



flow & process solutions





Overflow and Backpressure Valves



RIEGER Overflow valves type ÜS open when the set pressure is reached and so prevent undue over pressures in pipes. They are NO safety valves. For this purpose, we recommend our TÜV approved safety valves type SH.

Overflow valves type ÜS are available with weld-on ends and with fittings and clamps. An additional lever allows lifting by hand. They are suitable for liquids, steam and gas.

The available set range of 0,5 up to 6 bar is achieved by means of different pressure springs, which **each of them covers the lower or upper pressure range area.**

Your benefits

Design	housing made from solid bar no dead space completely drainable many built-in positions possible
Absolute product safety	high-grade inner surfaces no dome, no sump
Safety	clamp union between housing and actuator optimum cleanability
Efficiency	standard seals

Technical Data

Material	product contact	1.4404/AISI316L
	optional	1.4435/AISI316L
	non product contact	1.4301/AISI304
Seals	O-rings/seals	EPDM Viton and other materials upon request
Temperatures maximum	operating temperature	up to 130 °C*
	sterilization temperature	up to 150 °C* short-time (approx. 20 min)
Set range	0,5 up to 6 bar In order set pressure point is requested, pressure spring is chosen accordingly.	higher set pressures upon request
Set pressure range of pressure spring	according to customer's request in lower or upper pressure range	
Surfaces	product contact	Ra <= 0,8 µm
	optional	electro polished
	non product contact	Ra <=1,6 µm
Connections	DIN 11850-R2 (DIN 11866 A) O.D. tube (DIN 11866 C) clamp ferrules in DIN and Inch	

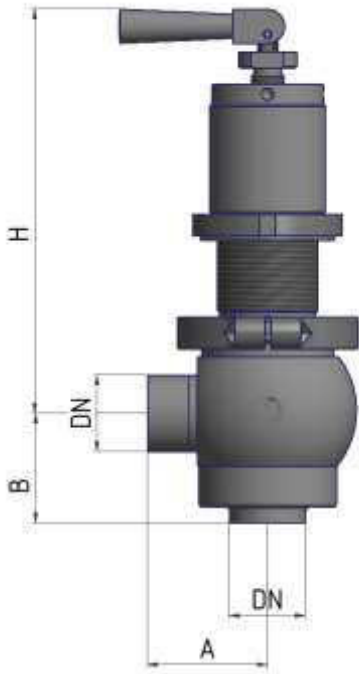


*dependent on operating conditions



Overflow Valve ÜS4.01.100

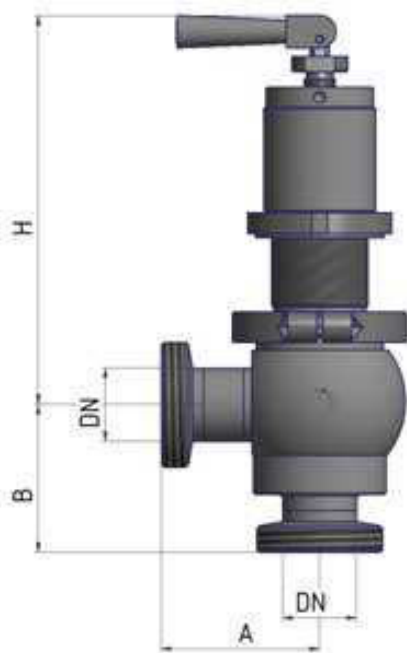
adjustable by hand, with lever for cleaning – with weld ends



DIN	Pipe	A	B	H	kg
10	13 x 1,5	35	35	153	1,4
15	19 x 1,5	40	40	158	1,5
20	23 x 1,5	45	45	160	2,0
25	29 x 1,5	50	50	195	2,9
40	41 x 1,5	60	60	205	4,0
50	53 x 1,5	80	70	255	5,0
65	70 x 2	100	80	310	9,5
80	85 x 2	125	90	340	13,2
100	104 x 2	150	100	350	16,5

