



# Type 431, 433

**Flanged Safety  
Relief Valves  
– spring loaded**

Metric Units



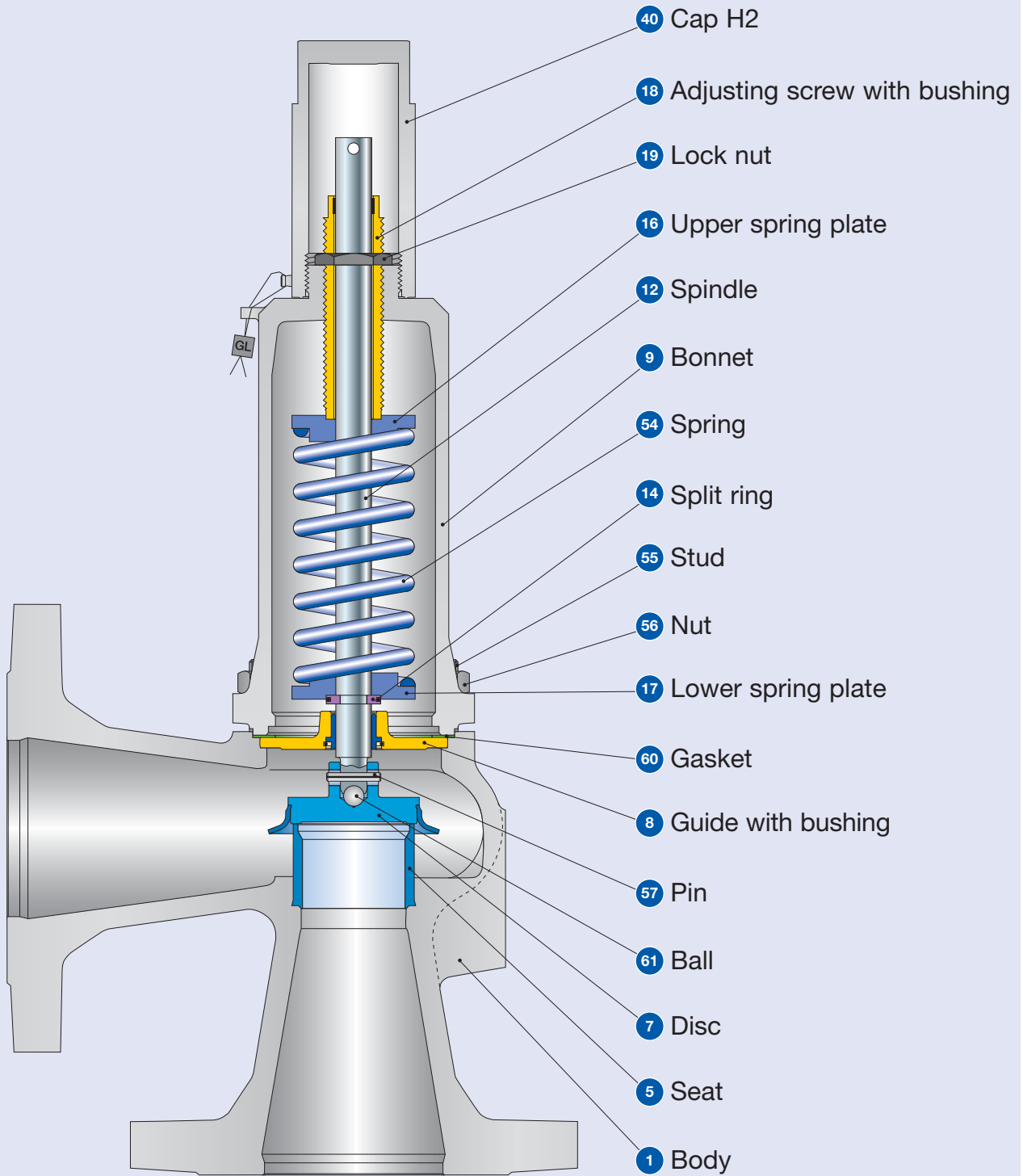
## Facts

**LESER**

[The-Safety-Valve.com](http://The-Safety-Valve.com)

