



Datasheet

solids- Rotary Valve / Protective System

SRVP-Basic



Part of **HOSOKAWA ALPINE**

Operating conditions:

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

Product temperature from -20°C up to 120°C with corresponding clearance for constant operating temperature.

Bulk solid data:

Powder form, up to medium hardness, no metal powders.

Free flowing up to limited flowing products.

Type	Inlet / Outlet-Ø *)	Height	Volume / Round	Weight
SRVP1504B01B	Ø 150 mm	320 mm	5 dm ³	130 kg
SRVP2008B01B	Ø 200 mm	375 mm	10 dm ³	165 kg
SRVP2517B01C	Ø 250 mm	450 mm	20 dm ³	220 kg

*) Flange-outside-Ø and holes acc. to PN10 DIN2576

Basical version:

Housing: cast iron GG25.

Rotor: welding construction – carbon steel, 8 pockets, inelastic blades.

Outside bearings.

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

Shock pressure proof 10 bar, flame propagation proof.

Suitable for zone 20 inside and protective system category 1 accordin to ATEX 2014/34/EU.

Without sensoric and control.

For dust explosions grade St1 and St2, Kst value 0-300 bar x m x s-1.

With type examination test by a notified body, certificate number FTZÚ 18 ATEX 0126X.

With water pressure test for housing with bearing shields.

Drive: direct.

Motor: three-phase gearboxmotor.

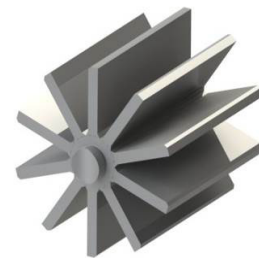
Manufacturer: SEW, degree of protection IP55, thermal class 155 (F), separately specified.

Maximum 20 turn/min due to type examination.

Form: slip on gear with torque arm.

Surface treatment:

Sand blasted, primer 40 µm of zinc phosphate, painted with 40 µm of 2-component polyurethane, blue RAL5012.



Option 10:
Rotor shock pressure
proof 13 bar

approval	MIGSA	SST
	Date: 06.04.20 Ru	Date: 6.4.20 sign: Le

Preliminary
Modifications reserved



solids solutions group
www.solids.eu



Datasheet

solids- Rotary Valve / Protective System

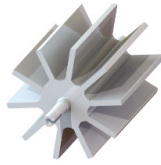
SRVP-Basic



Options:

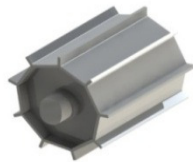
1. Rotor with rounded carbon steel blades.

Size	V / turn
SRVP150	4,5 dm ³
SRVP200	9,5 dm ³
SRVP250	19 dm ³



2. Rotor with reduced volume, about half of the standard volume made of carbon steel.

Size	V / turn
SRVP150	2,4 dm ³
SRVP200	4,7 dm ³
SRVP250	9,7 dm ³

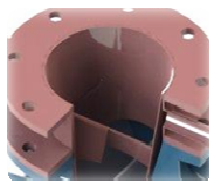


3. Rotor made of stainless steel 1.4307 (DIN) / 304L (AISI) according the selected rotor-options.

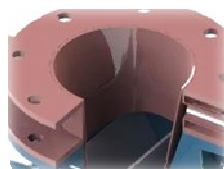
4. Inlet for granules, grain size >500 µm, made of carbon steel, pressure shock resistant 13 bar. Incl. connection parts for assembling.



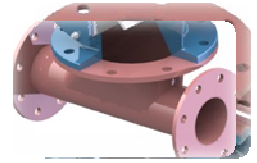
5. Leakage air collector with granule inlet, grain size > 500 µm, made of carbon steel, pressure shock resistant 13 bar. Incl. connection parts for assembling.



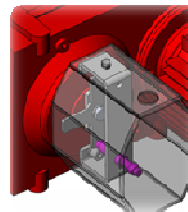
6. Leakage air collector for non-granules, made of carbon steel, pressure shock resistant 13 bar. Incl. connection parts for assembling.



