OPERATING AND SAFETY INSTRUCTIONS

# VTRF and VTRA Venturi pneumatic conveyors

Anodised aluminium conveying vacuum pumps · keep with the product

> ⚠ **Read these instructions before installation and first use. Keep them and pass them on to anyone who uses the product.**

## 1. Manufacturer and products covered

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These instructions apply to the following models (identification: model reference on the product label, EAN code on the packaging):

| Model | Reference | EAN-13 |
|---|---|---|
| VTRF 2-3 | VTRF2-3-AL | 3701666225406 |
| VTRF 3-3 | VTRF3-3-AL | 3701666225390 |
| VTRF 5-6 | VTRF5-6-AL | 3701666225383 |
| VTRF 7-6 | VTRF7-6-AL | 3701666225376 |
| VTRF 15-3 | VTRF15-3-AL | 3701666225369 |
| VTRF 15-6 | VTRF15-6-AL | 3701666225352 |
| VTRA 250 | VTRA250-AL | 3701666225345 |
| VTRA 375 | VTRA375-AL | 3701666225338 |
| VTRA 500 | VTRA500-AL | 3701666225321 |
| VTRA 750 | VTRA750-AL | 3701666225314 |

## 2. Intended use

- Pneumatic conveying, by the Venturi effect, of dry bulk materials: powders, granules, grains, chips, fibres and small parts.
- Suction of non-corrosive air, gases and waste water in industrial processes.
- Professional use, by staff informed of these instructions.

### ⚠ Prohibited uses

- Explosive atmospheres (ATEX zones) and explosive or flammable materials: the product is not ATEX certified.
- Corrosive, toxic or hazardous materials or fluids.
- Suction of people or animals; use as a toy.
- Supply with any gas other than compressed air.

## 3. Safety instructions

| | |
|---|---|
| **Pressure** | Never exceed 7 bar. Operating pressure: 4 to 6 bar for VTRF, 5.5 bar for VTRA. |
| **Compressed air** | Use dry, filtered compressed air. Shut off and vent the air supply before any mounting, removal, adjustment or cleaning. |
| **Ejected material** | Material leaves at high speed: never point the outlet at a person and wear safety glasses near the discharge. |
| **Noise** | The air jet can be loud: wear hearing protection when the noise level requires it. |
| **Suction** | Keep hands, fingers, hair and clothing away from the suction inlet during operation. |
| **Outlet** | Never block the outlet (discharge) during operation. |
| **Mounting** | Secure the conveyor and hoses firmly. Use hoses and clamps suited to the pressure and the conveyed material; check tightness regularly. |
| **Static electricity** | Conveying fine powders can generate electrostatic charges: earth conductive hoses and equipment. |
| **Temperature** | Operating range: −20 °C to +80 °C (air and material). |
| **Modifications** | Do not modify the product. Do not use a damaged or deformed conveyor. |

## 4. Installation and start-up

- Follow the flow direction shown by the arrow: inlet = suction, outlet = discharge.
- Connect the compressed air to the dedicated port (K on VTRF, G2 on VTRA) with a sealed fitting matching the thread.
- VTRF: connect the inlet and outlet hoses (G3/8 female threads on the VTRF 3-3; spiral hose pushed on and secured with a clamp on the other sizes). VTRA: all ports are female threaded (G1 suction, G3 discharge).
- Open the air gradually up to the operating pressure. VTRF: flow is set by the pressure; VTRA: flow can also be set with the rotating ring.

## 5. Maintenance

- The conveyor has no moving parts and needs no lubrication.
- After shutting off and venting the air, clean the inside regularly with dry air; with abrasive materials, check the bore for wear.
- Replace the conveyor if it is cracked or deformed, or if its threads are damaged.

## 6. End of life

- The aluminium body is recyclable: take the product at the end of its life to a metal recycling facility, in line with local regulations. Sort the packaging.

## 7. Warranty and contact

- Statutory warranty of conformity. For any technical or safety question, contact VIRTUAVIA SARL (details above).