



# 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 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 275°F/135°C (short time 284°F/140°C) VMO 275°F/135°C not to be used for hot water FPM 275°F/135°C not to be used for steam
Surfaces	Internal finish: Ground Ra <64 µin. (Ra <1.6 µm) External finish: Glass blasted
Required air pressure for seat lift	87 - 145 psi/ 6 - 10 bar

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For more information about our worldwide locations, approvals, certifications, and local representatives, please visit [www.apv.com](http://www.apv.com).

SPX Corporation reserves the right to incorporate our latest design and material changes without notice or obligation. Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing.

### 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 1100gpm	350m <sup>3</sup> /h 1541 gpm
VRA			
DN50	Can be set from Vacuum 35mm WC to vacuum 60mm WC	39m <sup>3</sup> /h 171 gpm	80m <sup>3</sup> /h 352 gpm
DN100		215m <sup>3</sup> /h 946 gpm	317m <sup>3</sup> /h 1395 gpm
DN150		324m <sup>3</sup> /h 1426 gpm	943m <sup>3</sup> /h 4151 gpm