

9 ESL Seat Valve SD



INFORMATION

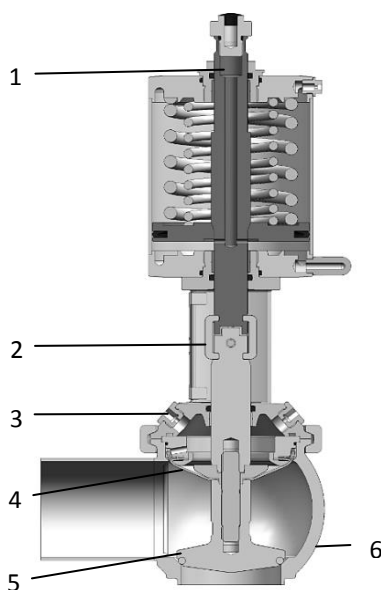
The E(extended)S(shelf)L(life) seat valve is used to shut off pipe systems in ESL processes. Ensuring a high hygienic level without employing aseptic valve technology is mandatory for numerous applications in beverage production.

The Evoguard ESL valve line provides beverage producers with a hygienic design of seat valves and double seat mixproof valves for safe processes during the production of sensitive products. The high economic efficiency of these valves is based on lower costs as compared to aseptic valve technology as well as the high number of cycles that can be achieved.

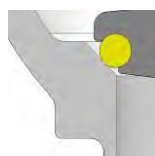
The EVOGUARD ESL line meets all requirements to valve lines in hygiene class IV. It is employed for sensitive refreshment drinks without preservatives and drinks which need not be distributed in a cold chain. Both ESL seat valves and ESL double seat valves exhibit new important details at key points of valve design to ensure a high-level product safety.

Design features of modular ESL seat valves

- Valve housing without dome, designed for PN 25
- Newly developed sealing system using a stainless steel spring element to produce contact pressure at the sealing point, for a hermetical sealing of the product room against the atmosphere
- Free cross sections in the valve housing enable gentle handling of the product without pressure loss, resulting in lower energy consumption
- Maintenance-free actuator, designed for 1,000,000 cycles
- Actuator allocation according to product pressure, 6 bar or 10 bar



- 1 Internal air flow for version with control head
- 2 Valve shaft connection with rotational decoupling
- 3 Connection for leakage discharge
- 4 Diaphragm technology
- 5 Valve disk
- 6 Optimised one-piece housing



One-piece valve disk,
PT FE Compound seal

TECHNICAL DATA

Pressures

Product pressure	PN 87 psi (6 bar), 145 psi (10 bar) / vacuum -13.8 psi (-0.95 bar)
Housing	PN 360 psi (25 bar)
Control air pressure	min. 87 psi (6 bar) - max. 115 psi (8 bar)

