

SNR - Backspjäll

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Backspjället är en säker lösning för att isolera de miljöer där risk för explosion finns. Backspjället förhindrar tryckvågor och lågor vid en explosion att återvända in i röret, i vilket backspjället är monterat. Ø160 och Ø180 levereras med spännbandskant, alla större dimensioner med fläns. Ø160-900 mm är certifierade för ATEX enligt EN16447.

Art.nr	Ø (mm)	Vikt (kg)
SNR-100	100	*
SNR-125	125	*
SNR-150	150	*
SNR-160	160	*
SNR-180	180	*
SNR-200	200	*
SNR-250	250	*
SNR-300	300	*
SNR-350	350	*
SNR-400	400	*
SNR-450	450	*
SNR-500	500	*
SNR-550	550	*
SNR-600	600	*
SNR-650	650	*
SNR-700	700	*
SNR-800	800	*
SNR-900	900	*
SNR-1000	1000	*

SAFETY NOT RETURN VALVES SNR Ø 100 ÷ 700

EXPLOSION VALVES ATEX CERTIFIED

CE 1370 EPT 18 ATEX 3028 X  II D



Aircor's safety not return valves, are **ATEX CERTIFIED EN 16447** against the propagation of explosion in suction lines. They are the sure solution to isolate the environments in case of explosion in the suction plants locking the explosive effect in the suction line. They are made of carbon steel painted standard **RAL 3020** or in stainless steel AISI 304 or AISI 316, welded in all the unions and the structure is reinforced to withstand high pressures. Our standard production is equipped with flanges and counterflanges compatible with DIN 24154-R1 except Ø35-550-650-700 and locking mechanism. The gasket grants the sealing in closing position.

TECHNICAL DATA:

Horizontal pipe

Temperature range: from -20°C to +60°C

Process flux: pull flow

Dust type: not metallic

Minimum applicable volume: see table (V_{min})

ATEX class: 2

$p_{red,max}$: 0,5 bar (7,25 PSI)

p_{max} : 8.6 bar

MIE: 3÷10 mJ

MIT: 600 °C

Maximum air speed: 30 m/s

Minimum and maximum installation distance: see table (L_{min} / L_{max})

ACCESSORIES ON DEMAND:

