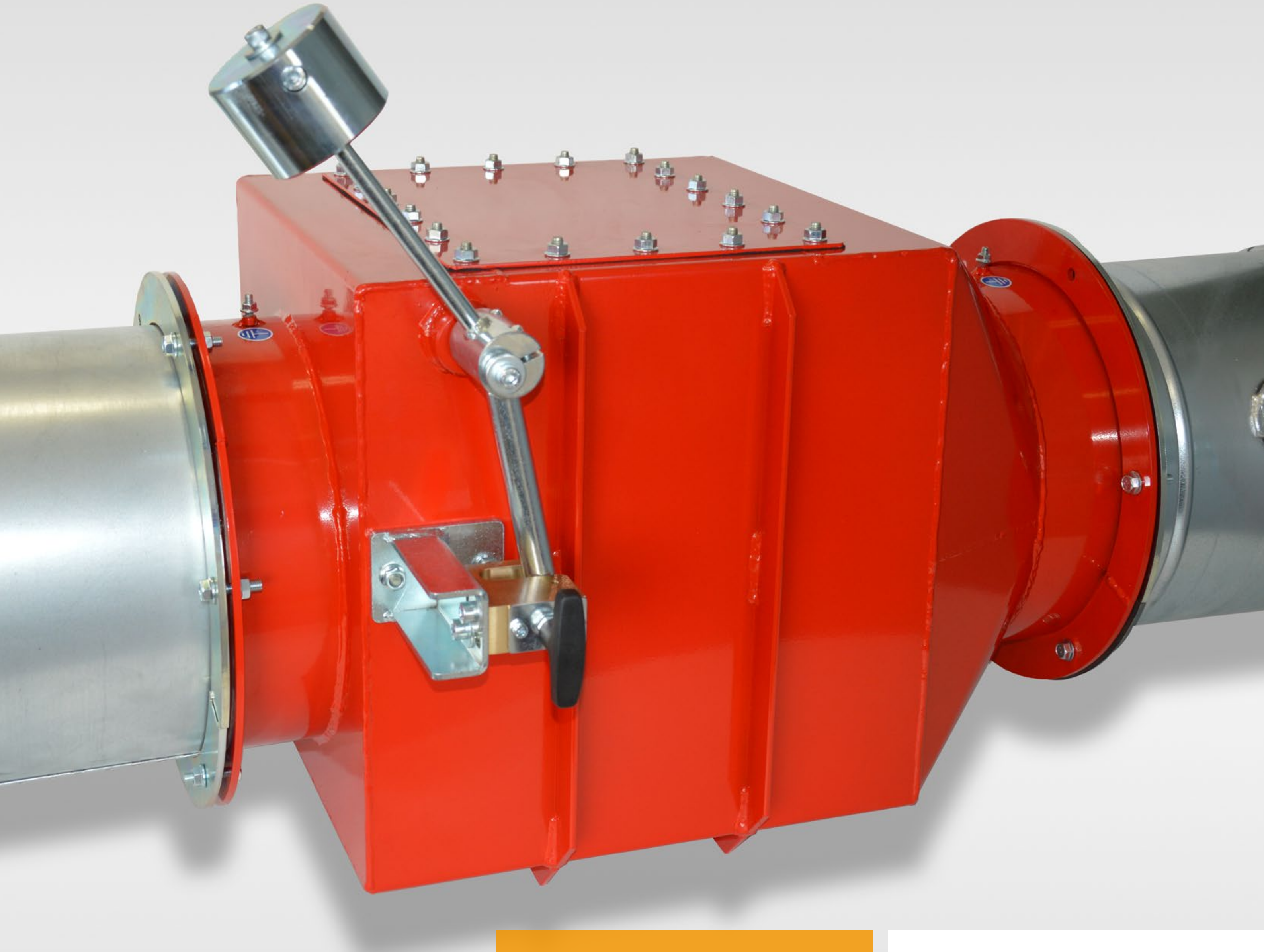


Explosion isolation flap valve
RSK-ATEX

for
explosion decoupling

HÖCKER POLYTECHNIK

Always one idea ahead

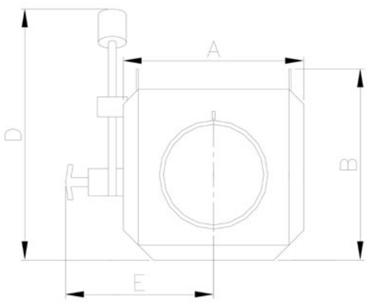
EN SAFETY

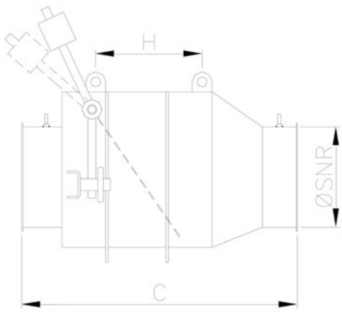
Advantages of the RSK-ATEX explosion isolation flap valve

