

DELTA VRA / VRAH

VACUUM VALVE

Vacuum valves APV VRA and APV 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 and vessels against vacuum is needed.

Characteristics

The valve is available in an upright design, APV VRA and a suspended design, APV VRAH. The valve opens when a vacuum of a certain pressure occurs in the tank and it closes when the vacuum has disappeared (VRA - closing by spring pressure, VRAH - closing by dead weight). The seat lifter opens the valve during the CIP process in order to clean the valve seat and the seat seal. It can also be used for remote controlled function check.



Features and benefits

- Precise response accuracy.
- Gas tightness.
- Maintenance free pneumatic seat lift actuator.
- No sump or dome.
- Optimum CIP characteristics by ball-shaped valve bodies.
- No shaft guide in the product chamber.
- Cleaning of the inside body by a special spray nozzle.
- Safe function is guaranteed by
 - Metallic valve stem
 - Elastomer seat seal
 - PTFE bearings
- No splashing or dripping of liquids during cleaning due to drip tray
- Response pressure: adjustable from 35 to 60 mm WC

Technical data

Sizes	APV VRA: DN 50, DN 100, DN 150
	APV VRAH: DN 100
Product wetted parts	316L, 1.4404 (DIN EN 100888)
Non-product wetted parts	304, 1.4301 (DIN EN 100888)
Seal materials	EPDM, HNBR, VMQ or FPM All seal materials are FDA compliant.
Max. temperature	EPDM, HNBR: 135 °C - short-term: 140 °C VMQ, FPM : 135 °C - not suited for hot water and steam Option: FPM steam-resistant
Surfaces	Internal finish: ground Ra < 1.6 µm External finish: glass beaded, satin finish
Required air pressure for seat lift	Max. 6 bar

Minimum response pressure		Throughput at vacuum 100 mm WC	200 mm WC
VRAH DN100	Vacuum 20 mm WC	250 m ³ /h	350 m ³ /h
VRA DN 50	Adjusted: 40 mm WC	39 m ³ /h	80 m ³ /h
DN 100		215 m ³ /h	317 m ³ /h
DN 150		324 m ³ /h	943 m ³ /h

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