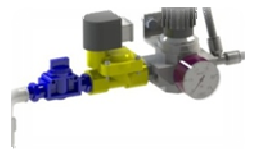
7. Blowing shoe for pneumatic transport made of carbon steel, pressure shock resistant 13 bar. Incl. connection parts for assembling.



8. Standstill monitoring with star and sensor.

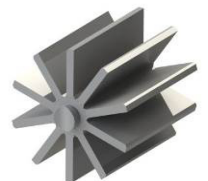


9. Pneumatic installation for sealing / purge air, consisting of 2/2-way solenoid valve, pressure regulator and nozzles.



10. Shock pressure proof 13 bar for dust explosion class St 1 and St 2, Kst-value 0 up to 300 bar x m x s⁻¹, max. explosion pressure 13 bar, 10 pockets, reinforced design. Certificate number BVS 10 ATEX H 014 X N1.

Size	V / turn
SRVP150	3,8 dm ³
SRVP200	7,8 dm ³
SRVP250	17 dm ³



10.1 Rotor with rounded carbon steel blades made of carbon steel.

Size	V / turn
SRVP150	2,5 dm ³
SRVP200	6 dm ³
SRVP250	12 dm ³



Datasheet

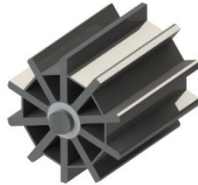
solids- Rotary Valve / Protective System

SRVP-Basic



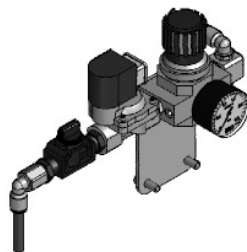
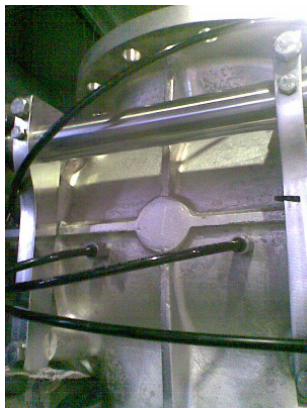
10.2 Rotor with reduced volume, about half of the standard volume made of carbon steel.

Size	V / turn
SRVP150	1,7 dm ³
SRVP200	3,5 dm ³
SRVP250	7,5 dm ³

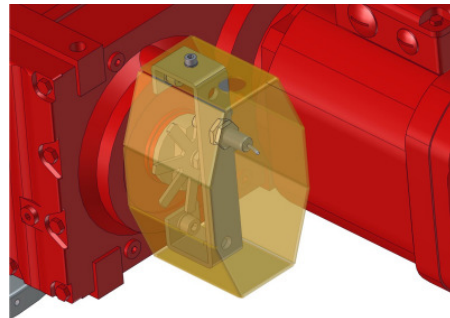


11. Shock pressure proof 10 bar for dust explosion class St 3, Kst-value >300 bar x m x s⁻¹, max. explosion pressure 10 bar, 10 pockets, reinforced design, data like option 10. Certificate number BVS 10 ATEX H 014 X N1.

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



13. Dosing-stop by switching-off-positioning of the rotor with 8 or 10-finger-star (depending on the choosed rotor) and sensor



14. Electrical parts outside, suitable for zone 2/22.

15. Electrical parts outside, suitable for zone 1/21.

16. Wear protection treatment for housing, caps and rotor.

16.1. **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.

16.2. **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.

16.3. **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.





Datasheet

solids- Rotary Valve / Protective System

SRVP-Basic



Part of **HOSOKAWA ALPINE**

16.4. **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 (example : **SRVP15003B01**. Step)

2D-planning drawing: Type.dxf (example: **SRVP15003B01**. dxf)

Selection criteria: SG- ZRS-SRV-DBS

Pricelist: PL-SRVP-Basic

List of drawing numbers: Draw-No-List_SRVP-Basic



solids solutions group
www.solids.eu

