



**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**

Sanitary design according to the 3A specifications.

360° adjustable body.

Compact design.

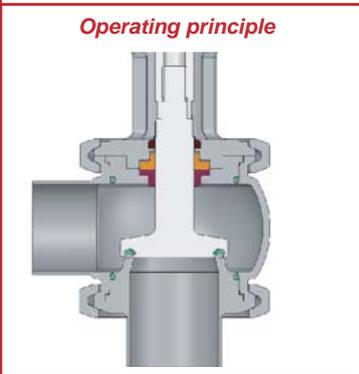
Pneumatic seat lift.

Pressure range: 0 - 6 bar.

Weld connections-

Clamp facilitates assembly/disassembly of the internal parts.

**Operating principle**



**I Materials**

Parts in contact with the product	AISI 316L
Other stainless steel parts	AISI 304
Gaskets	EPDM according to FDA 177.2600
Internal surface finish	Ra ≤ 0,8 μm
External surface finish	bright polish

**I Options**

Steam barrier (if shaft sterilisation is required).

Jacketed body.

Spring: up to 10 bar.

Various operation ranges (change of spring).

Internal surface finish: Ra ≤ 0,5 μm.

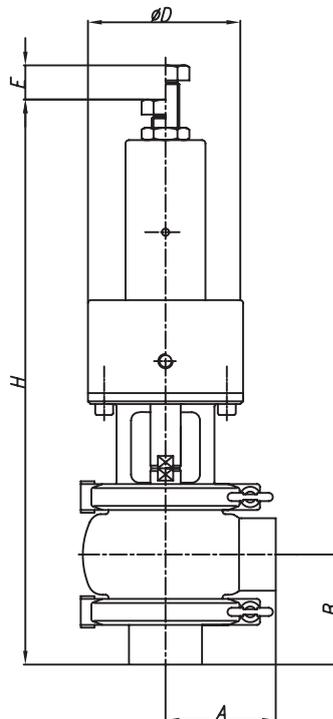
Gaskets: NBR or FPM.

Connections: DIN, Clamp, SMS, RJT, FIL-IDF, etc.



**I Technical specifications**

Available sizes	DN 25 - DN 80	DN 1" - DN 3"
Working temperature	-10 °C to +120 °C (EPDM)	14 °F to 248 °F
	+140 °C (SIP, max. 30 min)	284 °F
Max. working pressure	10 bar	145 PSI
Compressed air pressure	6-8 bar	87-116 PSI
Air supply connections	G1/8" (BSP)	



DN	A	B	E	D	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



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