



SPECIFICATION VDS.273.01 - PRESSURE RELIEF VALVE, MODEL VDS/273

The pressure relief valve VDS/273 is a mechanical device to be installed on the top of storage silos being pneumatically filled. The scope of this valve is to avoid that any air pressure producing inside silos during the filling operation, can damage the silos themselves.

The work principle of the valve is to react to any force, both negative and positive, coming from the inner of the silo due to overpressure or cavitation, thanks to 2 plates mounted on 4 spiral-springs: 1 of them reacts to cavitation 3 to overpressure.

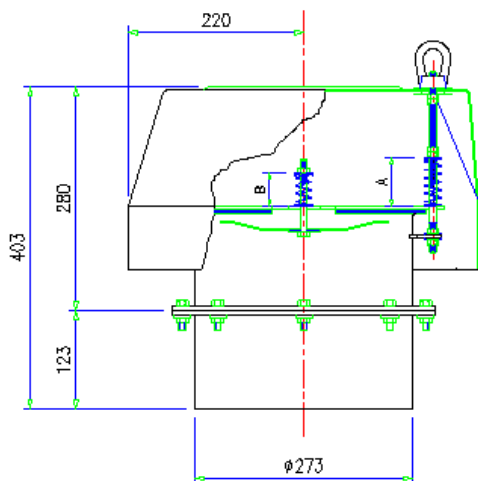
The range of pressure which the valve work on is:

Overpressure	min. 340	Max. 1000	mmH ₂ O
Cavitation	min. 20	max.. 120	"

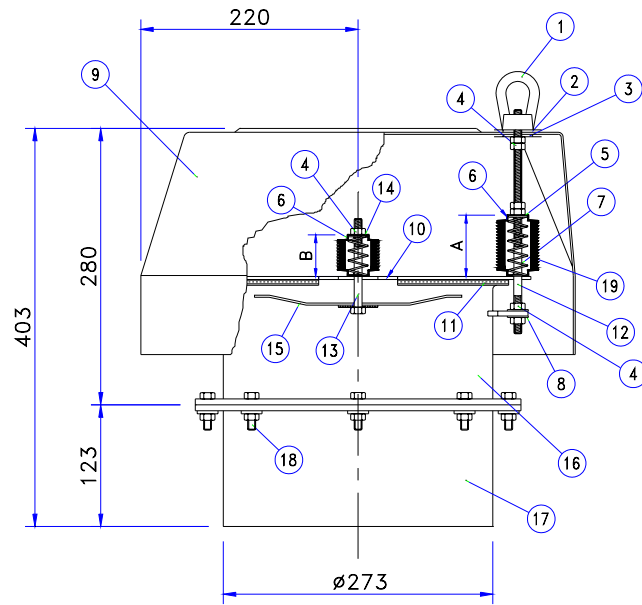
The valve is preset when leaving the factory, on the following values:

Overpressure	min. 550	mmH ₂ O
Cavitation	min. 20	"

Find here under a reference table showing how to set the valve on different values:



OVERPRESSURE		CAVITATION	
A	mmH ₂ O	B	mmH ₂ O
40	1000	35	120
50	770	45	90
60	550	55	50
70	340	65	20



PRESSURE RELIEF VALVE VDS/273 – SPARE PARTS LIST

Item	Qty	DESCRIPTION
1	3	LIFT EYE
2	6	RUBBER WASHER Ø48 mm
3	6	STEEL WASHER
4	28	M10 NUT
5	3	WASHER Ø30 mm
6	8	BUCKET WASHER
7	3	STEEL SPRING
8	6	WASHER Ø21 mm
9	1	PLASTIC COVER
10	1	OVERPRESSURE PLATE
11	1	RUBER GASKET
12	3	THREADED BAR M10x210
13	1	HEX. SCREW M10x120
14	1	PLAIN WASHER Ø30 mm
15	1	CAVITATION PLATE
16	1	VALVE BODY
17	1	MOUNTING SPIGOT
18	8	HEX. SCREW M10x20
19	04	RUBBER SLEEVE