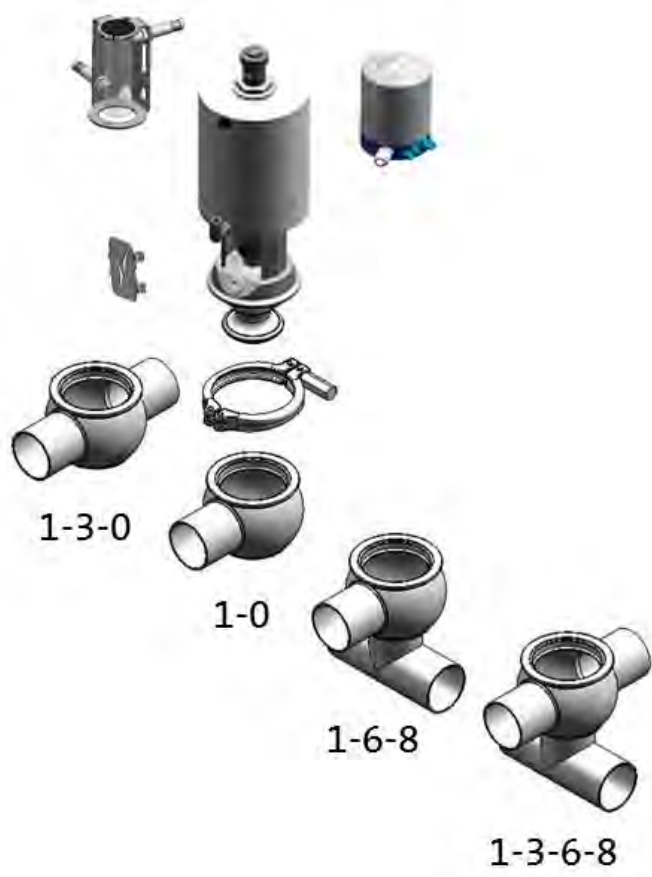
Material

With product contact	1.4404 / AISI 316L
Without product contact	1.4301
Seal	PTFE Compound

Surface

With product contact	$Ra \leq 0.8 \mu$
Without product contact	$Ra \leq 1.6 \mu$

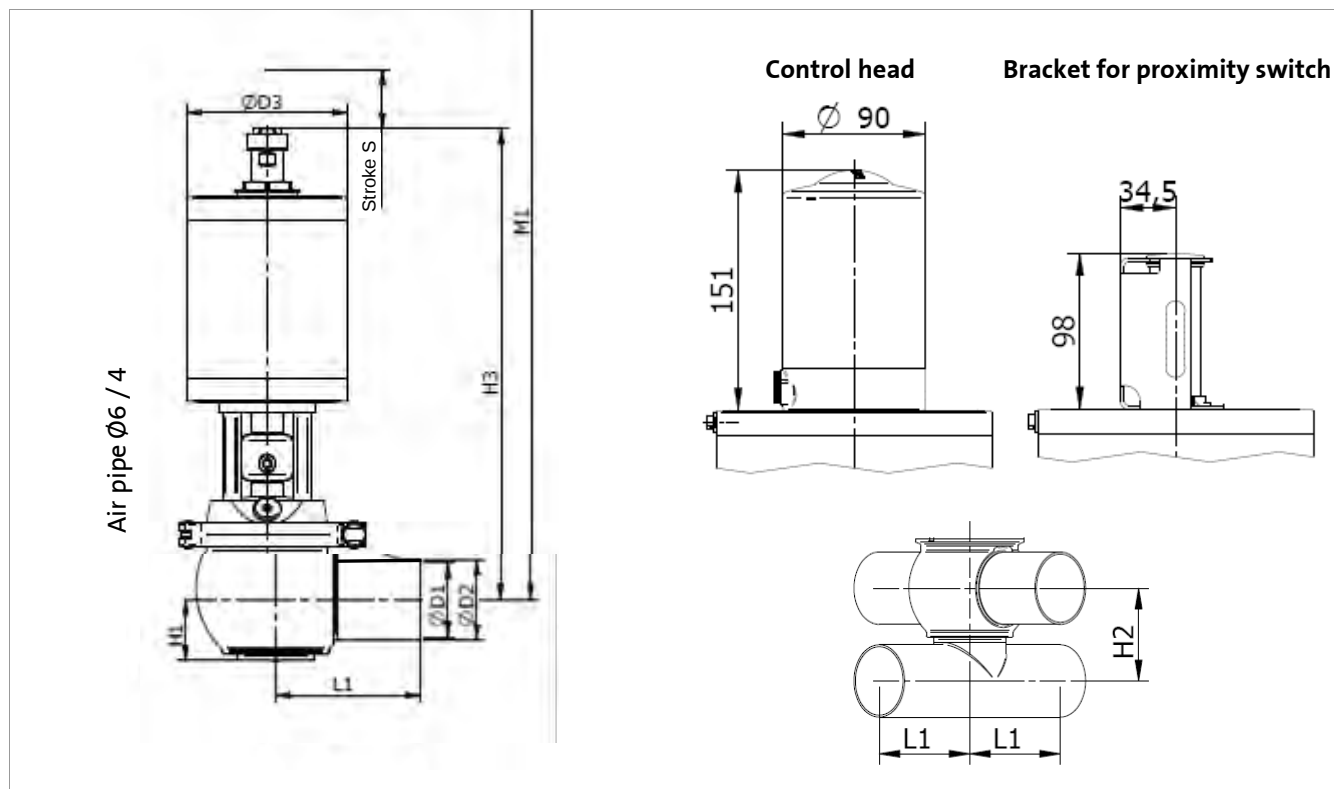
Designs

Housing versions	
Actuator	Pneumatic actuator NC / NO / AA
Additional equipment	Control head Proximity switch M12x1