Microswitch closed position

Capacitive sensor for dust deposit detecting

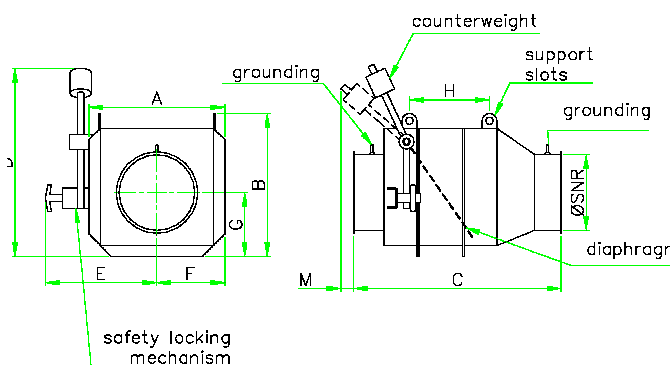
Gasket in siliconcell

Pneumatic cleaning system

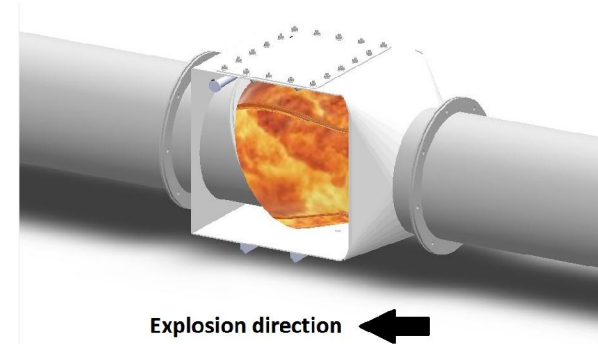
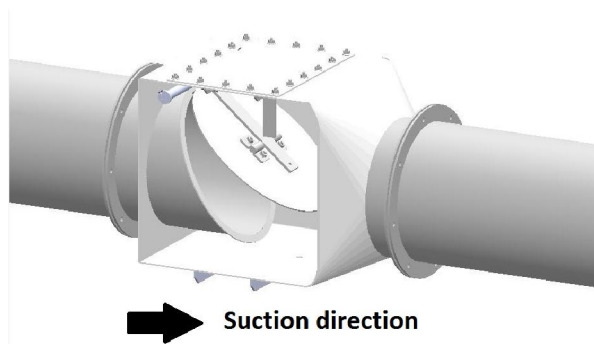
Pneumatic rearm for anti-opening lock

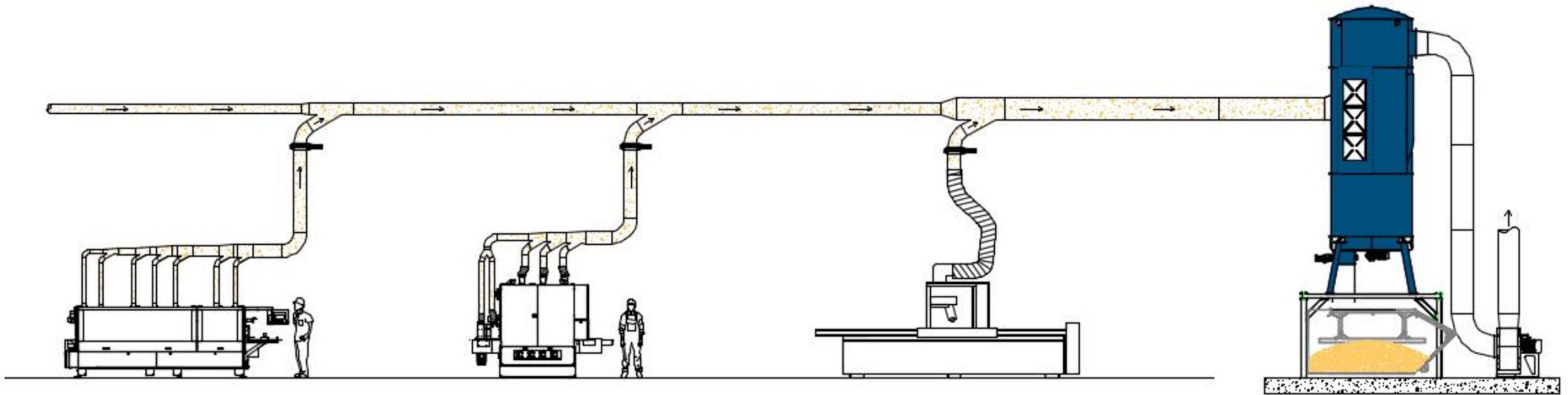
ØSNR [mm]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	M [mm]	m [kg]
100	150	195	385	-	230	100	75	-	-	8
125	175	220	410	-	255	110	88	-	-	9
150	200	245	435	-	255	125	100	-	-	10
160	360	360	555	460	305	180	170	-	25	20
180	360	360	555	460	305	180	170	-	25	20
200	360	360	555	460	305	180	175	-	25	20
250	410	410	605	510	330	205	195	-	25	25
300	460	460	675	555	355	230	220	-	25	38
350	510	530	725	605	380	255	245	305	25	45
400	560	580	775	690	405	280	270	350	65	54
450	610	630	825	750	430	305	295	400	120	68
500	660	680	875	860	455	330	320	455	200	80
550	710	730	925	875	480	355	345	505	120	100
600	760	780	975	930	505	380	370	555	160	115
650	810	830	1025	1010	530	405	395	605	200	125
700	860	880	1075	1095	555	430	420	655	250	135

