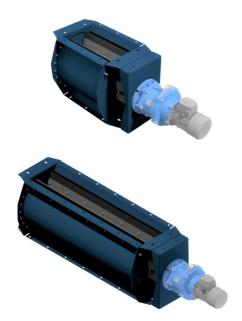


Continuously empty combustible dust from your dust collector



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 NRS type rotary valve.

The rotary valve can be used for most material types, though the particle size must not exceed $13 \times 13 \times 13$ mm (.5 x .5 x .5 in). The rotary valve should not work with highly abrasive dust.

The NRSZ type rotary valve is modular and robustly constructed in heavy steel plate. The rotor of each module is equipped with a clutch. This reduces the possibility of damage in use and maximises the life of the unit. The rotor has special rubber seals, which provide an effective air lock between the inlet and the outlet. The rotary valve should not work with capacity more than 60% of max.

This type of rotary valve is a certified version for explosive dusts type St1 and St2. The NRSZ is a protective system according to ATEX definition.

Explosive dusts type St1 may have Kst up to 200 bar m/s.

Explosive dusts type St2 may have Kst up to 300 bar m/s.

Produkt namn	NRSZ rotary valves, type 4,10,20 and 30
Ljudnivå (dB(A))	<70
Installation	Utomhus, Inomhus
Material	Tung stålplåt
Lämplig för explosivt damm	True
Applikation	Stoft
Temperaturområde	-20 till 40 grader C.







Vikt (kg)	Effekt (kW)	Model
50		73008867*
75	0,18	73008868**
75	0,18	73008870**
75	0,18	73008871**
130	0,18	73008875***
130	0,18	73008877***
130	0,18	73008878***
95		73008874****
135	0,75	73008876****
135		73008879****
135		73008880****
221		73008881*****
243	0,75	73008882*****
243		73008883*****
		73009037
312		73008884*****
338	0,75	73008885******
		73009038
		73009039

^{*}Without motor. Capacity at 100% filling - 1,50m3/h per RPM

^{**}Capacity at 100% filling - 10 m3/h

**Capacity at 100% filling - 24 m3/h

***Without motor. Capacity at 100% filling - 3,5 m3/h per RPM

***Capacity at 100% filling - 67 m3/h

^{*****}Without motor. Capacity at 100% filling - 7 m3/h per RPM

^{*******}Capacity at 100% filling - 134 m3/h

^{*******}Without motor. Capacity at 100% filling - 134 m3/h
*******Without motor. Capacity at 100% filling - 10,5 m3/h per RPM

^{*********}Capacity at 100% filling - 201 m3/h



Tillbehör		Artikelnummer	
	Rotationsgivare för NRS med monteringssats	73008689	
	Tool for setting the rotor in NRSZ4/10	73008777	



ATEX limitations NRSZ 4, 10, 20, 30:

Rotary valve type	P _{red.m}	Rotation speed max. [rpm]	
	St1 Kst _{max} *=20 MPa·m/s	St2 Kst _{max} *=30 MPa · m/s	notation speed max. [rpm]
NRSZ 4	25	20	20
NRSZ 10	25	20	20
NRSZ 20	25	20	20
NRSZ 30	25	20	20

The combustible dust is described by the parameters: The limit values of the used class of dust St1: Kst_{max}=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_{max}=30 MPa·m/s, MIE \geq 2 mJ, MIT \geq 520°C (of a dust cloud).

