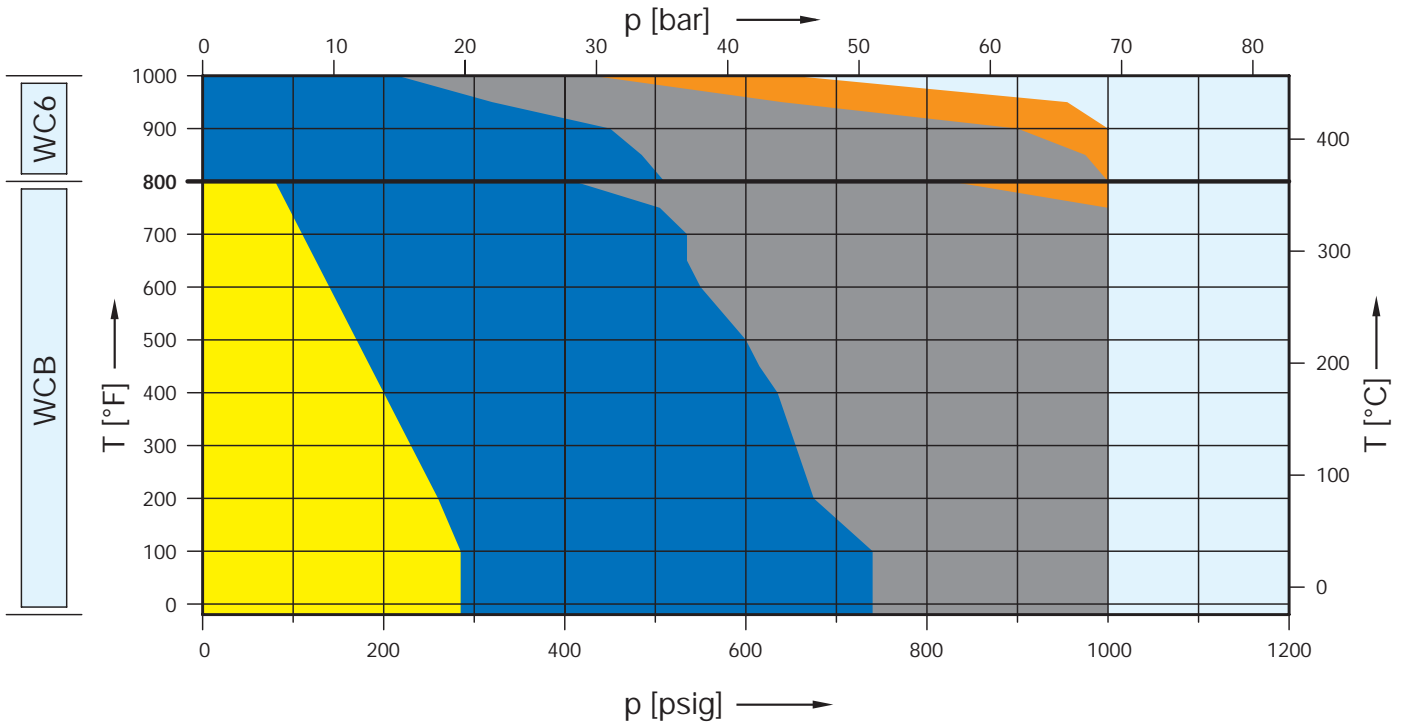
Metric Units						
Valve size		4 M 6	4 M 6	4 M 6	4 M 6	4 M 6
Flange rating class Inlet x Outlet		150 x 150	300L x 150	300 x 150	600 x 150	900 x 150
Actual Orifice diameter $d_0$ [mm]		60,3	60,3	60,3	60,3	60,3
Actual Orifice area $A_0$ [mm <sup>2</sup> ]		2846	2846	2846	2846	2846
<b>Body material: WCB 1.0619</b>						
Temperature range		Pressure range p [bar] S/G/L				
<b>Maximum set pressure</b>	-29 to 38 °C	19,7	Use 4 M 6 300 x 150	51,0	75,9	-
	39 to 232 °C	12,8		42,4	75,9	-
	233 to 427 °C	5,5		28,3	56,9	75,9
<b>Outlet pressure limit</b> Conventional design		19,7		19,7	19,7	19,7
<b>Outlet pressure limit</b> Balanced bellows design		5,5		11,0	11,0	11,0
<b>Body material: CF8M 1.4408</b>						
Temperature range		Pressure range p [bar] S/G/L				
<b>Maximum set pressure</b>	-268 to -60 °C	19,0	Use 4 M 6 300 x 150	36,2	41,4	-
	-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	-
<b>Outlet pressure limit</b> Conventional design		19,0	19,0	19,0	-	
<b>Outlet pressure limit</b> Balanced bellows design		5,5	11,0	11,0	-	
<b>Body material: WC6 1.7357</b>						
Temperature range		Pressure range p [bar] S/G/L				
<b>Maximum set pressure</b>	233 to 427 °C	-	Use 4 M 6 300 x 150	35,2	69,0	75,9
	428 to 538 °C	-		14,8	29,7	44,8
<b>Outlet pressure limit</b> Conventional design		-	19,7	19,7	19,7	
<b>Outlet pressure limit</b> Balanced bellows design		-	11,0	11,0	11,0	
<b>Body material: LCB</b>						
Temperature range		Pressure range p [bar] S/G/L				
<b>Maximum set pressure</b>	-46 to 38 °C	18,4	Use 4 M 6 300 x 150	48,0	96,0	144,1
	39 to 200 °C	13,8		42,5	85,1	127,6
	201 to 343 °C	8,4		36,4	72,8	109,2
<b>Outlet pressure limit</b> Conventional design		19,7	19,7	19,7	19,7	
<b>Outlet pressure limit</b> 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

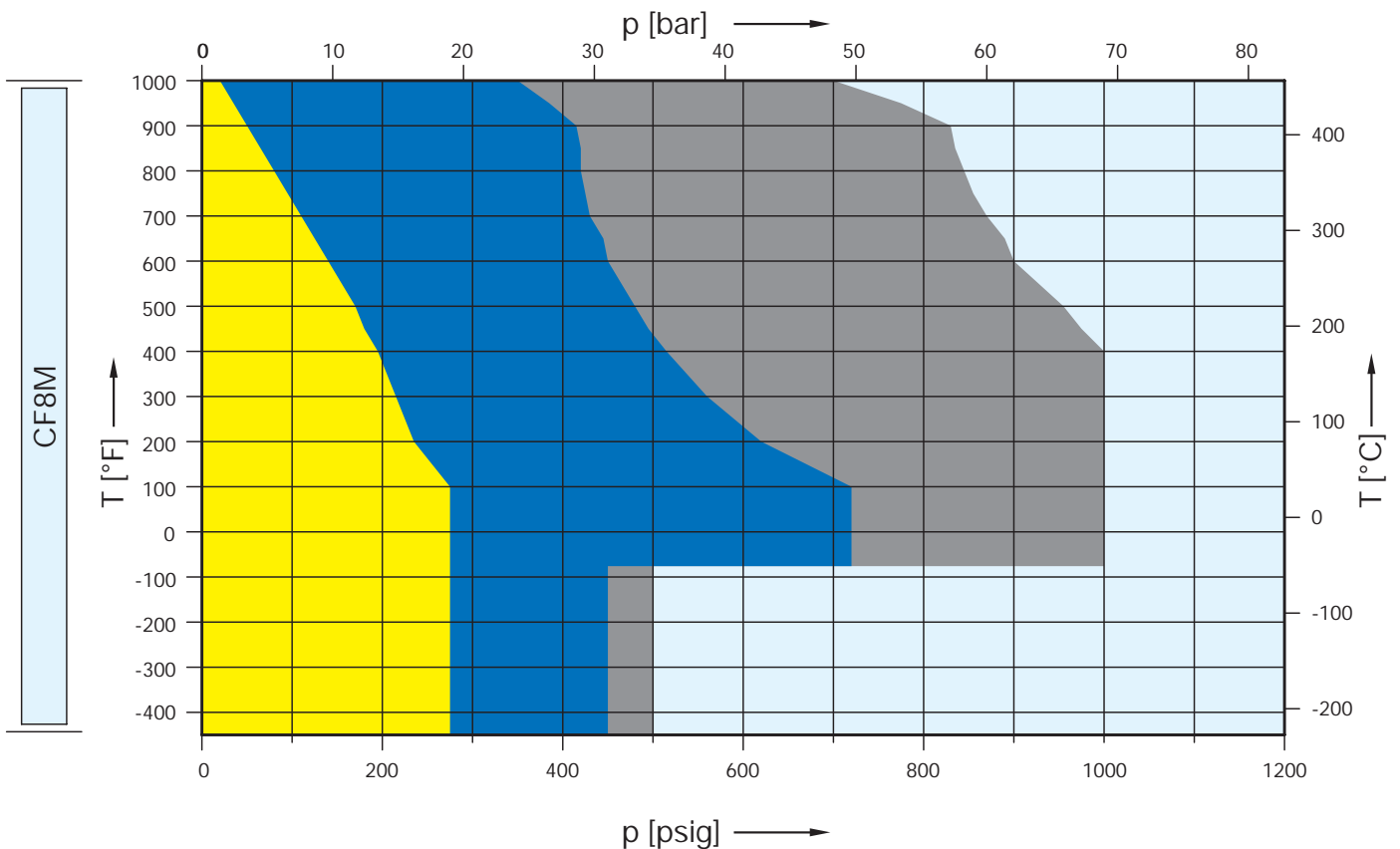
Due to the extended material test certificate the LESER LCB can be applied as LCC, WCB, WCC and 1.0619 with the respective pressure-temperature range as well.

## Selection chart

	150 x 150	300L x 150	300 x 150	600 x 150	900 x 150	1500 x 150	2500 x 300
WC6	5262.590X	-	5262.591X	5262.592X	5262.593X	-	-
WC6	-	-	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	-	5264.598X	5264.599X	-	-	-



## 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 <sub>0</sub> [mm]	66	66	66	66	66
Actual Orifice area A <sub>0</sub> [mm <sup>2</sup> ]	3421	3421	3421	3421	3421

### Body material

Material	Art.-No.	Weight	Weight	Weight	Weight
WCB 1.0619	Art.-No. 5262.590 <sup>2)</sup>	Use 4 N 6 300 x 150	5262.591 <sup>2)</sup>	5262.592 <sup>2)</sup>	5262.593 <sup>2)</sup>
CF8M 1.4408	Art.-No. 5264.597 <sup>2)</sup>		5264.598 <sup>2)</sup>	5264.599 <sup>2)</sup>	-
WC6 1.7357	Art.-No. -		5267.594 <sup>2)</sup>	5267.595 <sup>2)</sup>	5267.596 <sup>2)</sup>
LCB	Art.-No. 5263.550 <sup>2)</sup>		5263.551 <sup>2)</sup>	5263.552 <sup>2)</sup>	5263.553 <sup>2)</sup>

<sup>2)</sup> Please add code for the required cap or lifting device. See below.

### Dimensions and weights

#### Metric Units

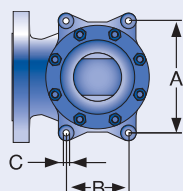
Parameter	Value	Value	Value	Value
Weight [kg]		128,6	128,6	134,1
	with bellows	135,2	135,2	140,7
Center to face [mm]	Inlet a	197	197	197
	Outlet b	210	210	222
	s	48	48	72
Height (H4) [mm]	Standard H max.	871	871	871
	Bellows H max.	904	904	904
Support brackets [mm]	A	278	278	278
	B	160	160	160
	C	Ø 18	Ø 18	Ø 18
	D	280	280	280
	E	25	25	25

#### US Units

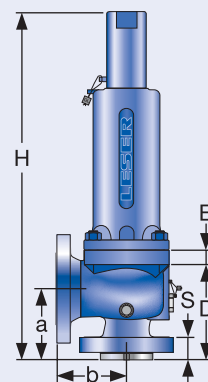
Parameter	Value	Value	Value	Value
Weight [lbs]		283,6	283,6	295,7
	with bellows	298,1	298,1	310,2
Center to face [inch]	Inlet a	7 <sup>3</sup> / <sub>4</sub>	7 <sup>3</sup> / <sub>4</sub>	7 <sup>3</sup> / <sub>4</sub>
	Outlet b	8 <sup>1</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>4</sub>	8 <sup>3</sup> / <sub>4</sub>
	s	1 <sup>7</sup> / <sub>8</sub>	1 <sup>7</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>4</sub>
Height (H4) [inch]	Standard H max.	34 <sup>9</sup> / <sub>32</sub>	34 <sup>9</sup> / <sub>32</sub>	34 <sup>9</sup> / <sub>32</sub>
	Bellows H max.	35 <sup>19</sup> / <sub>32</sub>	35 <sup>19</sup> / <sub>32</sub>	35 <sup>19</sup> / <sub>32</sub>
Support brackets [inch]	A	10 <sup>15</sup> / <sub>16</sub>	10 <sup>15</sup> / <sub>16</sub>	10 <sup>15</sup> / <sub>16</sub>
	B	6 <sup>5</sup> / <sub>16</sub>	6 <sup>5</sup> / <sub>16</sub>	6 <sup>5</sup> / <sub>16</sub>
	C	Ø <sup>23</sup> / <sub>32</sub>	Ø <sup>23</sup> / <sub>32</sub>	Ø <sup>23</sup> / <sub>32</sub>
	D	11	11	11
	E	<sup>31</sup> / <sub>32</sub>	<sup>31</sup> / <sub>32</sub>	<sup>31</sup> / <sub>32</sub>

### Code for lifting device

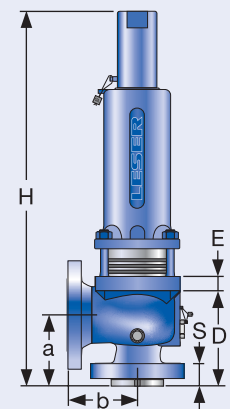
Lifting device	H2	H3	H4	H3
Bonnet	closed	closed	closed	open
WCB 1.0619, WC6 1.7357, LCB	2	3	4	5
CF8M 1.4408	2	-	4	-



Support brackets



Conventional design



Balanced bellows design

## Pressure temperature ratings

Metric Units						
Valve size		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 <sub>0</sub> [mm]		66	66	66	66	66
Actual Orifice area A <sub>0</sub> [mm <sup>2</sup> ]		3421	3421	3421	3421	3421
<b>Body material: WCB 1.0619</b>						
Temperature range		Pressure range p [bar] S/G/L				
<b>Maximum set pressure</b>	-29 to 38 °C	19,7	Use 4 N 6 300 x 150	51,0	69,0	-
	39 to 232 °C	12,8		42,4	69,0	-
	233 to 427 °C	5,5		28,3	56,9	69,0
<b>Outlet pressure limit</b> Conventional design		19,7		19,7	19,7	19,7
<b>Outlet pressure limit</b> Balanced bellows design		5,5		11,0	11,0	11,0
<b>Body material: CF8M 1.4408</b>						
Temperature range		Pressure range p [bar] S/G/L				
<b>Maximum set pressure</b>	-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	-
<b>Outlet pressure limit</b> Conventional design		19,0	19,0	19,0	-	
<b>Outlet pressure limit</b> Balanced bellows design		5,5	11,0	11,0	-	
<b>Body material: WC6 1.7357</b>						
Temperature range		Pressure range p [bar] S/G/L				
<b>Maximum set pressure</b>	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
<b>Outlet pressure limit</b> Conventional design		-	19,7	19,7	19,7	
<b>Outlet pressure limit</b> Balanced bellows design		-	11,0	11,0	11,0	
<b>Body material: LCB</b>						
Temperature range		Pressure range p [bar] S/G/L				
<b>Maximum set pressure</b>	-46 to 38 °C	18,4	Use 4 N 6 300 x 150	48,0	96,0	144,1
	39 to 200 °C	13,8		42,5	85,1	127,6
	201 to 343 °C	8,4		36,4	72,8	109,2
<b>Outlet pressure limit</b> Conventional design		19,7	19,7	19,7	19,7	
<b>Outlet pressure limit</b> Balanced bellows design		5,5	11,0	11,0	11,0	

