

**VAREC 2010B / 2020B Series**  
**PRESSURE AND VACUUM RELIEF VALVE**

The 2010B/2020B protects tanks from damage or deformation, and minimizes emissions to the environment, as well as loss of product due to evaporation.

## Introduction

The Varec 2010B and 2020B Pressure and Vacuum Relief Valves are designed for use on atmospheric and low pressure storage tanks. The 2010B vents to atmosphere. The 2020B allows vapors to be piped away for recovery or destruction.

The primary function of both models is to protect the tank from physical damage or permanent deformation caused by increases in internal pressure or vacuum encountered in normal operations. On smaller tanks, the valve may also provide sufficient flow capacity for emergency venting. The “air-cushion” seating design keeps the valve tightly sealed until the pressure inside the tank approaches the valve setting. Valve selection should be in accordance with American Petroleum Institute Standard 2000 or other applicable standard.

Flow curves are provided to help you select the proper valve size for your venting requirements. Additionally, Varec’s applications engineering staff and factory trained representatives are always available to assist you.

By controlling tank venting, the 2010B and 2020B not only minimize emissions to the environment, but also minimize the loss of product to evaporation. When combined with a well-designed vapor recovery system, the loss can be cut to essentially zero.

An “All-Weather” option is offered for freezing climates. The design features a special non-frosting and icing-resistant coating on the pallet perimeter, stem, guide posts and tip-of-seat ring. The coating, along with the flexible Teflon® seat insert, provides additional protection against pallets freezing closed.



## Available Materials

- Aluminum
- Carbon Steel
- Stainless Steel
- Ductile Iron
- Special Materials on Application

For high temperature and chemical applications, Varec recommends one of the extended service options, which offers the selection of O-ring, gasket, and screen material.

Models 2010B and 2020B are part of VAREC modular products which use interchangeable components for assembling a variety of functional configurations. The modular design provides flexibility of field installation and allows the valve to be reconfigured, repaired and even upgraded on-site by simply replacing or adding components.

## Features

- The pressure and vacuum ports are oversized to provide maximum flow capacity.
- The hood and cover are easily removed for inspection and maintenance.
- The seat rings are both interchangeable and field replaceable.
- Protective screens are provided at pressure and vacuum ports to prevent entrance of foreign matter.
- The outlet adapter on the 2020B Series is one pipe size larger than the valve inlet flange to optimize flow capacity.

**Specifications**

The 2010B and 2020B Series Pressure and Vacuum Relief Valves are available in a variety of configurations to meet your specific needs.

**Sizes**

2010B/ 2011B:

2" [50 mm], 3" [80 mm], 4" [100 mm],  
6" [150 mm], 8" [200 mm] 10" [250 mm],  
12" [300 mm]

2020B/ 2021B:

2" x 3", 3" x 4", 4" x 6", 6" x 8"  
8" x 10", 10" x 12", 12" x 14"

**Flanged Connections**

(STANDARD FLANGE DRILLING)

Aluminum

Drilled to ANSI Class 150 Dimensions  
(Flat-Faced)

Drilled to DIN 2633 [16 Bar] Dimensions  
(Flat-Faced)