## Conventional design

Type 433



## Conventional design

Materials		Type 4311 / 4331	Type 4315 / 4335	Type 4312 / 4332	Type 4334
<b>1</b>	<b>Body</b>	0.6025	0.7043	1.0619	1.4408
		Cast iron	Ductile Gr. 60-40-18	SA 216 WCB	SA 351 CF8M
<b>5</b>	Seat	1.4404	1.4404	1.4404	1.4404
		316L	316L	316L	316L
<b>7</b>	Disc	1.4122	1.4122	1.4122	1.4404
		Hardened stainless steel	Hardened stainless steel	Hardened stainless steel	316L
<b>8</b>	Guide	1.4104, 1.0501	1.4104, 1.0501	1.4104, 1.0501, 1.0570	1.4404
		Chrome or carbon steel	Chrome or carbon steel	Chrome or carbon steel	316L
	with bushing	1.4104 tenifer	1.4104 tenifer	1.4104 tenifer	–
		Chrome steel tenifer	Chrome steel tenifer	Chrome steel tenifer	–
<b>9</b>	<b>Bonnet</b>	0.7040	0.7040	0.7040	1.4408, 1.4404
		Ductile Gr. 60-40-18	Ductile Gr. 60-40-18	Ductile Gr. 60-40-18	SA 351 CF8M, SA 479 316L
<b>12</b>	Spindle	1.4021	1.4021	1.4021	1.4404
		420	420	420	316L
<b>14</b>	Split ring	1.4104	1.4104	1.4104	1.4404
		Chrome steel	Chrome steel	Chrome steel	316L
<b>16/17</b>	Spring plate	1.0718	1.0718	1.0718	1.4404
		Steel	Steel	Steel	316L
<b>18</b>	Adjusting screw with bushing	1.4104 PTFE	1.4104 PTFE	1.4104 PTFE	1.4404 PTFE
		Chrome steel PTFE	Chrome steel PTFE	Chrome steel PTFE	316L PTFE
<b>19</b>	Lock nut	1.0718	1.0718	1.0718	1.4404
		Steel	Steel	Steel	316L
<b>40</b>	Cap H2	1.0718	1.0718	1.0718	1.4404
		12L13	12L13	12L13	316L
<b>54</b>	Spring, standard	1.1200, 1.8159, 1.7102	1.1200, 1.8159, 1.7102	1.1200, 1.8159, 1.7102	1.4310
		Carbon steel	Carbon steel	Carbon steel	Stainless steel
	Spring, optional	1.4310	1.4310	1.4310	–
		Stainless steel	Stainless steel	Stainless steel	–
<b>55</b>	Stud	1.1181	1.1181	1.1181	1.4401
		Steel	Steel	Steel	B8M
<b>56</b>	Nut	1.0501	1.0501	1.0501	1.4401
		2H	2H	2H	8M
<b>57</b>	Pin	1.4310	1.4310	1.4310	1.4310
		Stainless steel	Stainless steel	Stainless steel	Stainless steel
<b>60</b>	Gasket	Graphite / 1.4401	Graphite / 1.4401	Graphite / 1.4401	Graphite / 1.4401
		Graphite / 316	Graphite / 316	Graphite / 316	Graphite / 316
<b>61</b>	Ball	1.3541	1.3541	1.3541	1.4401
		Hardened stainless steel	Hardened stainless steel	Hardened stainless steel	316