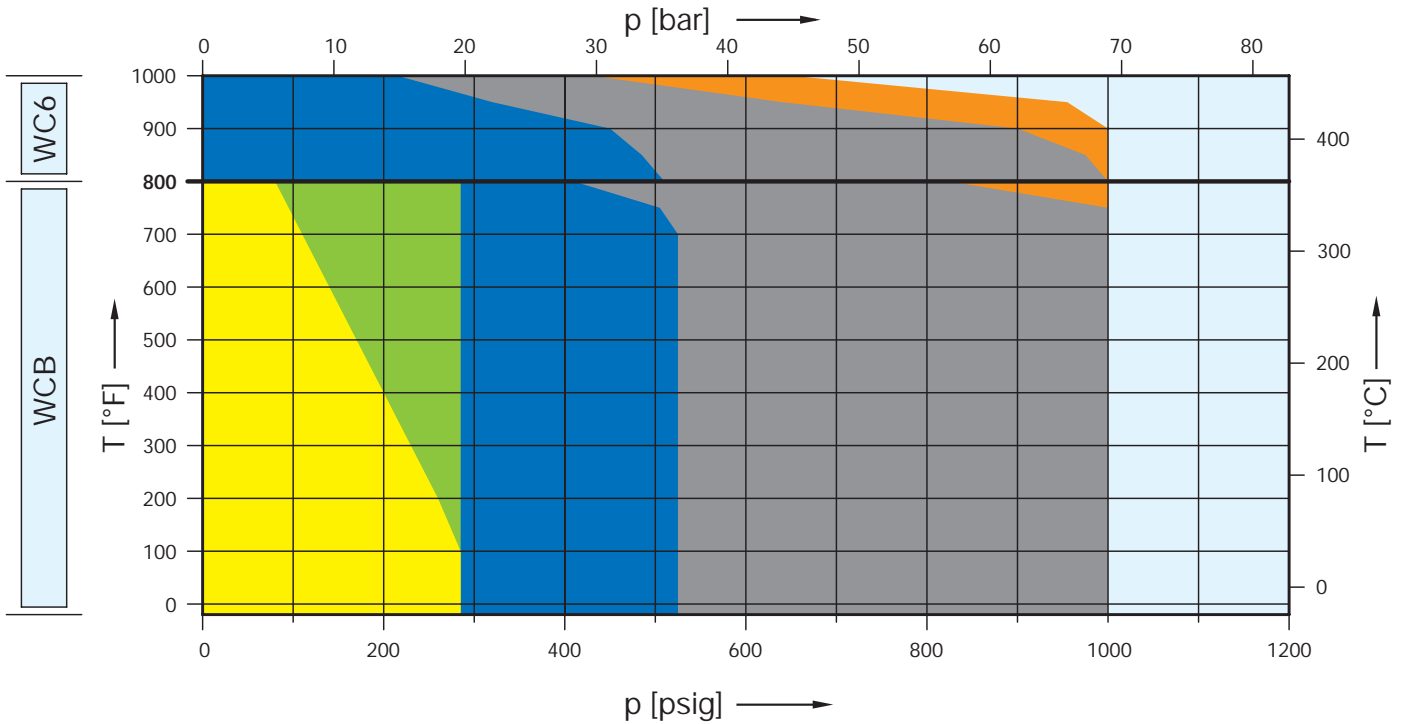
Remark: SA 352 Gr. LCB is not listed in the API 526. Pressure-Temperature Rating acc. to ASME B16.34 Table 2-1.3  
The stated Pressure-Temperature Rating are taken from ASME B16.34 Table 2-1.3

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.

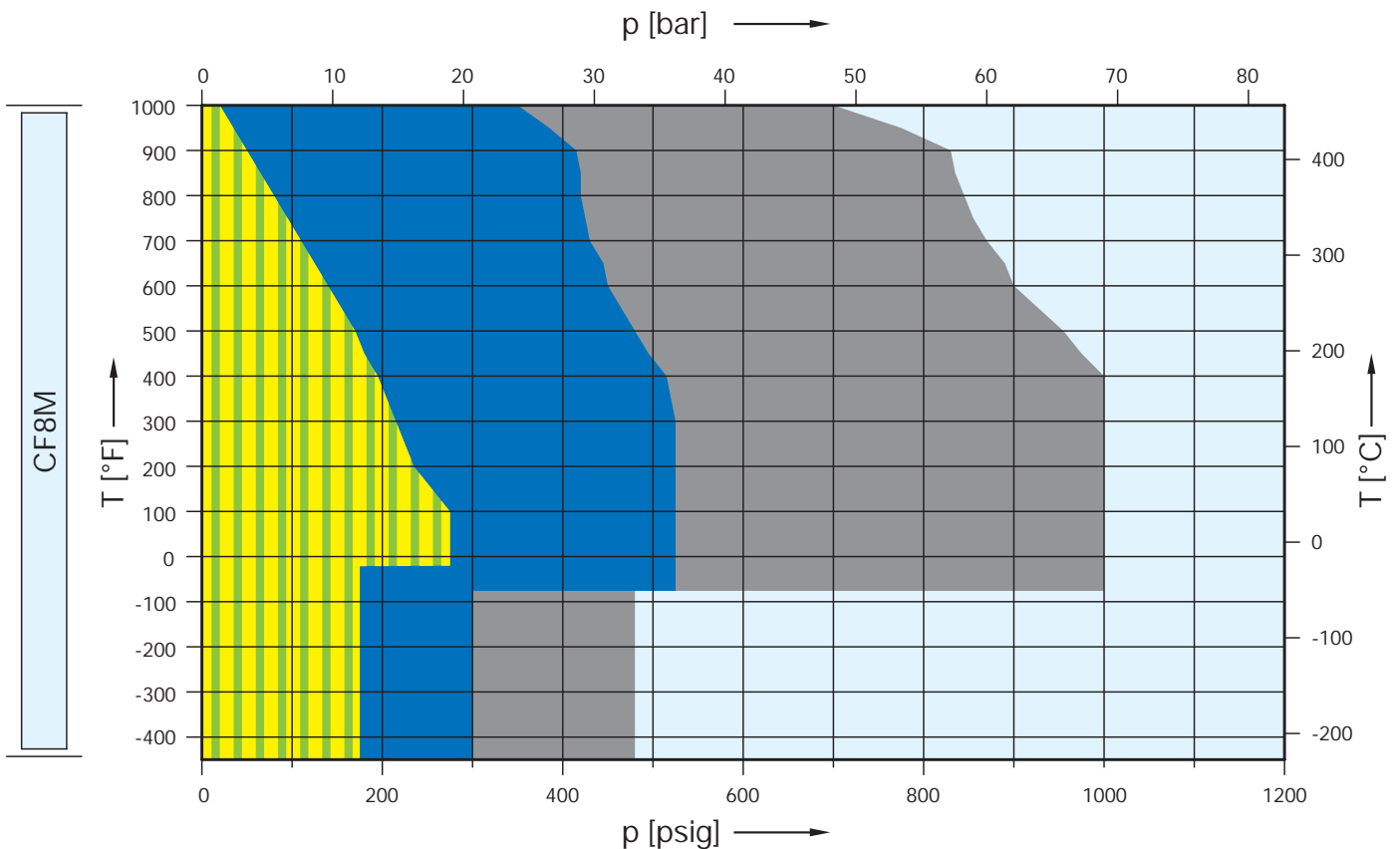


## Selection chart

	150 x 150	300L x 150	300 x 150	600 x 150	900 x 150	1500 x 150	2500 x 300
WC6	5262.645X	5262.646X	5262.647X	5262.648X	5262.649X	-	-
WC6	-	-	5267.650X	5267.651X	5267.652X	-	-



	150 x 150	300L x 150	300 x 150	600 x 150	900 x 150	1500 x 150	2500 x 300
CF8M	5264.653X	5264.654X	5264.655X	5264.656X	-	-	-



## Article numbers, dimensions and weights

### Article numbers

Valve size	4 P 6	4 P 6	4 P 6	4 P 6	4 P 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 <sub>0</sub> [mm]	80	80	80	80	80
Actual Orifice area A <sub>0</sub> [mm <sup>2</sup> ]	5027	5027	5027	5027	5027
Body material					
WCB 1.0619	Art.-No. 5262.645 <sup>▫</sup>	5262.646 <sup>▫</sup>	5262.647 <sup>▫</sup>	5262.648 <sup>▫</sup>	5262.649 <sup>▫</sup>
CF8M 1.4408	Art.-No. 5264.653 <sup>▫</sup>	5264.654 <sup>▫</sup>	5264.655 <sup>▫</sup>	5264.656 <sup>▫</sup>	-
WC6 1.7357	Art.-No. -	-	5267.550 <sup>▫</sup>	5267.551 <sup>▫</sup>	5267.552 <sup>▫</sup>
LCB	Art.-No. 5263.554 <sup>▫</sup>	5263.555 <sup>▫</sup>	5263.556 <sup>▫</sup>	5263.557 <sup>▫</sup>	5263.558 <sup>▫</sup>

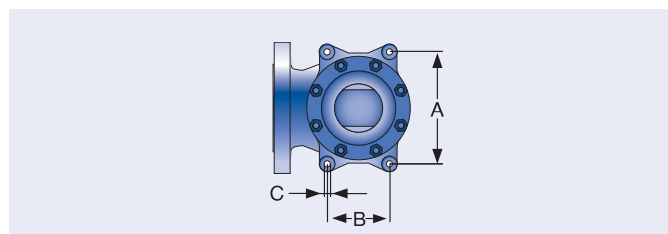
▫) Please add code for the required cap or lifting device. See below.

### Dimensions and weights

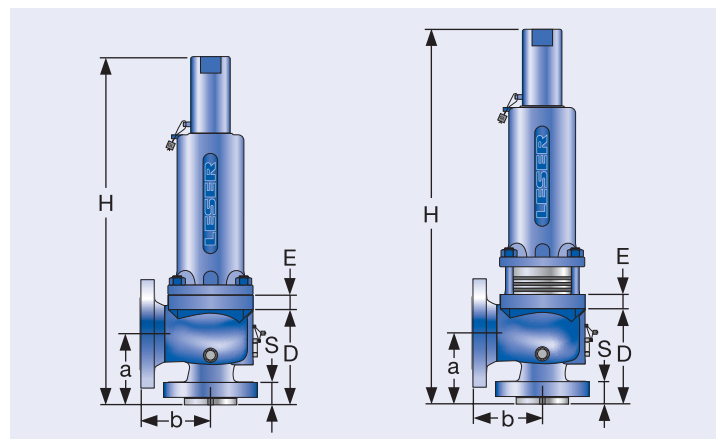
Metric Units						
Weight [kg]		107,7	107,7	164	164	164
	with bellows	114,8	114,8	172	172	172
Center to face [mm]	Inlet a	181	181	225	225	225
	Outlet b	229	229	254	254	254
	s	48	48	62	62	62
Height (H4) [mm]	Standard H max.	855	855	1079	1079	1079
	Bellows H max.	888	888	1138	1138	1138
Support brackets [mm]	A	278	278	370	370	370
	B	160	160	210	210	210
	C	Ø 18	Ø 18	Ø 18	Ø 18	Ø 18
	D	262	262	306	306	306
	E	25	25	25	25	25
US Units						
Weight [lbs]		237,5	237,5	361,6	361,6	361,6
	with bellows	253,1	253,1	379,3	379,3	379,3
Center to face [inch]	Inlet a	7 1/8	7 1/8	8 7/8	8 7/8	8 7/8
	Outlet b	9	9	10	10	10
	s	1 7/8	1 7/8	2 7/16	2 7/16	2 7/16
Height (H4) [inch]	Standard H max.	33 21/32	33 21/32	42 1/2	42 1/2	42 1/2
	Bellows H max.	34 31/32	34 31/32	44 13/16	44 13/16	44 13/16
Support brackets [inch]	A	10 15/16	10 15/16	14 9/16	14 9/16	14 9/16
	B	6 5/16	6 5/16	8 9/32	8 9/32	8 9/32
	C	Ø 23/32	Ø 23/32	Ø 23/32	Ø 23/32	Ø 23/32
	D	10 5/16	10 5/16	12 1/16	12 1/16	12 1/16
	E	31/32	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

## Pressure temperature ratings

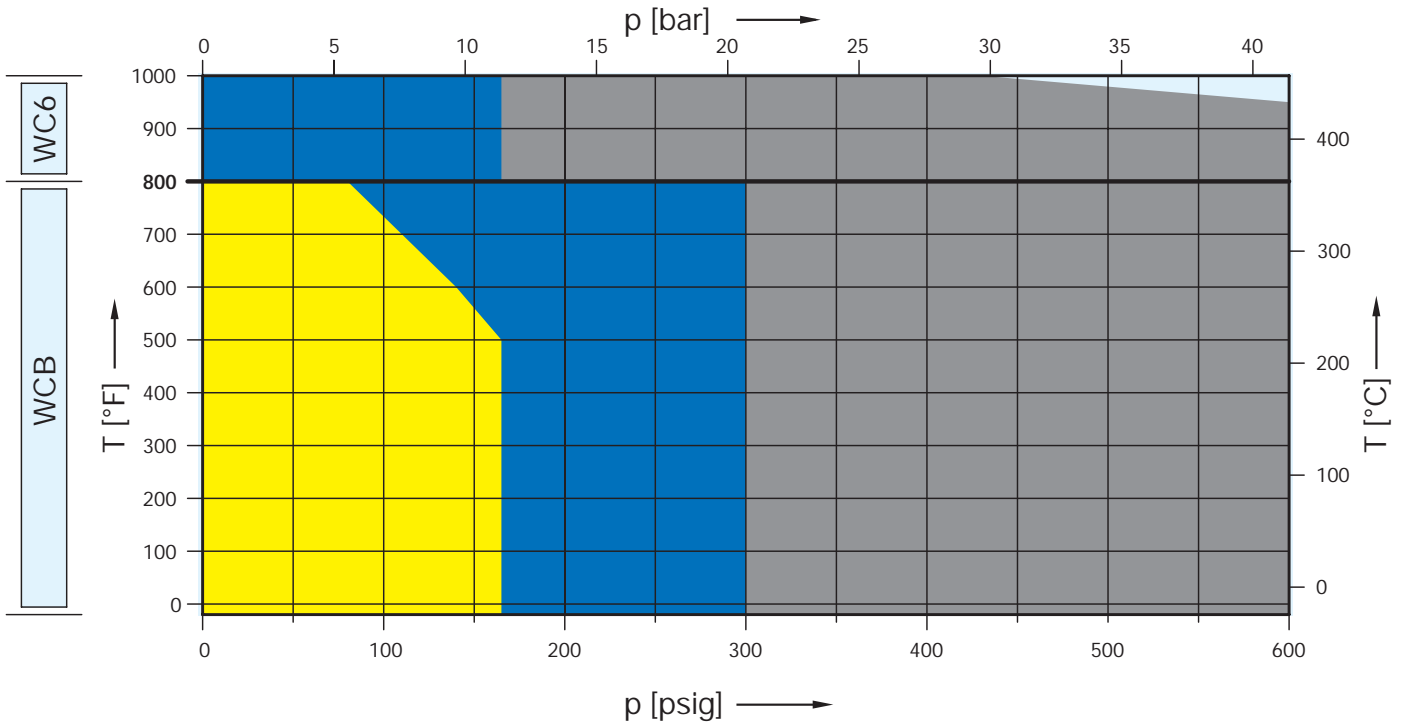
Metric Units						
Valve size		4 P 6	4 P 6	4 P 6	4 P 6	4 P 6
Flange rating class Inlet x Outlet		150 x 150	300L x 150	300 x 150	600 x 150	900 x 150
Actual Orifice diameter $d_0$ [mm]		80	80	80	80	80
Actual Orifice area $A_0$ [mm <sup>2</sup> ]		5027	5027	5027	5027	5027
Body material: WCB 1.0619						
Temperature range		Pressure range p [bar] S/G/L				
Maximum set pressure	-29 to 38 °C	19,7	19,7	36,2	69,0	-
	39 to 232 °C	12,8	19,7	36,2	69,0	-
	233 to 427 °C	5,5	19,7	28,3	56,9	69,0
Outlet pressure limit Conventional design		19,7	19,7	19,7	19,7	19,7
Outlet pressure limit Balanced bellows design		5,5	5,5	10,3	10,3	10,3
Body material: CF8M 1.4408						
Temperature range		Pressure range p [bar] S/G/L				
Maximum set pressure	-268 to -60 °C	12,1	12,1	20,7	33,1	-
	-59 to -29 °C	19,0	19,0	36,2	69,0	-
	-28 to 38 °C	19,0	19,0	36,2	69,0	-
	39 to 232 °C	12,4	12,4	34,1	67,2	-
	233 to 427 °C	5,5	5,5	29,0	58,3	-
	428 to 538 °C	1,4	1,4	24,1	48,3	-
Outlet pressure limit Conventional design		19,0	19,0	19,0	19,0	-
Outlet pressure limit Balanced bellows design		5,5	5,5	10,3	10,3	-
Body material: WC6 1.7357						
Temperature range		Pressure range p [bar] S/G/L				
Maximum set pressure	233 to 427 °C	-	-	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		-	-	10,3	10,3	10,3
Body material: LCB						
Temperature range		Pressure range p [bar] S/G/L				
Maximum set pressure	-46 to 38 °C	18,4	18,4	48,0	96,0	144,1
	39 to 200 °C	13,8	13,8	42,5	85,1	127,6
	201 to 343 °C	8,4	8,4	36,4	72,8	109,2
Outlet pressure limit Conventional design		19,7	19,7	19,7	19,7	19,7
Outlet pressure limit Balanced bellows design		5,5	5,5	10,3	10,3	10,3