According to legal requirements
EU Pressure Equipment Directive 2014/68/EU
EU Machinery Directive 2006/42/EC
Design check by TÜV Süd



ESL SEAT VALVE SD

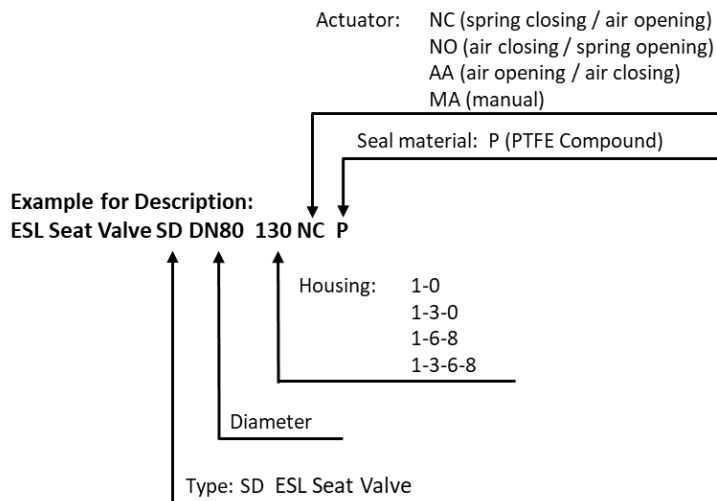


Dimensions

DN	ØD1 mm	ØD2 mm	ØD3 PN 6 mm	ØD3 PN 10 mm	L1 mm	H1 mm	H2 mm	H3 PN 6 mm	H3 PN10 mm	M1 mm	Stroke mm
25											
40	38	41		108	90	39	62	329	329	420	9
50	50	53		108	90	41	70	335	335	445	15
65	66	70	108	133	125	52	90	361	361	485	18
80	81	85	133	173	125	60	105	373	444	595	22
100	100	104	173	216	125	70	125	459	467	640	28
125	125	129	216	216	150	82	149	480	690	895	33
150											

Weight

DN	1-0 PN 6 kg	1-0 PN10 kg
25		
40		8,7
50		8,9
65	11,2	13,6
80	16,7	24,8
100	30,6	41,8
125	50,1	66,5
150		



ESL SEAT VALVE SD NC PRODUCT PRESSURE 6 BAR

Including switch mount for proximity switch

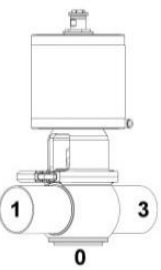
1-0

1.4404 / AISI 316L

	DN	- PTFE Compound	
		Material no.	Price/€
	25		
	40		
	50		
	65		1.480,00 €
	80		1.980,00 €
	100		2.420,00 €
	125		
	150		

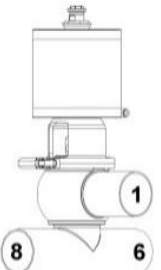
1-3-0

1.4404 / AISI 316L

	DN	- PTFE Compound	
		Material no.	Price/€
	25		
	40		
	50		
	65		1.594,00 €
	80		2.105,00 €
	100		2.564,00 €
	125		
	150		

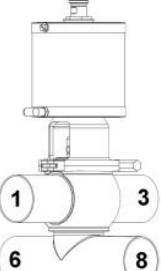
1-6-8

1.4404 / AISI 316L

	DN	- PTFE Compound	
		Material no.	Price/€
	25		
	40		
	50		
	65		1.668,00 €
	80		2.190,00 €
	100		2.668,00 €
	125		
	150		

1-3-6-8

1.4404 / AISI 316L

	DN	- PTFE Compound	
		Material no.	Price/€
	25		
	40		
	50		
	65		1.782,00 €
	80		2.315,00 €
	100		2.812,00 €
	125		
	150		