Overflow Valve ÜS4.01.122

adjustable by hand, with lever for cleaning – with male ends

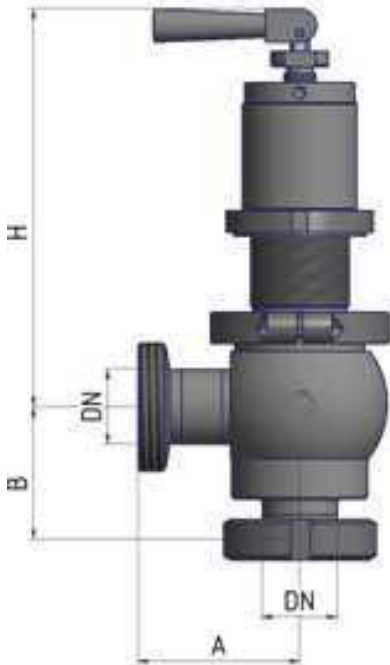


DIN	A	B	H	kg
10	56	56	160	1,5
15	61	61	170	1,6
20	69	69	180	2,1
25	79	79	205	3,1
40	93	93	210	4,3
50	115	105	270	5,3
65	140	120	325	10,0
80	170	135	360	13,8
100	204	154	370	17,6



Overflow Valve ÜS4.01.132

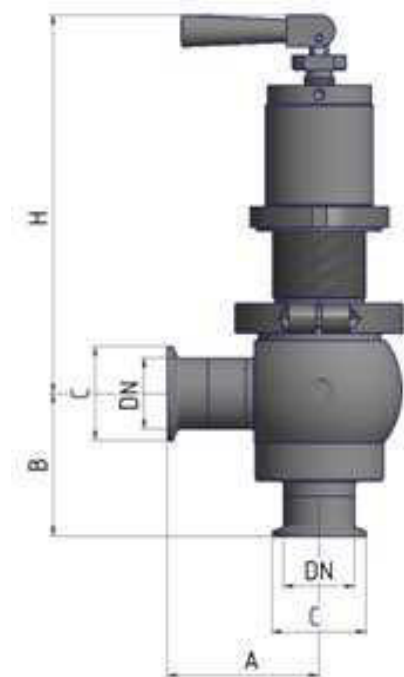
adjustable by hand, with lever for cleaning – inlet liner/nut – outlet male end



DIN	A	B	H	kg
10	52	52	160	1,6
15	57	57	170	1,7
20	64	63	180	2,2
25	72	72	205	3,2
40	83	86	210	4,5
50	103	98	270	5,6
65	125	112	325	10,5
80	150	127	360	14,6
100	180	144	370	18,5

Overflow Valve ÜS4.01.144

adjustable by hand, with lever for cleaning – with clamp ferrules DIN 32676



DIN	Pipe	C	A	B	H	kg
10	13x1,5	34	52,5	52,5	160	1,5
15	19x1,5	34	57,5	57,5	170	1,6
20	23x1,5	34	62,5	62,5	180	2,1
25	29x1,5	50,5	70,5	70,5	205	2,8
40	41,x1,5	50,5	81	81	210	4,2
50	53x1,5	64	101	91	270	5,2
65	70x2	91	107,5	127,5	325	10,2
80	85x2	106	117,5	152,5	360	13,6
100	104x2	119	177,5	127,5	370	17,0