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

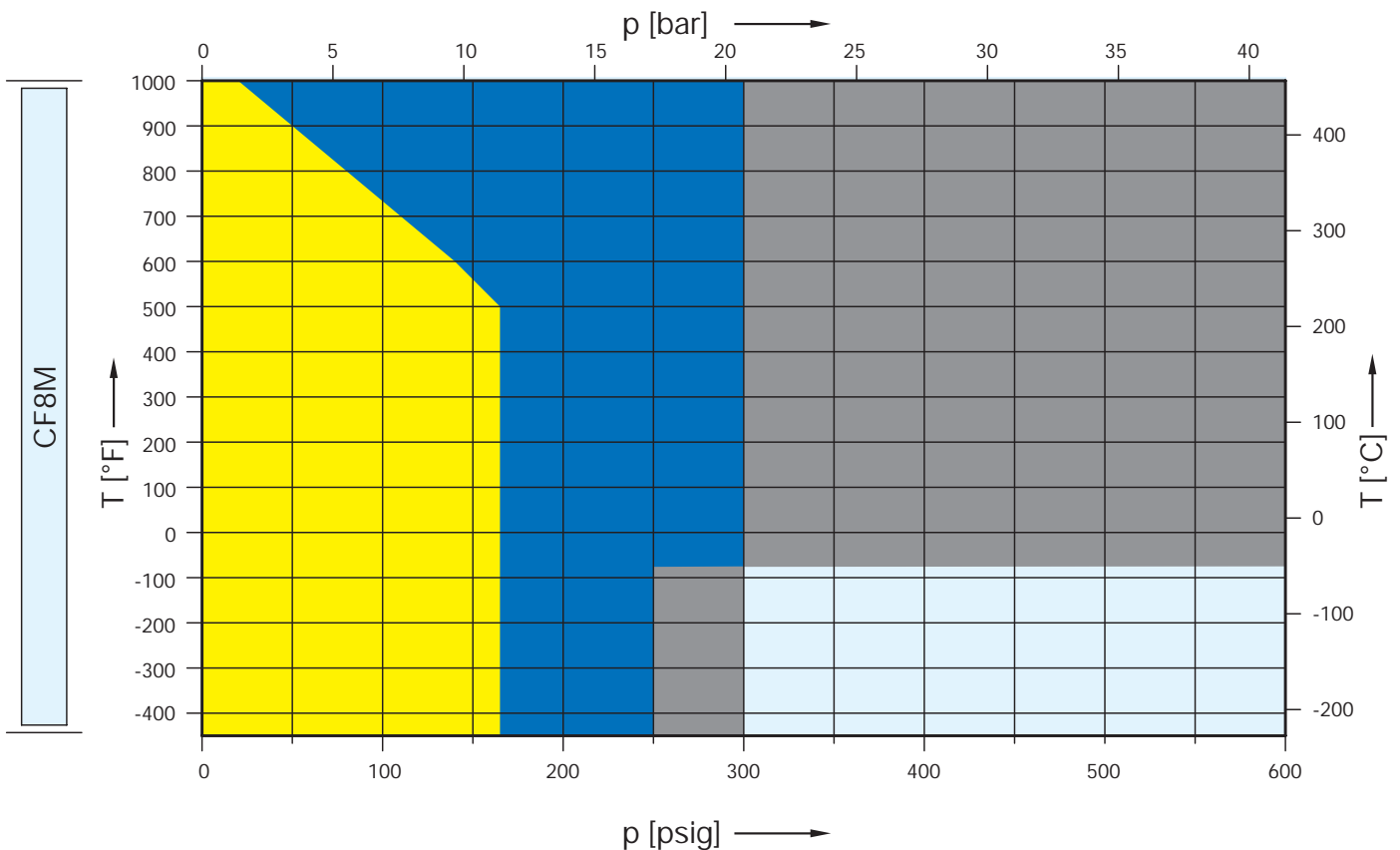
Due to the extended material test certificate the LESER LCB can be applied as LCC, WCB, WCC and 1.0619 with the respective pressure-temperature range as well.

## Selection chart

	150 x 150	300L x 150	300 x 150	600 x 150	900 x 150	1500 x 150	2500 x 300
WC6	5262.657X	-	5262.658X	5262.659X	-	-	-
WC6	-	-	5267.660X	5267.661X	-	-	-



	150 x 150	300L x 150	300 x 150	600 x 150	900 x 150	1500 x 150	2500 x 300
CF8M	5264.662X	-	5264.663X	5264.664X	-	-	-



## Article numbers, dimensions and weights

### Article numbers

Valve size	6 Q 8	6 Q 8	6 Q 8	6 Q 8
Flange rating class Inlet x Outlet	150 x 150	300L x 150	300 x 150	600 x 150
Actual Orifice diameter $d_0$ [mm]	105,5	105,5	105,5	105,5
Actual Orifice area $A_0$ [mm <sup>2</sup> ]	8742	8742	8742	8742

### Body material

Body material	Art.-No.	5262.657 <sup>2)</sup>	5262.658 <sup>2)</sup>	5262.659 <sup>2)</sup>
WCB 1.0619	Art.-No.	5262.657 <sup>2)</sup>	5262.658 <sup>2)</sup>	5262.659 <sup>2)</sup>
CF8M 1.4408	Art.-No.	5264.662 <sup>2)</sup>	5264.663 <sup>2)</sup>	5264.664 <sup>2)</sup>
WC6 1.7357	Art.-No.	-	5267.660 <sup>2)</sup>	5267.661 <sup>2)</sup>
LCB	Art.-No.	5263.559 <sup>2)</sup>	5263.560 <sup>2)</sup>	5263.561 <sup>2)</sup>

Use 6 Q 8  
300 x 150

<sup>2)</sup> Please add code for the required cap or lifting device. See below.

### Dimensions and weights

#### Metric Units

Weight [kg]		221	221	221
with bellows		230	230	230
Center to face [mm]	Inlet a	240	240	240
	Outlet b	241	241	241
	s	68	68	68
Height (H4) [mm]	Standard H max.	1120	1120	1120
	Bellows H max.	1200	1200	1200
Support brackets [mm]	A	370	370	370
	B	210	210	210
	C	Ø 18	Ø 18	Ø 18
	D	346	346	346
	E	25	25	25

Use 6 Q 8  
300 x 150

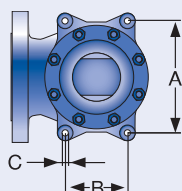
#### US Units

Weight [lbs]		487,3	487,3	487,3
with bellows		507,2	507,2	507,2
Center to face [inch]	Inlet a	9 <sup>7</sup> / <sub>16</sub>	9 <sup>7</sup> / <sub>16</sub>	9 <sup>7</sup> / <sub>16</sub>
	Outlet b	9 <sup>1</sup> / <sub>2</sub>	9 <sup>1</sup> / <sub>2</sub>	9 <sup>1</sup> / <sub>2</sub>
	s	2 <sup>11</sup> / <sub>16</sub>	2 <sup>11</sup> / <sub>16</sub>	2 <sup>11</sup> / <sub>16</sub>
Height (H4) [inch]	Standard H max.	44 <sup>1</sup> / <sub>8</sub>	44 <sup>1</sup> / <sub>8</sub>	44 <sup>1</sup> / <sub>8</sub>
	Bellows H max.	47 <sup>1</sup> / <sub>4</sub>	47 <sup>1</sup> / <sub>4</sub>	47 <sup>1</sup> / <sub>4</sub>
Support brackets [inch]	A	14 <sup>9</sup> / <sub>16</sub>	14 <sup>9</sup> / <sub>16</sub>	14 <sup>9</sup> / <sub>16</sub>
	B	8 <sup>9</sup> / <sub>32</sub>	8 <sup>9</sup> / <sub>32</sub>	8 <sup>9</sup> / <sub>32</sub>
	C	Ø <sup>23</sup> / <sub>32</sub>	Ø <sup>23</sup> / <sub>32</sub>	Ø <sup>23</sup> / <sub>32</sub>
	D	13 <sup>5</sup> / <sub>8</sub>	13 <sup>5</sup> / <sub>8</sub>	13 <sup>5</sup> / <sub>8</sub>
	E	<sup>31</sup> / <sub>32</sub>	<sup>31</sup> / <sub>32</sub>	<sup>31</sup> / <sub>32</sub>

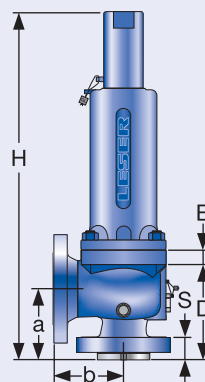
Use 6 Q 8  
300 x 150

### Code for lifting device

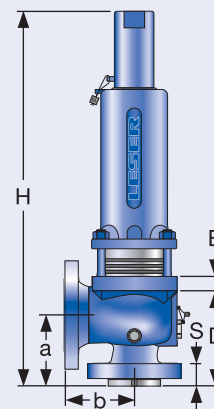
Lifting device	H2	H3	H4	H3
Bonnet	closed	closed	closed	open
WCB 1.0619, WC6 1.7357, LCB	2	3	4	5
CF8M 1.4408	2	-	4	-



Support brackets



Conventional design



Balanced bellows design

## Pressure temperature ratings

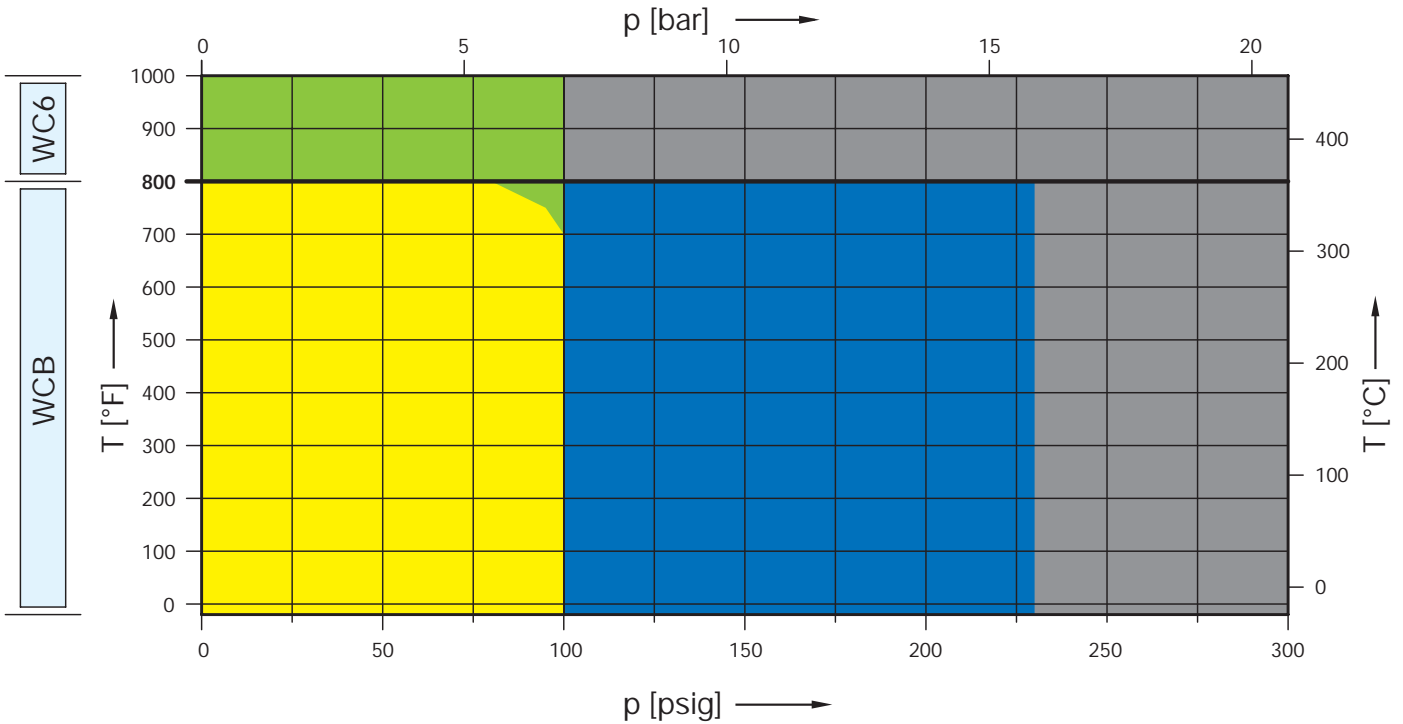
Metric Units					
Valve size		6 Q 8	6 Q 8	6 Q 8	6 Q 8
Flange rating class Inlet x Outlet		150 x 150	300L x 150	300 x 150	600 x 150
Actual Orifice diameter d <sub>0</sub> [mm]		105,5	105,5	105,5	105,5
Actual Orifice area A <sub>0</sub> [mm <sup>2</sup> ]		8742	8742	8742	8742
<b>Body material: WCB 1.0619</b>					
Temperature range		Pressure range p [bar] S/G/L			
<b>Maximum set pressure</b>	-29 to 38 °C	11,4	Use 6 Q 8 300 x 150	20,7	41,4
	39 to 232 °C	11,4		20,7	41,4
	233 to 427 °C	5,5		20,7	41,4
<b>Outlet pressure limit</b> Conventional design	7,9	7,9		7,9	
<b>Outlet pressure limit</b> Balanced bellows design	4,8	7,9		7,9	
<b>Body material: CF8M 1.4408</b>					
Temperature range		Pressure range p [bar] S/G/L			
<b>Maximum set pressure</b>	-268 to -60 °C	11,4	Use 6 Q 8 300 x 150	17,2	20,7
	-59 to -29 °C	11,4		20,7	41,4
	-28 to 38 °C	11,4		20,7	41,4
	39 to 232 °C	11,4		20,7	41,4
	233 to 427 °C	5,5		20,7	41,4
	428 to 538 °C	1,4		20,7	41,4
<b>Outlet pressure limit</b> Conventional design	7,9	7,9	7,9		
<b>Outlet pressure limit</b> Balanced bellows design	4,8	7,9	7,9		
<b>Body material: WC6 1.7357</b>					
Temperature range		Pressure range p [bar] S/G/L			
<b>Maximum set pressure</b>	233 to 427 °C	-	Use 6 Q 8 300 x 150	11,4	41,4
	428 to 538 °C	-		11,4	29,7
<b>Outlet pressure limit</b> Conventional design	-	-	7,9	7,9	
<b>Outlet pressure limit</b> Balanced bellows design	-	-	7,9	7,9	
<b>Body material: LCB</b>					
Temperature range		Pressure range p [bar] S/G/L			
<b>Maximum set pressure</b>	-46 to 38 °C	18,4	Use 6 Q 8 300 x 150	48,0	96,0
	39 to 200 °C	13,8		42,5	85,1
	201 to 343 °C	8,4		36,4	72,8
<b>Outlet pressure limit</b> Conventional design	7,9	7,9	7,9		
<b>Outlet pressure limit</b> Balanced bellows design	4,8	7,9	7,9		