**Please note:**

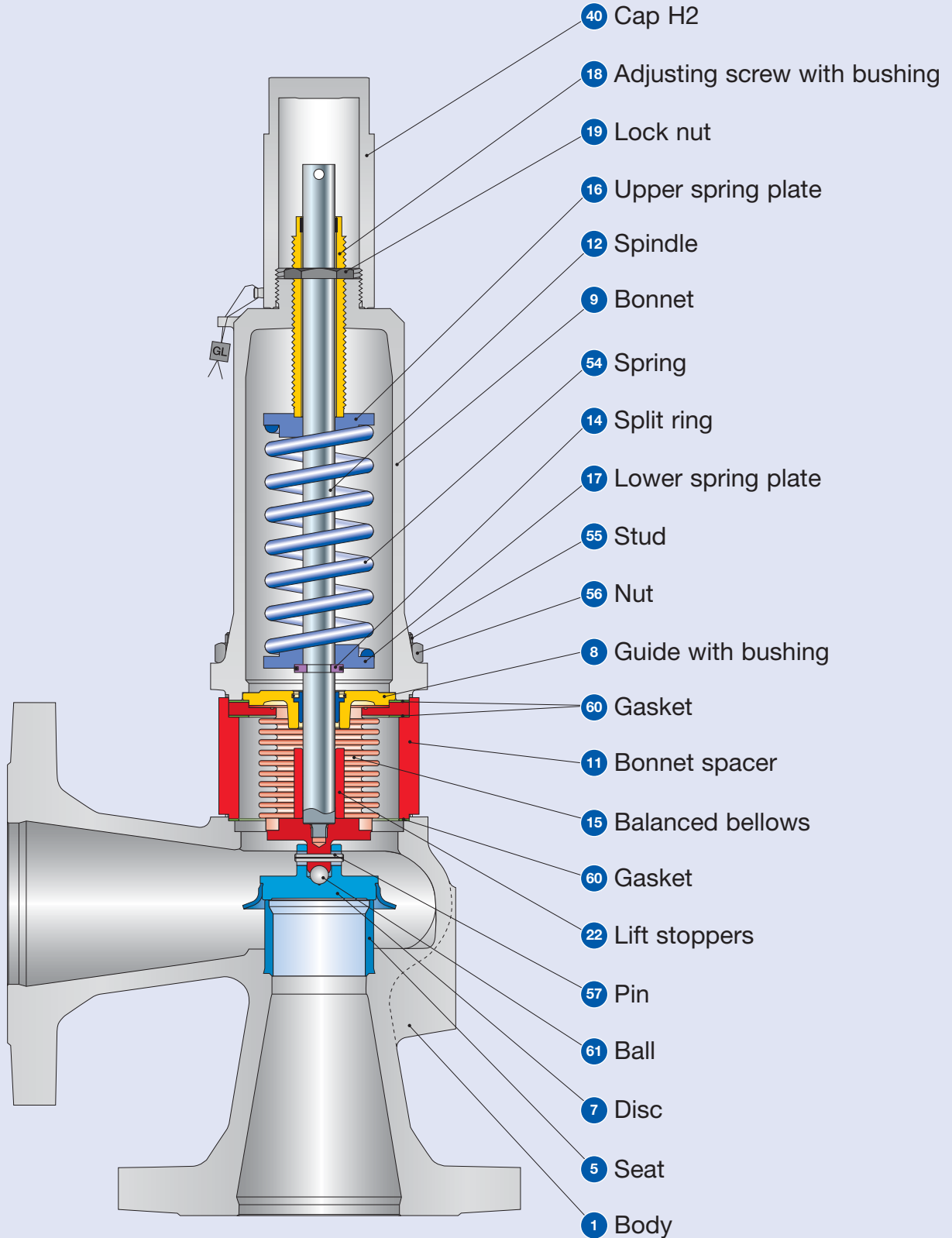
- LESER reserves the right to make changes.
- If several materials are specified LESER defines the material.
- LESER may use higher quality materials without giving prior notice.
- Each component can be constructed of another material according to the customer's specification.
- All components exposed to pressure are highlighted in bold. The material will be specified according to DIN and ASTM here.

# Type 431, 433

LESER

Balanced bellows design

Type 433



## Balanced bellows design

Materials					
Item	Component	Type 4311 / 4331	Type 4315 / 4335	Type 4312 / 4332	Type 4334
<b>1</b>	<b>Body</b>	0.6025	0.7043	1.0619	1.4408
		Cast iron	Ductile Gr. 60-40-18	SA 216 WCB	SA 351 CF8M
<b>5</b>	Seat	1.4404	1.4404	1.4404	1.4404
		316L	316L	316L	316L
<b>7</b>	Disc	1.4122	1.4122	1.4122	1.4404
		Hardened stainless steel	Hardened stainless steel	Hardened stainless steel	316L
<b>8</b>	Guide	1.4104, 1.0501	1.4104, 1.0501	1.4104, 1.0501, 1.0570	1.4404
		Chrome or stainless steel	Chrome or stainless steel	Chrome or stainless steel	316L
	with bushing	1.4104 tenifer	1.4104 tenifer	1.4104 tenifer	-
		Chrome steel	Chrome steel	Chrome steel	-
<b>9</b>	<b>Bonnet</b>	0.7040	0.7040	0.7040	1.4408, 1.4404
		Ductile Gr. 60-40-18	Ductile Gr. 60-40-18	Ductile Gr. 60-40-18	SA 351 CF8M, SA 479 316L
<b>11</b>	Bonnet spacer	1.4404	1.4404	1.4404	1.4404
		316L	3316L	316L	316L
<b>12</b>	Spindle	1.4404	1.4404	1.4404	1.4404
		316L	316L	316L	316L
<b>14</b>	Split ring	1.4104	1.4104	1.4104	1.4404
		Chrome steel	Chrome steel	Chrome steel	316L
<b>15</b>	Balanced bellows	1.4571	1.4571	1.4571	1.4571
		316Ti	316Ti	316Ti	316Ti
<b>16/17</b>	Spring plate	1.0718	1.0718	1.0718	1.4404
		Steel	Steel	Steel	316L
<b>18</b>	Adjusting screw with bushing	1.4104 PTFE	1.4104 PTFE	1.4104 PTFE	1.4404 PTFE
		Chrome steel PTFE	Chrome steel PTFE	Chrome steel PTFE	316L PTFE
<b>19</b>	Lock nut	1.0718	1.0718	1.0718	1.4404
		Steel	Steel	Steel	316L
<b>22</b>	Lift stoppers	1.4404	1.4404	1.4404	1.4404
		316L	316L	316L	316L
<b>40</b>	Cap H2	1.0718	1.0718	1.0718	1.4404
		12L13	12L13	12L13	316L
<b>54</b>	Spring, standard	1.1200, 1.8159, 1.7102	1.1200, 1.8159, 1.7102	1.1200, 1.8159, 1.7102	1.4310
		Chrome steel	Chrome steel	Chrome steel	Stainless steel
	Spring, optional	1.4310	1.4310	1.4310	-
		Stainless steel	Stainless steel	Stainless steel	-
<b>55</b>	Stud	1.4401	1.4401	1.4401	1.4401
		B8M	B8M	B8M	B8M
<b>56</b>	Nut	1.4401	1.4401	1.4401	1.4401
		8M	8M	8M	8M
<b>57</b>	Pin	1.4310	1.4310	1.4310	1.4310
		Stainless steel	Stainless steel	Stainless steel	Stainless steel
<b>60</b>	Gasket	Graphite / 1.4401	Graphite / 1.4401	Graphite / 1.4401	Graphite / 1.4401
		Graphite / 316	Graphite / 316	Graphite / 316	Graphite / 316
<b>61</b>	Ball	1.3541	1.3541	1.3541	1.4401
		Hardened stainless steel	Hardened stainless steel	Hardened stainless steel	316