CS, DI and SS Body

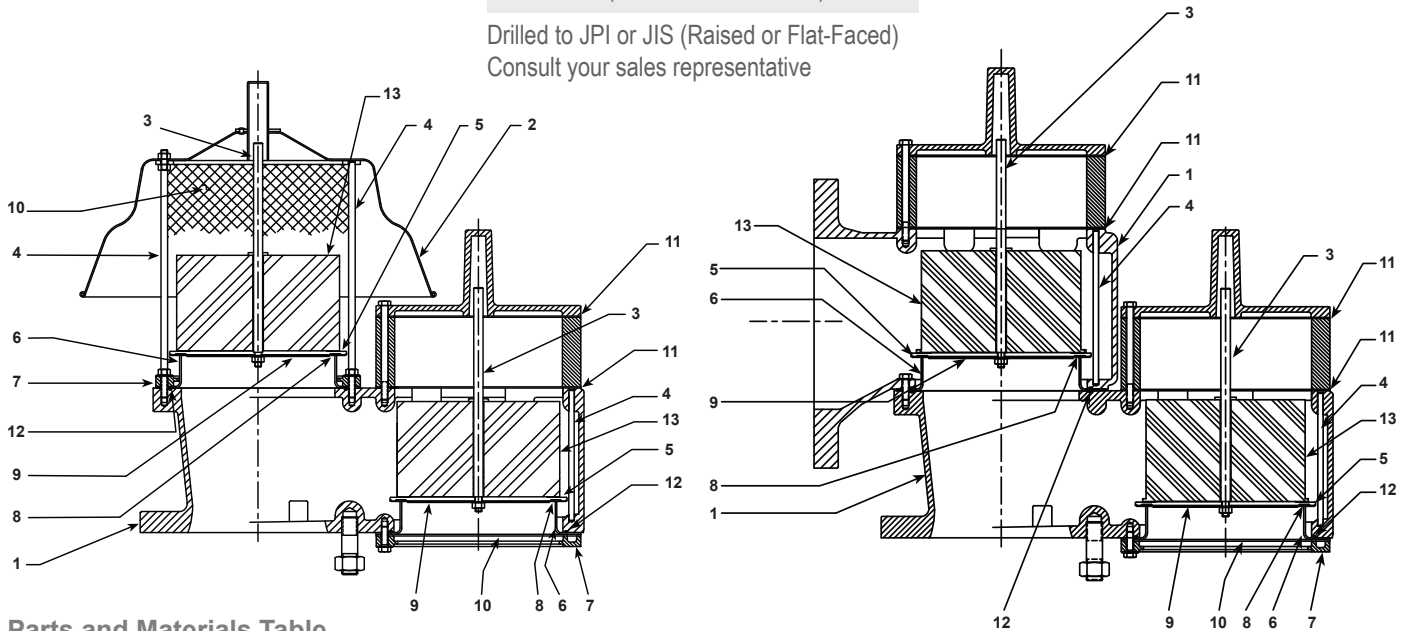
Drilled to ANSI Class 150 Dimensions,  
(Raised or Flat-Faced)

Drilled to Imperial DIN 2633 [16 bar]  
Dimensions (Raised or Flat-Faced)

Drilled to JPI or JIS (Raised or Flat-Faced)  
Consult your sales representative

**Testing**

Each valve is tested for proper setting and for a leakage rate of less than 1 SCFH (0.03 Nm<sup>3</sup>/ hr) of air at 90 percent of the set point. Each valve is tested for leak tightness at 75 percent of set point as required in API Standard 2000.



**Parts and Materials Table**

Item	Material Code				
	1	2	3	4	5
1 Body	Aluminum	Aluminum	Carbon Steel	316 SS	Ductile Iron
2 Weatherhood	Aluminum	Aluminum	Carbon Steel	316 SS	Carbon Steel
3 Guide Stem	Aluminum	316 SS	316 SS	316 SS	316 SS
4 Guide Posts	316 SS	316 SS	316 SS	316 SS	316 SS
5 Pallet	Aluminum	316 SS	316 SS	316 SS	316 SS
6 Seat Ring	Aluminum	316 SS	316 SS	316 SS	316 SS
7 Seat Ring Retainer <sup>1</sup>	Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene
8 Insert <sup>1</sup>	Teflon®	Teflon®	Teflon®	Teflon®	Teflon®
9 Insert Retainer	Aluminum	316 SS	316 SS	316 SS	316 SS
10 Screen <sup>1</sup>	HDPE	HDPE	HDPE	HDPE	HDPE
11 Gaskets <sup>1</sup>	Fiber	Fiber	Fiber	Fiber	Fiber
12 O-Ring <sup>1</sup>	BUNA-N	BUNA-N	BUNA-N	BUNA-N	BUNA-N
13 Weights	Lead	Lead	Lead	Lead	Lead

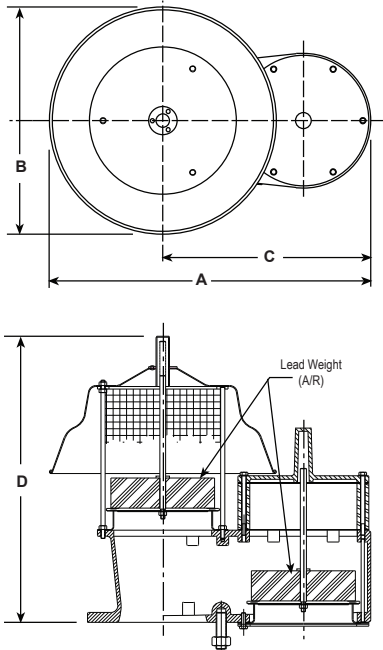
Note: 1 - Materials are as standard. See model option code for other materials and their associated temperature ranges.

2 - Teflon® coated aluminum may be supplied with material codes 2 - 5 to achieve lower settings.

3 - All nuts and cap screws are 316 SS.

