

Technical data:	
Relief pressure:	0.1bar
Max. Kst:	300bar m/sec
Max. Pmax:	10bar
Max. operating underpressure:	80,000Pa
Max. operating overpressure:	0Pa
Temperature range:	-20°C - +80°C
Detection of activation:	Yes
Room volume, where unit relieves:	300 times larger as raw air volume in unit
Material:	Black steel enamelled and aluminium

Description

Valves for indoor relief of explosion pressure by aluminium lamellas, whereby cooling takes place and thus preventing flame spread.

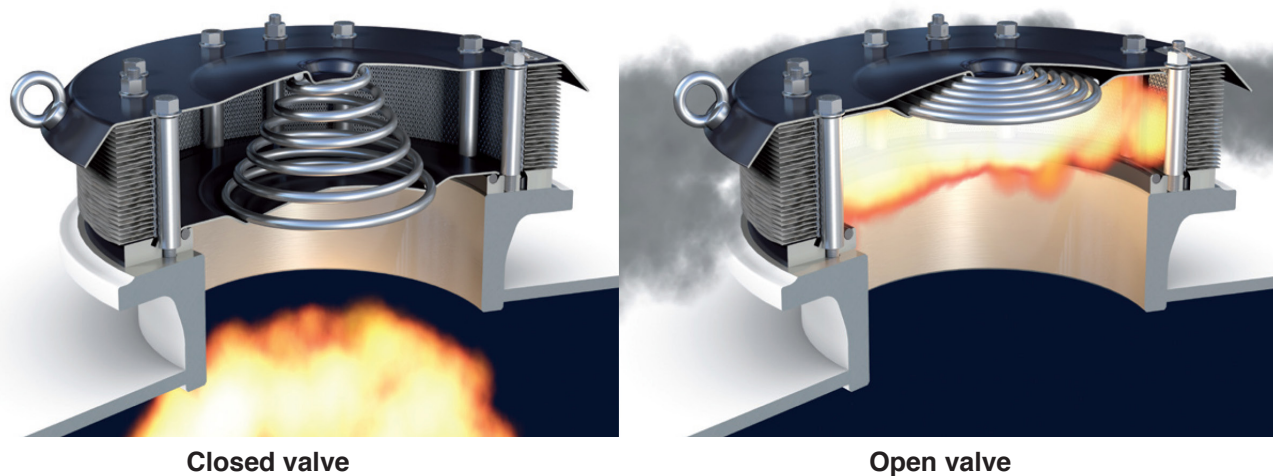
Construction

- Activation by spring
- Flame cooling by aluminium lamellas
- May be used for $K_{st} = 300 \text{ bar m/sec}$ and $P_{max} = 10\text{bar}$
- Min. temperature: -20°C
- Max. temperature: $+80^{\circ}\text{C}$
- Room, where relieved, must as a minimum be 300 times larger as raw air volume in filter unit
- Is tested with following dust groups according to EN 16099: plastics, resins, toners, sugar (melting dusts), wood, MDF, flock, cellulose (fibrous dusts), coal and peat
- Valve size must be calculated for specific unit incl. K_{st} og P_{max}
- May not be used for metal dust explosion
- Valve may be used after an explosion
- Safety distance for valve:
 - radially: 2.5m
 - axially: 1.5m
- Delivered incl. detection switch