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

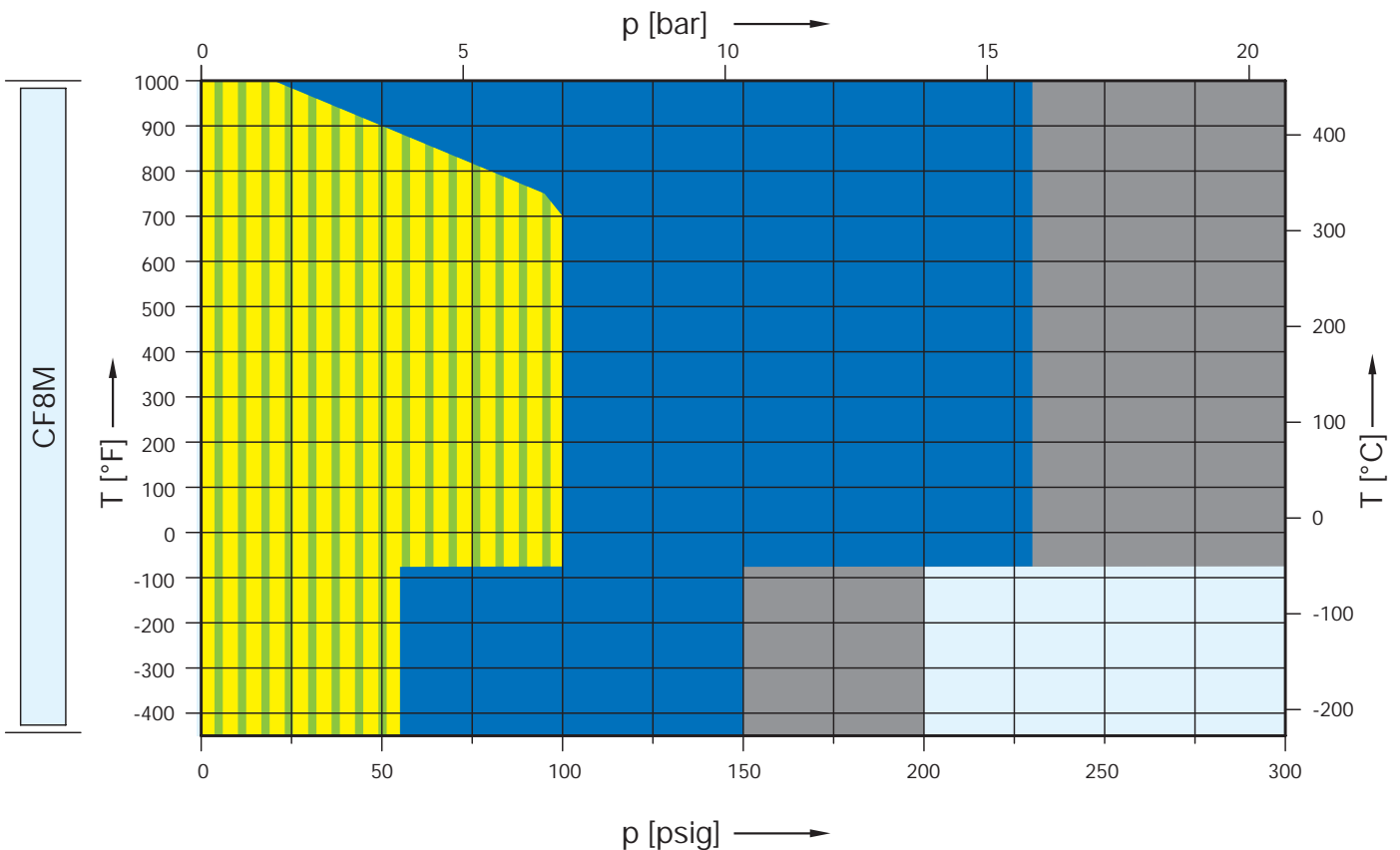
Due to the extended material test certificate the LESER LCB can be applied as LCC, WCB, WCC and 1.0619 with the respective pressure-temperature range as well.

## Selection chart

	150 x 150	300L x 150	300 x 150	600 x 150	900 x 150	1500 x 150	2500 x 300
WC6	5262.665X	5262.666X	5262.667X	5262.668X	-	-	-
WC6	-	5267.669X	-	5267.670X	-	-	-



	150 x 150	300L x 150	300 x 150	600 x 150	900 x 150	1500 x 150	2500 x 300
CF8M	5264.671X	5264.672X	5264.673X	5264.674X	-	-	-



R

## Article numbers, dimensions and weights

### Article numbers

Valve size	6 R 8	6 R 8	6 R 10	6 R 10
Flange rating class Inlet x Outlet	150 x 150	300L x 150	300 x 150	600 x 150
Actual Orifice diameter $d_0$ [mm]	126,5	126,5	126,5	126,5
Actual Orifice area $A_0$ [mm <sup>2</sup> ]	12568	12568	12568	12568

### Body material

Material	Art.-No.	6 R 8	6 R 8	6 R 10	6 R 10
WCB 1.0619	Art.-No.	5262.665 <sup>2)</sup>	5262.666 <sup>2)</sup>	5262.667 <sup>2)</sup>	5262.668 <sup>2)</sup>
CF8M 1.4408	Art.-No.	5264.671 <sup>2)</sup>	5264.672 <sup>2)</sup>	5264.673 <sup>2)</sup>	5264.674 <sup>2)</sup>
WC6 1.7357	Art.-No.	-	5267.669 <sup>2)</sup>	-	5267.670 <sup>2)</sup>
LCB	Art.-No.	5263.562 <sup>2)</sup>	5263.563 <sup>2)</sup>	5263.564 <sup>2)</sup>	5263.565 <sup>2)</sup>

<sup>2)</sup> Please add code for the required cap or lifting device. See below.

### Dimensions and weights

#### Metric Units

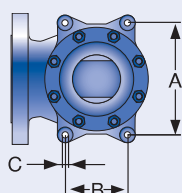
Weight [kg]		221	221	277	277
	with bellows	230	230	288	288
Center to face [mm]	Inlet a	240	240	240	240
	Outlet b	241	241	241	241
	s	68	68	70	70
Height (H4) [mm]	Standard H max.	1120	1120	1426	1426
	Bellows H max.	1200	1200	1426	1426
Support brackets [mm]	A	370	370	470	470
	B	210	210	150	150
	C	Ø 18	Ø 18	Ø 18	Ø 18
	D	346	346	460	460
	E	25	25	25	25

#### US Units

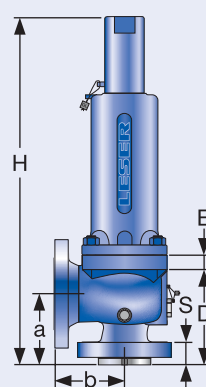
Weight [lbs]		487,3	487,3	610,8	610,8
	with bellows	507,2	507,2	635	635
Center to face [inch]	Inlet a	9 <sup>7</sup> / <sub>16</sub>	9 <sup>7</sup> / <sub>16</sub>	9 <sup>7</sup> / <sub>16</sub>	9 <sup>7</sup> / <sub>16</sub>
	Outlet b	9 <sup>1</sup> / <sub>2</sub>	9 <sup>1</sup> / <sub>2</sub>	10 <sup>1</sup> / <sub>2</sub>	10 <sup>1</sup> / <sub>2</sub>
	s	2 <sup>11</sup> / <sub>16</sub>	2 <sup>11</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>4</sub>
Height (H4) [inch]	Standard H max.	44 <sup>1</sup> / <sub>8</sub>	44 <sup>1</sup> / <sub>8</sub>	56 <sup>1</sup> / <sub>8</sub>	56 <sup>1</sup> / <sub>8</sub>
	Bellows H max.	47 <sup>1</sup> / <sub>4</sub>	47 <sup>1</sup> / <sub>4</sub>	56 <sup>1</sup> / <sub>8</sub>	56 <sup>1</sup> / <sub>8</sub>
Support brackets [inch]	A	14 <sup>9</sup> / <sub>16</sub>	14 <sup>9</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>8</sub>
	B	8 <sup>9</sup> / <sub>32</sub>	8 <sup>9</sup> / <sub>32</sub>	5 <sup>29</sup> / <sub>32</sub>	5 <sup>29</sup> / <sub>32</sub>
	C	Ø <sup>23</sup> / <sub>32</sub>	Ø <sup>23</sup> / <sub>32</sub>	Ø <sup>23</sup> / <sub>32</sub>	Ø <sup>23</sup> / <sub>32</sub>
	D	13 <sup>5</sup> / <sub>8</sub>	13 <sup>5</sup> / <sub>8</sub>	18 <sup>1</sup> / <sub>8</sub>	18 <sup>1</sup> / <sub>8</sub>
	E	<sup>31</sup> / <sub>32</sub>	<sup>31</sup> / <sub>32</sub>	<sup>31</sup> / <sub>32</sub>	<sup>31</sup> / <sub>32</sub>

### Code for lifting device

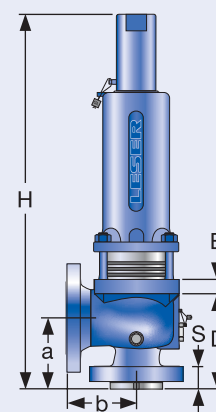
Lifting device	H2	H3	H4	H3
Bonnet	closed	closed	closed	open
WCB 1.0619, WC6 1.7357, LCB	2	3	4	5
CF8M 1.4408	2	-	4	-



Support brackets



Conventional design



Balanced bellows design



## Pressure temperature ratings

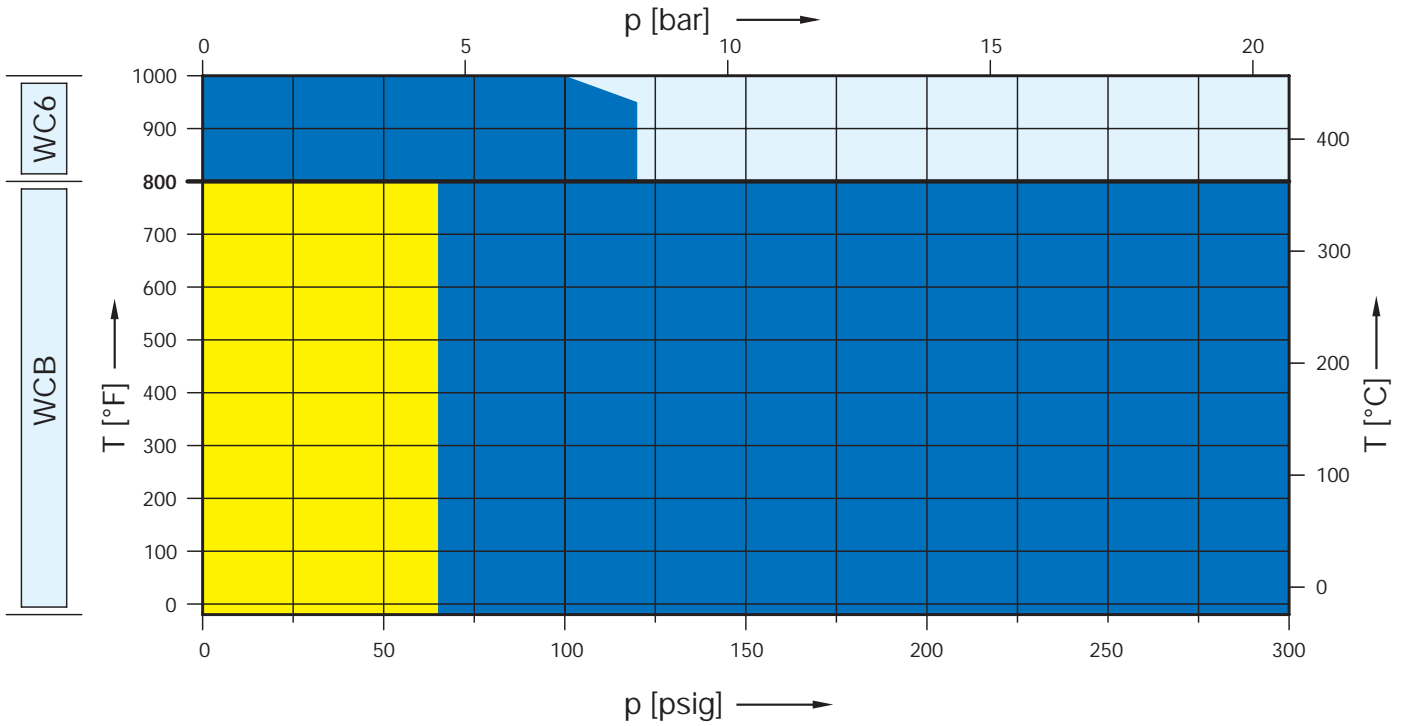
Metric Units					
Valve size		6 R 8	6 R 8	6 R 10	6 R 10
Flange rating class Inlet x Outlet		150 x 150	300L x 150	300 x 150	600 x 150
Actual Orifice diameter $d_0$ [mm]		126,5	126,5	126,5	126,5
Actual Orifice area $A_0$ [mm <sup>2</sup> ]		12668	12668	12668	12668
<b>Body material: WCB 1.0619</b>					
Temperature range		Pressure range p [bar] S/G/L			
<b>Maximum set pressure</b>	-29 to 38 °C	6,9	6,9	15,9	20,7
	39 to 232 °C	6,9	6,9	15,9	20,7
	233 to 427 °C	5,5	6,9	15,9	20,7
<b>Outlet pressure limit</b> Conventional design		4,1	4,1	6,9	6,9
<b>Outlet pressure limit</b> Balanced bellows design		4,1	4,1	6,9	6,9
<b>Body material: CF8M 1.4408</b>					
Temperature range		Pressure range p [bar] S/G/L			
<b>Maximum set pressure</b>	-268 to -60 °C	3,8	3,8	10,3	13,8
	-59 to -29 °C	6,9	6,9	15,9	20,7
	-28 to 38 °C	6,9	6,9	15,9	20,7
	39 to 232 °C	6,9	6,9	15,9	20,7
	233 to 427 °C	5,5	5,5	15,9	20,7
	428 to 538 °C	1,4	1,4	15,9	20,7
<b>Outlet pressure limit</b> Conventional design		4,1	4,1	6,9	6,9
<b>Outlet pressure limit</b> Balanced bellows design		4,1	4,1	6,9	6,9
<b>Body material: WC6 1.7357</b>					
Temperature range		Pressure range p [bar] S/G/L			
<b>Maximum set pressure</b>	233 to 427 °C	-	-	6,9	20,7
	428 to 538 °C	-	-	6,9	20,7
<b>Outlet pressure limit</b> Conventional design		-	-	4,1	6,9
<b>Outlet pressure limit</b> Balanced bellows design		-	-	4,1	6,9
<b>Body material: LCB</b>					
Temperature range		Pressure range p [bar] S/G/L			
<b>Maximum set pressure</b>	-46 to 38 °C	18,4	18,4	48,0	96,0
	39 to 200 °C	13,8	13,8	42,5	85,1
	201 to 343 °C	8,4	8,4	36,4	72,8
<b>Outlet pressure limit</b> Conventional design		4,1	4,1	6,9	6,9
<b>Outlet pressure limit</b> Balanced bellows design		4,1	4,1	6,9	6,9