The RSK-ATEX explosion isolation flap valve is an efficient solution for protecting against explosion propagation in a suction pipe. During normal operation, the internal valve is open and air can flow through unhindered; in the event of an explosion, the valve is closed by the pressure wave, thus preventing the explosion from propagating to upstream system components.
RSK-ATEX check valves must be used in accordance with DGUV-I 209-045 if the dust/air mixture in the suction pipe reaches or exceeds the lower explosion limit (LEL). For wood dust, the LEL is 60 g/m³. If the LEL is permanently below this level, non-ATEX-certified check valves are sufficient.

Advantages of the RSK-ATEX explosion isolation flap valve

- ATEX certified
- Complies with DIN EN 16447
- Suitable for dusts in explosion class St1 (max. 200 bar*m/s)
- For pipes from DN 100 to DN 900
- No electrical power or control unit required
- Variable mounting distance
- Low pressure loss
- High pressure resistance
- Easy installation and maintenance, low maintenance costs
- Electrical monitoring (optional) of the damper position is achieved via a limit switch positioned on a camshaft of the damper mechanism. The damper is equipped with an induction sensor that indicates the functional status (open/closed).





Flow direction ➡

Typical application of a RSK-ATEX explosion isolation flap valve

1. MultiStar filter system
2. Fan (integrated or external)
3. Rotary valve
4. Explosion isolation flap valve
5. Explosion pressure relief

Type	ø SNR	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	H (mm)	M (mm)	Distance min.-max.	P_{red} max.	Pressure loss ca.	Speed max.	Weight
RSK-ATEX 160	ø160	360	345	555	520	315	-	75	2-4 m	0,5 bar	280 Pa	30m/s	20 kg
RSK-ATEX 180	ø180	360	345	555	520	315	-	75	2-4 m	0,5 bar	280 Pa	30m/s	20 kg
RSK-ATEX 200	ø200	360	345	555	520	315	-	75	2-4 m	0,5 bar	290 Pa	30m/s	20 kg
RSK-ATEX 250	ø250	410	395	600	570	340	-	75	2-4 m	0,5 bar	310 Pa	30m/s	25 kg
RSK-ATEX 300	ø300	460	445	675	620	365	-	75	2-4 m	0,5 bar	320 Pa	30m/s	38 kg
RSK-ATEX 350	ø350	510	535	725	670	390	305	75	2-4 m	0,5 bar	340 Pa	30m/s	45 kg
RSK-ATEX 400	ø400	560	585	775	765	415	350	125	2-4 m	0,5 bar	355 Pa	30m/s	54 kg
RSK-ATEX 450	ø450	610	635	825	860	440	400	175	3-4 m	0,5 bar	370 Pa	30m/s	68 kg
RSK-ATEX 500	ø500	660	685	875	1005	465	455	290	3-4 m	0,5 bar	390 Pa	30m/s	80 kg
RSK-ATEX 550	ø550	710	735	925	960	490	505	175	3-4 m	0,5 bar	420 Pa	30m/s	100 kg
RSK-ATEX 600	ø600	760	785	975	1065	515	555	175	3-4 m	0,5 bar	450 Pa	30m/s	115 kg
RSK-ATEX 650	ø650	810	835	1025	1160	540	605	275	3-4 m	0,5 bar	470 Pa	30m/s	125 kg
RSK-ATEX 700	ø700	860	875	1075	1260	565	655	350	3-4 m	0,5 bar	500 Pa	30m/s	135 kg
RSK-ATEX 800	ø800	980	1005	1330	1435	660	715	475	6 m	0,25 bar	630 Pa	30m/s	330 kg
RSK-ATEX 900	ø900	1080	1130	1136	1210	668	400	575	5-6 m	0,5 bar	700 Pa	30m/s	335 kg

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