**Please note:**

- LESER reserves the right to make changes.
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- LESER may use higher quality materials without giving prior notice.
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## How to order – Article numbers

Article numbers														
		O-ring disc	Metal disc											
	DN <sub>i</sub>	15	15	20	25	32	40	50	65	80	100	125	150	
	DN <sub>o</sub>	15	15	20	25	32	40	50	65	80	100	125	150	
	Actual orifice diameter d <sub>o</sub> [mm]	12	12	18	18	18	23	29	37	46	60	74	92	
	Actual orifice area A <sub>o</sub> [mm <sup>2</sup> ]	113	113	254	254	254	416	661	1075	1662	2827	4301	6648	
<b>Body material: 0.6025 (cast iron)</b>														
<b>Bonnet closed</b>	<b>H2</b>	Art.-No. 4331.	8502	3992	4012	4022	4032	4042	4052	4062	4072	4082	-	-
	<b>H3</b>	Art.-No. 4331.	8503	3993	4013	4023	4033	4043	4053	4063	4073	4083	-	-
	<b>H4</b>	Art.-No. 4331.	8504	3994	4014	4024	4034	4044	4054	4064	4074	4084	-	-
<b>open</b>	<b>H3</b>	Art.-No. 4311.	8505	3995	4015	4025	4035	4045	4055	4065	4075	4085	-	-
<b>Body material: 0.7043 (Ductile Gr. 60-40-18)</b>														
<b>Bonnet closed</b>	<b>H2</b>	Art.-No. 4335.	8532	8752	8762	8772	8782	8792	8802	8812	8822	8832	-	-
	<b>H3</b>	Art.-No. 4335.	8533	8753	8763	8773	8783	8793	8803	8813	8823	8833	-	-
	<b>H4</b>	Art.-No. 4335.	8534	8754	8764	8774	8784	8794	8804	8814	8824	8834	-	-
<b>open</b>	<b>H3</b>	Art.-No. 4315.	8535	8755	8765	8775	8785	8795	8805	8815	8825	8835	-	-
<b>Body material: 1.0619 (WCB)</b>														
<b>Bonnet closed</b>	<b>H2</b>	Art.-No. 4332.	8512	4122	4142	4152	4162	4172	4182	4192	4202	4212	4222	4232
	<b>H3</b>	Art.-No. 4332.	8513	4123	4143	4153	4163	4173	4183	4193	4203	4213	4223	4233
	<b>H4</b>	Art.-No. 4332.	8514	4124	4144	4154	4164	4174	4184	4194	4204	4214	4224	4234
<b>open</b>	<b>H3</b>	Art.-No. 4312.	8515	4125	4145	4155	4165	4175	4185	4195	4205	4215	4225	4235
<b>Body material: 1.4408 (CF8M)</b>														
<b>Bonnet closed</b>	<b>H2</b>	Art.-No. 4334.	8522	4252	4272	4282	4292	4302	4312	4322	4332	4342	-	-
	<b>H4</b>	Art.-No. 4334.	8524	4254	4274	4284	4294	4304	4314	4324	4334	4344	-	-

