



# VR SERIES

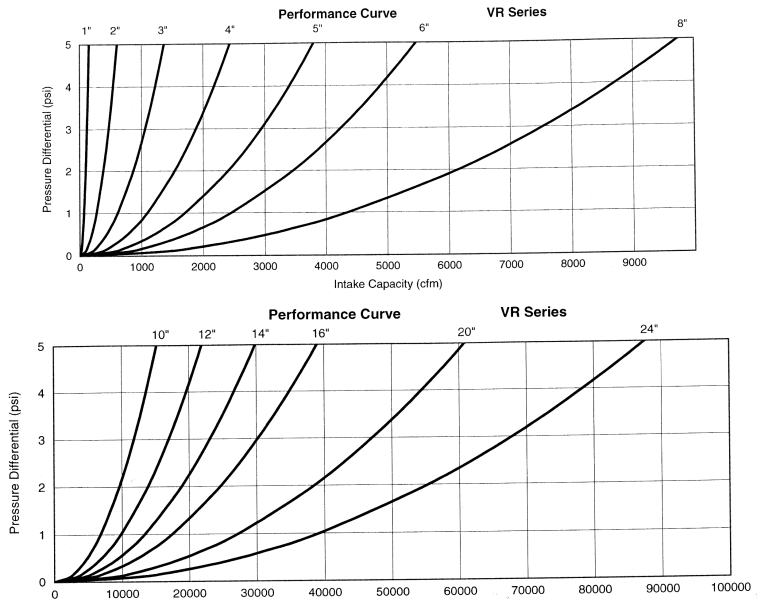
## Vacuum Relief Valves

# Crispin Vacuum Relief Valves

Valve Function
<ul style="list-style-type: none"> <li>• Allows air to enter system when vacuum occurs</li> <li>• Prevents air exhaustion during pump start-up</li> </ul>
Features
<ul style="list-style-type: none"> <li>• Cracks open to admit air at .25 PSIG differential pressure</li> <li>• Resilient drip tight seat</li> <li>• ANSI Class 150 &amp; Class 300 flanged connection</li> <li>• Sizes 3" to 36"</li> </ul>

**C**RISPIN Vacuum Relief Valves allow large volumes of air to enter a system when a vacuum occurs, but prevent air from being exhausted upon pump start-up. If desired, this trapped air column could be exhausted by the addition of a small orifice air release valve. This controlled release allows air to act as a cushion to help prevent potential surge. Vacuum Relief Valves are installed at high points in the line, or as directed by the engineer, to relieve a vacuum due to column separation or draining the line.

### Vacuum Relief Performance Curves



### ANSI Class 150 & 300 Flanged Valves†

MODEL	INLET SIZE	INLET CLASS	O.D.	VALVE HEIGHT	HEIGHT W/ AR VALVE	WEIGHT (LBS)	WEIGHT W/ AR VALVE
VR31	3"	150	7 1/2"	9 1/2"	12 1/4"	36lbs	45lbs
VR33	3"	300	8 1/4"	9 1/2"	12 1/4"	52lbs	61lbs
VR41	4"	150	9"	11 1/4"	13 1/4"	56lbs	65lbs
VR43	4"	300	10"	11 1/2"	13 1/4"	85lbs	94lbs
VR81	8"	150	13 1/2"	18 1/4"	21 1/4"	158lbs	183lbs
VR83	8"	300	15"	18 3/4"	21 1/4"	243lbs	268lbs
VR101	10"	150	16"	22 1/4"	24 1/4"	269lbs	294lbs
VR103	10"	300	17 1/2"	22 3/4"	24 1/4"	385lbs	410lbs
VR121	12"	150	19"	22 1/4"	24"	387lbs	439lbs
VR123	12"	300	20 1/2"	23"	24"	562lbs	614lbs
VR141	14"	150	21"	24 1/4"	24 3/4"	453lbs	492lbs
VR143	14"	300	23"	24 3/4"	24 3/4"	700lbs	752lbs
VR161	16"	150	23 1/2"	25 3/4"	25 3/4"	580lbs	632lbs
VR163	16"	300	25 1/2"	25 3/4"	25 3/4"	960lbs	1012lbs

### Standard Materials

NAME	MATERIAL (Standard)
<b>BODY</b>	Ductile Iron*
<b>SEAT</b>	Stainless Steel w/ Buna-N Seat*
<b>DISC</b>	Stainless Steel*
<b>BUSHING</b>	Stainless Steel*
<b>FLANGE</b>	Ductile Iron*
<b>SPRING</b>	Stainless Steel*
<b>BOLTS &amp; NUTS</b>	Steel*

\*Consult factory for optional construction materials.

†For Sizes 1" and 2", and 18" thru 36", please consult the factory.