ESL SEAT VALVE SD NC PRODUCT PRESSURE 10 BAR

Including switch mount for proximity switch

1-0

1.4404 / AISI 316L

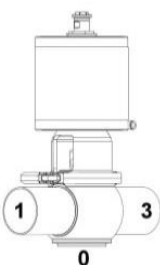
DN	- PTFE Compound	
	Material no.	Price/€
25		
40		1.285,00 €
50	0905376881	1.410,00 €
65	0905226320	1.780,00 €
80		2.499,00 €
100		3.020,00 €
125		
150		



1-3-0

1.4404 / AISI 316L

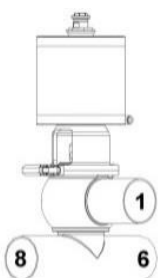
DN	- PTFE Compound	
	Material no.	Price/€
25		
40		1.385,00 €
50		1.514,00 €
65		1.894,00 €
80		2.624,00 €
100		3.164,00 €
125		
150		



1-6-8

1.4404 / AISI 316L

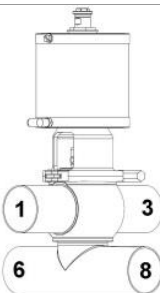
DN	- PTFE Compound	
	Material no.	Price/€
25		
40		1.445,00 €
50		1.578,00 €
65		1.968,00 €
80		2.709,00 €
100		3.268,00 €
125		
150		



1-3-6-8

1.4404 / AISI 316L

DN	- PTFE Compound	
	Material no.	Price/€
25		
40		1.545,00 €
50		1.682,00 €
65		2.082,00 €
80		2.834,00 €
100		3.412,00 €
125		
150		



SPARE PARTS ESL SEAT VALVE SD

Seal kit with product contact

DN	PTFE Compound	
	Material no.	Price/€
25		
40		232,00 €
50		232,00 €
65	0905294801	277,00 €
80		331,00 €
100		382,00 €
125		
150		

Diaphragm

DN	PTFE Compound	
	Material no.	Price/€
25		
40	0904575431	180,00 €
50	0904575431	180,00 €
65		230,00 €
80	0904608047	276,00 €
100		354,00 €
125		
150		

Seal kit, actuator

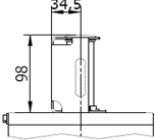
DN		
	Material no.	Price/€
25	0902517095	8,80 €
40		
50		
65		
80		
100		
125		
150		

Bearing set

DN		
	Material no.	Price/€
25		
40		33,00 €
50		33,00 €
65		39,00 €
80		48,00 €
100		57,00 €
125		
150		

ADDITIONAL EQUIPMENT ESL SEAT VALVE SD

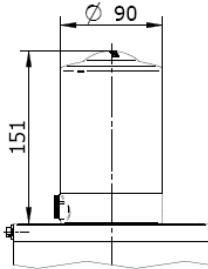
Proximity switch mount M12x1

	DN		
	Material no.	Price/€	
	25	0903370971	118,00 €
	40		
	50		
	65		
	80		
	100		
	125		
	150		

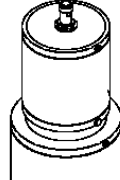
Proximity switch M12x1

	DN		
	Material no.	Price/€	
	25	0901443696	21,20 €
	40		
	50		
	65		
	80		
	100		
	125		
	150		

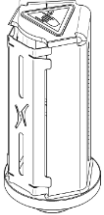
Control head, 2 proximity switches

	DN	24 V DC 2 proximity switches 1 solenoid valve		24 V DC ASI 2 proximity switches 1 solenoid valve	
	Material no.	Price/€		Material no.	Price/€
	25	0903679841	294,00 €	0903679844	384,00 €
	40				
	50				
	65				
	80				
	100				
	125				
	150				

Damping cylinder

	DN		
	Material no.	Price/€	
	25	0902823833	890,00 €
	40		
	50		
	65		
	80		
	100		
	125		
	150		

Limit of stroke, position OPEN or CLOSE

	DN	Material no.	Price/€
	25	0903887569	247,00 €
	40		
	50		
	65		
	80		
	100		
	125		
	150		