Specifications

2010B/ 2011B SERIES



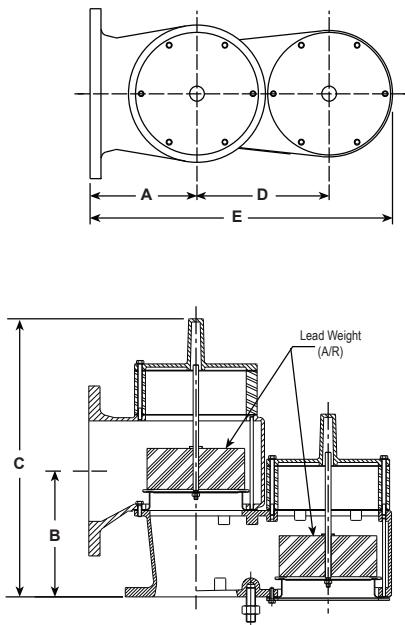
Dimensions, inches [mm]

Size Code	2	3	4	6	8	0	1
Nominal Pipe Size	2 [50]	3 [80]	4 [100]	6 [150]	8 [200]	10 [250]	12 [300]
A	14 1/8 [359]	17 9/16 [446]	19 1/8 [486]	24 [610]	29 7/8 [759]	38 7/16 [976]	46 5/8 [1184]
B	8 1/2 [216]	10 3/4 [273]	13 3/8 [340]	17 [432]	20 5/8 [524]	27 [686]	34 [864]
C	9 7/8 [251]	12 1/4 [311]	12 1/4 [311]	15 1/2 [394]	19 9/16 [497]	24 15/16 [633]	29 3/8 [746]
D	10 7/16 [265]	12 5/16 [313]	12 7/16 [368]	18 3/16 [462]	21 5/8 [549]	27 7/16 [697]	31 7/8 [810]
Low Set	[265]	[313]	[368]	[462]	[549]	[697]	[810]
D	13 5/16 [338]	15 1/4 [387]	16 5/8 [422]	21 1/2 [546]	24 3/4 [629]	29 7/16 [748]	31 7/8 [810]
High Set	[338]	[387]	[422]	[546]	[629]	[748]	[810]

Note: Figure shown is for high set option.

Dimensions are for preliminary general information and should not be used for construction purposes. Certified dimensional drawings are available upon request.

2020B/ 2021B SERIES



Dimensions, inches [mm]

Size Code	2	3	4	6	8	0	1
Nominal Pipe Size	2 x 3 [50 x 80]	3 x 4 [80 x 100]	4 x 6 [100 x 150]	6 x 8 [150 x 200]	8 x 10 [200 x 250]	10 x 12 [250 x 300]	12 x 14 [300 x 350]
A	4 15/16 [125]	6 3/8 [162]	8 [203]	8 9/16 [217]	11 3/16 [284]	13 5/8 [346]	15 3/8 [391]
B	5 1/4 [133]	5 7/8 [149]	6 13/16 [173]	10 [254]	12 1/8 [308]	16 1/8 [410]	18 3/4 [476]
C	9 1/16 [230]	10 3/4 [273]	12 3/4 [324]	18 3/4 [476]	22 1/8 [562]	27 9/16 [700]	32 [813]
Low Set	[230]	[273]	[324]	[476]	[562]	[700]	[813]
C	13 1/2 [343]	15 1/2 [394]	16 13/16 [427]	22 [559]	24 1/2 [622]	29 1/4 [743]	32 [813]
High Set	[343]	[394]	[427]	[559]	[622]	[743]	[813]
D	6 3/4 [171]	8 3/8 [213]	8 7/16 [214]	10 1/2 [267]	13 1/8 [333]	16 7/8 [429]	19 3/4 [502]
E	14 3/4 [375]	18 9/16 [471]	20 7/16 [519]	24 1/4 [616]	30 3/4 [781]	38 9/16 [979]	44 11/16 [1135]

Note: Figure shown is for high set option.

Dimensions are for preliminary general information and should not be used for construction purposes. Certified dimensional drawings are available upon request.