## Pressure temperature ratings

### Metric units

	O-ring disc	Metal disc											
DN <sub>i</sub>	15	15	20	25	32	40	50	65	80	100	125	150	
DN <sub>o</sub>	15	15	20	25	32	40	50	65	80	100	125	150	
Actual orifice diameter d <sub>0</sub> [mm]	12	12	18	18	18	23	29	37	46	60	74	92	
Actual orifice area A <sub>0</sub> [mm <sup>2</sup> ]	113	113	254	254	254	416	661	1075	1662	2827	4301	6648	

#### Body material: 0.6025 (cast iron)

DIN flange	Inlet		PN 16										-	-		
	Outlet		PN 16													
<b>Minimum set pressure</b>	p [bar <sub>g</sub> ]	S/G/L	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-	-
<b>Min. set pressure<sup>1)</sup></b> standard bellows	p [bar <sub>g</sub> ]	S/G/L	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	-	-
<b>Min. set pressure</b> low pressure bellows	p [bar <sub>g</sub> ]	S/G/L	-	-	2.0	2.0	2.0	1.8	1.9	1.8	1.8	1.2	-	-	-	-
<b>Maximum set pressure</b>	p [bar <sub>g</sub> ]	S/G/L	16	16	16	16	16	16	16	16	16	16	16	16	-	-
<b>Max. set pressure</b> with special spring	p [bar <sub>g</sub> ]	S/G/L	16	16	16	16	16	16	16	16	16	16	16	16	-	-
<b>Temperature<sup>2)</sup></b> acc. to DIN EN	min. [°C]	-10											-10	-	-	
	max. [°C]	+150											+300	-	-	

#### Body material: 0.7043 (Ductile Gr. 60-40-18)

DIN flange	Inlet		PN 40										-	-		
	Outlet		PN 40													
<b>Minimum set pressure</b>	p [bar <sub>g</sub> ]	S/G/L	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-	-
<b>Min. set pressure<sup>1)</sup></b> standard bellows	p [bar <sub>g</sub> ]	S/G/L	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	-	-
<b>Min. set pressure</b> low pressure bellows	p [bar <sub>g</sub> ]	S/G/L	-	-	2.0	2.0	2.0	1.8	1.9	1.8	1.8	1.2	-	-	-	-
<b>Maximum set pressure</b>	p [bar <sub>g</sub> ]	S/G/L	16	16	16	16	16	16	16	16	16	16	16	16	-	-
<b>Max. set pressure</b> with special spring	p [bar <sub>g</sub> ]	S/G/L	16	16	16	16	16	16	16	16	16	16	16	16	-	-
<b>Temperature<sup>2)</sup></b> acc. to DIN EN	min. [°C]	-45											-60	-	-	
	max. [°C]	+150											+350	-	-	

<sup>1)</sup> Min. set pressure of standard bellows = max. set pressure of bellows for low set pressure.

<sup>2)</sup> The temperature is limited by the soft seal material (see page 99/10). The values given here are valid for EPDM. Between -10°C and the lowest specified application temperature, proceed acc. to AD 2000-Merkblatt W10.

## Pressure temperature ratings

Metric units															
		O-ring disc	Metal disc												
	DN <sub>i</sub>	15	15	20	25	32	40	50	65	80	100	125	150		
	DN <sub>o</sub>	15	15	20	25	32	40	50	65	80	100	125	150		
	Actual orifice diameter d <sub>0</sub> [mm]	12	12	18	18	18	23	29	37	46	60	74	92		
	Actual orifice area A <sub>0</sub> [mm <sup>2</sup> ]	113	113	254	254	254	416	661	1075	1662	2827	4301	6648		
<b>Body material: 1.0619 (WCB)</b>															
<b>DIN flange</b>		Inlet	PN 40												
		Outlet	PN 40												
<b>Minimum set pressure</b>	p [bar <sub>g</sub> ] S/G/L	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
<b>Min. set pressure<sup>1)</sup> standard bellows</b>	p [bar <sub>g</sub> ] S/G/L	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		
<b>Min. set pressure low pressure bellows</b>	p [bar <sub>g</sub> ] S/G/L	–	–	2.0	2.0	2.0	1.8	1.9	1.8	1.8	1.2	1.2	on request		
<b>Maximum set pressure</b>	p [bar <sub>g</sub> ] S/G/L	40	40	40	40	40	40	40	35	35	30	32	16		
<b>Max. set pressure with special spring</b>	p [bar <sub>g</sub> ] S/G/L	40	40	40	40	40	40	40	40	35	30	32	16		
<b>Temperature<sup>2)</sup> acc. to DIN EN</b>	min. [°C]	-45						-85						–	–
	max. [°C]	+150						+450						–	–
<b>Body material: 1.4408 (CF8M)</b>															
<b>DIN flange</b>		Inlet	PN 40											–	–
		Outlet	PN 40											–	–
<b>Minimum set pressure</b>	p [bar <sub>g</sub> ] S/G/L	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	–	–	
<b>Min. set pressure<sup>1)</sup> standard bellows</b>	p [bar <sub>g</sub> ] S/G/L	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	–	–	
<b>Min. set pressure low pressure bellows</b>	p [bar <sub>g</sub> ] S/G/L	–	–	2.0	2.0	2.0	1.8	1.9	1.8	1.8	1.2	–	–		
<b>Maximum set pressure</b>	p [bar <sub>g</sub> ] S/G/L	40	40	40	40	40	40	31.6	20.2	25	22	–	–		
<b>Max. set pressure with special spring</b>	p [bar <sub>g</sub> ] S/G/L	40	40	40	40	40	40	40	26	25	22	–	–		
<b>Temperature<sup>2)</sup> acc. to DIN EN</b>	min. [°C]	-45						-270						–	–
	max. [°C]	+150						+400						–	–

