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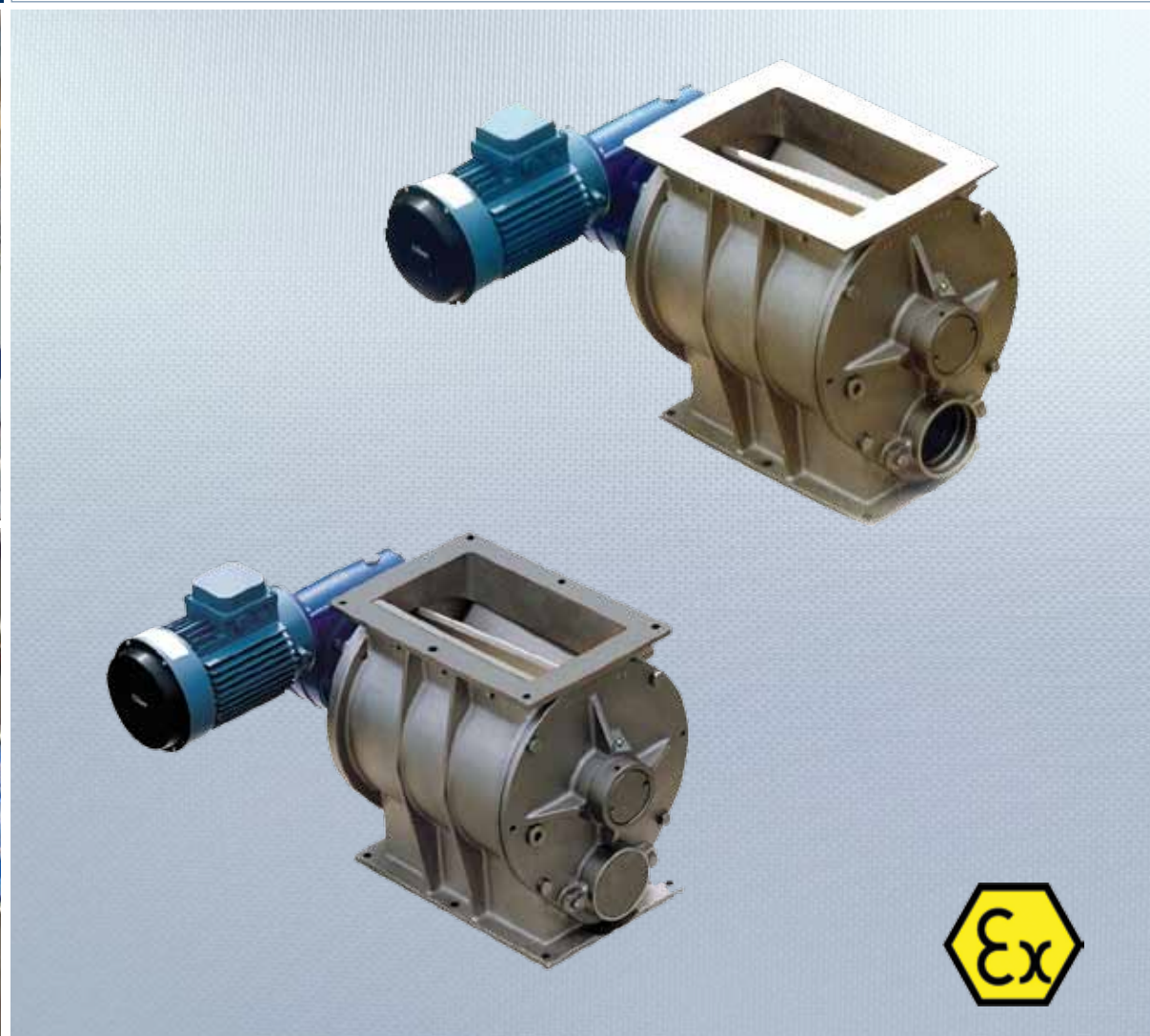
www.filquip.com.au

Blow-Through Rotary Valves

RVS

Drop-Through Rotary Valves

RVC



HIGH FILLING EFFICIENCY AND PRECISE METERING IN GRAVITY FEEDING AND PNEUMATIC CONVEYING OF POWDERS AND GRANULES

RVS Blow-Through Rotary Valves have two compartments at a time of the continuously turning rotor filled up with material through the inlet at the top. After less than half a turn the material is conveyed into an air stream of a pneumatic conveying pipe passing through the bottom of the rotary valve.