ØSNR [mm]	L_{min} [m]	L_{max} [m]	$K_{st,max}$ [bar*m/s]	V_{min} [m³]	Pressure drop @ 25 m/s [mmH ₂ O]
100	3	5	270	2,34	27,0
125	3	5	270	2,34	27,0
150	3	5	270	2,34	26,5
160	2	4	270	2,34	26,5
180	2	4	270	2,34	26,0
200	2	4	270	2,34	25,0
250	2	4	270	2,34	24,5
300	2	4	270	2,34	24,5
350	2	4	270	2,34	24,0
400	2	4	270	2,34	23,5
450	3	4	260	10	23,0
500	3	4	260	10	23,0
550	3	4	260	10	23,5
600	3	4	260	10	23,5
650	3	4	260	10	24,0
700	3	4	260	10	24,0

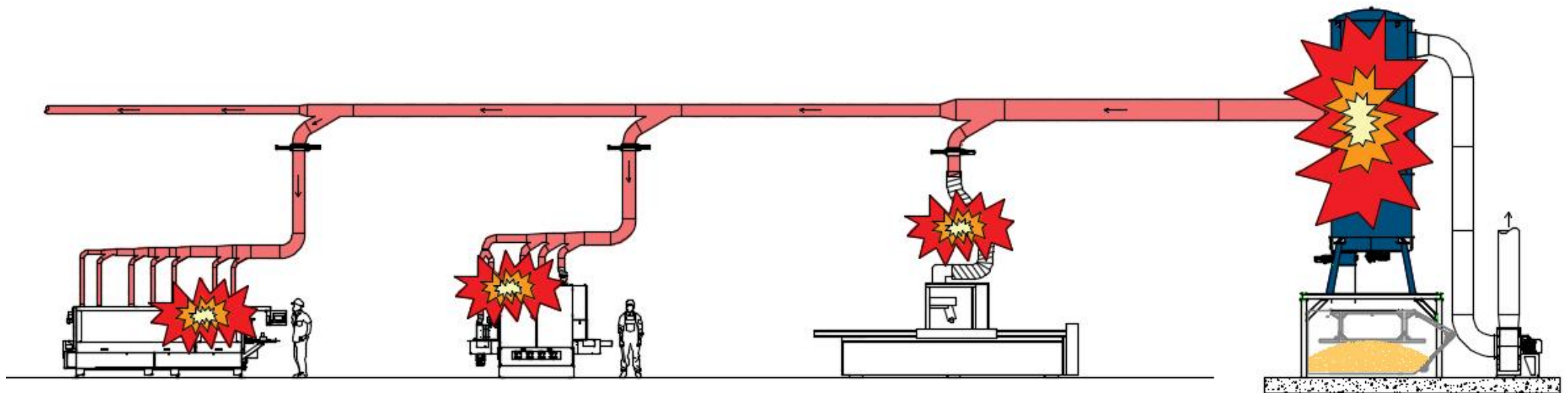


SNR ATEX Not return valve

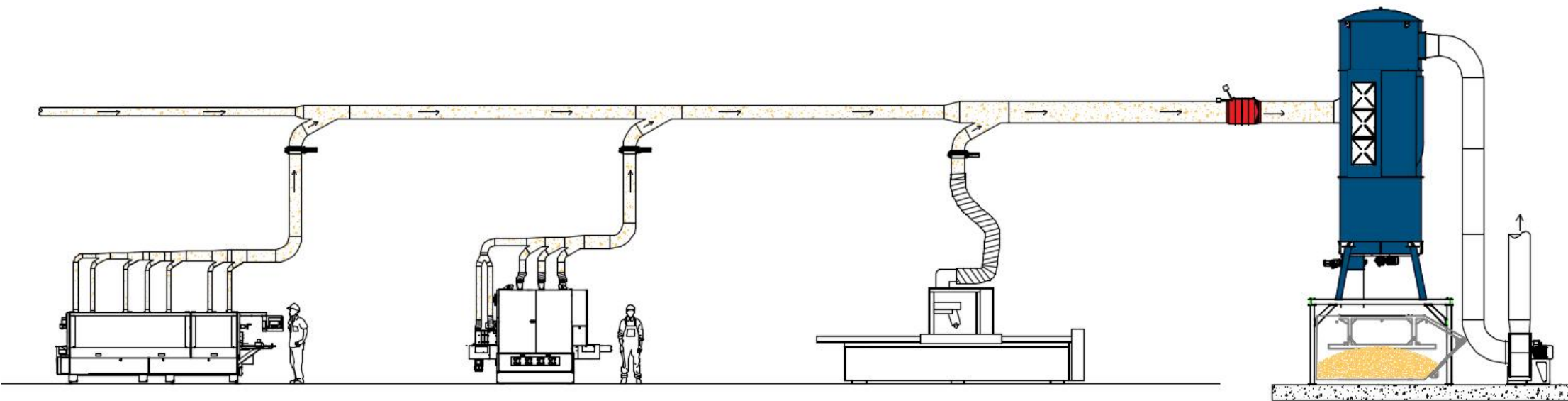




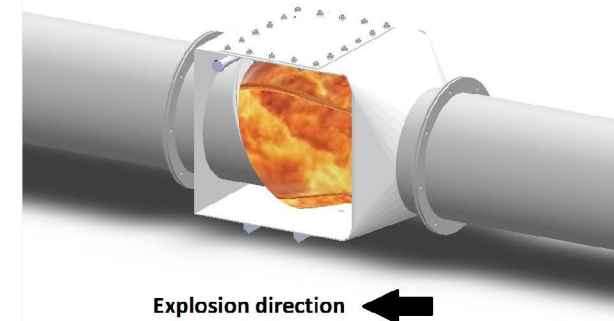
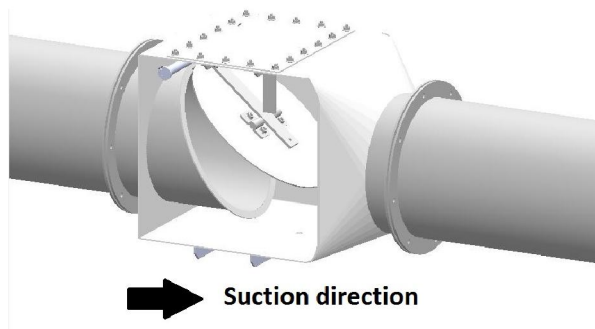
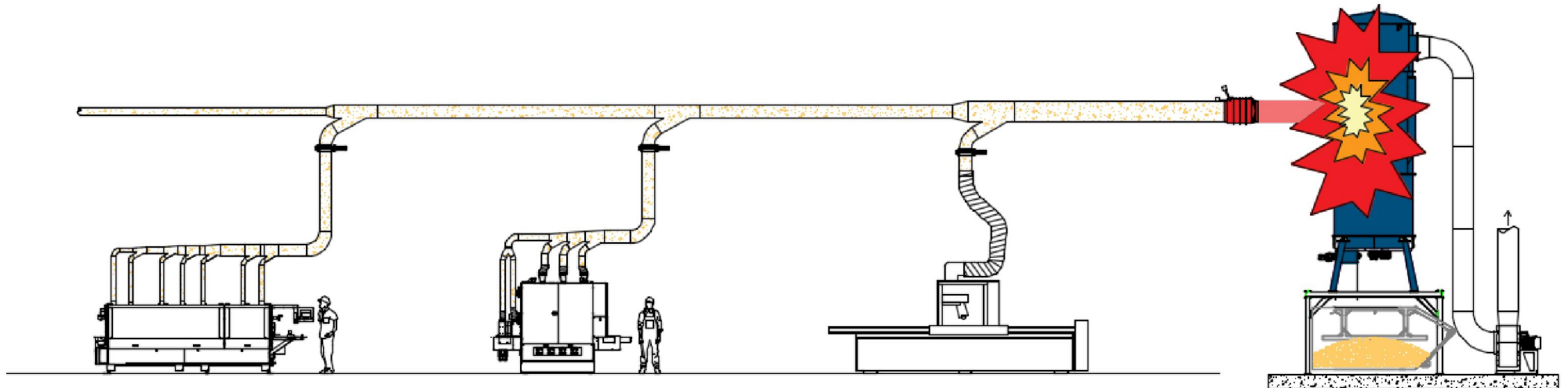
Extraction of wood dust/shavings from carpentry. ATEX dust separator with explosion relief panels.



