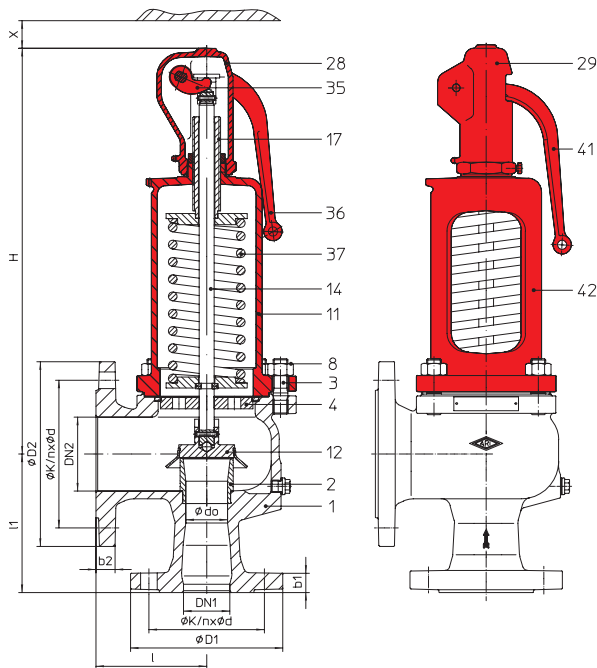
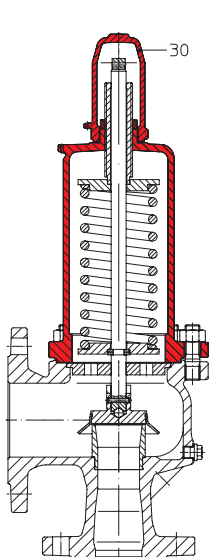


**ARI-SAFE - Full lift safety valve D/G, Standard safety valve F**

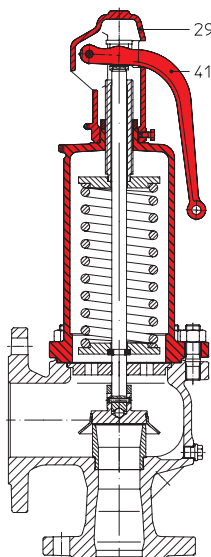


**Fig. ... .901**  
closed lifting device

**Fig. ... .902**  
open lifting device



**Fig. ... .911**  
gastight cap



**Fig. ... .912**  
open lifting device

Figure	Nominal pressure	Material	Nominal diameter
12.901 / 902 / 911 / 912	PN16/16	EN-JL1040	DN20/32 - 150/250
25.901 / 902 / 911 / 912	PN40/16	EN-JS1049	DN20/32 - 100/150
35.901 / 902 / 911 / 912	PN40/16	1.0619+N	DN20/32 - 150/250
55.901 / 911	PN40/16	1.4408	DN20/32 - 100/150

Figure	Temperature range	Flange	Flange holes/-thickness tolerances
12.901 / 902 / 911 / 912	-10°C to +300°C	DIN EN 1092-2	DIN 2533/2533
25.901 / 902 / 911 / 912	-10°C to +350°C	DIN EN 1092-2	DIN 28607/28605
35.901 / 902 / 911 / 912	-10°C to +450°C	DIN EN 1092-1	DIN 2545/2543
55.901 / 911	-60°C to +400°C	DIN EN 1092-1	DIN 2545/2543

**Type-test approval**

Full lift safety valve: TÜV · SV · · -663 · D/G (Stand. valve 0,2-0,5 bar)  
 Standard safety valve: TÜV · SV · · -663 · F DN 20-150  
 Set gauge pressure refer to „Capacity“.

**Requirement**

Acc. to EN ISO 4126-1, VdTÜV-leaflet 100, AD2000-A2, TRD 421, material selection observe TRB 801 No. 45!!

**Construction**

Safety valve, spring loaded, direct loaded

**Sizing**

For steam, air and water see capacity tables, calculation acc. to EN ISO 4126-1, TRD 421 and AD2000-A2.

