

DAV [Pressure compensation valve]

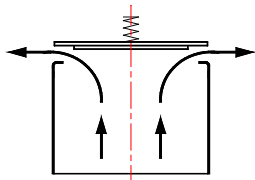
The **DAV [pressure compensation valve]** is an overpressure and underpressure protection device. It prevents the silo from overcharge and bursting. In case of overcharge without a DAV, the filter media will be destroyed. While the silo is discharged the pressure compensation valve prevents an implosion.

According to the regulations for the prevention of industrial accidents UVV 6.0 silos, §8, closed silos charged pneumatically must be structured and set up as follows:

- an overpressure of 0,1 bar must not be exceeded
- an underpressure must not endanger the stand safety

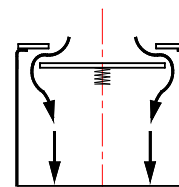
function at overpressure

overpressure is relieved by opening the top cover contrary to the resilience of a spring. After the pressure compensation the spring closes the pressure compensation valve.



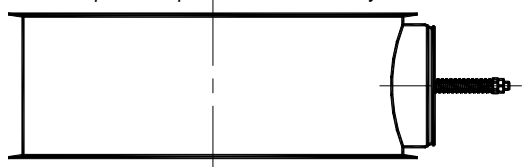
function at underpressure

underpressure reduces by pressing down the lower cover contrary to the resilience. After pressure compensation the DAV is closed by the lower spring.



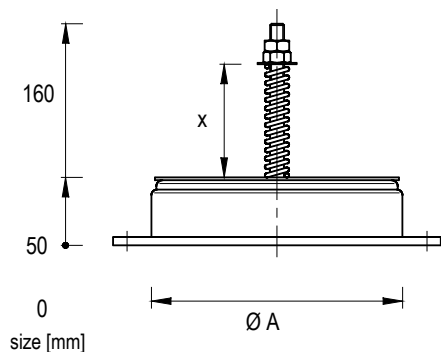
Installation example:

Additional expansive space and DAV laterally installed



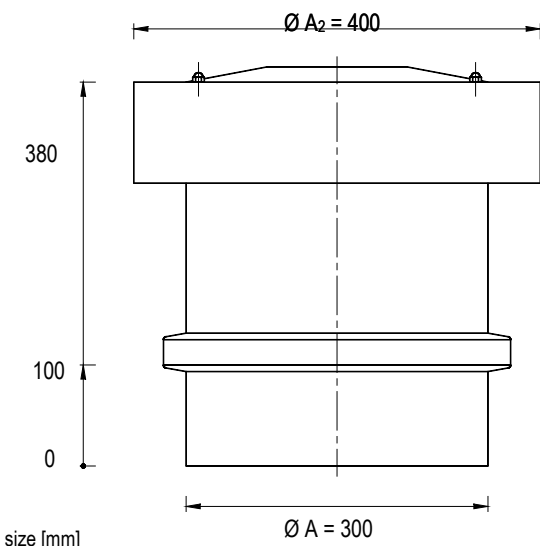
DAV 160 Ø A 180 mm for transport tube of nominal width 120 mm

DAV 200 Ø A 225 mm for transport tube of nominal width 140 mm



DAV 03 EZ WH for transport tube of nominal width 120 mm

This model is often installed on the roof of the silo.



options for DAV 160 / DAV 200

- material ⇒ seawater proof aluminium
⇒ stainless steel
- mounting ⇒ flange
⇒ loose flange
⇒ border

- hoop guard
- additional expansion area

options for DAV 03 EZ WH

- material ⇒ seawater proof aluminium
⇒ stainless steel
- mounting ⇒ welding ring (steel, stainless steel,
seawater proof aluminium)

adjusting the overpressure

- opening pressure adjustable from
⇒ +300 up to +500 [mmWG] overpressure
⇒ -50 up to -100 [mmWG] vacuum
- works adjustment ⇒ +450 [mmWG] -50 [mmWG]

DAV		opening pressure p	size X
type	article-no.	mmWG	mm
DAV 160/3.3535	89 298	500	79,2
DAV 160/1.4571	89 362	450	81,8
		400	84,5
DAV 200/3.3535	89 300	500	60,4
		450	65,0
		400	69,3
DAV 03 WH EZ/3.3535	89 301	500	85,2
		450	87,2
		400	89,1
		350	91,1
		300	93,1

opening pressure p (mmWG)

example: DAV 03 EZ WH/3.3535