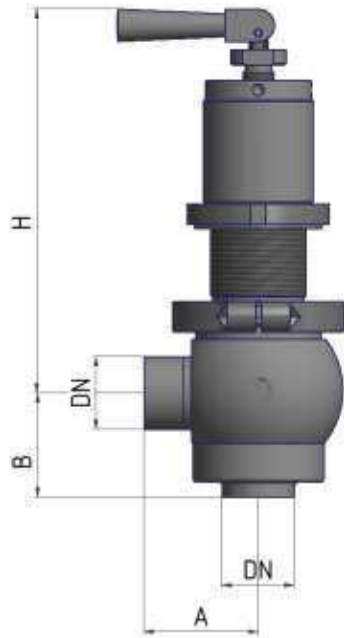


Overflow and Backpressure Valves



Overflow Valve ÜS4.01.100

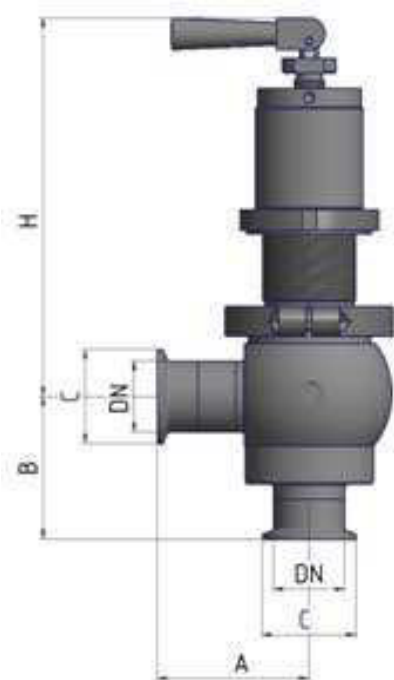
adjustable by hand, with lever for cleaning – with weld ends



Inch	Pipe	A	B	H	kg
1/2"	12,7 x 1,65	40	40	158	1,5
3/4"	19,05 x 1,65	45	45	160	2,0
1"	25,4 x 1,65	50	50	195	2,9
1 1/2"	38,1 x 1,65	60	60	205	4,0
2"	50,8 x 1,65	80	70	255	5,0
2 1/2"	63,5 x 1,65	100	80	310	9,5
3"	76,2 x 1,65	125	90	340	13,2
4"	101,6 x 2,11	150	100	350	16,5

Overflow Valve ÜS4.01.144

adjustable by hand, with lever for cleaning – with clamp ferrules



Inch	Pipe	A	B	H	C	kg
1"	25,4x1,65	70,5	70,5	205	50,5	2,8
1 1/2"	38,1x1,65	81	81	210	50,5	4,2
2"	50,8x1,65	101	91	270	64	5,2
2 1/2"	63,5x1,65	107,5	127,5	325	77,5	10,2
3"	76,2x1,65	117,5	152,5	360	91	13,6
4"	101,6x2,11	177,5	127,5	370	119	17,0



Overflow and Backpressure Valves



RIEGER Overflow valves E8 are a combination of right angle and overflow valves. The desired pressure is adjustable, with a valve stroke as high as possible. Unlike an overflow valve, this valve can be opened up to 100 % - like a right angle valve.

The overflow valve can be sealed.

For reasons of safety, we use clamp unions between valve body and actuator, starting from size DN 25 – only to be opened with a tool.

The overflow valve type E8 is suitable for liquid media. It is NO safety valve. For this purpose, we recommend out TÜV-approved safety valve type SH.

Your benefits

Design	solid valve body no dead spaces completely draining many built-in positions possible
Absolute product safety	high-grade inner surfaces no sump, no dome
Safety	Clamp union between valve body and actuator Optimum cleanability
Efficiency	building block system – easy change between hygienic and aseptic version

Technical Data

Material	product contact optional non product contact	1.4404/AISI316L 1.4435/AISI316L 1.4301/AISI304
Seals	Teflon bellows O-rings/seals	PTFE EPDM (other upon request)
Temperatures	maximum operating temperature sterilization temperature	EPDM PTFE 130 °C* 121 °C* 150 °C* 135 °C* short-time (ca. 20 min)
Operating pressure	possible set pressure for O-ring version PTFE bellows version set pressure range dependent on installed pressure spring control air pressure	0,5 to 6 bar 2,0 to 6 bar Requested set pressure required in purchase order. min. 6 bar - max. 10 bar
Surfaces	product contact non product contact	Ra <= 0,8 µm electro polished Ra <=1,6 µm
Connections	DIN 11850-R2 (DIN 11866 A)	