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

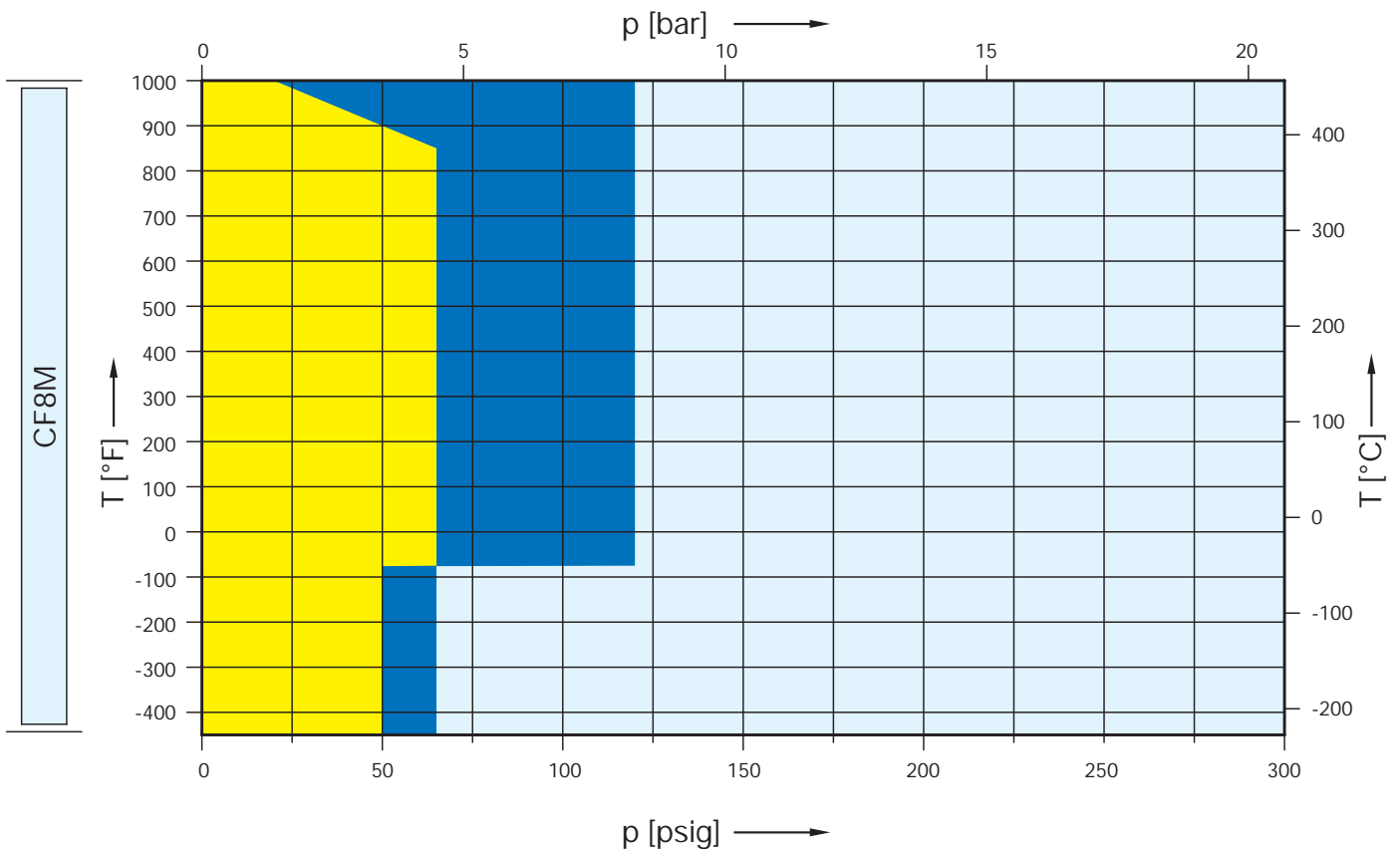
Due to the extended material test certificate the LESER LCB can be applied as LCC, WCB, WCC and 1.0619 with the respective pressure-temperature range as well.

## Selection chart

	150 x 150	300L x 150	300 x 150	600 x 150	900 x 150	1500 x 150	2500 x 300
WC6	5262.675X	-	5262.676X	-	-	-	-
WC6	-	-	5267.677X	-	-	-	-



	150 x 150	300L x 150	300 x 150	600 x 150	900 x 150	1500 x 150	2500 x 300
CF8M	5264.678X	-	5264.679X	-	-	-	-



## Article numbers, dimensions and weights

### Article numbers

Valve size		8 T 10	8 T 10	8 T 10
Flange rating class Inlet x Outlet		150 x 150	300L x 150	300 x 150
Actual Orifice diameter d <sub>0</sub> [mm]		161,5	161,5	161,5
Actual Orifice area A <sub>0</sub> [mm <sup>2</sup> ]		20485	20485	20485
Body material				
WCB 1.0619	Art. -No.	5262.675 <sup>▫</sup>	Use 8 T 10 300 x 150	5262.676 <sup>▫</sup>
CF8M 1.4408	Art. -No.	5264.678 <sup>▫</sup>		5264.679 <sup>▫</sup>
WC6 1.7357	Art. -No.	-		5267.677 <sup>▫</sup>
LCB	Art. -No.	5263.566 <sup>▫</sup>		5263.567 <sup>▫</sup>

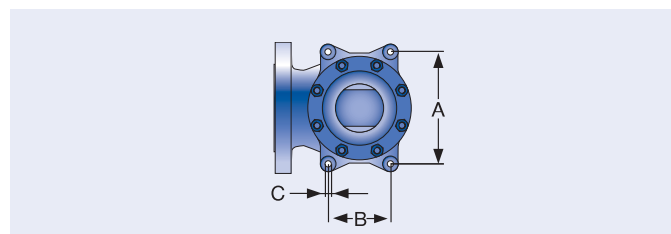
▫) Please add code for the required cap or lifting device. See below.

### Dimensions and weights

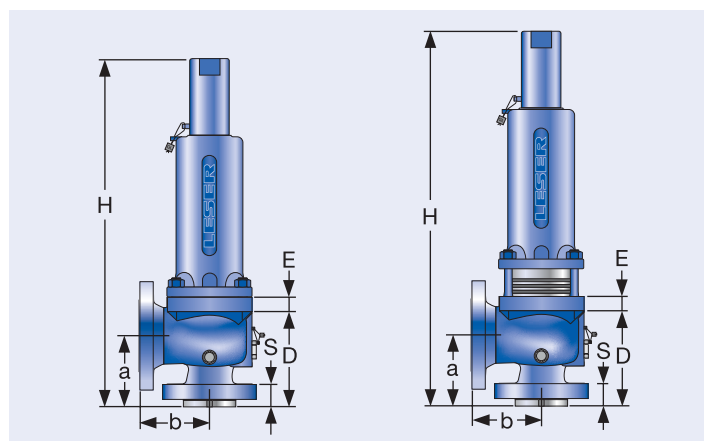
Metric Units				
Weight [kg]		287	Use 8 T 10 300 x 150	287
	with bellows	298		298
Center to face [mm]	Inlet a	276		276
	Outlet b	279		279
	s	62		62
Height (H4) [mm]	Standard H max.	1462		1462
	Bellows H max.	1462	1462	
Support brackets [mm]	A	470	470	
	B	-	-	
	C	Ø 18	Ø 18	
	D	497	497	
	E	25	25	
US Units				
Weight [lbs]		632,8	Use 8 T 10 300 x 150	632,8
	with bellows	657,1		657,1
Center to face [inch]	Inlet a	10 <sup>7</sup> / <sub>8</sub>		10 <sup>7</sup> / <sub>8</sub>
	Outlet b	11		11
	s	2 <sup>7</sup> / <sub>16</sub>		2 <sup>7</sup> / <sub>16</sub>
Height (H4) [inch]	Standard H max.	57 <sup>9</sup> / <sub>16</sub>		57 <sup>9</sup> / <sub>16</sub>
	Bellows H max.	57 <sup>9</sup> / <sub>16</sub>	57 <sup>9</sup> / <sub>16</sub>	
Support brackets [inch]	A	18 <sup>1</sup> / <sub>2</sub>	18 <sup>1</sup> / <sub>2</sub>	
	B	-	-	
	C	Ø <sup>23</sup> / <sub>32</sub>	Ø <sup>23</sup> / <sub>32</sub>	
	D	19 <sup>9</sup> / <sub>16</sub>	19 <sup>9</sup> / <sub>16</sub>	
	E	<sup>31</sup> / <sub>32</sub>	<sup>31</sup> / <sub>32</sub>	

### ▫ 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	8 T 10	8 T 10	8 T 10
Flange rating class Inlet x Outlet	150 x 150	300L x 150	300 x 150
Actual Orifice diameter $d_0$ [mm]	161,5	161,5	161,5
Actual Orifice area $A_0$ [mm <sup>2</sup> ]	20485	20485	20485
<b>Body material: WCB 1.0619</b>			
Temperature range	Pressure range p [bar] S/G/L		
<b>Maximum set pressure</b>	-29 to 38 °C	4,5	20,7
	39 to 232 °C	4,5	20,7
	233 to 427 °C	4,5	20,7
<b>Outlet pressure limit</b> Conventional design		2,1	6,9
<b>Outlet pressure limit</b> Balanced bellows design		2,1	6,9
<b>Body material: CF8M 1.4408</b>			
Temperature range	Pressure range p [bar] S/G/L		
<b>Maximum set pressure</b>	-268 to -60 °C	3,4	4,5
	-59 to -29 °C	4,5	8,3
	-28 to 38 °C	4,5	8,3
	39 to 232 °C	4,5	8,3
	233 to 427 °C	4,5	8,3
	428 to 538 °C	1,4	8,3
<b>Outlet pressure limit</b> Conventional design		2,1	4,1
<b>Outlet pressure limit</b> Balanced bellows design		2,1	4,1
<b>Body material: WC6 1.7357</b>			
Temperature range	Pressure range p [bar] S/G/L		
<b>Maximum set pressure</b>	233 to 427 °C	-	20,7
	428 to 538 °C	-	15,5
<b>Outlet pressure limit</b> Conventional design		-	6,9
<b>Outlet pressure limit</b> Balanced bellows design		-	6,9
<b>Body material: LCB</b>			
Temperature range	Pressure range p [bar] S/G/L		
<b>Maximum set pressure</b>	-46 to 38 °C	18,4	48,0
	39 to 200 °C	13,8	42,5
	201 to 343 °C	8,4	36,4
<b>Outlet pressure limit</b> Conventional design		2,1	6,9
<b>Outlet pressure limit</b> Balanced bellows design		2,1	6,9

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

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.

## Flange drillings

Standard						Flange drillings according to DIN EN 1092 (up to PN 100) and DIN 2501 (from PN 160 up)														
Orifice	Inlet		Outlet	Material			Inlet								Outlet					
	NPS [inch]	standard flange class	NPS [inch]	WC6/LCB	WC6	CF8M	PN 10/16	PN 25	PN 40	PN 63	PN 100	PN 160	PN 250	PN 320	PN 400	PN 10	PN 16	PN 25	PN 40	PN 63
D	1"	300	2"				H45	H46	H47	-	-	-	-	-	-	H50	H51	H52	H15	-
	1"	600	2"				-	-	-	H10	H17	-	-	-	-	H50	H51	H52	H15	-
	1 1/2"	1500	2"				-	-	-	-	-	H11	H12	-	-	H50	H51	H52	H15	-
	1 1/2"	2500	3"				-	-	-	-	-	-	-	H12	H13	-	H50	H51	H52	H15
E	1"	300	2"				H45	H46	H47	-	-	-	-	-	-	H50	H51	H52	H15	-
	1"	600	2"				-	-	-	H10	H17	-	-	-	-	H50	H51	H52	H15	-
	1 1/2"	1500	2"				-	-	-	-	-	H11	H12	-	-	H50	H51	H52	H15	-
1 1/2"	2500	3"				-	-	-	-	-	-	-	H12	H13	-	H50	H51	H52	H15	H16
F	1 1/2"	300L	2"				H45	-	-	-	-	-	-	-	-	H50	H51	H52	H15	-
	1 1/2"	300	2"				-	H46	H47	-	-	-	-	-	-	H50	H51	H52	H15	-
	1 1/2"	1500	3"				-	-	-	H10	H17	H11	H12	-	-	H50	H51	H52	H15	H16
	1 1/2"	2500	3"				-	-	-	-	-	-	H12	H13	-	H50	H51	H52	H15	H16
G	1 1/2"	300L	3"				H45	-	-	-	-	-	-	-	-	H50	H51	H52	H15	-
	1 1/2"	300	3"				-	H46	H47	H10	-	-	-	-	-	H50	H51	H52	H15	-
	1 1/2"	600	3"				-	-	-	H10	H17	H11	-	-	-	H50	H51	H52	H15	-
	1 1/2"	900	3"				-	-	-	-	H17	H11	-	-	-	H50	H51	H52	H15	H16
	2"	1500	3"				-	-	-	-	-	-	H12	H13	-	H50	H51	H52	H15	H16
2"	2500	3"				-	-	-	-	-	-	-	-	H14	H50	H51	H52	H15	H16	
H	1 1/2"	300L	3"				H45	H46	H47	-	-	-	-	-	-	H50	H51	H52	H15	-
	2"	300	3"				-	-	H47	H10	-	-	-	-	-	H50	H51	H52	H15	-
	2"	600	3"				-	-	H47	H10	-	-	-	-	-	H50	H51	H52	H15	-
	2"	600	3"				-	-	H47	H10	-	-	-	-	-	H50	H51	H52	H15	H16
	2"	900	3"				-	-	-	-	H17	H11	-	-	-	H50	H51	H52	H15	H16
2"	1500	3"				-	-	-	-	-	H11	H12	-	-	H50	H51	H52	H15	H16	
J	2"	300L	3"				H45	H46	H47	H10	-	-	-	-	-	H50	H51	H52	H15	-
	3"	600	4"				-	-	H47	H10	-	-	-	-	-	H50	H51	H52	H15	-
	3"	900	4"				-	-	-	-	H17	H11	-	-	-	H50	H51	H52	H15	H16
	3"	1500	4"				-	-	-	-	-	H11	H12	-	-	H50	H51	H52	H15	H16
K	3"	300	4"				H45	H46	H47	H10	-	-	-	-	-	H50	H51	H52	H15	-
	3"	600	4"				-	-	H47	H10	-	-	-	-	-	H50	H51	H52	H15	-
	3"	900	6"				-	-	-	H10	H17	H11	H12	-	-	H50	H51	-	-	-
	3"	900	6"				-	-	-	H10	H17	H11	H12	-	-	H50	H51	H52	H15	-
	3"	1500	6"				-	-	-	H10	H17	H11	H12	-	-	H50	H51	H52	H15	-
L	3"	300L	4"				H45	H46	H47	H10	-	-	-	-	-	H50	H51	H52	H15	-
	4"	300	6"				H45	H46	H47	H10	-	-	-	-	-	H50	H51	-	-	-
	4"	600	6"				-	-	-	H10	H17	H11	-	-	-	H50	H51	-	-	-
	4"	900	6"				-	-	-	-	H17	H11	-	-	-	H50	H51	-	-	-
	4"	1500	6"				-	-	-	-	-	-	H12	-	-	H50	H51	-	-	-
M	4"	300	6"				H45	H46	H47	H10	-	-	-	-	-	H50	H51	-	-	-
	4"	600	6"				-	-	-	H10	H17	H11	-	-	-	H50	H51	-	-	-
	4"	900	6"				-	-	-	-	H17	H11	H12	-	-	H50	H51	-	-	-
N	4"	300	6"				H45	H46	H47	H10	-	-	-	-	-	H50	H51	-	-	-
	4"	600	6"				-	-	-	-	H17	H11	-	-	-	H50	H51	-	-	-
	4"	900	6"				-	-	-	-	-	-	H12	-	-	H50	H51	-	-	-
P	4"	300L	6"				H45	H46	H47	-	-	-	-	-	-	H50	H51	-	-	-
	4"	300	6"				-	H46	H47	-	-	-	-	-	-	H50	H51	-	-	-
	4"	600	6"				-	-	-	H10	H17	-	-	-	-	H50	H51	-	-	-
	4"	900	6"				-	-	-	-	-	H11	H12	-	-	H50	H51	-	-	-
Q	6"	300	8"				H45	H46	H47	-	-	-	-	-	-	H50	H51	H52	-	-
	6"	600	8"				-	-	-	H10	H17	H11	-	-	-	H50	H51	H52	-	-
R	6"	300L	8"				H45	H46	H47	H10	-	-	-	-	-	H50	H51	H52	-	-
	6"	300	10"				-	-	H47	H10	-	-	-	-	-	H50	H51	-	-	-
	6"	600	10"				-	-	H47	H10	-	-	-	-	-	H50	H51	-	-	-
T	8"	300	10"				-	H46	H47	-	-	-	-	-	-	H50	H51	-	-	-

