Overflow Valve

74700 pharmaceutical

I Application

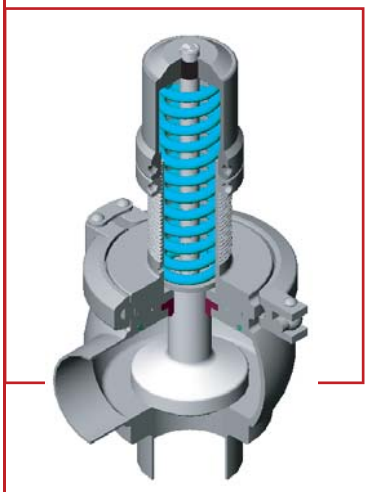
The 74700 valve is a sanitary stainless steel overflow valve, its design makes it adequate for protection of installations in the pharmaceutical industry. It is used to perform pressure bypass for safety purposes in order to protect lines, pumps, fittings, tanks, etc.
It is widely used in the loops of purified water (PW) or water for injections (WFI).The valve is normally installed at the end of the line to maintain pressure at the end of the loop. As a result, the points of use in this area are provided with pressure. These valves are also used to prevent pump cavitation by creating a counterpressure during acceleration when the end-of-line flow rate is not sufficient.

I Operating principle

Under normal operating conditions, the valve remains closed. It is calibrated to a specific pressure by regulating the spring with the pressure nut.The calibrated pressure is a maximum safety pressure to avoid damage of the plant.
When the pressure in the circuit exceeds the calibrated pressure, the valve opens letting the flow pass, thus, the pressure in the pipe system is reduced.
The valve can be provided with a handle, its designs allows to partially open the valve in order to allow the passage of the cleaning solutions during the CIP process.

I Design and features

Normally closed valve.
Easy manual adjustment.
Standard connections: Clamp OD.
Easy assembly/disassembly by loosening the clamp.
Traceability of the components.
Leakage detector.



I Materials

Parts in contact with the product	*AISI 316L*
Other st.st. parts	*AISI 304L*
Gasket (standard)	*EPDM according to FDA 177.2600*
Internal surface finish	*Ra ≤ 0,5 µm*
External surface finish	*bright polish*

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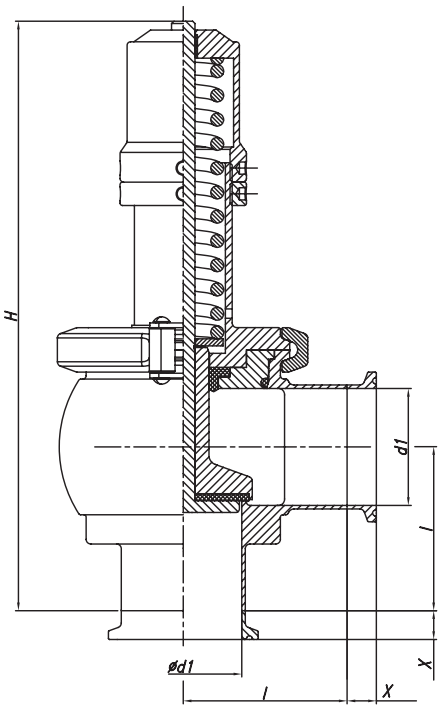
I Options

Connections: weld.
Gaskets: NBR and FMP.
Several operating ranges (change of spring).
Handle for partial opening of the valve to allow the passage of the cleaning solutions during the CIP process (bypass application for positive displacement pumps).
Safety seal for identification of factory calibration.
Material and surface roughness certificates.
ATEX version.

I Technical specifications

Available sizes	*DN 1" - DN 3"*	
Working temperature	*-10 ºC to +120 ºC (EPDM)*	*14 ºF to 248 ºF*
	+140 ºC (SIP, max. 30 min)	*284 ºF*
Max.working pressure	*0-3 bar / 0-6 bar / 0-10 bar (depending on the spring)*	*0-43,5 PSI / 0-87 PSI / 0-145 PSI*



DN	d1	H	L	X
DN-1"	22,1	220	50	13
DN-1 ½"	34,8	240	60	
DN-2"	47,5	255	70	
DN-2 ½"	60,2	290	80	
DN-3"	72,9	310	90	

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