With RVC Drop-Through Rotary Valves, which have a similar design, the material falls out through the bottom outlet by gravity into a container, a conveyor or pneumatic conveying system.

Features

- Capacity: 5 – 10 – 15 – 20 – 38 – 78 litres per revolution (0.17 – 0.35 – 0.52-0.7 – 1.23 – 2.82 cu ft/rev)
- Working temperature: from -40 °C up to 220°C
- Working pressure: from – 0.5 bar up to 0.8 bar
- Material: cast iron or 304 stainless steel



Benefits

- ✓ RVS with rectangular inlet flange and two lateral pipe connections on bottom outlet;
- ✓ RVC with rectangular inlet/outlet flange;
- ✓ Open rotor with bevelled edges as standard (except RVC/S 80);
- ✓ Sturdy compact structure;
- ✓ Drive unit mounted on rotor shaft without further bearing assembly or coupling;
- ✓ Easy access to internal mechanical parts;
- ✓ Various materials and treatments available depending on material handled;
- ✓ ATEX 20/22 version available.

ATEX Certification

RVS – RVC... X

ATEX 20/22 Certified

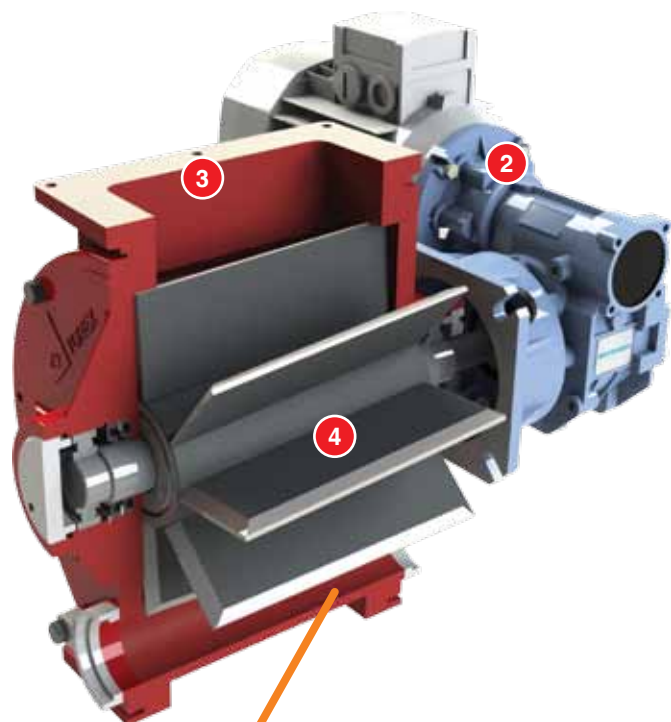
CE II 1D/3D c T135°C
0948
Cert.No.EX5 07 01 61456 002

ATEX Rotary Valves

ATEX rotary valves are designed and tested for use in potentially explosive zones classified as ZONE 22 or non-classified zones and with process atmospheres (inside the valve) classified as ZONE 20 in accordance with Directive 94/9/EC and 1999/92/EC.

Usage Limits

Ambient temperature: from -10°C to + 40°C
Process temperature (material): from – 20°C to + 60°C
Atmospheric pressure: from 0.8 to 1.1 bar
Maximum rotor speed: 30 rpm
Minimum ignition energy: mie > 3 mJ



2 Drive Unit



Bare Shaft



Direct Drive (20-30 rpm)



Direct Pre-Torque Gear Motor (10 rpm)

3 Casing



Internally Chrome-Plated
Used for abrasive materials



Completely Nickel-Plated
Used for corrosive materials or as a substitute of stainless steel for food applications if accepted.
Rotor and end flanges are completely nickel-plated too



Internally Teflon®-Coated
Used for sticky materials
Rotor and end flanges are Teflon®-coated too.