Note: Flange drillings and facings meet always the requirements of mentioned flange standards. Flange thickness and outer diameter may vary from flange standard. For signs and symbols refer to page 00/05

Flange facings												
Indication		Standard		Inlet		Outlet		Remark				
<b>General</b>												
Flange undrilled		-		H38		H39						
Linde-V-Nut, Form V48		Linde Standard 420-08		J07		J08		Groove: Rz 16				
Linde-V-Nut, Form V48A		LWN 313.36		J05		J06		Groove: Rz 4, e.g. with hydrogen				
Lens seal form L (without sealing lens)		DIN 2696 LWN 313.35		J11		J12						
<b>Acc. to DIN EN</b>												
Flange facing				Inlet		Outlet		Remark				
DIN EN 1092 (new) (see also LWN 313.40)				DIN 2526 (old)		PN 10 – PN 40	PN 63 – PN 400	PN 10 – PN 40	PN 63	Rz-data according to DIN EN 1092 in µm		
Raised face		Type B1		Type C		*	-	*	-	Facing: Rz = 12,5 – 50		
		Type B2		Type D		-	*	L38	*	Facing: Rz = 3,2 – 12,5		
Tongue face C <sup>1)</sup>				Tongue face F		L56		H92				
Groove face D <sup>1)</sup>				Groove face N		L55		H91				
Male face E				Male face V13		I90		H98				
Female face F				Female face R13		I91		H99				
O-ring male face G				Male face V14		I93		J02				
O-ring female face H				Female face R14		I92		J04				
<b>Acc. to ASME B16.5</b>												
Body material	Inlet	Outlet	Smooth finish <sup>2)</sup>		Serrated finish		RTJ-groove					
			Inlet	Outlet	Inlet	Outlet	Inlet				Outlet	
			Option code	Option code	CL300	CL600	CL900	CL1500	CL2500	CL150	CL300	
all	all	all	L52	L53	*	*	L58				H63	

<sup>1)</sup> According to DIN EN 1092 groove depths and tongue heights increased compared to the formerly valid DIN (refer to LWN 313.40).  
 LESER manufactures the groove at flanged valves by milling. If a customer demands a turned surface in the soil of the groove according to DIN 2512 and/or DIN EN 1092-1 an additional option code is necessary: "S01: bottom of the groove drilled". Groove and tongue for PN160 flanges refer to DIN 2512/LWN 313.32.  
<sup>2)</sup> Smooth finish is not defined in the effective standards. For LESER's definition for smooth finish see page 00/05.

For signs and symbols refer to page 00/05  
 Note: Flange drillings and facings meet always the requirements of mentioned flange standards. Flange thickness and outer diameter may vary from flange standard.

### Stud-bolts length for flange connection inlet and outlet

All LESER safety valves Type 526 need at the inlet side longer stud-bolts for the flange connections as stated in ASME B16.5, due to the full nozzle design. Furthermore, due to the actual castings the stud bolts at the outlet can differ from ASME B16.5 as well. LESER state the stud-bolt length in LWN 001.29-E. For calculation of stud-bolts length the measure "s" stated on page 01/10-01/13 can be used.

### Connection acc. to API Standard 526 - 1984

Orifice	Valve size		Flange rating class		Option code
	Inlet	Outlet	Inlet		
E	1 1/2"	3" drilled 2 1/2"	2500		S01
F	1 1/2"	3" drilled 2 1/2"	900		S01
G	1 1/2"	3" drilled 2 1/2"	150 – 900		S01
K	2 1/2"	6"	900 – 1500		S01

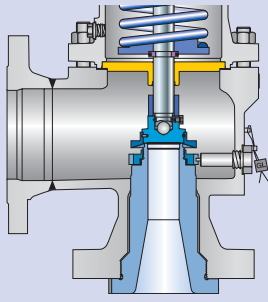
# Type 526

## How to order Type 526 with outlet flange rating class 300

For customer specifications requiring a flange rating class 300 at the outlet LESER provides Type 526 with outlet flange rating class 300. For ordering please state the article numbers and option codes which are listed in the table.

### Outlet with flange class 300

Orifice	Valve size Inlet x Outlet Center to face a x b	Body material	300 x 300		600 x 300	
			Art.-No.	Option code	Art.-No.	Option code
D	1" x 2"	WCB 1.0619	4582.610X	H65, H80, J18, J51	4582.610X	H67, H80, J18, J51
		CF10M 1.4581	4584.620X	H65, H80, J18, J51	4584.620X	H67, H80, J18, J51
	4 5/7" x 5 1/8"	WC6 1.7357	4587.630X	H65, H80, J18, J51	4587.630X	H67, H80, J18, J51
		LCB	-	-	-	-
D	1 1/2" x 2"	WCB 1.0619	5262.004X	H65, H80	5262.004X	H67, H80
		CF8M 1.4408	5264.013X	H65, H80	5264.013X	H67, H80
	4 1/8" x 5 1/2"	WC6 1.7357	5267.008X	H65, H80	5267.008X	H67, H80
		LCB	5263.503X	H65, H80	5263.503X	H67, H80
E	1" x 2"	WCB 1.0619	4582.610X	H65, H80, J18, J51	4582.610X	H67, H80, J18, J51
		CF10M 1.4581	4584.620X	H65, H80, J18, J51	4584.620X	H67, H80, J18, J51
	4 5/7" x 5 1/8"	WC6 1.7357	4587.630X	H65, H80, J18, J51	4587.630X	H67, H80, J18, J51
		LCB	-	-	-	-
E	1 1/2" x 2"	WCB 1.0619	5262.018X	H65, H80	5262.018X	H67, H80
		CF8M 1.4408	5264.027X	H65, H80	5264.027X	H67, H80
	4 1/8" x 5 1/2"	WC6 1.7357	5267.022X	H65, H80	5267.022X	H67, H80
		LCB	5263.508X	H65, H80	5263.508X	H67, H80
F	1 1/2" x 2"	WCB 1.0619	5262.031X	H65, H80	5262.032X	H67, H80
		CF8M 1.4408	5264.041X	H65, H80	5264.041X	H67, H80
	4 7/8" x 6"	WC6 1.7357	5267.035X	H65, H80	5267.036X	H67, H80
		LCB	5263.512X	H65, H80	5263.512X	H67, H80
G	1 1/2" x 3"	WCB 1.0619	5262.049X	H65, H80	5262.049X	H67, H80
		CF8M 1.4408	5264.114X	H65, H80	5264.114X	H67, H80
	4 7/8" x 6 1/2"	WC6 1.7357	5267.054X	H65, H80	5267.054X	H67, H80
		LCB	5263.520X	H65, H80	5263.520X	H67, H80
H	2" x 3"	WCB 1.0619	5262.146X	H65, H80	5262.146X	H67, H80
		CF8M 1.4408	5264.156X	H65, H80	5264.156X	H67, H80
	6 1/16" x 6 3/8"	WC6 1.7357	5267.150X	H65, H80	5267.150X	H67, H80
		LCB	5263.527X	H65, H80	5263.527X	H67, H80
J	3" x 4"	WCB 1.0619	5262.166X	H65, H80	5262.166X	H67, H80
		CF8M 1.4408	5264.200X	H65, H80	5264.200X	H67, H80
	7 1/4" x 7 1/8"	WC6 1.7357	5267.170X	H65, H80	5267.170X	H67, H80
		LCB	5263.533X	H65, H80	5263.533X	H67, H80
K	3" x 4"	WCB 1.0619	5262.204X	H65, H80	5262.204X	H67, H80
		CF8M 1.4408	5264.213X	H65, H80	5264.213X	H67, H80
	7 13/16" x 7 1/8"	WC6 1.7357	5267.209X	H65, H80	5267.209X	H67, H80
		LCB	5263.537X	H65, H80	5263.537X	H67, H80
L	4" x 6"	WCB 1.0619	5262.235X	H65, H80	5262.235X	H67, H80
		CF8M 1.4408	5264.245X	H65, H80	5264.245X	H67, H80
	7 3/4" x 8 1/2"	WC6 1.7357	5267.239X	H65, H80	5267.239X	H67, H80
		LCB	5263.543X	H65, H80	5263.543X	H67, H80
M	4" x 6"	WCB 1.0619	5262.582X	H65, H80	5262.582X	H67, H80
		CF8M 1.4408	5264.589X	H65, H80	5264.589X	H67, H80
	7 3/4" x 8 1/2"	WC6 1.7357	5267.585X	H65, H80	5267.585X	H67, H80
		LCB	5263.548X	H65, H80	5263.548X	H67, H80
N	4" x 6"	WCB 1.0619	5262.592X	H65, H80	5262.592X	H67, H80
		CF8M 1.4408	5264.599X	H65, H80	5264.599X	H67, H80
	7 3/4" x 8 1/2"	WC6 1.7357	5267.595X	H65, H80	5267.595X	H67, H80
		LCB	5263.552X	H65, H80	5263.552X	H67, H80
P	4" x 6" Welded outlet flange	WCB 1.0619	5262.647X	S01	5262.647X	S01
		CF8M 1.4408	5264.655X	S01	5264.655X	S01
	8 7/8" x 11 5/8"	WC6 1.7357	5267.650X	S01	5267.650X	S01
		LCB	5263.556X	S01	5263.556X	S01
Q	6" x 8" Welded outlet flange	WCB 1.0619	5262.658X	S01	5262.658X	S01
		CF8M 1.4408	5264.663X	S01	5264.663X	S01
	9 7/16" x 12"	WC6 1.7357	5267.660X	S01	5267.660X	S01
		LCB	5263.560X	S01	5263.560X	S01
R	6" x 10" Welded outlet flange	WCB 1.0619	5262.667X	S01	5262.667X	S01
		CF8M 1.4408	5264.673X	S01	5264.673X	S01
	9 7/16" x 13 1/5"	WC6 1.7357	5267.670X	S01	5267.670X	S01
		LCB	5263.564X	S01	5263.564X	S01
T	8" x 10" Welded outlet flange	WCB 1.0619	5262.676X	S01		
		CF8M 1.4408	5264.679X	S01		
	10 7/8" x 13 1/5"	WC6 1.7357	5267.677X	S01		
		LCB	5263.567X	S01		

Orifice	900 x 300		1500 x 300		2500 x 300							
	Art.-No.	Option code	Art.-No.	Option code	Art.-No.	Option code						
D	<p>Outlet flange rating class 300 is standard flange rating class acc. to API standard 526</p>											
D												
E												
E												
F												
G												
H							5262.147X	Class 1500 x 300	<div style="border: 1px solid black; width: 100%; height: 100%;"></div>			
							5264.157X					
							5267.151X					
							5263.528X					
J	5262.166X	H68, H80										
	5264.200X	H68, H80										
	5267.170X	H68, H80										
	5263.533X	H68, H80										
K	5262.204X	H68, H80										
	5264.213X	H68, H80										
	5267.209X	H68, H80										
	5263.537X	H68, H80										
L	Welded outlet flange rating class 300 available on request.											
M			<p><b>Design details</b></p> <p><b>Orifice D and E:</b> 1 D 2 and 1 E 2 class 300 x 300 and 600 x 300 are realised by a modification of Type 458 DN 25 / 1".</p> <p><b>Orifice L:</b> 4 L 6 class 900 x 300 and 1500 x 300 can be realised by a welded outlet flange on request.</p> <p><b>Orifice M-P:</b> 4 M 6, 4 N 6 and 4 P 6 class 900 x 300 can be realised by a welded outlet flange on request.</p> <p><b>Orifice P-T:</b> 4 P 6 up to 8 T 10 are realised by a welded outlet flange class 300.</p> <p><b>Center to face dimensions:</b> The center to face dimensions a and b for LESER Type 526 with outlet flange rating class 300 are not specified in API Standard 526. The actual dimensions are listed in the table. They differ from the dimensions which are specified in API 526 for safety valves with outlet flange class 150. Exceptions are the grey marked safety valves.</p> <p>Grey marked safety valves</p> <p>The center to face dimensions are equal to API standard 526 with outlet flange rating class 150.</p>									
N												
P												
Q												
R												
T												



## Spare parts recommendations

The following recommendations for spare parts should be taken as a guideline.  
The actual needs for the replacement of parts depend on various conditions like

- operating temperature
- set pressure and operating pressure
- fluid
- environment
- material selection

These operating conditions have a significant influence on the product life of safety relief valves.

Item	Component	Commission / start-up	Two year operating	Five year operating
60	Gasket	1 per valve	1 per valve	2 per valve
7	Disc	1 per 5 valves	2 per 5 valves	1 per valve
61	Ball	1 per 5 valves	2 per 5 valves	1 per valve
57	Ball	1 set per 5 valves <sup>1)</sup>	2 sets per 5 valves <sup>1)</sup>	1 set per valve <sup>1)</sup>
5	Nozzle	0	0	1 per 5 valves
15	Stainless steel bellows	1 per 5 valves	2 per 5 valves	1 per valve
12	Spindle	0	0	1 per 5 valves

1 per valve: per each supplied safety valve one piece shall be provided  
1 per 5 valves: one spare part per 5 supplied equal safety valves

<sup>1)</sup> 1 set = 15 pieces

## Rework of seat and disc

Minor damages on the seating surfaces of nozzle and disc can be repaired by lapping or by machining and successive lapping. For this purpose LESER offers lapping stamps as well as lapping paste.

