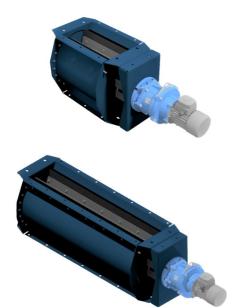


Continuously empty combustible dust from your dust collector



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.

品名	NRSZ rotary valves, type 4,10,20 and 30
噪音水平 (分贝)	<70
安装	室外, 室内
材料	Heavy steel plate
适用于易爆粉尘	True
应用	粉尘
性能(最大风量m3/h)	The rotary valve should not work with capacity more than 60% of max
工作温度	Max. 70 ° C.





粉尘



重量(公斤)	功率 (kW)	产品编号
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 - 201 m3/h



ATEX limitations NRSZ 4, 10, 20, 30:

Atex limitations

p _{red.max} [kPa]		Rotation speed max. [rpm]	
St1 Kst _{max} *=20 MPa·m/s	St2 Kst _{max} *=30 MPa · m/s	- Hotation speed max. [rpm]	
25	20	20	
25	20	20	
25	20	20	
25	20	20	
	St1 Kst _{max} *=20 MPa·m/s 25 25 25	St1 Kst _{max} *=20 MPa·m/s St2 Kst _{max} *=30 MPa·m/s 25 20 25 20 25 20	

The combustible dust is described by the parameters:

The limit values of the used class of dust St1: Kst_{max}=20 MParm/s, MIE ≥13 mJ, MIT ≥430°C (of a dust cloud). The limit values of the used class of dust St2: Kst_{max}=30 MParm/s, MIE ≥2 mJ, MIT ≥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		69
73008874	NRSZ 10-0	Depends on motor	3,5 m³/h per RPM	none	6-1	95
73008875	NRSZ 10-7	Non-zone	24 m³/h	0,18	(5)	130

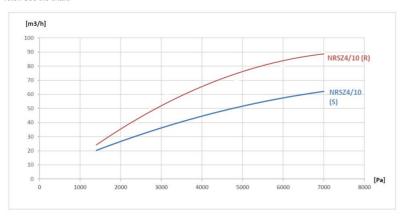
List of Types:

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 m³/h	0,75	Ė	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 21	0.10	II 2D Ex tb IIIC T135°C Db	75
73008871	NRSZ 4-7 Cat 3	Zone 22	10 m ³ /h	0,18	II 3D Ex to IIIB T125°C Do	75
73009029	NRSZ 4-20 Cat 2	Zone 21	28 m³/h		II 2D Ex tb IIIC T135°C Db	69
73009030	NRSZ 4-20 Cat 3	Zone 22		0,75	II 3D Ex to IIIB T125°C Do	69
73008877	NRSZ 10-7 Cat 2	Zone 21			II 2D Ex tb IIIC T135°C Db	130
73008878	NRSZ 10-7 Cat 3	Zone 22	24 m ³ /h	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

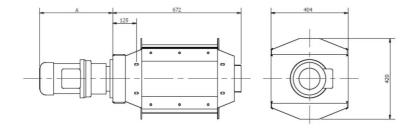


Leakage

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

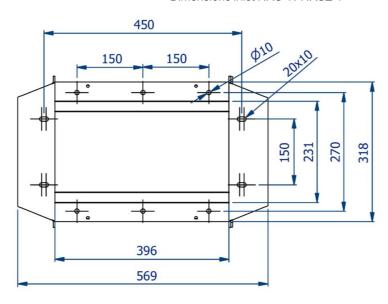


Dimensions NRS 4 / NRSZ 4

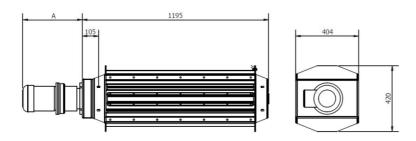




Dimensions inlet NRS 4 / NRSZ 4

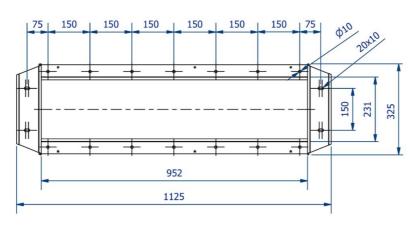


Dimensions NRS 10 / NRSZ 10

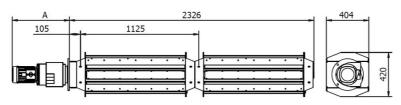




Dimensions inlet NRS 10 / NRSZ 10



Dimensions NRS 20 / NRSZ 20



Dimensions NRS 30 / NRSZ 30