<sup>1)</sup> Min. set pressure of standard bellows = max. set pressure of bellows for low set pressure.

<sup>2)</sup> The temperature is limited by the soft seal material (see page 99/10). The values given here are valid for EPDM. Between -10°C and the lowest specified application temperature, proceed acc. to AD 2000-Merkblatt W10.



## Dimensions and weights

### Metric units

	O-ring disc	Metal disc										
DN <sub>i</sub>	15	15	20	25	32	40	50	65	80	100	125	150
DN <sub>o</sub>	15	15	20	25	32	40	50	65	80	100	125	150
Actual orifice diameter d <sub>0</sub> [mm]	12	12	18	18	18	23	29	37	46	60	74	92
Actual orifice area A <sub>0</sub> [mm <sup>2</sup> ]	113	113	254	254	254	416	661	1075	1662	2827	4301	6648
<b>Weight [kg]</b>	5	5	6	6	8	9	12	15	20	33	48	65
with bellows	6.3	6.3	6.4	6.4	8.4	9.6	13	16	21.6	35.6	52.1	78.4
<b>Centre to face [mm]</b>												
Inlet a	90	90	95	100	105	115	125	145	155	175	200	225
Outlet b	90	90	95	100	105	115	125	145	155	175	200	225
<b>Height (H4) [mm]</b>												
Standard H max.	310	310	315	320	325	335	360	475	530	605	745	870
Bellows H max.	362	362	345	350	360	390	425	535	600	680	825	965
<b>Support brackets [mm]</b>												
A												277
B												160
(Drilled only on request, option code H42)												Ø 18
C												278
D												21

### Body material: 0.6025 (cast iron)

<b>DIN flange<sup>1)</sup></b>	Inlet	PN 16	-	-
	Outlet	PN 16	-	-

### Body material: 0.7043 (Ductile Gr. 60-40-18)

<b>DIN flange<sup>1)</sup></b>	Inlet	PN 40	-	-
	Outlet	PN 40	-	-

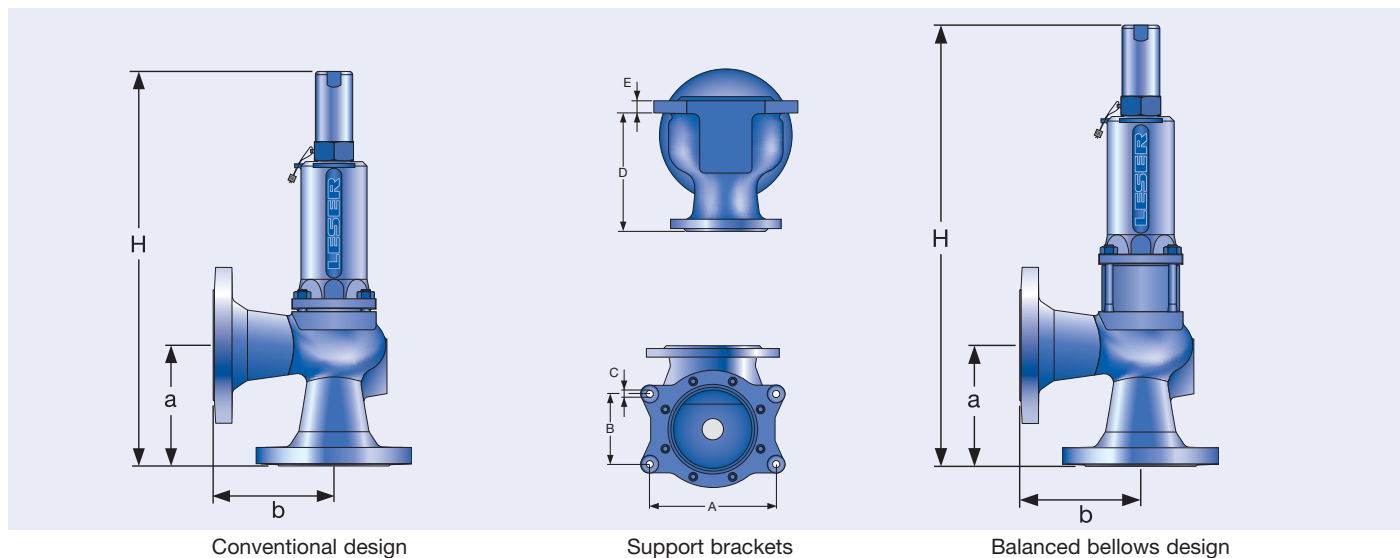
### Body material: 1.0619 (WCB)

