

## Explosion Isolation Flap Valve CARZ-NS Ø160-250mm

Explosion Isolation Flap Valve CARZ-NS your protective system for combustible dust applications



Explosion Isolation Flap Valve type CARZ-NS prevents a transmission of explosion pressure wave and flames front from the filter to your workplace. By using our CARZ-NS Explosion Isolation Flap Valve, you reduce the risk from dust explosion for both people and equipment.

### Function

During normal operation, the valve is kept open, and large opening angle ensure low pressure drop. In case of an explosion in the filter, the pressure wave will force to close the flap plate and lock in position. When flap plate is closed it makes an effective barrier against approaching flame front. This prevent the explosion from being transmitted from the filter to upstream work areas.

No matter what industry you are in or what type of dust is generated in your factory, we can provide the complete dust explosion protection solution of filters, and explosion isolation flap valves.

- Independently tested to latest and most stringent standards and regulations
- Compliant with international dust explosion protection codes (ATEX, NFPA68, IECEx)
- Widest range of sizes, applications and filter system configurations on the market (e.g. approval for positive and negative pressure systems, approval for metal dust, approval for St2 dust)
- Manufactured fully by Nederman under certified quality assurance system, ensuring highest level of quality and reliability

<b>Product name</b>	Explosion Isolation Flap Valve CARZ-NS Ø160-250mm
<b>Material</b>	Welded carbon steel, painted RAL5009
<b>Operating temperature range</b>	-20 - +70°C (0 - 160 F)
<b>Ambient temperature range</b>	-20 - +60°C (0 - 140 F)
<b>Note</b>	Organic dust: PUSH & PULL; metal dust: PULL only
<b>Explosion Class ATEX</b>	St2
<b>Dust Concentration in duct</b>	organic dust: Any; metal dust: < LEL
<b>Max velocity in duct (m/s)</b>	35
<b>Minimum velocity in duct</b>	0
<b>Install type</b>	Push and Pull
<b>Minimum vessel size, push (m3)</b>	0,46
<b>Minimum vessel size, pull (m3)</b>	0,46
<b>Kst (bar m/s)</b>	organic dust: 300; metal dust: 260
<b>Maximum reduced pressure, Pred (bar)</b>	0,5

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Diameter (mm)	Connection	[model]
250	QF	73008405*
250	NW	73008406*
160	FL	73008218*
160	QF	73008219*
160	NW	73008220*
180	FL	73008398*
180	QF	73008399*
180	NW	73008400*
200	FL	73008401*
200	QF	73008402*
200	NW	73008403*
250	FL	73008404*

\*Organic dust: PUSH & PULL; metal dust: PULL only

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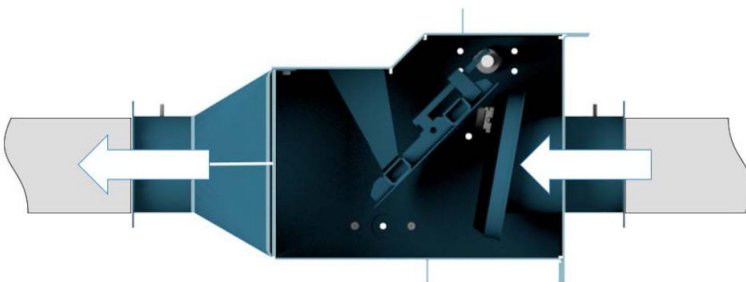
### Patent protected product:

- EP patent: EP 3 343 077
- USA: US 10 315 059
- China: 201711349554.2

Patent protected product

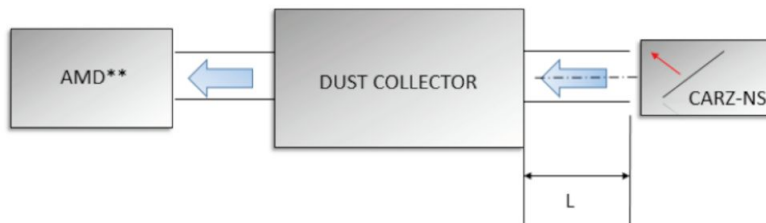


Explosion direction



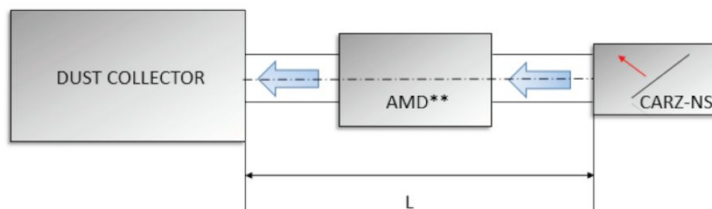
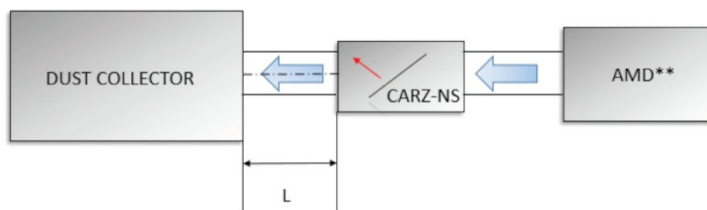
Suction direction

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PULL configuration

\*\*AMD = Air moving device or fan



PUSH configuration

\*\*AMD = Air moving device or fan