



# DELTA VRA / VRAH

## Vacuum Valve

Vacuum valves DELTA VRA and DELTA VRAH are proving their reliability day after day in breweries, beverage, dairy and food industries as well as in the chemical and pharmaceutical area, i.e. in all places where a protection of tanks or vessels against vacuum is needed.

### Characteristics

The valve is available in an upright design, DELTA VRA and a suspended design, DELTA VRAH. The valve opens when a vacuum of a certain pressure occurs in the tank and it closes when the vacuum has disappeared. (Closes through the spring pressure). A full-stroke opening is reached by applying air to the seat lift actuator either when checking the valve function or during cleaning.

### Technical data

| Sizes                               | DELTA VRA: DN50, DN100, DN150<br>DELTA VRAH: DN100   |
|-------------------------------------|--|
| Product wetted parts                | 1.4404 / AISI 316L   |
| Non-product wetted parts            | 1.4301 / AISI 304  |
| Seal materials                      | EPDM, FPM, Silicone All seals comply with the FDA requirements   |
| Max. temperature                    | EPDM / HNBR 135°C (short time 140°C) VMQ 135°C not to be used for hot water FPM 135°C not to be used for steam |
| Surfaces                            | Internal finish: Ground Ra < 1,6µm<br>External finish: Glass blasted   |
| Required air pressure for seat lift | 6 - 10 bar   |

### Features and benefits

- Precise pick-up accuracy
- Gas tight
- Maintenance free pneumatic seat lift actuator for remote controlled function check.
- No sump or dome
- Optimum CIP characteristics by ball-shaped valve bodies
- No shaft guide in the product chamber
- Cleaning of the body insides by a special spray nozzle
- Safe function is guaranteed by
  - metallic valve stem
  - elastomer seat seal
  - PTFE slide bearings
- No splashing or dripping of liquids during cleaning due to drip tray

### Options

- Valve position feedback by 2 proximity switches

| Minimum pressure of response |  | Throughput with vacuum 100mm WC | 200mm WC             |
|------------------------------|--|---------------------------------|----------------------|
| VRAH DN100                   | Vacuum 20mm WC                                   | 250m <sup>3</sup> /h            | 350m <sup>3</sup> /h |
| VRA                          | Can be set from Vacuum 35mm WC to vacuum 60mm WC |                                 |                      |
| DN50                         |  | 39m <sup>3</sup> /h             | 80m <sup>3</sup> /h  |
| DN100                        |  | 215m <sup>3</sup> /h            | 317m <sup>3</sup> /h |
| DN150                        |  | 324m <sup>3</sup> /h            | 943m <sup>3</sup> /h |