### Lapping stamps

Orifice	Designation and size	Material-No.
D + E	Lapping stamp no. 3, d <sub>0</sub> 18 / orifice D + E	445.1359.0000
F + G	Lapping stamp no. 4, d <sub>0</sub> 23 / orifice F + G	445.1459.0000
H	Lapping stamp no. 5, d <sub>0</sub> 29 / orifice H	445.1559.0000
J	Lapping stamp no. 6, d <sub>0</sub> 37 / orifice J	445.1659.0000
K	Lapping stamp no. 7, d <sub>0</sub> 46 / orifice K	445.1759.0000
L + M	Lapping stamp no. 8, d <sub>0</sub> 60 / orifice L + M	445.1859.0000
N	Lapping stamp no. 9, d <sub>0</sub> 74 / orifice N	445.1959.0000
P	Lapping stamp no. 10, d <sub>0</sub> 92 / orifice P	445.2059.0000
Q + R	Lapping stamp no. 12, d <sub>0</sub> 125 / orifice Q + R	445.2259.0000
T	Lapping stamp no. 13, d <sub>0</sub> 165 / orifice T	445.2359.0000

### Lapping paste

Lapping paste	Supplying-lot	Designation	Application
Tetraboron paste "WL" F 800	Tubes to 100 g net	F grinding-paste 800	Primary lapping
Tetraboron paste "WL" F 1200	Tubes to 100 g net	F grinding-paste 1200	Finishing

## Approvals

Approvals			
	Orifice	D	E – T
<b>Europe</b>			<b>Coefficient of discharge <math>K_{dr}</math></b>
DIN EN ISO 4126-1	Approval No.	07 202 1111Z0012/2/26	
	S/G	0,455	0,801
	L	0,343	0,579
<b>Germany</b>			<b>Coefficient of discharge <math>\alpha_w</math></b>
AD 2000-Merkblatt A2	Approval No.	TÜV SV 1082	
	S/G	0,455	0,801
	L	0,343	0,579
<b>United States</b>			<b>Coefficient of discharge K</b>
ASME Sec. VIII	Approval No.	M37246	M37224
	S/G	Rated slope acc. to ASME VIII, Div. 1 UG-131 (d) (2) G: 1,99 SCFM/psia S: 5,59 PPH/psia	0,801
	Approval No.	M37257	M37235
	L	Rated slope acc. to ASME VIII, Div. 1 UG-131 (d) (2) 3,11 GPM/ $\sqrt{\text{psid}}$	0,579
<b>Canada</b>			<b>Coefficient of discharge K</b>
Canada: CRN	Approval No.	OG0873.9C	
	S/G	Rated slope acc. to ASME VIII, Div. 1 UG-131 (d) (2) G: 1,99 SCFM/psia S: 5,59 PPH/psia	0,801
	L	Rated slope acc. to ASME VIII, Div. 1 UG-131 (d) (2) 3,11 GPM/ $\sqrt{\text{psid}}$	0,579
<b>China</b>			<b>Coefficient of discharge <math>\alpha_w</math></b>
CSBQTS	Approval No.		
	S/G	0,455	0,801
	L	0,343	0,579
<b>Russia</b>			<b>Coefficient of discharge <math>\alpha_w</math></b>
GGTN/ GOSGOTECHNADZOR GOST R	Approval No.	PPC 00-18458	
	S/G	0,455	0,801
	L	0,343	0,579
<b>Classification societies</b>		<b>Homepage</b>	
Bureau Veritas	BV	<a href="http://www.bureauveritas.com">www.bureauveritas.com</a>	The valid certification number is changed with every renewal.
Det Norske Veritas	DNV	<a href="http://www.dnv.com">www.dnv.com</a>	
Germanischer Lloyd	GL	<a href="http://www.gl-group.com">www.gl-group.com</a>	A sample certificate including the valid certification number can be taken from the homepage of the classification societies.
Lloyd' s register EMEA	LREMEA	<a href="http://www.lr.org">www.lr.org</a>	
Registro Italiano Navale	RINA	<a href="http://www.rina.org">www.rina.org</a>	

## Capacities – Steam

Capacities for saturated steam according to AD 2000-Merkblatt A2, based on set pressure plus 10 % overpressure.  
 Capacities at 1 bar (14,5 psig) and below are based on 0,1 bar (1,45 psig) overpressure.

Metric Units	AD 2000-Merkblatt A2 [kg/h]													
Orifice	D	E	F	G	H	J	K	L	M	N	P	Q	R	T
Act. Orifice dia. $d_0$ [mm]	14	14	18	22,5	28,3	36	43	53,5	60,3	66	80	105,5	126,5	161,5
Act. Orifice area $A_0$ [mm <sup>2</sup> ]	154	154	254	398	629	1018	1452	2248	2856	3421	5027	8742	12568	20485
LEO <sub>S/G</sub> <sup>*)</sup> [inch <sup>2</sup> ]	0,111	0,196	0,324	0,506	0,801	1,296	1,849	2,863	3,637	4,357	6,401	11,132	16,004	26,085
Set pressure [bar]	Capacities [kg/h]													
0,2	19	54	89	139	221	357	509	788	1001	1199	1762	3065	4372	7182
0,5	42	90	149	232	367	595	848	1313	1668	1999	2937	5107	7285	11968
1	71	134	221	345	546	883	1260	1951	2479	2969	4363	7587	10823	17780
2	120	217	359	561	888	1437	2050	3174	4032	4830	7096	12341	17603	28920
3	166	296	489	764	1209	1956	2791	4320	5488	6575	9660	16799	23962	39366
4	208	369	610	953	1507	2439	3480	5387	6843	8198	12045	20948	29879	49088
5	248	442	730	1141	1805	2920	4166	6449	8193	9815	14420	25078	35770	58766
6	289	514	850	1328	2101	3399	4850	7508	9537	11426	16787	29194	41642	68413
7	329	585	967	1511	2390	3867	5517	8540	10849	12997	19096	33210	47371	77824
8	369	657	1086	1697	2684	4343	6196	9592	12185	14597	21447	37299	53202	87404
9	410	729	1205	1882	2978	4818	6874	10642	13519	16195	23795	41382	59026	96973
10	450	801	1323	2068	3271	5293	7552	11691	14852	17792	26141	45461	64845	106532
12	531	872	1561	2439	3858	6243	8907	13788	17515	20983	30829	53615	76475	125639
14	610	944	1793	2802	4432	7172	10233	15841	20123	24107	35419	61598	87862	144347
16	691	1085	2030	3172	5018	8120	11584	17933	22781	27291	40097	69733	99467	163411
18	771	1228	2267	3542	5604	9068	12938	20027	25442	30479	44781	77879	111085	182499
20	852	1371	2505	3913	6191	10018	14293	22125	28107	33672	49473	86038	122723	201618
22	931	1515	2735	4273	6760	10940	15608	24161	30693	36770	54024	93952		
24	1012	1654	2973	4645	7349	11891	16965	26262	33363	39968	58723	102125		
26	1093	1798	3211	5018	7938	12845	18327	28369	36039	43175	63434	110318		
28	1174	1943	3451	5392	8529	13802	19692	30483	38724	46391	68159	118536		
30	1256	2087	3691	5766	9122	14762	21061	32602	41417	49617	72899	126779		
32	1338	2233	3931	6143	9718	15725	22435	34729	44118	52853	77654	135048		
34	1416	2378	4161	6502	10286	16644	23747	36760	46698	55944	82195	142945		
36	1498	2517	4403	6879	10883	17611	25126	38895	49411	59194	86970	151250		
38	1581	2663	4646	7259	11483	18582	26511	41039	52134	62457	91764	159586		
40	1664	2810	4889	7639	12085	19557	27901	43191	54868	65732	96576	167955		
50	2083	2958	6123	9567	15134	24490	34940	54088	68711	82315	120941			
60	2506	3704	7364	11506	18203	29456	42025	65055	82643	99006	145463			
70	2945	4455	8656	13525	21396	34624	49398	76467	97141					
80	3388	5236	9957	15558	24613	39828	56823	87962						
90	3854	6023	11326	17697	27997	45305	64636	100056						
100	4324	6852	12708	19856	31413	50832	72522	112264						
120	5349	7688	15720	24562	38858	62880	89710							
140	6505	9510	19117	29870	47255	76468	109096							
160	7842	11565	23045	36008	56965	92180								
180	9527	13941	27996	43744	69203	111985								
200	11793	16936	34657	54151										

<sup>\*)</sup> LEO<sub>S/G</sub> = LESER Effective Orifice steam/gas please refer to page 00/07  
 How to use capacity-sheets refer to page 00/05

## Capacities – Air

Capacities for air according to AD 2000-Merkblatt A2, based on set pressure plus 10 % overpressure at 0 °C and 1013 mbar.  
Capacities at 1 bar (14,5 psig) and below are based on 0,1 bar (1,45 psig) overpressure.

Metric Units		AD 2000-Merkblatt A2 [m <sub>n</sub> <sup>3</sup> /h]													
Orifice	D	E	F	G	H	J	K	L	M	N	P	Q	R	T	
Act. Orifice dia. d <sub>0</sub> [mm]	14	14	18	22,5	28,3	36	43	53,5	60,3	66	80	105,5	126,5	161,5	
Act. Orifice area A <sub>0</sub> [mm <sup>2</sup> ]	154	154	254	398	629	1018	1452	2248	2856	3421	5027	8742	12568	20485	
LEO <sub>S/G</sub> <sup>*)</sup> [inch <sup>2</sup> ]	0,111	0,196	0,324	0,506	0,801	1,296	1,849	2,863	3,637	4,357	6,401	11,132	16,004	26,085	
Set pressure [bar]	Capacities [m <sub>n</sub> <sup>3</sup> /h]														
0,2	22	63	103	161	255	413	590	913	1159	1389	2041	3549	5062	8317	
0,5	50	106	175	273	432	664	935	1416	1789	2153	3081	4399	6157	8865	
1	84	159	263	411	651	1018	1452	2248	2856	3421	5027	8742	12568	20485	
2	145	262	434	678	1072	1656	2339	3556	4544	5421	7742	11063	15568	22685	
3	203	361	597	934	1477	2266	3219	4862	6249	7471	10652	15363	21568	31185	
4	255	454	750	1172	1854	2835	4049	6025	7817	9341	13382	19163	26868	39375	
5	307	546	902	1410	2231	3419	4949	7241	9417	11281	16252	23063	32368	47375	
6	359	638	1055	1648	2608	3969	5679	8341	10917	13181	19052	27063	37668	54375	
7	411	730	1207	1887	2985	4519	6549	9541	12517	15181	21752	30863	42668	60875	
8	463	823	1360	2125	3362	5079	7349	10741	14117	17181	24552	34063	46868	66375	
9	515	915	1512	2363	3739	5599	8149	12041	15817	19381	27452	37663	51368	71875	
10	567	1007	1665	2601	4116	6149	8899	13241	17417	21381	29952	41163	55868	78075	
12	670	1099	1970	3078	4869	7249	10499	15441	20217	24681	34552	47163	63368	87375	
14	774	1192	2275	3555	5623	8349	12149	17741	23317	28581	39552	53163	71368	97875	
16	878	1376	2580	4031	6377	9449	13749	20041	26617	32681	44852	59863	80368	109875	
18	982	1561	2885	4508	7131	10649	15549	22541	29617	36381	49852	66163	88368	120875	
20	1085	1745	3190	4984	7885	11749	17149	24841	32617	39681	53452	71163	95368	130875	
22	1189	1930	3495	5461	8639	12849	18649	26841	35217	42681	57452	76163	101868	139875	
24	1293	2114	3800	5937	9393	13949	20149	29041	38217	46381	62152	82163	109368	148875	
26	1397	2299	4105	6414	10147	15149	21749	31641	41417	50181	67452	89163	118868	161875	
28	1501	2483	4410	6890	10900	16149	23249	34041	44417	53681	72452	96163	128368	175875	
30	1604	2668	4715	7367	11654	17149	24649	36041	47017	56681	76452	102163	136868	186875	
32	1708	2852	5020	7843	12408	18149	26049	38041	49617	59681	80452	107163	143868	198875	
34	1812	3037	5325	8320	13162	19149	27449	40041	52017	62681	84452	112163	151868	210875	
36	1916	3221	5630	8796	13916	20149	29049	42041	54417	65681	88452	118163	160868	222875	
38	2019	3406	5935	9273	14670	21149	30449	44041	56817	68681	92452	124163	169868	234875	
40	2123	3590	6240	9749	15424	22149	31849	46041	58817	71681	96452	130163	178868	246875	
50	2642	3775	7765	12132	19193	28049	40449	58041	75417	92681	124452	166163	223868	306875	
60	3161	4697	9289	14515	22963	34149	49449	70041	91417	111681	150452	201163	271868	371875	
70	3680	5620	10814	16898	26732	39649	56449	79041	104417	128681	174452	233163	313868	426875	
80	4199	6542	12339	19280	30501	45149	64449	89041	118417	145681	198452	266163	358868	496875	
90	4718	7465	13864	21663	34271	50149	71449	100041	133417	163681	222452	298163	403868	551875	
100	5237	8387	15389	24046	38040	55149	78449	110041	146417	181681	248452	333163	448868	606875	
120	6274	9309	18439	28811	45579	67149	95449	133041	177417	224681	304452	408163	548868	746875	
140	7312	11154	21489	33576	53118	78149	110649	156041	208417	266681	361452	483163	648868	886875	
160	8350	12999	24539	38342	60657	88149	125449	174041	232417	296681	401452	533163	718868	996875	
180	9388	14844	27588	43107	68195	100149	142449	196041	260417	336681	451452	598163	808868	1106875	
200	10426	16689	30638	47872											
220	11463	18534	33688	52638											
240	12501	20379	36738	57403											
260	13539	22224	39788												
280	14577	24069	42838												
300	15614	25914	45887												
350	18209	27759													
400	20803	32371													

<sup>\*)</sup> LEO<sub>S/G</sub> = LESER Effective Orifice steam/gas please refer to page 00/07  
How to use capacity-sheets refer to page 00/05

## Capacities – Water

Capacities for water according to AD 2000-Merkblatt A2, based on set pressure plus 10 % overpressure at 20 °C (68 °F).  
 Capacities at 1 bar (14,5 psig) and below are based on 0,1 bar (1,45 psig) overpressure.

Type 526

Metric Units		AD 2000-Merkblatt A2 [10 <sup>3</sup> kg/h]													
Orifice	D	E	F	G	H	J	K	L	M	N	P	Q	R	T	
Act. Orifice dia. d <sub>0</sub> [mm]	14	14	18	22,5	28,3	36	43	53,5	60,3	66	80	105,5	126,5	161,5	
Act. Orifice area A <sub>0</sub> [mm <sup>2</sup> ]	154	154	254	398	629	1018	1452	2248	2856	3421	5027	8742	12568	20485	
LEO <sub>L</sub> <sup>*)</sup> [inch <sup>2</sup> ]	0,126	0,213	0,351	0,549	0,868	1,405	2,005	3,104	3,943	4,724	6,940	12,070	17,353	28,283	
Set pressure [bar]	Capacities [10 <sup>3</sup> kg/h]														
0,2	1,37	2,49	4,11	6,42	10,2	16,4	23,5	36,3	46,1	55,3	81,2	141	201	331	
0,5	1,94	3,52	5,81	9,09	14,4	23,3	33,2	51,4	65,3	78,2	115	200	285	468	
1	2,63	4,76	7,87	12,3	19,5	31,5	44,9	69,6	88,4	106	156	270	386	634	
2	3,72	6,74	11,1	17,4	27,5	44,5	63,5	98,4	125	150	220	383	546	896	
3	4,55	8,25	13,6	21,3	33,7	54,5	77,8	120	153	183	269	468	668	1098	
4	5,26	9,53	15,7	24,6	38,9	63	89,9	139	177	212	311	541	772	1268	
5	5,88	10,7	17,6	27,5	43,5	70,4	100	156	198	237	348	605	863	1417	
6	6,44	11,7	19,3	30,1	47,7	77,1	110	170	216	259	381	663	945	1553	
7	6,95	12,6	20,8	32,5	51,5	83,3	119	184	234	280	411	716	1021	1677	
8	7,43	13,5	22,3	34,8	55,0	89,1	127	197	250	299	440	765	1091	1793	
9	7,88	14,3	23,6	36,9	58,4	94,5	135	209	265	318	467	811	1157	1901	
10	8,31	15,1	24,9	38,9	61,5	99,6	142	220	279	335	492	855	1220	2004	
12	9,10	15,8	27,3	42,6	67,4	109	156	241	306	367	539	937	1336	2196	
14	9,83	16,5	29,5	46,0	72,8	118	168	260	331	396	582	1012	1444	2372	
16	10,5	17,8	31,5	49,2	77,8	126	180	278	353	423	622	1082	1543	2535	
18	11,1	19,1	33,4	52,2	82,6	134	191	295	375	449	660	1148	1637	2689	
20	11,8	20,2	35,2	55,0	87,0	141	201	311	395	473	696	1210	1725	2835	
22	12,3	21,3	36,9	57,7	91,3	148	211	326	414	496	729	1269			
24	12,9	22,3	38,6	60,3	95,3	154	220	341	433	519	762	1325			
26	13,4	23,3	40,1	62,7	99,2	161	229	355	451	540	793	1379			
28	13,9	24,3	41,7	65,1	103	167	238	368	468	560	823	1431			
30	14,4	25,2	43,1	67,4	107	172	246	381	484	580	852	1481			
32	14,9	26,1	44,5	69,6	110	178	254	393	500	599	880	1530			
34	15,3	26,9	45,9	71,7	113	184	262	406	515	617	907	1577			
36	15,8	27,8	47,2	73,8	117	189	270	417	530	635	933	1623			
38	16,2	28,6	48,5	75,8	120	194	277	429	545	653	959	1667			
40	16,6	29,4	49,8	77,8	123	199	284	440	559	669	984	1711			
50	18,6	30,1	55,7	87,0	138	223	318	492	625	748	1100				
60	20,4	33,7	61,0	95,3	151	244	348	539	684	820	1205				
70	22,0	36,9	65,9	103	163	263	376	582	739						
80	23,5	39,8	70,4	110	174	282	402	622							
90	24,9	42,6	74,7	117	185	299	426	660							
100	26,3	45,2	78,7	123	195	315	449	696							
120	28,8	47,6	86,2	135	213	345	492								
140	31,1	52,2	93,2	146	230	373	532								
160	33,2	56,4	99,6	156	246	398									
180	35,3	60,2	106	165	261	423									
200	37,2	63,9	111	174											
220	39,0	67,4	117	182											
240	40,7	70,6	122	191											
260	42,4	73,8	127												
280	44,0	76,8	132												
300	45,5	79,7	136												
350	49,2	82,5													
400	52,6	89,1													

