



# VAPRO

VACUUM PRESSURE PROTECTION

VAPRO • RUPTURE DISCS

## Oseco's VAPRO rupture disc provides bidirectional pressure protection

### SPECIFICATIONS

- **SIZE RANGE**  
4" -12"
- **VACUUM BURST PRESSURE RANGE**  
1-30 inches W.C.
- **POSITIVE BURST PRESSURE RANGE**  
4 psig to 100 psig
- **TEMPERATURE RANGE**  
-25° to 400° F
- **MAXIMUM OPERATING RATIO**  
Operates to within 1" W.C. below 10" W.C. vacuum, 90% of minimum vacuum burst pressure 10"-30" W.C., and up to 80% of positive burst pressure.
- **FRAGMENTATION ON BURST**  
May fragment

## VAPRO

The Oseco VAPRO is economical alternative for applications requiring both positive and vacuum pressure protection. The VAPRO (vacuum relief) operates over a range of 6" W.C.

The VAPRO rupture disc is used in applications requiring extremely low vacuum relief: as low as 1" W.C. (vacuum relief) and up to 150 psig (positive pressure relief).

The VAPRO will rupture and achieve maximum flow area at or below the maximum specified pressure. (Note: Specified pressure plus 6" W.C. equals maximum specified pressure.)

The disc may be supplied with perforated, composite-style controlling membranes, Fluoropolymer seal and a Fluoropolymer or 316 Stainless Steel girdle.



### COMMON APPLICATIONS

Storage tank pressure protection

### OPERATING RATIO

80% of stamped burst pressure

### BURST TOLERANCE

Positive Burst Pressure Tolerance  
±5% above 40 psig, ±2 psig below 40 psig  
Vacuum Burst Pressure Tolerance  
6" water column min, 6" water column max

### MANUFACTURING RANGE

Same as burst tolerance



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Related products

**SENSORS**

OSS Sensor

**HOLDERS**

VRDI Holder

**VAPRO Temperature Limits**

Girdle Material	Temperature Limit	
	Minimum	Maximum
Fluoropolymer	-25° F	150° F
316 SS	-25° F	400° F

**VAPRO Ranges of Vacuum and Positive Pressure Relief**

VAPRO Rupture Disc Size	Vacuum Relief (Inches H <sub>2</sub> O)				Positive Pressure Relief (PSIG@ 72° F)			
	FP* Girdle		316 Girdle		Minimum Burst Pressure		Maximum Burst Pressure (VRDI Holder)	
	Range of Starting Relief Points Available		Range of Starting Relief Points Available					
(In H <sub>2</sub> O)	(mbarg)	(In H <sub>2</sub> O)	(mbarg)	(psig)	(barg)	(psig)	(barg)	
3" DN 100	1-30	2.5-74.6	6-30	14.9-74.6	11	0.8	150	10.3
4" DN 150	1-30	2.5-74.6	6-30	14.9-74.6	8	0.6	125	8.6
6" DN 200	1-30	2.5-74.6	6-30	14.9-74.6	6	0.4	100	6.9
8" DN 250	1-20	2.5-74.6	6-30	14.9-74.6	5	0.3	75	5.2
10" DN 300	-	-	6-30	14.9-74.6	4	0.3	50	3.4

Example: VAPRO Required Relief Spread

Operator requests 6" VAPRO rupture disc with fluoropolymer girdle to relieve at 30" H<sub>2</sub>O vacuum. VAPRO will puncture at above 30" H<sub>2</sub>O and achieve maximum flow at or below 36" H<sub>2</sub>O.

\*FP indicates Virgin Fluoropolymer. PFA, FEP or PTFE may be product-specific and used at Oseco's discretion.



Let us help you with all your pressure relief questions. Contact Oseco at **800-395-3475** or email us at [info@oseco.com](mailto:info@oseco.com).

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