1

1 Bottom Outlet



Streamlined entry and discharge of air conveyed through valve

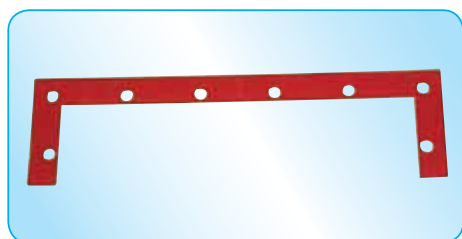
- Introduces high pressure conveying air through the valve casing and rotor pockets, ensuring high efficiency throughput with a low pressure drop
- Reduced overall height
- Pipe connections included bolted on both sides of the end plates

4 Rotor

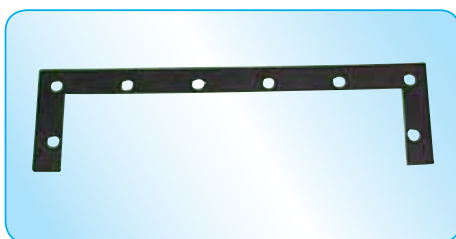


Standard Version with Chamfered Rotor Blades

Accessories



Vulkollan®



Viton®



Teflon®



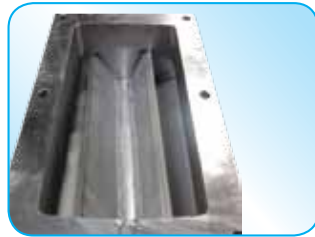
Mechanical Variable Speed Drive
(from 4 to 20 rpm)



Chain Transmission (10-20-30 rpm)



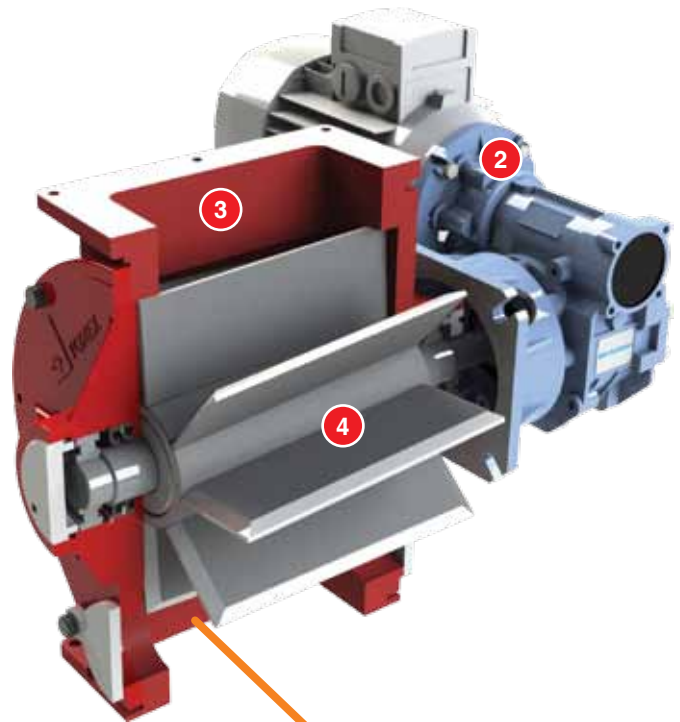
Coated
als.
are



Completely 304 Stainless Steel Cast
Used for food applications.
Rotor and end flanges are manufactured
from 304 stainless steel too.



Lateral air venting bores as standard
Used for:
- extracting excess air from rotor
pockets
- decreasing air pressure inside the
casing
- increasing throughput



1



Rotor with Replaceable Tips

1 Bottom Outlet



Large open bottom outlet to freely discharge material
under gravity flow

- Suitable for both gravity and pneumatic conveying
system
- In case of installation in pneumatic conveying
system, a drop box custom made can be fitted to
suit all pipe diameters (not provided by TOREX®)
- Identical inlet/outlet flange dimensions enable
easy connection



Air-Purged Seals



External bearing
- packing gland seals
- suitable for temperature up to 220°C
- suitable for extremely fine powders



Rotation Indicator



Scraper

Applications



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