

CARZ

Válvula de aislamiento de explosión CARZ - sistema de protección.



CARZ

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

La válvula de mariposa CAR con aislamiento anti explosión está diseñada como equipo resistente a la presión generada, y es capaz de prevenir la transmisión de las llamas y la presión aguas arriba de la instalación.

Descripción
Construcción soldada en RAL 5009 pintada en azul con placa de acero o acero inoxidable con un fuerte sello de goma, que está disponible bajo petición.

Función
Durante el caudal de aire generado por el ventilador principal, la placa de la aleta está abierta. En caso de una explosión en el equipo aguas abajo (por ejemplo, colector de polvo) una onda de presión obligará a cerrar la placa de la aleta y bloquearla en posición. Gran ángulo de apertura para asegurar una baja caída de presión. Cuando la placa de la aleta se cierra hace de barrera eficaz frente al avance del frente de llama. Esto previene que la explosión se transmita a las áreas de trabajo, aguas arriba de la instalación.

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Certificaciones	CE, EX
[ProductOperatingTemperatureRange]	-20°C - +70°C (Min -4 °F Max 160 °F)

[ProductAmbienTemperatureRange]	-20°C - +60°C (Min -4 °F Max 140 °F)
[ItemExClassEX]	St1
[ItemMaxVelocity]	30
[ItemMinVelocity]	0
[ItemPushPull]	Push and Pull
[ItemDustType]	[organic]
[ItemPred]	0,45

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Models

	Item number	Diámetro (mm)	[ItemDuctConnection]	Peso (kg)	[ItemDustConcentration]	[ItemMinVesselSizePush]	[ItemMinVesselSizePull]
	73001200	160	FL	23	Any	0,4	0,4
	73001201 ^[1]	180	FL	26	< LEL	0,9	0,9
	73001202 ^[1]	200	FL	29	< LEL	0,9	0,9

	Item number	Diámetro (mm)	[ItemDuctConnection]	Peso (kg)	[ItemDustConcentration]	[ItemMinVesselSizePush]	[ItemMinVesselSizePull]
	73001204 ^[1]	250	FL	36	< LEL	0,9	0,9
	73001207 ^[1]	315	FL	45	< LEL	0,9	0,9
	73001209 ^[1]	350	FL	50	< LEL	0,9	0,9
	73001211 ^[1]	400	FL	57	< LEL	0,9	0,9
	73001212	160	NW	23	Any	0,4	0,4
	73001213 ^[1]	180	NW	26	< LEL	0,9	0,9
	73001214 ^[1]	200	NW	29	< LEL	0,9	0,9
	73001216 ^[1]	250	NW	36	< LEL	0,9	0,9
	73001219 ^[1]	315	NW	45	< LEL	0,9	0,9
	73001221 ^[1]	355	NW	50	< LEL	0,9	0,9

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2025-12-09

4/12

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	Item number	Diámetro (mm)	[ItemDuctConnection]	Peso (kg)	[ItemDustConcentration]	[ItemMinVesselSizePush]	[ItemMinVesselSizePull]
	73001223 ^[1]	400	NW	57	< LEL	0,9	0,9
	73001224	160	QF	23	Any	0,4	0,4
	73001225 ^[1]	180	QF	26	< LEL	0,9	0,9
	73001226 ^[1]	200	QF		< LEL	0,9	0,9

	Item number	Diámetro (mm)	[ItemDuctConnection]	Peso (kg)	[ItemDustConcentration]	[ItemMinVesselSizePush]	[ItemMinVesselSizePull]
	73001228 ^[1]	250	QF	29	< LEL	0,9	0,9
	73001231 ^[1]	315	QF	36	< LEL	0,9	0,9
	73001233 ^[1]	350	QF	45	< LEL	0,9	0,9
	73001235 ^[1]	400	QF	57	< LEL	0,9	0,9
	73000301	160	FL	23	Any	0,4	0,4
	73000302 ^[1]	180	FL	26	< LEL	0,9	0,9
	73000303 ^[1]	200	FL	29	< LEL	0,9	0,9
	73000304 ^[1]	250	FL	36	< LEL	0,9	0,9
	73000305 ^[1]	315	FL	45	< LEL	0,9	0,9