<b>DIN flange<sup>1)</sup></b>	Inlet	PN 40	-	-
	Outlet	PN 40	-	-

### Body material: 1.4408 (CF8M)

<b>DIN flange<sup>1)</sup></b>	Inlet	PN 40	-	-
	Outlet	PN 40	-	-

<sup>1)</sup> Standard flange class For other flange drillings, refer to page 01/14 and 01/15.



## Flange drillings

### Flange drillings

		O-ring disc	Metal disc										
		DN <sub>i</sub>	15	20	25	32	40	50	65	80	100	125	150
		DN <sub>o</sub>	15	20	25	32	40	50	65	80	100	125	150
		Valve size	1/2" x 1/2"	1/2" x 1/2" 3/4" x 3/4"	1" x 1"	1 1/4" x 1 1/4"	1 1/2" x 1 1/2"	2" x 2"	2 1/2" x 2 1/2"	3" x 3"	4" x 4"	5" x 5"	6" x 6"
		Actual orifice diameter d <sub>0</sub> [mm]	12	18	18	18	23	29	37	46	60	74	92
		Actual orifice area A <sub>0</sub> [mm <sup>2</sup> ]	113	254	254	254	416	661	1075	1662	2827	4301	6648
<b>Body material: 0.6025 (cast iron)</b>													
Inlet	DIN EN 1092	PN 10	*	*	*	*	*	*	*	*	*	*	*
		PN 16	*	*	*	*	*	*	*	*	*	*	*
		PN 25	-	-	-	-	-	-	-	-	-	-	-
		PN 40	-	-	-	-	-	-	-	-	-	-	-
Outlet	DIN EN 1092	PN 10	*	*	*	*	*	*	*	*	*	*	*
		PN 16	*	*	*	*	*	*	*	*	*	*	*
<b>Body material: 0.7043 (Ductile Gr. 60-40-18), 1.0619 (WCB), 1.4408 (CF8M)</b>													
Inlet	DIN EN 1092	PN 10	*	*	*	*	*	*	*	H44	H44	H44	H44
		PN 16	*	*	*	*	*	*	*	H45	H45	H45	H45
		PN 25	*	*	*	*	*	*	*	*	*	*	*
		PN 40	*	*	*	*	*	*	*	*	*	*	*
	ASME B16.5	CL150	H64	H64	H64	H64	H64	H64	H64	H64	H64	[H64]	H64
		CL300	[H65]	[H65]	-	H65	H65	-	[H65]	[H65]	-	-	-
Outlet	DIN EN 1092	PN 10	*	*	*	*	*	*	*	H50	H50	H50	H50
		PN 16	*	*	*	*	*	*	*	H51	H51	H51	H51
		PN 25	*	*	*	*	*	*	*	*	*	*	*
		PN 40	*	*	*	*	*	*	*	*	*	*	*
	ASME B16.5	CL150	H79	H79	H79	H79	H79	H79	H79	H79	H79	[H79]	H79
		CL300	H80	H80	-	H80	H80	-	[H80]	[H80]	-	-	-

For an explanation of the characters and symbols, refer to page 00/07.  
 Note: Flange drillings and facings always meet the requirements of the given flange standards.  
 Flange thickness and outside diameter may deviate from the standard.

