

### NRSZ 3 rotary valves

Continuous emptying of the dust collector hopper.



The NRSZ type rotary valve is used to transfer material between two separate systems. In pneumatic conveying systems, discharge is usually required from the filter or cyclone to the silo, at atmospheric pressure. This is an ideal application for the NRSZ type rotary valve.

The rotary valve can be used for emptying of several non-adhesive material types, also combustible dust. Max. particle size for the NRSZ 3 is  $3 \times 3 \times 10$  mm ( $.1 \times .1 \times .4$  in.)

The rotary valve should not work with highly abrasive dust.

The NRSZ rotary valve is made explosion pressure shock resistant. It prevents the transmission of the explosion effects, pressure wave, flame and sparkles until its maximum reduced explosion pressure Pred,Max. in both directions of the divided space with dangerous atmosphere of the flammable dust (except metal dust). The rotary valve should not work with capacity more than 60% of max.

- ATEX certified for St1 and ST2 dust.
- Robust construction.
- Effective air lock between the inlet and outlet provided due to the special rubber blades.

None do Produto	NRSZ 3 rotary valves	
Nível de ruído (dB(A))	< 70	
Instalação	Interior, Exterior	
Material	Galvanised steel plate	
AAdequado para poeiras combustíveis	True	
Application	Poeira	
Operating Temperature	Max. 70°C	
Peso (kg)	32	
Poténcia /kW)	0,18	





Poeira



# NRSZ 3 rotary valves

[model]
73008863*
73009044**
73008862*
73008864*
73009227*

<sup>\*</sup>Capacity at 100% filling - 2,3 m3/h \*\*Without motor



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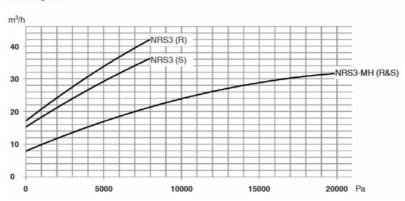
#### Atex limitations

Rotary valve type	P <sub>red ma</sub>	P <sub>red max</sub> [kPa]	
	St1 Kst <sub>max</sub> *=20 MPa·m/s	St2 Kst <sub>max</sub> *=30 MPa·m/s	Rotation speed max [rpm]
NRSZ 3	40	40	10
*Kst for organic dust			·

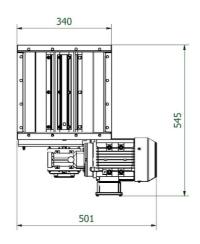
The combustible dust is described by the parameters: The limit values of the used class of dust St1: Kst<sub>max</sub>=20 MPa·m/s, MIE  $\geq$ 13 mJ, MIT  $\geq$ 430°C (of a dust cloud). The limit values of the used class of dust St2: Kst<sub>max</sub>=300 MPa·m/s, MIE  $\geq$ 2 mJ, MIT  $\geq$ 520°C (of a dust cloud).

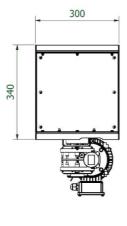
#### Leakage

The leakage of the rotary valve during shutdown (S) and during operation (R) depends on the pressure drop over the rotor.



#### Dimensions NRS 3 / NRSZ 3



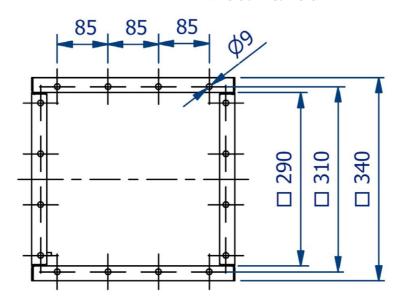


Dimensions NRS 3



## NRSZ 3 rotary valves

### Dimension inlet NRSZ3:



Dimension inlet NRSZ3