<sup>\*)</sup> LEO<sub>L</sub> = LESER Effective Orifice liquids please refer to page 00/08  
 How to use capacity-sheets refer to page 00/05

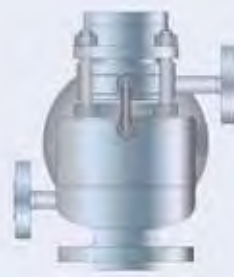
## Available Options

For further information refer to "Accessories and Options", page 99/01

**Butt-weld connection**

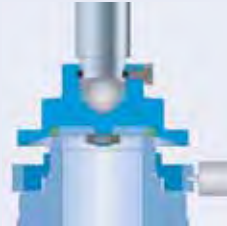


**Heating jacket**



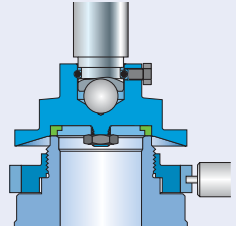
**O-ring disc**

J20: FFKM "C"  
J21: CR "K"  
J22: EPDM "F"  
J23: FKM "L"



**Disc with inserted sealing plate**

J44: PTFE-FDA "A"  
J48: PCTFE "G"  
J49: SP "T"

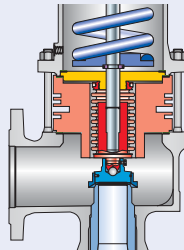


**Open bonnet**  
See Art.-No.

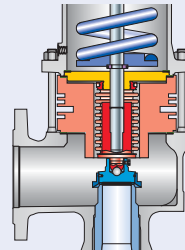


**Stainless steel bellows**

J68: Open bonnet  
J78: Closed bonnet  
J88: High temperature equipment



**Conversion kit for stainless steel bellows**  
See Art.-No. page 01/79



**Screwed cap H2**  
H2



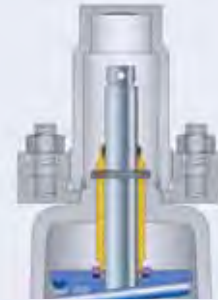
**Plain lever H3**  
H3



**Packed lever H4**  
H4



**Bolted cap H1**  
H1



**Bolted lifting device H6**  
H6



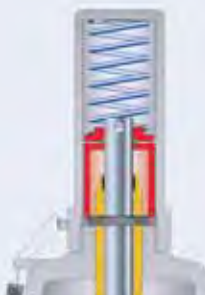
**Test gag**  
J69: H4  
J70: H2



**Lift indicator**  
J39: Adaptor for lift indicator H4  
J93: Lift indicator



**O-ring-damper H2**  
J65

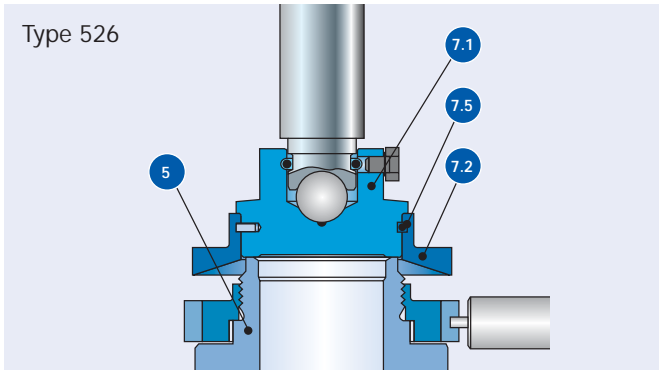


**O-ring-damper H4**  
J66



## Metal seat – Nozzle item 5 and disc subassembly item 7

The LESER metal seats (disc and nozzle) are lapped to optical flatness to ensure a tight seal. LESER safety relief valves are supplied with standard leak tightness according to API 527. Improved tightness is available on request.



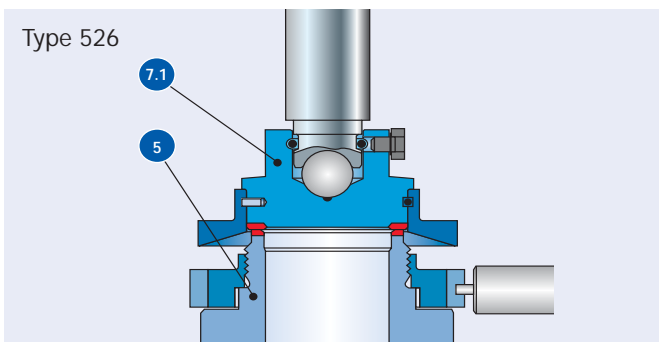
### Stellited sealing surfaces

The sealing surfaces of stainless steel disc and nozzle can be stellited by build-up welding. Stellite is a cobalt-chromium based, non-ferrous alloy with increased hardness, corrosion resistance and wear resistance up to high temperatures.

LESER recommends stellited sealing surfaces for Type 526 valves (seat and disc 1.4404 / 316L) in the following cases:

- high pressure applications, due to the high stress of the sealing surfaces
- high temperature applications to avoid a permanent deformation of the sealing surfaces, due to the material properties of the seat and disc
- applications with abrasive fluids to increase the wear resistance of the sealing surfaces

The stellited sealing surfaces of disc and nozzle are standard for high pressure and high temperature designs; see table materials page 99/07.



Materials for disc and nozzle see page 99/07.

### Hardness metal seat

Material		Hardness of sealing surfaces		
EN	ASME	Values from standards or manufacturers specification		Average value LESER stock
EN 10088-3, 1.4122 hardened	Hardened stainless steel	≥ 40 HRC	LWN 325.01 Harding procedure	42 – 46 HRC
EN 10272, 1.4404	SA 479 316L	≤ 215 HBW	EN 10272 Table 7	16 – 19 HRC <sup>1)</sup>
EN 10272, 1.4404 stellited	SA 479 316L stellited	≥ 35 HRC	Manufacturers specification	40 HRC

HBW: BRINELL hardness acc. DIN EN ISO 6506-1 / HRC: ROCKWELL hardness acc. DIN EN ISO 6508-1

<sup>1)</sup> Rockwell hardness values below 20 HRC are not allowed according to DIN EN ISO 6508-1. Lower, fictitious values were created for better comparison.

## Soft seal selection

Soft seal selection								
Abbreviation ASTM 1418	Trade name (Designation)	Code- letter <sup>1)</sup>	Option Code	T <sub>min</sub>		T <sub>max</sub>		Application <sup>2)</sup>
				[°C]	[°F]	[°C]	[°F]	
<b>O-ring</b>								
CR	Neoprene®	K	J21	-40	-40	100	212	Parafin oil, silicone oil and grease, water and waterbased solvents, refrigerants, ozone
NBR	Buna-N® (Nitrile-Butadiene)	N	J30	-25	-13	100	212	Hydraulic oil, vegetable and animal grease and oil
EPDM	Buna-EP® (Ethylene-Propylene-Diene)	D	J22	-45	-49	150	302	Hot water and superheated steam up to 150 °C, 302 °F, some organic and inorganic acids, silicone oil and grease, FDA compliant
FKM	Viton® (Fluorocarbon)	L	J23	20	-4	180	356	High temperature service (no superheated steam), mineral oil and grease, silicone oil and grease, vegetable and animal grease and oil, ozone, FDA compliant compound available on request
FFKM	Kalrez® (Perfluoro)	C	J20	0	32	250	482	Nearly all chemicals, standard compound is Kalrez® 6375 with steam resistance, FDA compliant compound available on request
<b>Sealing plate</b>								
SP	VESPEL SP-1® (Polyimide)	T	J49	-270	-454	300	572	High temperature and high pressure applications (no steam), for chemical resistance refer to manufacturers guide
PCTFE	KEL-F® (Polychlorotrifluoroethylene)	G	J48	-270	-454	204	400	Cryogenic and refrigeration applications, flammable media applications, (e.g. gaseous oxygen) up to 50 bar, 725 psig at 60 °C, 140 °F
PTFE	Teflon® (Polytetrafluoroethylene)	A	J44	-184	-300	150	302	Nearly all chemicals
Other than listed		X	For other materials please contact your local representative or sales@leser.com					

<sup>1)</sup> The code letters will be stamped on the disc (Item 1).

<sup>2)</sup> Pressure and temperature service must be considered in any case.

Chemical resistance information is supplied by the O-ring manufacturer. LESER can not take any warranty.



## Balanced bellows – Subassembly item 15

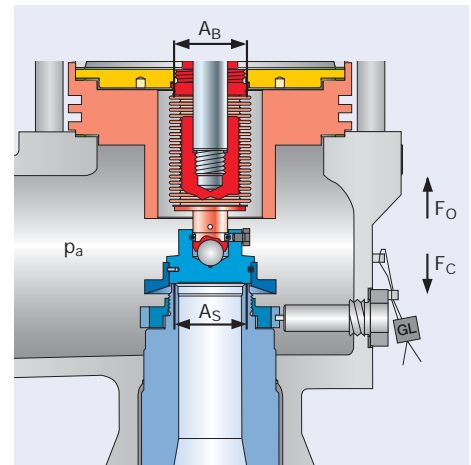
LESER is able to provide a balanced bellows design through the use of stainless steel bellows.

Balanced bellows are generally used for two applications:

- to compensate for back pressure
- to seal off the bonnet from the outlet chamber

### Compensation for back pressure

The back pressure acts on the reverse side of the disc, creating a force in the closing direction ( $F_C$ ) of the safety valve. The magnitude of this force depends on the seat area and the level of the back pressure. The balanced bellows constitute an opposite area with the same area like the seat. The back pressure acts on, thereby reducing or eliminating the closing force. This reduction of the force in the closing direction can be viewed as a compensating force acting in the opening direction ( $F_O$ ).



A quantitative representation is shown in the table below:

Actual area	Back pressure	Actual force	Direction of force	Compensation criteria
Seat area = $A_S$	$p_a$	$F_C = p_a \times A_S$	closing	$A_S = A_B$
Bellows area = $A_B$	$p_a$	$F_O = p_a \times A_B$	opening	$F_C = F_O$

### Sealing the bonnet from the outlet chamber

LESER's balanced bellows reliably seal the bonnet from the outlet chamber; protecting the guide, moving parts and the spring from problems associated with the fluid, such as dirt, corrosion, impurities of temperature.

#### Operating conditions

Temperature limits	[°C]	up to 550 °C			
	[°F]	up to 1000 °F			
Minimum set pressure	Orifice	Steam /Air		Water	
		[bar]	[psig]	[bar]	[psig]
	D	3,5	50,8	3,5	50,8
	E	3,5	50,8	3,5	50,8
	F	0,6	8,7	2,0	29
	G	3,2	46,4	2,8	40,6
	H	2,8	40,6	2,8	40,6
	J	3,5	50,8	5,0	72,5
	K	2,2	31,9	2,5	36,3
	L	3,5	50,8	3,5	50,8
	M	2,6	37,7	2,2	31,9
	N	1,8	26,1	1,8	26,1
	P	2,2	31,9	2,2	31,9
	Q	1,3	18,8	2,3	33,5
R	1,0	14,5	1,4	20,3	
T	1,2	17,4	2,5	36,3	

## Balanced bellows – Subassembly item 15

Balanced bellows		Orifice D – 6 R 8	6 R 10 – 8 T 10
Type 526			
Design			
Bonnet spacer		*	–
Bellows housing		*	*
The bellows housing protects the bellows against turbulences during discharge to avoid bellows vibration and to guarantee a longer life-time.			
Control thread	ASME B1.20.1 NPT 1/2	*	*
A control thread ASME B1.20.1 NPT 1/2 is fitted into the bonnet to monitor the condition of the bellows. A discharge pipe can be fitted to the NPT 1/2 control thread to allow safe discharge of aggressive or toxic fluids.			
Bellows materials	For standard bellows materials please refer to page 01/05. Hastelloy® and Inconel® are available as well.		
Option code			
Open bonnet	Standard bellows	J68	J68
	Low pressure bellows	–	–
	Other materials than stand.	S15 + material designation	S15 + material designation
Closed bonnet	Standard bellows	J78	J78
	Low pressure bellows	–	–
	Other materials than stand.	S15 + material designation	S15 + material designation

The dimensions and weights of a safety valve with balanced bellows are displayed in the tables “Dimensions and weights”.  
The temperature range is displayed in the tables “Pressure temperature ratings”.

## Balanced bellows conversion kits

LESER balanced bellows conversion kits are available to convert from a conventional design into a balanced bellows design with little effort. The conversion kits contain all the necessary parts for conversion as well as instructions.

Conversion kits				
Item	Component	Quantity	Material	Remarks
8	Guide	1	1.4404 316L	
11	Bonnet spacer / Cooling spool	1	1.4404 316L	
12	Spindle	1	1.4404 316L	
15	Bellows	1	1.4571 316Ti	
55	Stud	4, 8, 12 depends on valve size	1.4401 B8M	
60	Gasket	2, 3 depends on valve size	Graphite / 1.4401 Graphite / 316	
–	Installation instruction	1		LWN 037.05

For article no. and spare parts please refer to spare part page 01/79.

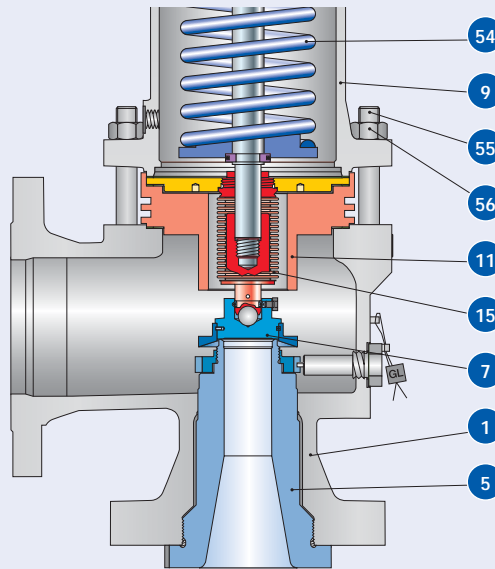
## High temperature equipment

For fluid temperatures higher than 400 °C / 752 °F high temperature equipment is necessary to protect the inner parts and the spring against inadmissible influence of temperature. The maximum inlet temperature is 550 °C / 1022 °F. The equipment shown is only fitted in Type 5267. For all other Types an open bonnet and a stainless steel bellows is necessary for fluid temperatures exceeding 400 °C / 752 °F up to max. 450 °C / 842 °F.

### Specification

Type 5267

Design



Option code

J88

#### Operating conditions

Temperature limits	[°C]	> 400 fluid temperature
	[°F]	> 752 fluid temperature
	max. [°C]	550 inlet temperature
	max. [°F]	1022 inlet temperature

### Materials

#### High temperature equipment

Item	Component	
1	Body	1.7357
		WC6
5	Nozzle	1.4404
		316L
7	Disc	1.4404 stellited
		316L stellited
9	Bonnet open	1.0619
		WCB
11	Cooling spool	1.4404
		316L
15	Bellows	1.4571
		316L
54	Spring	1.7102, 1.8159
		High temperature alloy steel
55	Studs	1.7709
		B16
56	Nuts	1.7258
		7M