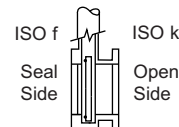
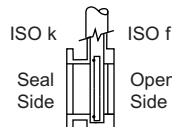
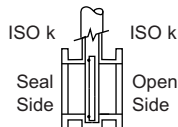
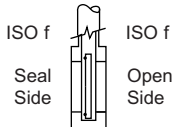




- Less Outgassing Than Stainless, See Page 43
- Simple End Operated Air Cylinder
- Over 100,000 Cycles Without Maintenance
- Helium Tested to  $5 \times 10^{-10}$  scc/s
- All Valves (RoHS) 2002/95/EC Compliant
- Flanges to Match Diffusion & Cryo Pumps
- Optional Operation to 10 Bar, 147 PSIG
- Optional Remote Position Indicators
- NW & Compression Gauge & Roughing Ports
- Automatic Closure on Power Failure



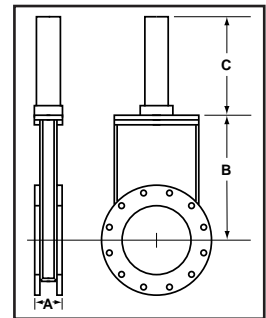
**N1** Tapped Holes on Both Sides

**N5** Neck on Both Sides

**N6** Neck on Seal Side

**N8** Neck Opposite Seal Side

**Stainless Steel Gates in Aluminum Valves:** To specify a stainless steel gate in an aluminum valve add a suffix to the model number "SS Gate". Refer to the "Optional Features and Accessories" pages in the Accessories and Parts section of this catalog for pricing information.



**ORDERING INFORMATION**

**Model Number:** Refer to pg. 2 for instructions on how to specify the features you need.

**Position Indicators:** Two reed switches activated by a magnet inside the pneumatic actuator provide closure for open and closed position. SPST contacts rated 0.5A @ 110 or 220 VAC non-inductive. Add LSE to Model Number.....\$138.00 /pair

**Gauge and Roughing Ports:** See page 46 for sizes and prices.

**Special Features:** Refer to pages 44 & 45 for information on special features and accessories.

**Viton® or Kalrez® or Silicone O-Rings:** Our standard Valves use a Viton® O-Ring for the gate seal and Buna-N O-Rings for all other locations. You may specify Viton® (or other materials) throughout the valve with a "V", "S", or "K" in the model number. For Viton® add the following to the price. (For Silicone or Kalrez® contact the factory for prices.)

- 63 mm valves.....\$50.
- 100 mm valves.....\$76.
- 160 mm valves.....\$94.
- 200 mm valves.....\$150.
- 250 mm valves.....\$196.
- 320 mm valves.....\$252.

ISO Port Size	Model No. ISO Flange	Port Dia.	Flange O.D. Dimensions in mm	Bolt Circle	(number of bolts) size - pitch	A Flange to Flange	B mm	C mm	List Price
KF-50	END ISO KF-50	50	Not Applicable.		STD. KF-50	95	159	187	\$916.
63 mm	END ISO 63, N1, both sides ISO-f	70	130	110	(4) M 8 - 1.25	80	159	187	\$957.
	END ISO 63, N5, both sides ISO-k	70	95	110	no bolts, ISO-k	105	159	187	\$1158.
	END ISO 63, N6 & N8, ISO-f & ISO-k	70	130/95	110	(4) M 8 - 1.25	90	159	187	\$1050.
100 mm	END ISO 100, N1, both sides ISO-f	102	165	145	(8) M 8 - 1.25	105	213	239	\$1528.
	END ISO 100, N5, both sides ISO-k	102	130	145	no bolts, ISO-k	127	213	239	\$1688.
	END ISO 100, N6 & N8, ISO-f & ISO-k	102	165/130	145	(8) M 8 - 1.25	111	213	239	\$1626
160 mm	END ISO 160, N1, both sides ISO-f	153	225	200	(8) M 10 - 1.5	105	289	296	\$1657.
	END ISO 160, N5, both sides ISO-k	153	180	200	no bolts, ISO-k	143	289	296	\$1862.
	END ISO 160, N6 & N8, ISO-f & ISO-k	153	225/180	200	(8) M 10 - 1.50	127	289	296	\$1785.
200 mm	END ISO 200, N1, both sides ISO-f	213	285	260	(12) M 10 - 1.5	111	364	348	\$2521.
	END ISO 200, N5, both sides ISO-k	213	240	260	no bolts, ISO-k	155	364	348	\$2907.
	END ISO 200, N6 & N8, ISO-f & ISO-k	213	285/240	260	(12) M 10 - 1.5	127	364	348	\$2778.
250 mm	END ISO 250, N1, both sides ISO-f	261	335	310	(12) M 10 - 1.5	117	484	406	\$3427.
	END ISO 250, N5, both sides ISO-k	261	290	310	no bolts, ISO-k	219	484	406	\$3715.
	END ISO 250, N6 & N8, ISO-f & ISO-k	261	335/290	310	(12) M 10 - 1.5	168	484	406	\$3550.
320 mm	END ISO 320, N1, both sides ISO-f	318	425	395	(12) M 12 - 1.75	117	533	457	\$4723.
	END ISO 320, N5, both sides ISO-k	318	370	395	no bolts, ISO-k	219	533	457	\$4862.
	END ISO 320, N6 & N8, ISO-f & ISO-k	318	425/370	395	(12) M 12 - 1.75	168	533	457	\$4790.
400mm	END ISO 400, N1, ISO-f both sides	400	510	480	(16) M 12 - 1.75	165	702	560	\$8613.
500mm	END ISO 500, N1, ISO-f both sides	500	610	580	(16) M 12 - 1.75	203	908	730	\$13516.
630mm	END ISO 630, N1, ISO-f both sides f	630*	780	720	(20) M 12 - 1.75	216	978	851	\$19453.