List of Types:

ID	Type model - rpm	Installation zone exterior of NRSZ	Capacity at 100% filling	Motor [kW]	Motor ATEX Marking	Weight [kg]
73008867	NRSZ 4-0	Depends on motor	1,5 m³/h per RPM	none		50
73008868	NRSZ 4-7	Non-zone	10 m ³ /h	0,18		75
73009028	NRSZ 4-20		28 m³/h	0,75	rui	69
73008874	NRSZ 10-0	Depends on motor	3,5 m³/h per RPM	none		95
73008875	NRSZ 10-7	Non-zone	24 m³/h	0,18		130

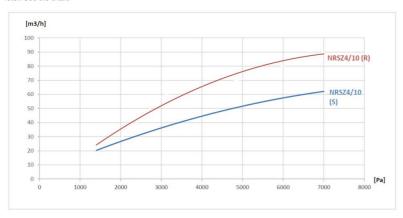
List of Types:

ID	Type model - rpm	Installation zone exterior of NRSZ	Capacity at 100% filling	Motor [kW]	Motor ATEX Marking	Weight [kg]
73008876	NRSZ 10-20		67 m ³ /h	0,75		135
73008881	NRSZ 20-0	Depends on motor	7 m³/h per RPM	none	÷	221
73008882	NRSZ 20-20	Non-zone	134 m ³ /h	0,75		243
73008884	NRSZ 30-0	Depends on motor	10,5 m³/h per RPM	none		312
73008885	NRSZ 30-20	Non-zone	201 m ³ /	0,75		338
73008870	NRSZ 4-7 Cat 2	Zone 21	10 m ³ /h		II 2D Ex tb IIIC T135°C Db	75
73008871	NRSZ 4-7 Cat 3	Zone 22		0,18	II 3D Ex to IIIB T125°C Do	75
73009029	NRSZ 4-20 Cat 2	Zone 21		0.75	II 2D Ex tb IIIC T135°C Db	69
73009030	NRSZ 4-20 Cat 3	Zone 22	28 m ³ /h	0,75	II 3D Ex to IIIB T125°C Do	69
73008877	NRSZ 10-7 Cat 2	Zone 21	24 m³/h		II 2D Ex tb IIIC T135°C Db	130
73008878	NRSZ 10-7 Cat 3	Zone 22		0,18	II 3D Ex to IIIB T125°C Do	130
73008879	NRSZ 10-20 Cat 2	Zone 21	67 m ³ /h		II 2D Ex tb IIIC T135°C Db	135
73008880	NRSZ 10-20 Cat 3	Zone 22			II 3D Ex to IIIB T125°C Do	135
73008883	NRSZ 20-20 Cat 2	Zone 21	134 m ³ /h		II 2D Ex tb IIIC T135°C Db	243

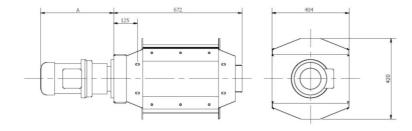


Leakage

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

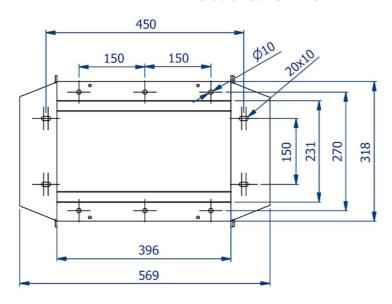


Dimensions NRS 4 / NRSZ 4

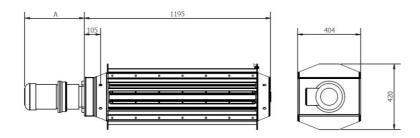




Dimensions inlet NRS 4 / NRSZ 4

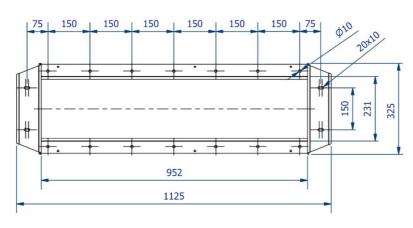


Dimensions NRS 10 / NRSZ 10

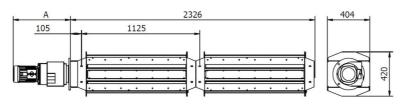




Dimensions inlet NRS 10 / NRSZ 10



Dimensions NRS 20 / NRSZ 20



Dimensions NRS 30 / NRSZ 30