Application

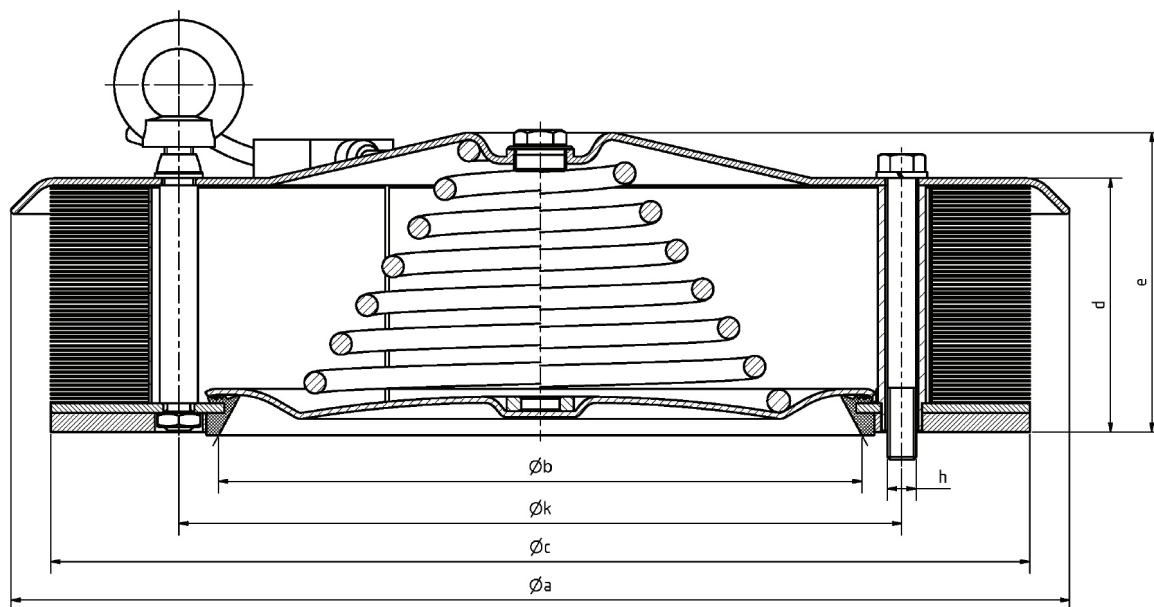
- Protects unit parts at explosion by relieving pressure and cooling the flame that thereby is extinguished. Normal use indoor.

When EVN 3.0 is placed in units, where piping on raw air side of filter unit is equipped with backdraft damper, then a EVN 3.0NC-model (Non-reclosing device) must be used that remains open at activation and must be manually reset.



Data is subject to alterations
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Order no.	Hörbiger-valve	Weight [kg]
10 224 010	Hörbiger-valve 266 EVN 3.0	24.0
10 224 060	Hörbiger-valve 320 EVN 3.0	29.1
10 224 110	Hörbiger-valve 420 EVN 3.0	48.0
10 224 210	Hörbiger-valve 480 EVN 3.0	57.0
10 224 310	Hörbiger-valve 565 EVN 3.0	90.0
10 224 410	Hörbiger-valve 645 EVN 3.0	109.0
10 224 460	Hörbiger-valve 735 EVN 3.0	140.0
10 225 000	Hörbiger-valve 266 EVN 3.0NC	38.7
10 225 100	Hörbiger-valve 320 EVN 3.0NC	47.4
10 225 150	Hörbiger-valve 420 EVN 3.0NC	73.0
10 225 200	Hörbiger-valve 480 EVN 3.0NC	87.0
10 225 250	Hörbiger-valve 565 EVN 3.0NC	123.0
10 225 300	Hörbiger-valve 645 EVN 3.0NC	168.0
10 225 350	Hörbiger-valve 735 EVN 3.0NC	189.0



Type	Geom. Relief Area (cm ²)	Dimensions					Connection			Approx. Weight [kg]
		a. [mm]	b. [mm]	c. [mm]	d. [mm]	e. [mm]	No. of bolts	h Thread	k P.C.D [mm]	
266EVN 3.0	499	442.2	268.6	409	106	126	6	M12 or 1/2"	302	24
320EVN 3.0	732	510	321.5	462	112	132	6	M12 or 1/2"	355	29.1
420EVN 3.0	1260	625	416.6	579	141.5	156.5	8	M16 or 5/8"	465	48
480EVN 3.0	1665	690	476.6	644	159.5	192.5	8	M16 or 5/8"	530	57
565EVN 3.0	2300	790	562.2	735	188	213	12	M16 or 5/8"	615	90
645EVN 3.0	2990	961	637.7	899	193	218	12	M16 or 5/8"	700	109
735EVN 3.0	3920	961	727.7	910	213	251	12	M16 or 5/8"	795	140

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