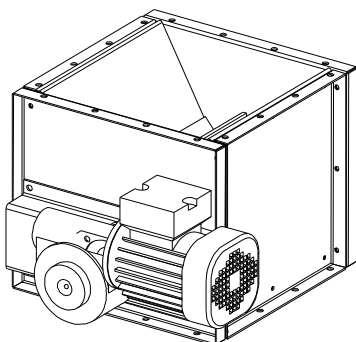


Rotary valve type NRSZ3 with ATEX certificate

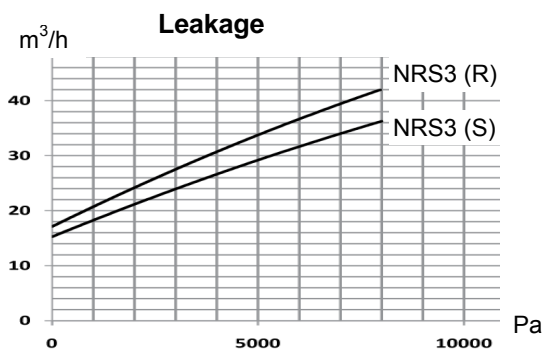
The rotary valve type NRSZ3 is used for continuous emptying of normal or explosive dust from filter hoppers.



Description

The rotary valve is made of galvanized steel plate. The rotary valve is divided into several chambers, ensuring minimum leakage, free and easy motion and a long lifetime. This is enhanced by the low rotating speed, which is 7 RPM (60 Hz, 8.5 RPM).

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



Marking

The NRSZ3 body is marked for mounting in non-zone:

CE 1180 Ex II 1/- D c 80°C St2

The marking is based on product certification FTZU 02ATEX0252x by N.B. No. 1026 and Quality System certification by N.B. No. 1180.

Accessories

Speed sensor IP67

399012.065

The rotary valve type NRSZ3 is used for continuous emptying of normal or explosive dust from filter hoppers. The rotary valve can be used for emptying of non-adhesive material types. Max. particle size is 3 x 3 x 10 mm.

Explosive dusts may have Kst up to 300 bar m/s (St2). The NRSZ3 is a protective system according to the ATEX definition. The P_{red} must be less than 100 kPa (1,0 bar).

Special demands for safe use:

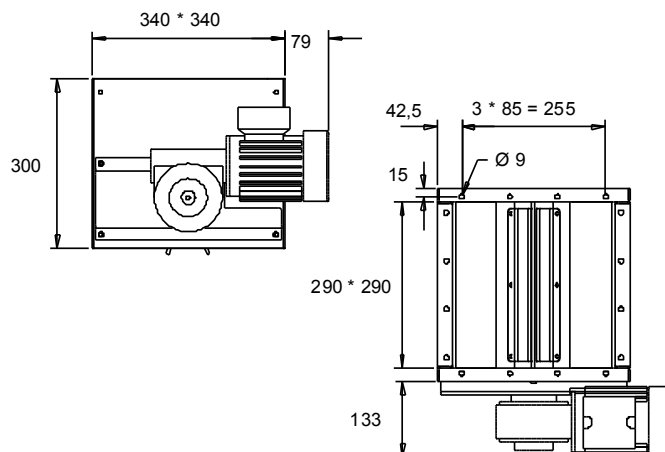
At an explosion the rotary valve shall be stopped automatically and immediately.

Specifications

Standard gear motor	0,18 kW, 3 x 230/400 V, 50/60 Hz
Max. operating temp. with standard rotor rubber	50°C
Special rubber up to 80°C	On request
Capacity at 100 % filling	1.1 m³/h
Weight	32 kg

At ordering, please state:

Type of rotary valve, the voltage and frequency of the power supply, the dust Kst, the maximum inside temperature as well as installation zone. For zone 21/22 also max. surface temperature.



Article no.	Type	Installation zone exterior of NRSZ3	Motor ATEX marking *
399012.095	NRSZ3 non-zone	Non-zone	none
399012.295	NRSZ3 Cat 2	Zone 21 or 22	Ex II 2D T4
399012.395	NRSZ3 Cat 3	Zone 22	Ex II 3D T4

* T4: Max. surface temperature 135°C.

** Special gear console and extra bush for shaft.