Overflow Seat Valve

NLS

I Application

The NLS valve is an overflow pneumatically actuated single seat valve designed for the dairy and food-processing industries, beverage production, pharmaceutical and fine chemicals industries. It is widely used as a bypass valve for the positive displacement pumps, it is also used to protect the equipment in case of excessive pressure.

I Operating principle

The spring pressure forces the valve to close, the pressure can be adjusted by a screw on the top of the valve.When the configured pressure is exceeded, the valves opens.
The valve is provided with a pneumatic seat lift, it allows the CIP liquid pass through during the CIP process.

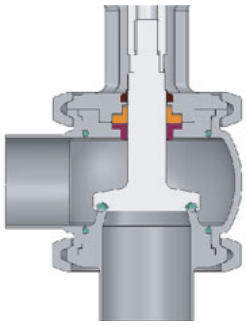
I Design and features

360º adjustable body.
Compact design.
Pneumatic seat lift.
Pressure range: 0,5 - 6 bar.
Easy assembly/disassembly of internal parts by loosening a clamp fastener.

I Options

Steam barrier (if shaft sterilisation is required).
Jacketed body.
Spring from 6 to 10 bar for DN 25, 40 and 50 valves (with reduced opening of the valve).
Internal surface finish: Ra ≤ 0,5 µm.
Gaskets: NBR or FPM.
Connections: DIN, Clamp, SMS, RJT, FIL-IDF, etc.

Operating principle



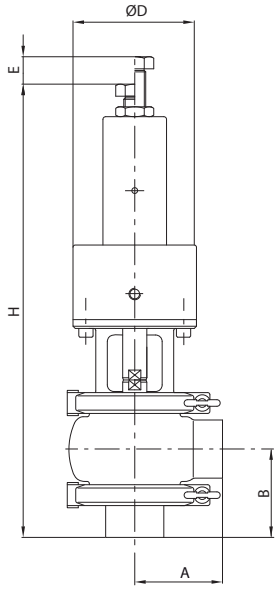
I Technical specifications

Materials:	
Parts in contact with the product	*AISI 316L (1.4404)*
Other stainless steel parts	*AISI 304 (1.4301)*
Gaskets	*EPDM*
Surface finish:	
Internal	*Ra ≤ 0,8 µm*
External	*Bright polish*
Available sizes:	
DIN 11850	*DN 25 – DN 80*
ASME BPE	*OD 1" – OD 3"*
Connections:	*Weld*

I Technical specifications

Operating limits:		
Temperature range (EPDM)	*10 ºC to +120 ºC*	*14 ºF to 248 ºF*
SIP temperaturae, max.30 min.	*140ºC*	*284ºF*
Maximum working pressure	*10 bar*	*145 PSI*
Minimum working pressure	*Vacuum*	*Vacuum*
Maximum opening pressure	*6 bar*	*87 PSI*
Minimum opening pressure	*0.5 bar*	*7 PSI*
Compressed air pressure	*6-8 bar*	*87-116 PSI*
Air supply connections	*G1/8" (BSP)*	*G1/8" (BSP)*

I Dimensions



DN		A	B	E	ØD	H
25	1"	50	55	35	86	325
40	1½"	60	65	35	86	345
50	2"	70	80	25	112	405
65	2½"	80	90	35	145	415
80	3"	90	100	35	145	455