*dependent on operating conditions

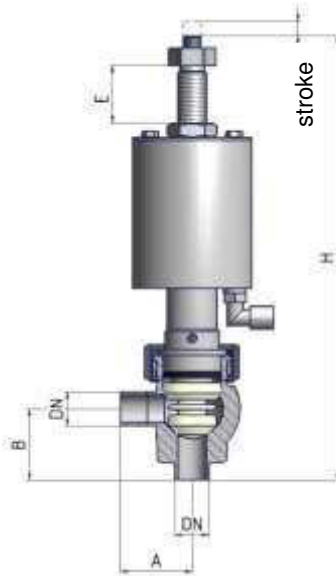


Overflow and Backpressure Valves



Overflow Valve E8.02

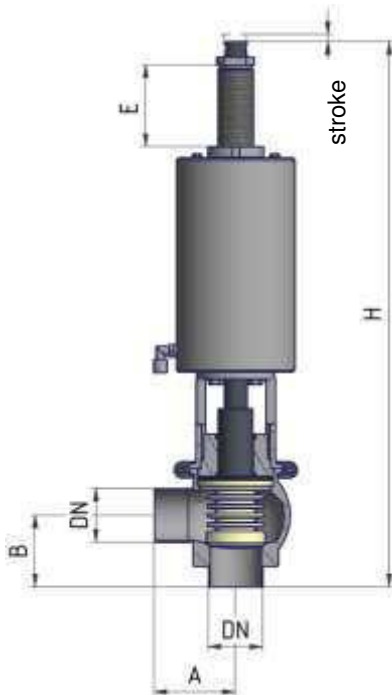
Aseptic Type



DIN	Pipe	E	A	B	H	Stroke	kg
10	13 x 1,5	33	35	35	254	5	2,2
15	19 x 1,5	33	40	40	254	5	2,3
20	23 x 1,5	33	45	45	261	5	2,5

Overflow Valve E8.02

Aseptic Type

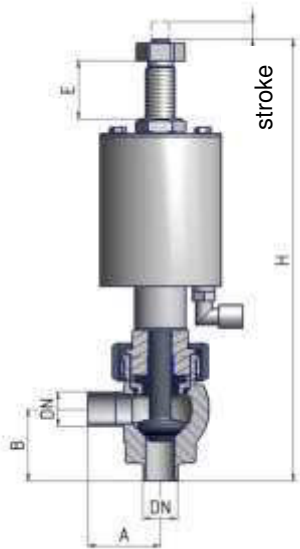


DIN	Pipe	E	A	B	H	Stroke	kg
25	29 x 1,5	38	50	50	381	7	6,0
40	41 x 1,5	50	60	50	429	9	7,2
50	53 x 1,5	78	80	70	546	12	8,2
65	70 x 2	92	100	80	633	16	15,9
80	85 x 2	92	125	90	670	19	19,5



Overflow Valve E8.01

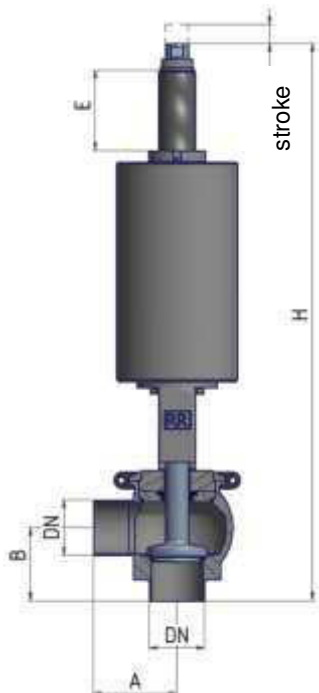
Hygienic Type



DIN	Pipe	E	A	B	H	Stroke	kg
10	13 x 1,5	33	35	35	254	10	2,2
15	19 x 1,5	33	40	40	254	10	2,3
20	23 x 1,5	33	45	45	261	10	2,5

Overflow Valve E8.01

Hygienic Type



DIN	Pipe	E	A	B	H	Stroke	kg
25	29 x 1,5	38	50	50	381	18	6,0
40	41 x 1,5	50	60	50	429	18	7,2
50	53 x 1,5	78	80	70	546	22	8,2
65	70 x 2	92	100	80	633	25	15,9
80	85 x 2	92	125	90	670	27	19,5



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