In the event of an explosion in the dust collector, the ex-pansels are opened. There is a risk that the explosion via the pipe system is returned to the extraction points, with material and personal injury as a result.



Extraction of wood dust/shavings from carpentry. Pipe system, SNR damper and dust separator with explosion relief panels.





SNR ATEX Not return damper

Only for organic dust - not metal. To be mounted on a horizontal duct, on the suction side. Dimensions 100-900 mm (larger not available ATEX).

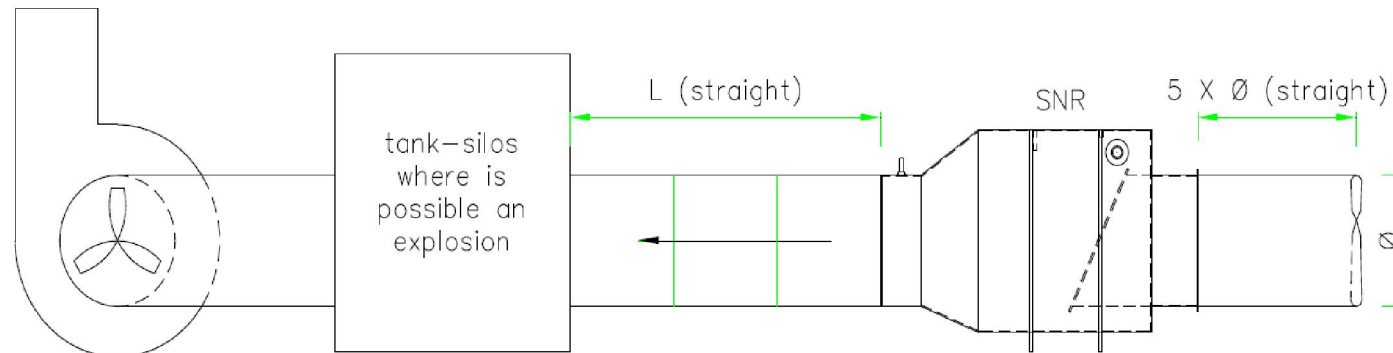
CE
1370

Code/Codice SNR 100 ÷ 700	Ø
BATCH & SERIES N. N. LOTTO E SERIE	Production year Anno produzione
Max air speed [m/s] Massimo flusso [m/s]	30
K _{st max} [bar m/s]	260 / 270
P _{red, max} [bar]	0,5
European standard	EN-16447

