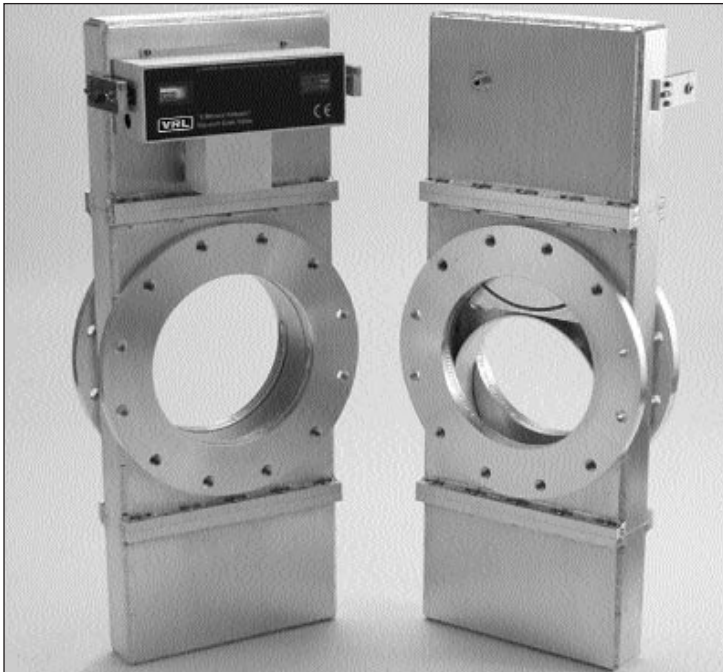


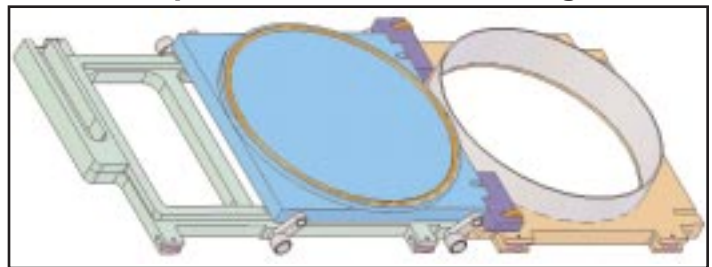


Vacuum Valves for Dirty & Dusty Applications



Valve on left is fully open with protective ring in place. Particles are directed through the port instead of into the valve body.

- Protective Ring Keeps Dirt Out of Valve
- Easy to Clean Dirt Sump Bonnet
- Air Purge Connection for Blow Down
- Helium Leak Rate Less Than 2×10^{-9} scc/sec
- Port Sizes From 2 to 24 Inch, 50 to 600 mm
- ANSI, ISO, JIS or Special Flanges
- Gauge & Roughing Ports Anywhere on Body
- 250,000 Cycle Rotary Shaft Seal
- Fail Safe Design, Close on Power Loss
- Operate Manually If Air or Power Fail
- All Welded 6061 Aluminum Body
- Low Temperature Bakeout, 200 Degrees C



Although Vacuum Research valves are not affected by small amounts of dust and dirt some processes are so dirty that frequent cleaning is required. For such processes our Protective Ring Valve with the Dirt Sump can substantially reduce your costs by increasing the time between cleanouts. The Protective Ring and Dirt Sump are available on valves with port sizes from 2 inch to 24 inch (50 to 600 mm ISO). Other Vacuum Research options such as Position Indicators and ports for gauges and roughing can also be provided on these valves.

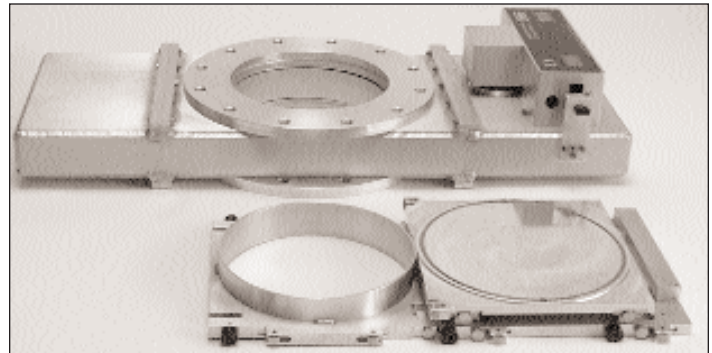


Photo shows a fully open valve with the protective ring in place. In the foreground is the gate/carriage assembly showing the protective ring assembly, also shown in 3-D drawing.

ANSI Flange	Port Diameter	Flange O.D.	Bolt Circle	Bolts	Flange O-Rings	A Flange To Flange	B OAL w/o Sump	C OAL With Sump	Net Weight Pounds (kg)	Ship Weight Pounds (kg)	Price
4 Inch	5.375	9.0	7.5	(8) 5/8-11	5.75 x .139	4.125	21.19	27	50 (23)	65 (30)	\$2980.
6 Inch	7.125	11.0	9.5	(8) 3/4-10	7.5 x .139	5.25	23	32	70 (32)	85 (39)	\$4391.
8 Inch	8.0	13.5	11.75	(8) 3/4-10	9.0 x .275	5.25	23	32	74 (34)	89 (40)	\$4853.
10 Inch	11.625	16.0	14.25	(12) 7/8-9	12 x .275	5.50	34	44	150 (68)	172 (78)	\$5546.
12 Inch	12.0	19.0	17.0	(12) 7/8-9	13 x .275	5.50	34	44	163 (74)	183 (83)	\$6008.