\* 630 mm Port diameter flange will have a step of 651 mm diameter for center ring.

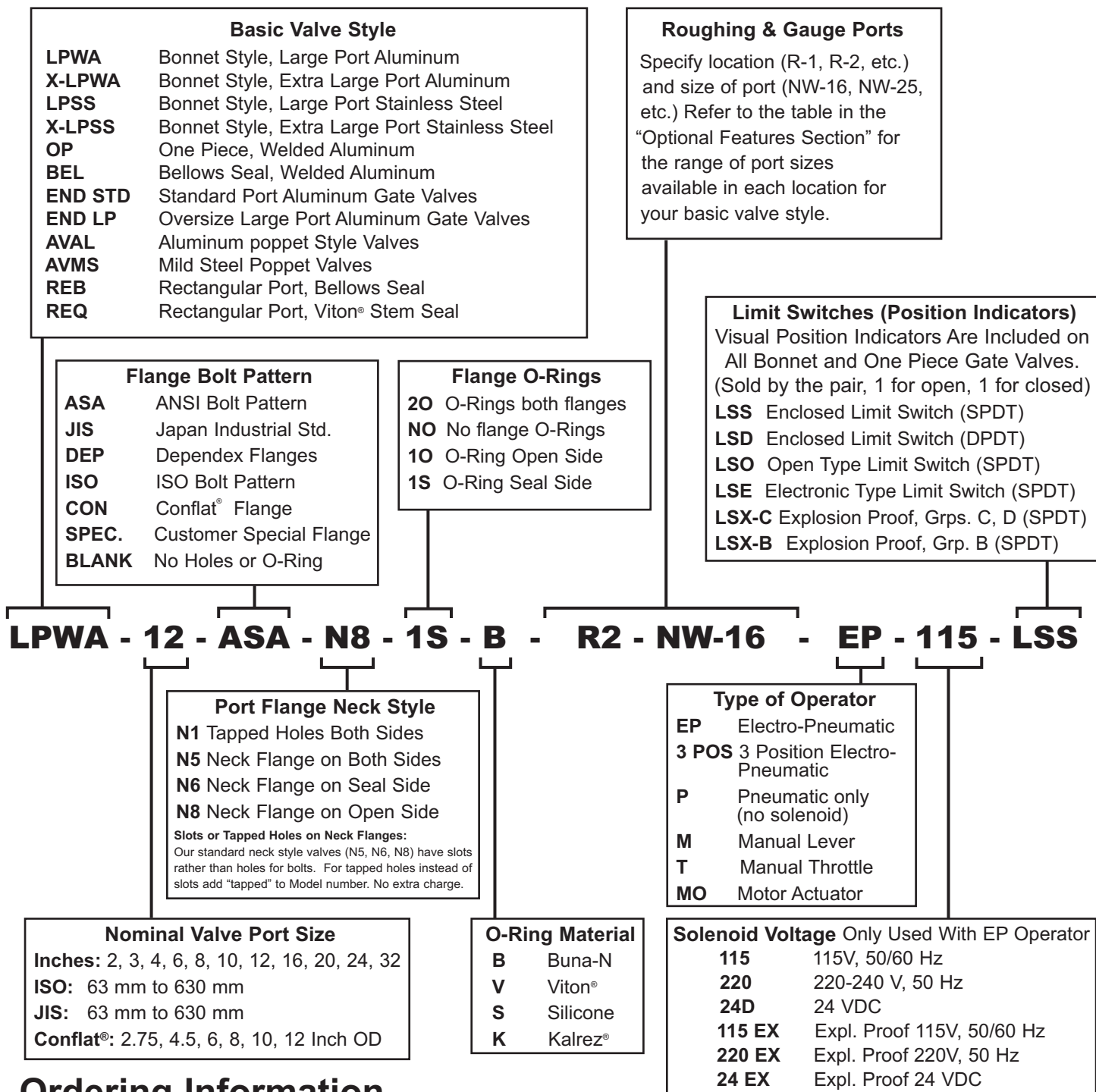


# Model Numbering System

VRC Valves are  
Manufactured in  
the USA.



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 (RoHS) 2002/95/EC Compliant.



## 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, 2419 Smallman Street, Pittsburgh, PA 15222 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.



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