EPT 18 ATEX 3028 X

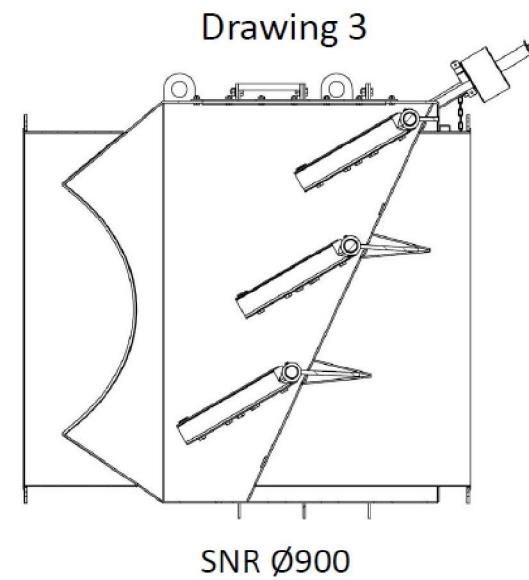
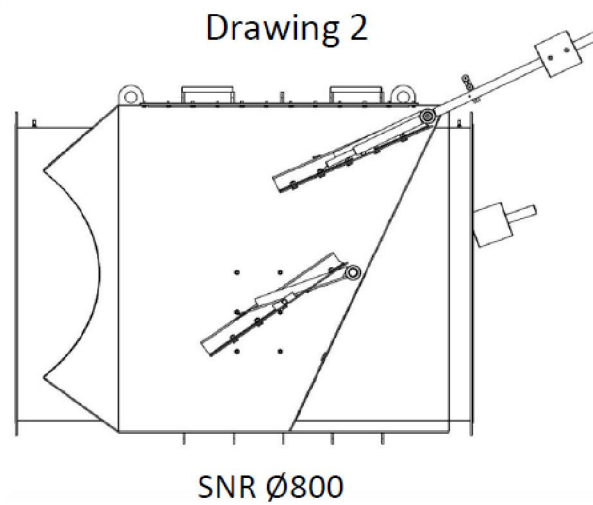
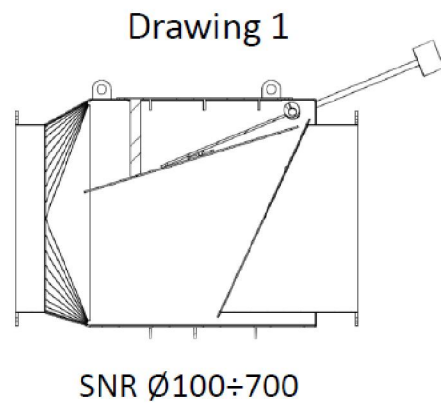


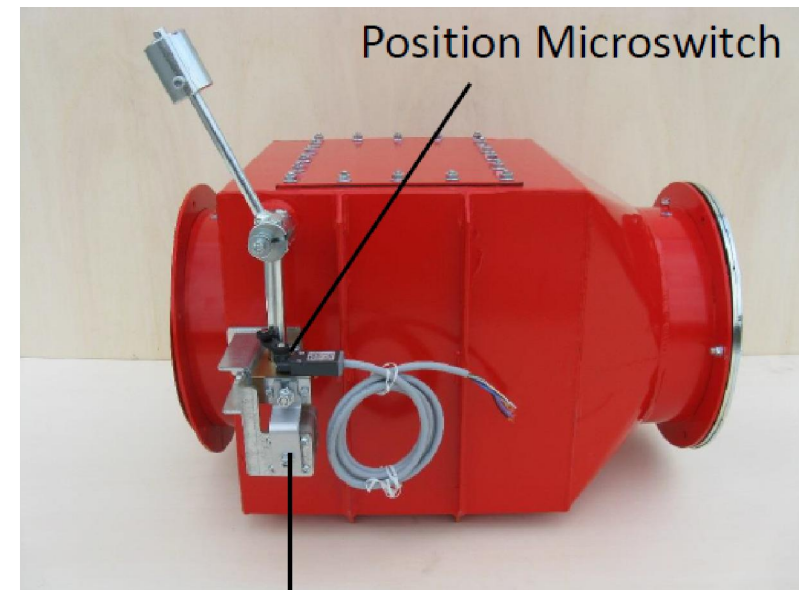
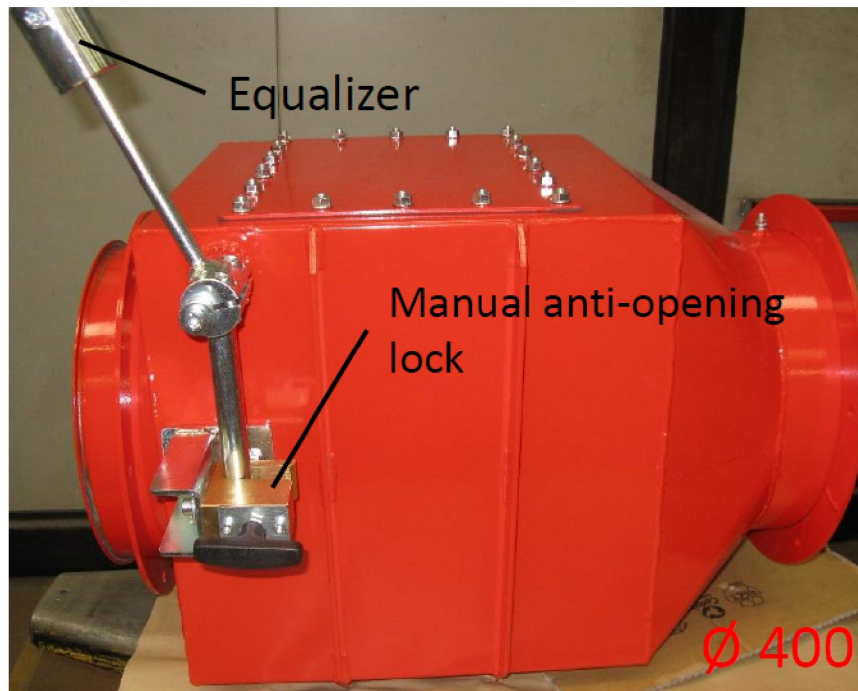
-20°C ≤ Ta ≤ +60°C