**Details required**

- Medium gasform: Mass flow (kg/h), molar mass (kg/kmol), temperature (°C), set gauge pressure (bar), back gauge pressure (bar)
- Medium liquid: Mass flow (kg/h), density (kg/m<sup>3</sup>), viscosity, temperature (°C), Set gauge pressure (bar), back gauge pressure (bar)

**Order data:**

ARI-SAFE-Safety valve,  
 Figure ..., DN .../..., PN ..., Material ..., Set gauge pressure ...bar

**Selection of possible applications**

Chemical Industry, processing industry, plant manufacturing  
 (other applications on request)

**Selection of possible flow media**

EN-JL1040, EN-JS1049 1.0619+N: Steam, neutral gases, vapours and liquids

1.4408: Steam, aggressive gases, vapours and liquids

(other flow media on request)

	without metal bellow	with metal bellow
<b>Superimposed back pressure</b>	no backpressure allowed	on request
<b>Built up back pressure</b>	max. 10% from set pressure (gauge) (higher on request)	on request

**Dimensions and weights**

DN1/DN2	(mm)	20/32	25/40	32/50	40/65	50/80	65/100	80/125	100/150	125/200	150/250
d <sub>0</sub>	(mm)	18	22,5	29	36	45	58,5	72	90	106	125
A <sub>0</sub>	(mm <sup>2</sup> )	254	398	661	1018	1590	2688	4072	6362	8825	12272
l	(mm)	85	100	110	115	120	140	160	180	200	225
l1	(mm)	95	105	115	140	150	170	195	220	250	285
H	(mm)	270	280	330	390	435	545	610	690	845	890
H (Bellow design)	(mm)	310	335	390	445	500	620	690	770	--	--
X	(mm)	150	150	200	250	300	350	400	500	500	500
Drainhole with plug <sup>1)</sup>	(inch)	G 1/4"					G 3/8"				
Weight	(kg)	8,5	10	14	20	28	40	53	80	125	165
Weight (Bellow design)	(kg)	9,5	11,5	16	22,5	32	47	59	90	--	--

Standard-flange dimensions refer to page 34.

<sup>1)</sup> Standard for EN-JL1040, EN-JS1049 1.0619+N, optional at 1.4408

**Spring ranges: Standard design (barg)**

DN20	DN25 - 50	DN65	DN80	DN100	DN125	DN150
0,2 - 0,5	0,2 - 0,5	0,2 - 0,5	0,2 - 0,5	0,2 - 0,5	0,2 - 0,4	0,2 - 0,5
0,52 - 1	0,52 - 1	0,52 - 1	0,52 - 1	0,52 - 1	0,42 - 0,75	0,52 - 1
1,05 - 1,5	1,05 - 1,5	1,05 - 1,5	1,05 - 1,5	1,05 - 1,5	0,77 - 1,1	1,05 - 1,5
1,55 - 2,5	1,55 - 2	1,55 - 2	1,55 - 2	1,55 - 2	1,15 - 1,5	1,55 - 1,9
2,55 - 4,5	2,05 - 2,7	2,05 - 2,7	2,05 - 2,7	2,05 - 2,5	1,55 - 1,9	1,95 - 2,3
4,6 - 8,5	2,75 - 3,6	2,75 - 3,6	2,75 - 3,6	2,55 - 3	1,95 - 2,5	2,35 - 2,7
8,6 - 19	3,7 - 5	3,7 - 5	3,7 - 5	3,05 - 3,6	2,55 - 2,95	2,75 - 3,3
19,1 - 28	5,1 - 9	5,1 - 9	5,1 - 9	3,7 - 5	3 - 4	3,35 - 4,1
28,1 - 35	9,1 - 16	9,1 - 16	9,1 - 14	5,1 - 9	4,1 - 5,7	4,2 - 5,5
35,1 - 40	16,1 - 22	16,1 - 22	14,1 - 19	9,1 - 14	5,8 - 8,2	5,6 - 7,4
	22,1 - 28	22,1 - 28	19,1 - 25	14,1 - 19	8,3 - 12	7,5 - 11
	28,1 - 34		19,1 - 24	12,1 - 17	17,1 - 24	16,1 - 21
				17,1 - 24	24,1 - 27	21,1 - 26

