



Datasheet solids - Rotary Valve ZRSR-Clean



Operating conditions:

Maximum pressure: 0,7 bar absolute up to < 1,5 bar g.

Max. product temperature: 150° C. Max/min. ambient temperature $-10^{\circ}\text{C} \leq T \leq 50^{\circ}\text{C}$.

Bulk solid data:

Powder form, up to medium hardness.

Free flowing up to limited flowing products.

Type	Inlet / Outlet	Height	V / turn	Weight
ZRSR2533C01	250x400 mm	560 mm	33 dm ³	350 kg
ZRSR3176C01	315x500 mm	670 mm	76 dm ³	645 kg

Basical version:

Housing: casted stainless steel 1.4408 (DIN) / CF-8M (AISI).

Rotor: welding construction – stainless steel 1.4307 (DIN) / 304L (AISI). 8 inelastic blades.

Outside bearings.

Shaft seal: radial shaft sealing rings with sealing / purge air connection.

Suitable for zone 22 inside category 3 according to Atex 2014/34/EU.

Drive: direct.

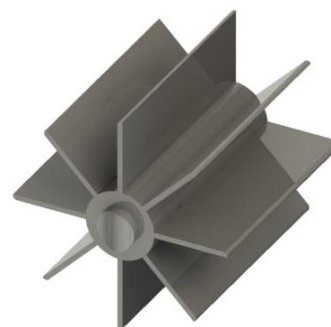
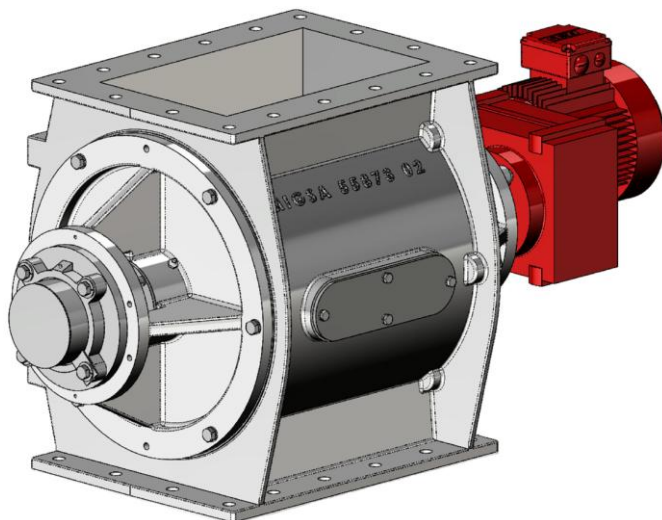
Motor: three-phase gearboxmotor.

Manufacturer: SEW, degree of protection IP55, thermal class 155(F), separately specified.

Form: slip on gear with torque arm.

Surface treatment:

Blasted and passivated.



Freigabe:	MIGSA	SST
Datum:	03.2.20	Kurzzeichen:
		Ru

Preliminary
Änderungen vorbehalten



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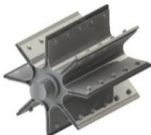


Datasheet solids - Rotary Valve ZRSR-Clean

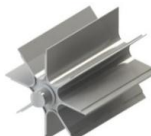


Options:

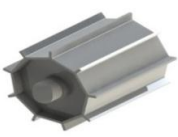
1. Rotor with 8 adjustable polyurethane blades.

Size	V / turn	
ZRSR-250x400	36 dm ³	
ZRSR-315x500	74 dm ³	

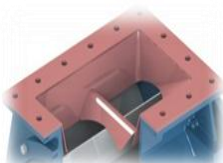
2. Rotor with 8 rounded pockets made of stainless steel 1.4307 (DIN) / 304L (AISI).

Size	V / turn	
ZRSR-250x400	33 dm ³	
ZRSR-315x500	75 dm ³	

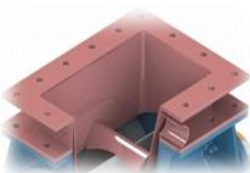
3. Rotor with 8 pockets with reduced volume made of stainless steel 1.4307 (DIN) / 304L (AISI).

