

# 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 Clean-In-Place (CIP) process in order to clean the valve seat and the seat seal. It can also be used for remote controlled function check.

### 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: 275°F (135°C) - short-term: 284°F (140°C) VMQ, FPM : 275°F (135°C) - not suited for hot water and steam <b>Option:</b> FPM steam-resistant
SURFACES	Internal finish: ground Ra < 1.6 µm External finish: glass beaded, satin finish
REQUIRED AIR PRESSURE FOR SEAT LIFT	Max. 87 psi (6 bar)

### FEATURES AND BENEFITS

- Precise response accuracy
- Gas tightness
- Maintenance free pneumatic seat lift actuator
- No sump or dome
- 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
- Optimum CIP characteristics by ball-shaped valve bodies.
- No splashing or dripping of liquids during cleaning due to drip tray
- Response pressure: adjustable from 1.3" to 2.4" (33 to 61 mm) WC



MINIMUM RESPONSE PRESSURE	Throughput at vacuum 4" (102 mm) WC		8" (203 mm) WC
	<b>VRAH</b> DN100	Vacuum 0.7" (18 mm) WC	1100 gal/min (250 m³/h)
<b>VRA</b> DN 50 DN 100 DN 150	Adjusted: 1.6" (41 mm) WC	172 gal/min (39 m³/h) 947 gal/min (215 m³/h) 1427 gal/min (324 m³/h)	252 gal/min (80 m³/h) 1396 gal/min (317 m³/h) 4152 gal/min (943 m³/h)

Based in Charlotte, North Carolina, SPX FLOW, Inc. (NYSE: FLOW) is a multi-industry manufacturing leader. For more information, please visit [www.spxflow.com](http://www.spxflow.com)

SPX FLOW 611 Sugar Creek Road Delavan, WI 53115

P: (262) 728-1900 or (800) 252-5200 F: (262) 728-4904 or (800) 252-5012 E: [answers.us@spxflow.com](mailto:answers.us@spxflow.com)

SPX FLOW, Inc. 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. Please contact your local sales representative for product availability in your region. For more information visit [www.spxflow.com](http://www.spxflow.com).

The green "s" and "x" are trademarks of SPX FLOW, Inc.

ISSUED 07/2016 8018-01-08-2008-US COPYRIGHT © 2016 SPX FLOW, Inc.