MODEL	P _{RED, MAX} [bar]	L MIN-MAX DISTANCE FROM THE CONTAINMENT SYSTEM [m]	ATEX CLASS AND KST MAX
SNR 100	0,500	3 - 5	CLASS 2 - 270 [BAR M/S]
SNR 125	0,500	3 - 5	CLASS 2 - 270 [BAR M/S]
SNR 150	0,500	3 - 5	CLASS 2 - 270 [BAR M/S]
SNR 160	0,500	2 - 4	CLASS 2 - 270 [BAR M/S]
SNR 180	0,500	2 - 4	CLASS 2 - 270 [BAR M/S]
SNR 200	0,500	2 - 4	CLASS 2 - 270 [BAR M/S]
SNR 250	0,500	2 - 4	CLASS 2 - 270 [BAR M/S]
SNR 300	0,500	2 - 4	CLASS 2 - 270 [BAR M/S]

SNR 350	0,500	2 - 4	CLASS 2 - 270 [BAR M/S]
SNR 400	0,500	2 - 4	CLASS 2 - 270 [BAR M/S]
SNR 450	0,500	3 - 4	CLASS 2 - 260 [BAR M/S]
SNR 500	0,500	3 - 4	CLASS 2 - 260 [BAR M/S]
SNR 550	0,500	3 - 4	CLASS 2 - 260 [BAR M/S]
SNR 600	0,500	3 - 4	CLASS 2 - 260 [BAR M/S]
SNR 650	0,500	3 - 4	CLASS 2 - 260 [BAR M/S]
SNR 700	0,500	3 - 4	CLASS 2 - 260 [BAR M/S]
SNR 800	0,250	6	CLASS 2 - 240 [BAR M/S]
SNR 900	0,500	5 - 6	CLASS 3 - 330 [BAR M/S]





Pneumatic anti-opening lock

Manual pneumatic valve

Capacitive sensor

Detects if material gets stuck in the damper. Requirements according to American standard NFPA. Can be mounted on existing dampers.



Capacitive Sensor

Patented solution quick closing of dampers

When the damper blade is overpressured, the counterweight part releases, which enables a faster closing of the damper.