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2025-12-09

5/12

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	Item number	Diámetro (mm)	[ItemDuctConnection]	Peso (kg)	[ItemDustConcentration]	[ItemMinVesselSizePush]	[ItemMinVesselSizePull]
	73000306 ^[1]	350	FL	50	< LEL	0,9	0,9
	73000307 ^[1]	400	FL	57	< LEL	0,9	0,9
	73000308	160	NW	36	Any	0,4	0,4
	73000309 ^[1]	180	NW	26	< LEL	0,9	0,9
	73000310 ^[1]	200	NW	29	< LEL	0,9	0,9

	Item number	Diámetro (mm)	[ItemDuctConnection]	Peso (kg)	[ItemDustConcentration]	[ItemMinVesselSizePush]	[ItemMinVesselSizePull]
	73000312 ^[1]	315	NW	45	< LEL	0,9	0,9
	73000313 ^[1]	355	NW	50	< LEL	0,9	0,9
	73000314 ^[1]	400	NW	57	< LEL	0,9	0,9
	73000315	160	QF	23	Any	0,4	0,4
	73000316 ^[1]	180	QF	26	< LEL	0,9	0,9
	73000317 ^[1]	200	QF	29	< LEL	0,9	0,9
	73000318 ^[1]	250	QF	29	< LEL	0,9	0,9
	73000319 ^[1]	315	QF	36	< LEL	0,9	0,9

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	Item number	Diámetro (mm)	[ItemDuctConnection]	Peso (kg)	[ItemDustConcentration]	[ItemMinVesselSizePush]	[ItemMinVesselSizePull]
	73000320 ^[1]	350	QF	45	< LEL	0,9	0,9
	73000321 ^[1]	400	QF	57	< LEL	0,9	0,9
	73000311 ^[1]	250	NW		< LEL	0,9	0,9

^[1] LEL = Lower Explosion Limit = MEC Minimum Explosion Concentration

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Accessories

	Accessory	Item number
	CARZ Locking Sensor set	73001236
	CARZ support frame suspended 160	73001558
	CARZ support frame suspended 180	73001559
	CARZ support frame suspended 200	73001560
	CARZ support frame suspended 315	73001562
	CARZ support frame suspended 350	73001563
	CARZ support frame suspended 400	73001564
	CARZ support frame suspended 500	73001566
	CARZ support frame suspended 710	73001569
	Carz support frame suspended 900	73001571
	CARZ support frame suspended 1000	73001572
	CARZ support frame wall-hanging 160	73001573

	Accessory	Item number
	CARZ support frame wall-hanging 180	73001574

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8/12



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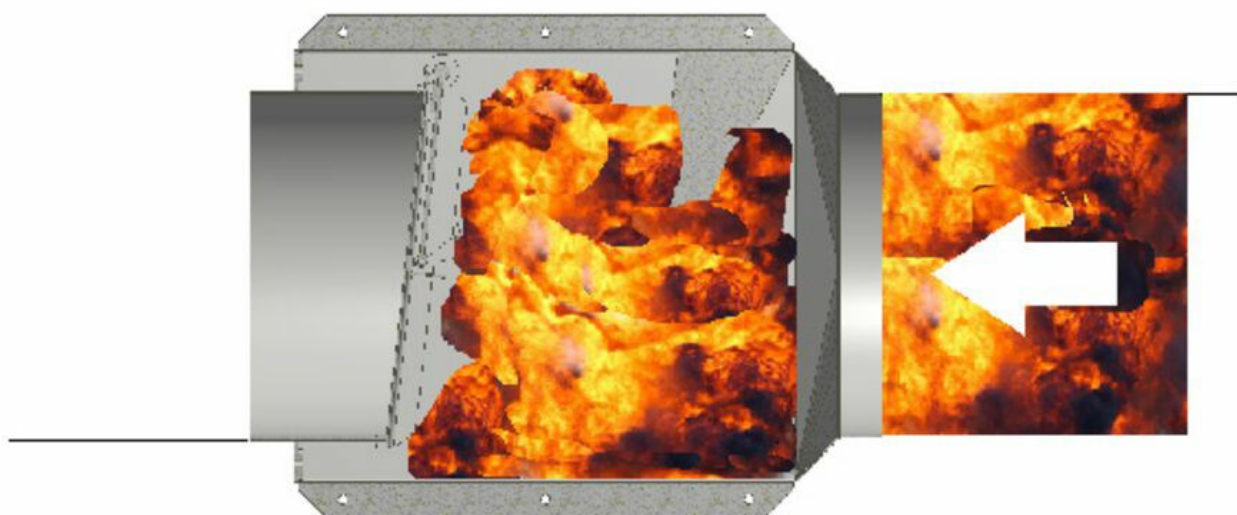
Accessories