## Flange facings

Flange facings										
Information	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. for hydrogen						
Lens-shape seal form L (without lens-shape seal)	DIN 2696 LWN 313.35	J11	J12							
<b>According to DIN EN 1092</b>										
<b>Flange facings</b>		<b>Inlet</b>	<b>Outlet</b>	<b>Remark</b>						
<b>DIN EN 1092</b> (also see LWN 313.40)		PN 10 – PN 40	PN 10 – PN 40	Rz specification acc. to DIN EN 1092 in µm						
Sealing strip	Form B1	*	*	Seal. strip.: Rz = 12.5 – 50						
	Form B2	L36	L38	Seal. strip.: Rz = 3.2 – 12.5						
Tongue, Form C <sup>1)</sup>		H94	H92	only for steel flange						
Groove, Form D <sup>1)</sup>		H93	H91							
Male, Form E		H96	H98							
Female, Form F		H97	H99							
O-ring Male, Form G		J01	J02							
O-ring Female, Form H		J03	J04							
<b>According 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		Pressure level	Option code	Pressure level	Option code
0.7043	all	all	L52	L53	*	*	–	–	–	–
1.0619, 1.4408	all	all	L52	L53	*	*	CL150	H62	CL150	H63

<sup>1)</sup> 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 EN 1092-1 an additional option code is necessary: "S01: soil of the groove drilled".

<sup>2)</sup> Smooth Finish is not defined in the effective standards.

For signs and symbols refer to page 00/07

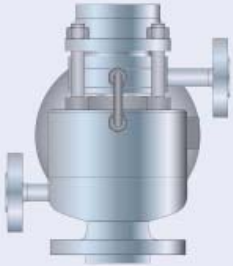
Note: Flange drillings and facings meet always the requirements of mentioned flange standards.  
Flange thickness and outer diameter may vary from flange standard.

## Available options

For more information, also see  
"Accessories and Options" as of page 99/01.

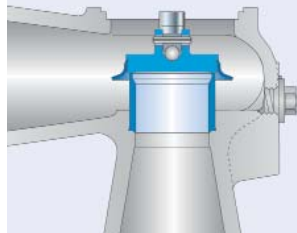
### Heating jacket

H29, H30: Coupling G 3/8, G 3/4  
H31, H32: Flange DN15, DN25



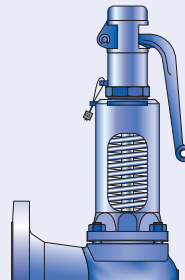
### Drain hole

J18: G 1/4  
J19: G 1/2



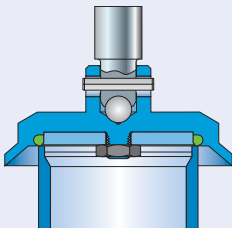
### Open bonnet

See Art.-No.



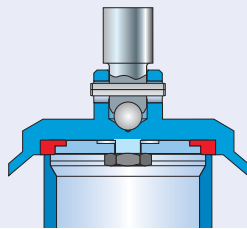
### O-ring disc

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



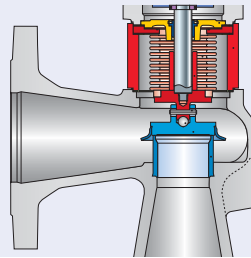
### Disc with sealing plate

J68: Open bonnet  
J78: Closed bonnet



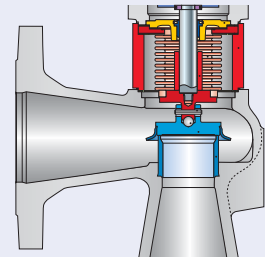
### Balanced bellows

J68: Open bonnet  
J78: Closed bonnet



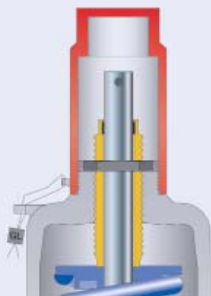
### Conversion kit for balanced bellows

Art.-No. see page 01/14



### Screwed cap H2

H2



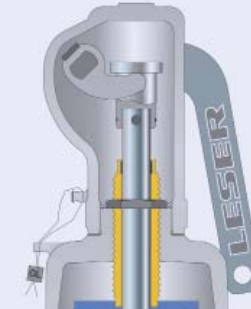
### Plain lever H3

H3



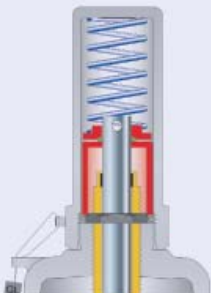
### Packed lever H4

H4



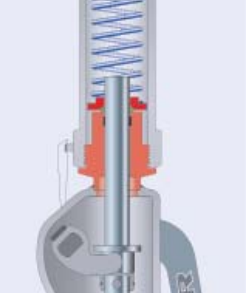
### O-ring damper H2

J65



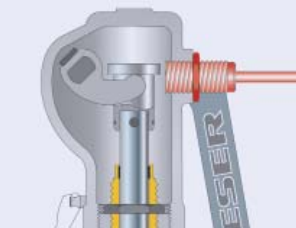
### O-ring damper H4

J66



### Lift indicator

J39: Adaptor H4  
J93: Lift indicator



### Test gag

J69: H4  
J70: H4