Size	V / turn	
ZRSR-250x400	19 dm ³	
ZRSR-315x500	33 dm ³	

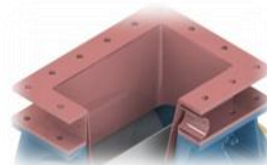
4. Inlet for granules, grain size > 500 µm, made of stainless steel 1.4307 (DIN) / 304L (AISI). Incl. connection parts for assembling.



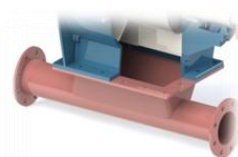
5. Leakage air collector for granules, grain size > 500 µm, made of stainless steel 1.4307 (DIN) / 304L (AISI). Incl. connection parts for assembling.



6. Leakage air collector for non-granules, made of stainless steel 1.4307 (DIN) / 304L (AISI). Incl. connection parts for assembling.



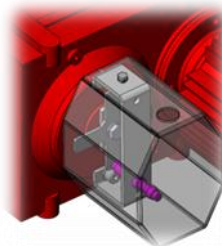
7. Blowing shoe for pneumatic transport made of stainless steel 1.4307 (DIN) / 304L (AISI). Incl. connection parts for assembling.



8. Parts in contact with the material, made of stainless steel 1.4404 (DIN) / 316L (AISI), casted parts in 1.4408 (DIN) / CF-8M (AISI). Incl. leakage air collector / granulate inlet / blowing shoe.

9. Parts in contact with the material, made of stainless steel 1.4571 (DIN) / 316Ti (AISI), casted parts in 1.4408 (DIN) / CF-8M (AISI). Incl. leakage air collector / granulate inlet / blowing shoe.

10. Standstill monitoring with star and sensor.



11. Pneumatic installation for sealing / purge air, consisting of 2/2-way solenoid valve, pressure regulator and nozzles.



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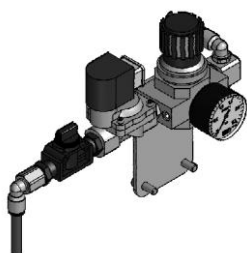
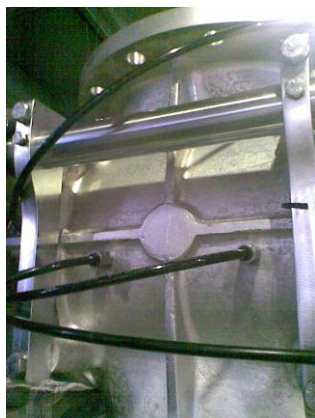




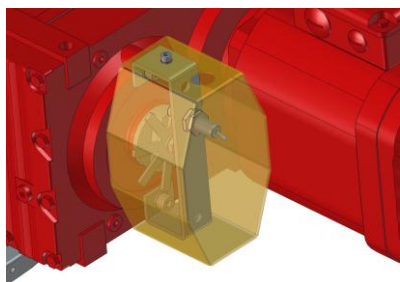
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12. Pneumatic discharge of the pockets for cohesive products, incl. pneumatic installation.



13. Dosing stop by switching off-positioning of the rotor with 8-point-star and sensor.



14. Minimum ambient temperature: -20°C.
15. Electrical parts outside, suitable for zone 2/22.
16. Electrical parts outside, suitable for zone 1/21.

17. Wear protection treatment for housing, caps and rotor:

17.1. **Nitriding**: heat treatment by absorption. Penetrates until 30 µm. Obtained hardness: between 500 and 1000 HV. Treatment applied to body and caps, rotor made of anti-wear steel.

17.2. **Electroless nickel plating**: metallic film of NiP. Obtained film: between 25 and 35 µm. Obtained hardness: between 550 and 650. Treatment applied to body and caps, rotor made of anti-wear steel.

17.3. **Hard chrome plating**: metallic film of chrome. Obtained film: 100 µm. Obtained hardness: 900 HV. Treatment applied to body and caps, rotor made of anti-wear steel.

17.4. **Tungsten carbide**: metallic ceramic film. Obtained film: 300 µm. Obtained hardness: 800 HV. Treatment applied to body, caps and rotor.

Related documents:

3D-part: Type.step (e.g.: **ZRSR2533C01**. Step)
2D layout drawing: Type.dxf (e.g.: **ZRSR2533C01**. dxf)
Selection guide: SG-ZRS-SRV-DBS
Price list: PL-ZRSR-Clean
List of drawing numbers: Draw-No-List_ZRSR-Clean



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