**Spring ranges: Bellow design (barg)**

DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
3,0 - 3,7	2,5 - 3,3	2,5 - 3,2	2,6 - 3,6	2,8 - 3,4	2,5 - 3,7	2,5 - 3,3	2,5 - 3,5
3,8 - 4,6	3,4 - 4,6	3,3 - 4,0	3,7 - 4,5	3,5 - 4,5	3,8 - 4,6	3,4 - 4,5	3,6 - 4,2
4,7 - 6,3	4,7 - 5,4	4,1 - 5,5	4,6 - 5,6	4,6 - 8,4	4,7 - 5,9	4,6 - 5,8	4,3 - 4,9
6,4 - 8,4	5,5 - 7,0	5,6 - 6,4	5,7 - 7,5	8,5 - 10,0	6,0 - 8,0	5,9 - 7,5	5,0 - 5,6
8,5 - 10,2	7,1 - 9,0	6,5 - 7,9	7,6 - 10,0	10,1 - 11,5	8,1 - 10,0	7,6 - 8,9	5,7 - 7,0
10,3 - 13,0	9,1 - 11,7	8,0 - 11,5	10,1 - 12,5	11,6 - 16,0	10,1 - 18,0	9,0 - 10,5	7,1 - 8,0
13,1 - 17,0	11,8 - 16,0	11,6 - 18,5	12,6 - 16,0	16,1 - 18,5		10,6 - 13,0	8,1 - 9,3
17,1 - 27,5	16,1 - 22,0	18,6 - 25,0	16,1 - 22,0	18,6 - 23,0		13,1 - 14,0	9,4 - 11,5
	22,1 - 30,0						11,6 - 13,0

Design with bellow as standard valve (only Fig. 901/911)

**Parts**

Pos.	Description	Fig. 12.901/902/911/912	Fig. 25.901/902/911/912	Fig. 35.901/902/911/912	Fig. 55.901/911
1	Body	EN-GJL-250 , EN-JL1040	EN-GJS-400-18U-LT, EN-JS1049	GP240GH+N, 1.0619+N	GX5CrNiMo19-11-2, 1.4408
2	Seat	X6CrNiMoTi17-12-2, 1.4571			
3	Studs	25CrMo4, 1.7218			
4	Spindle guide	X20Cr13+QT, 1.4021+QT			
8	Hexagon nut	C35E, 1.1181			
11	Bonnet, closed	EN-GJL-250 , EN-JL1040	EN-GJS-400-18U-LT, EN-JS1049		GX5CrNiMo19-11-2, 1.4408
12	Disc unit	X39CrMo17-1+QT, 1.4122+QT			
14	Spindle *	X20Cr13+QT, 1.4021+QT			
17	Adjusting screw	X20Cr13+QT, 1.4021+QT			
28	Cap, closed	EN-GJL-250 , EN-JL1040	EN-GJS-400-18U-LT, EN-JS1049		GX5CrNiMo19-11-2, 1.4408
29	Cap, open	EN-GJL-250 , EN-JL1040	EN-GJS-400-18U-LT, EN-JS1049		GX5CrNiMo19-11-2, 1.4408
30	Cap, gastight	EN-GJL-250 , EN-JL1040	EN-GJS-400-18U-LT, EN-JS1049		GX5CrNiMo19-11-2, 1.4408
35	Lift fork	EN-GJS-400-18U-LT, EN-JS1049			
36	Lever, closed	EN-GJS-400-18U-LT, EN-JS1049			
37	Spring *	51CrV4, 1.8159			
41	Lever, open	EN-GJS-400-18U-LT, EN-JS1049			
42	Bonnet, open	EN-GJL-250 , EN-JL1040	EN-GJS-400-18U-LT, EN-JS1049		--
43	Bellow (optional)	EPDM			
55	Bellow unit (optional)	X6CrNiMoTi17-12-2, 1.4571			
70	Balanced piston (optional)	X6CrNiMoTi17-12-2, 1.4571			

\* Spare parts

Information / restriction of technical rules need to be observed!

ARI-Valves of EN-JL1040 are not allowed to be operated in systems acc. to TRD 110.

A production allowance acc. to TRB 801 No. 45 exists (acc. to TRB 801 No. 45 EN-JL1040 is not allowed.)

The engineer, designing a system or a plant, is responsible for the selection of the correct valve.


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