Small Stainless Gate Valves

Small Size
These compact valves will fit even the most crowded systems. The valve body with EP actuator is only 3.75 inches wide by 10.88 inches high (95 x 275 mm).

Vacuum & Pressure
Standard valves seal and open with vacuum or atmosphere on either side.

Long Life
These small stainless steel valves provide straight through high conductance pumping and our usual 250,000 cycles without any need for service.

Fail Safe
All Vacuum Research Valves can be installed for fast close on power failure.

Bake to 180°C
With the standard Viton® O-Ring the valves can be baked to 180°C in open or closed position.

No Leaks
All Vacuum Research valves have total leak rates of less than 5 X 10^-10 std cc/sec. By total leak we mean that each completed valve is tested in a Helium filled bag.

NW Clamps & Centering Rings
Prices on page 25 for clamps from NW-16 to NW-50.

Kalrez® or Silicone Seals Available
Standard Valves use all Viton® seals. Contact factory for Kalrez® and silicone prices.

Small Stainless Steel

| NW-16 Flanges | $1091. |
| NW-25 Flanges | $1091. |
| NW-40 Flanges | $1091. |
| 2.75 Non rotatable Flanges | $1080. |
| 2.75 Rotatable Conflat® Flanges | $1111. |

Electro-Pneumatic Actuator
Add “EP” Suffix plus solenoid voltage

Kalrez® is a registered trademark of Varian Associates. Kalrez® and Viton® are registered trademarks of Dupont Corp.
Vacuum Research valves are available with dozens of options to allow you to select exactly the features you need for your vacuum system. The model number system illustrated below will accurately describe most valves, but if you have any questions about the best way to specify what you need, just call or fax our customer service department and we will be happy to help you. All Valves are (RoHS) 2015/863/EU Compliant.

**Basic Valve Style**
- LPWA: Bonnet Style, Large Port Aluminum
- TBWA: Thick Body Valves for Dirty Environments
- X-LPWA: Bonnet Style, Extra Large Port Aluminum
- LPSS: Bonnet Style, Large Port Stainless Steel
- X-LPSS: Bonnet Style, Extra Large Port Stainless Steel
- BEL: Bellows Seal, Welded Aluminum
- END STD: Standard Port Aluminum Gate Valves
- END LP: Oversize Large Port Aluminum Gate Valves
- AVL: Aluminum Poppet Style Valves
- AVMS: Mild Steel Poppet Valves
- REB: Rectangular Port, Bellows Seal
- REQ: Rectangular Port, Quad Ring Seal

**Roughing & Gauge Ports**
Specify location (R-1, R-2, etc.) and size of port (NW-16, NW-25, etc.) Refer to page 42 in this catalog: Roughing and Gauge Ports, for the range of port sizes available in each location for your basic valve style.

**Flange Bolt Pattern**
- ASA: ANSI Bolt Pattern
- CF: Conflat® Flanges
- CF-MET: Metric Conflat®
- JIS: Japan Industrial Std.
- DEP: Dependex Flanges
- ISO: ISO Bolt Pattern
- SPEC: Customer Special Flange
- BLANK: No Holes or O-Ring

**Flange O-Rings**
- 2O: O-Rings both flanges
- NO: No flange O-Rings
- 1O: O-Ring Open Side
- 1S: O-Ring Seal Side

**Ordering Information**
Call our toll free number (800) 426-9340, or (412) 261-7630 to place orders or for customer service. Our FAX number is (412) 261-7220. Address orders by mail to Vacuum Research Corporation, 100 Chapel Harbor Drive, #4, Pittsburgh, PA 15238 USA. Prices in this catalog are FOB factory. CIF or C&F prices available. Contact factory for pro forma invoice or price quotation. Terms are Net 30 days.