	Accessory	Item number
	CARZ support frame wall-hanging 200	73001575
	CARZ support frame wall-hanging 250	73001576
	CARZ support frame wall-hanging 315	73001577
	CARZ support frame wall-hanging 350	73001578
	CARZ support frame wall-hanging 400	73001579
	CARZ support frame wall-hanging 450	73001580
	CARZ support frame wall-hanging 500	73001581
	CARZ support frame wall-hanging 560	73001582
	CARZ support frame wall-hanging 900	73001586
	CARZ support frame wall-hanging 1000	73001587

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Suction direction



Explosion direction

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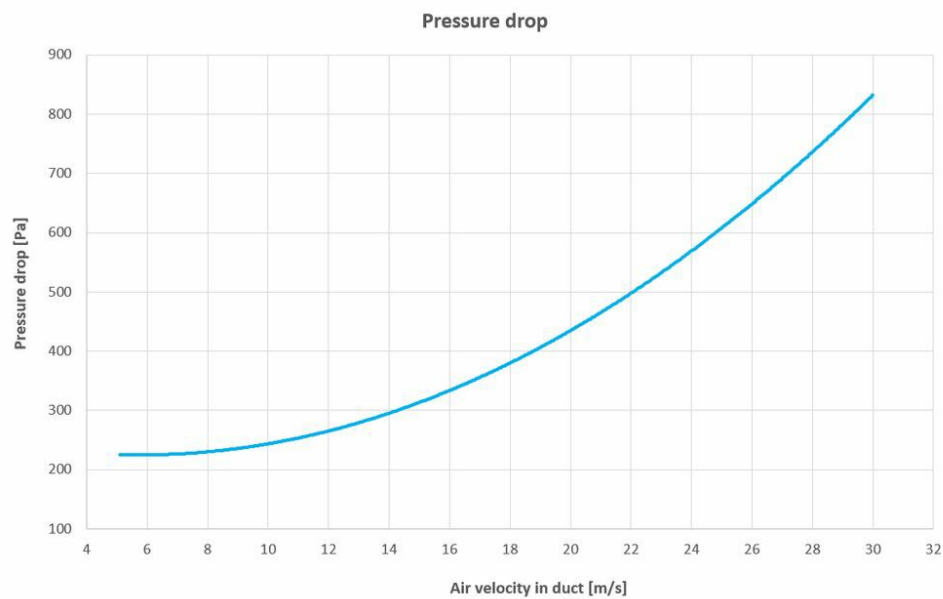
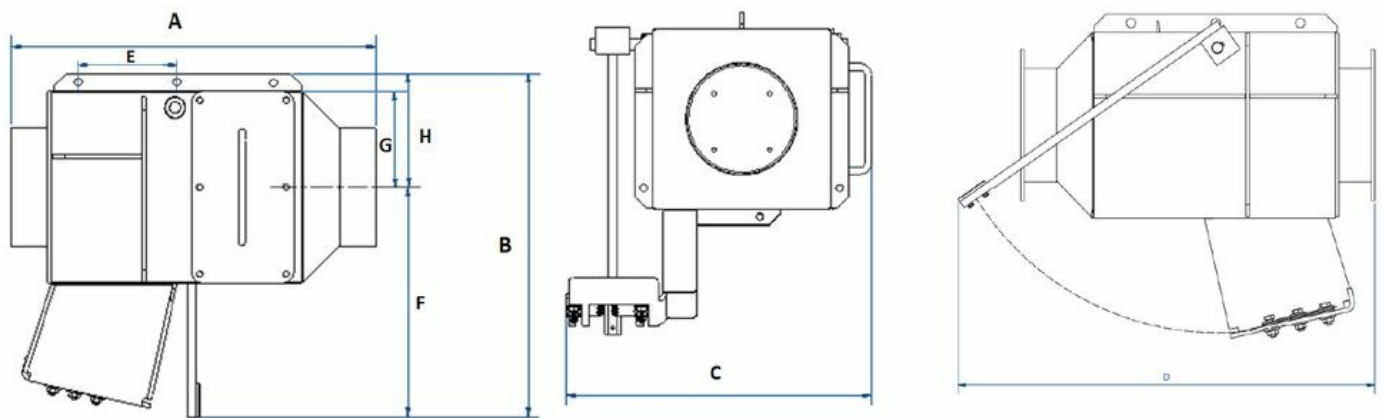


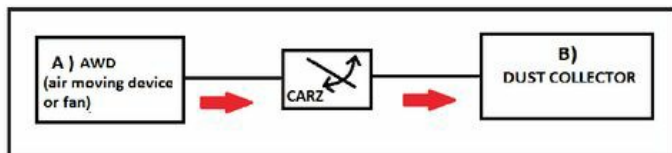
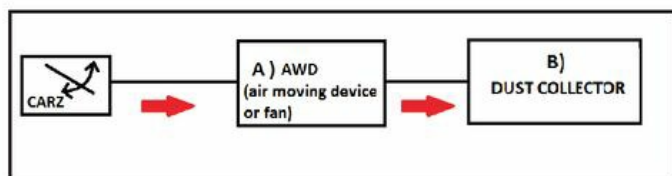
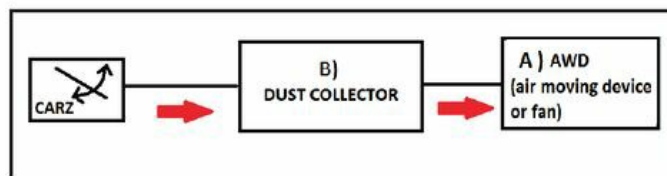
Chart of pressure drop vs. air velocity in duct Pressure drop CARZ, sizes 160 -400 X- Axis: Air velocity in duct (m/s) Y-Axis: Pressure drop (Pa)



Dimensions

Flap valve size ØD	Dimensions [mm]								Weight [kg]	Part number						
	A	B	C	D	E	F	G	H		FL	QF	NW**	Stainless steel version			
													FL	QF	NW**	
160mm	495	470	435		196	310	130	155	23	73001200	73001224	73001212	73000301	73000315	73000308	
180mm	515		455		581	206	301	140	165	26	73001201	73001225	73001213	73000302	73000316	73000309
200mm	535		475			216	291	150	175	29	73001202	73001216	73001214	73000303	73000317	73000310
250mm	585		525	585	241	266	175	200	36	73001204	73001228	73001216	73000304	73000318	73000311	
315mm	650	495	605	650	273	230	213	253	45	73001207	73001231	73001219	73000305	73000319	73000312	
350mm*	685	530	640	685	291	217	225	265	50	73001209	73001233	73001221	73000306	73000320	73000313	
400mm	735	580	690	735	316	198	250	290	57	73001211	73001235	73001223	73000307	73000321	73000314	

Dimensions table, metric

PUSH configuration**PULL configuration**

Parameter	Ø 160mm	Ø 180 – Ø 400mm
1	2	3
L1* min	3 m	5 m
L1* max	8 m	10 m

Push/ Pull configuration, metric A) AWD (air moving device or fan) B) Dust Collector 1) Elbows 2) Straight duct and max. 2 elbows 90° 3) Straight duct and max. 2 elbows 90° L1 - Installation distance from the vessel, where the explosion could occur, to the CARZ.