**Specifications**

**Setting Information**

Size	Minimum Pressure Set, oz/ in <sup>2</sup>		Minimum Vacuum Set, oz/ in <sup>2</sup>		Low Set Range		High Set Range	
	Aluminum	316 SS	Aluminum	316 SS	Pressure	Vacuum	Pressure	Vacuum
<b>2010B</b>								
2"	0.29	0.70	0.26	0.62	Min to 16 oz/in <sup>2</sup>	Min to 10 oz/in <sup>2</sup>	16.01 oz/in <sup>2</sup> to 2 psig	10.01 oz/in <sup>2</sup> to 2 psig
3"	0.23	0.55	0.21	0.49	Min to 16 oz/in <sup>2</sup>	Min to 10 oz/in <sup>2</sup>	16.01 oz/in <sup>2</sup> to 2 psig	10.01 oz/in <sup>2</sup> to 2 psig
4"	0.29	0.60	0.27	0.56	Min to 16 oz/in <sup>2</sup>	Min to 16 oz/in <sup>2</sup>	16.01 oz/in <sup>2</sup> to 2 psig	16.01 oz/in <sup>2</sup> to 2 psig
6"	0.26	0.61	0.26	0.61	Min to 16 oz/in <sup>2</sup>	Min to 16 oz/in <sup>2</sup>	16.01 oz/in <sup>2</sup> to 2 psig	16.01 oz/in <sup>2</sup> to 2 psig
8"	0.25	0.55	0.25	0.55	Min to 16 oz/in <sup>2</sup>	Min to 16 oz/in <sup>2</sup>	16.01 oz/in <sup>2</sup> to 2 psig	16.01 oz/in <sup>2</sup> to 2 psig
10"	0.25	0.63	0.25	0.63	Min to 16 oz/in <sup>2</sup>	Min to 16 oz/in <sup>2</sup>	16.01 oz/in <sup>2</sup> to 2 psig	16.01 oz/in <sup>2</sup> to 2 psig
12"	0.23	0.59	0.23	0.59	Min to 16 oz/in <sup>2</sup>	Min to 16 oz/in <sup>2</sup>	16.01 oz/in <sup>2</sup> to 2 psig	16.01 oz/in <sup>2</sup> to 2 psig

**2011B**

2"	0.29	0.70	0.26	0.62	Min to 16 oz/in <sup>2</sup>	Min to 10 oz/in <sup>2</sup>	16.01 oz/in <sup>2</sup> to 2 psig	10.01 oz/in <sup>2</sup> to 2 psig
3"	0.23	0.55	0.21	0.49	Min to 16 oz/in <sup>2</sup>	Min to 10 oz/in <sup>2</sup>	16.01 oz/in <sup>2</sup> to 2 psig	10.01 oz/in <sup>2</sup> to 2 psig
4"	0.29	0.60	0.27	0.56	Min to 16 oz/in <sup>2</sup>	Min to 16 oz/in <sup>2</sup>	16.01 oz/in <sup>2</sup> to 2 psig	16.01 oz/in <sup>2</sup> to 2 psig
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8"	0.25	0.55	0.25	0.55	Min to 16 oz/in <sup>2</sup>	Min to 16 oz/in <sup>2</sup>	16.01 oz/in <sup>2</sup> to 2 psig	16.01 oz/in <sup>2</sup> to 2 psig
10"	0.49	1.33	0.49	1.33	Min to 16 oz/in <sup>2</sup>	Min to 16 oz/in <sup>2</sup>	16.01 oz/in <sup>2</sup> to 2 psig	16.01 oz/in <sup>2</sup> to 2 psig
12"	0.47	1.28	0.47	1.28	Min to 16 oz/in <sup>2</sup>	Min to 16 oz/in <sup>2</sup>	16.01 oz/in <sup>2</sup> to 2 psig	16.01 oz/in <sup>2</sup> to 2 psig

**2020B**

2"	0.26	0.62	0.26	0.62	Min to 10 oz/in <sup>2</sup>	Min to 10 oz/in <sup>2</sup>	10.01 oz/in <sup>2</sup> to 2 psig	10.01 oz/in <sup>2</sup> to 2 psig
3"	0.21	0.49	0.21	0.49	Min to 10 oz/in <sup>2</sup>	Min to 10 oz/in <sup>2</sup>	10.01 oz/in <sup>2</sup> to 2 psig	10.01 oz/in <sup>2</sup> to 2 psig
4"	0.27	0.56	0.27	0.56	Min to 16 oz/in <sup>2</sup>	Min to 16 oz/in <sup>2</sup>	16.01 oz/in <sup>2</sup> to 2 psig	16.01 oz/in <sup>2</sup> to 2 psig
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**2021B**

2"	0.26	0.62	0.26	0.62	Min to 10 oz/in <sup>2</sup>	Min to 10 oz/in <sup>2</sup>	10.01 oz/in <sup>2</sup> to 2 psig	10.01 oz/in <sup>2</sup> to 2 psig
3"	0.21	0.49	0.21	0.49	Min to 10 oz/in <sup>2</sup>	Min to 10 oz/in <sup>2</sup>	10.01 oz/in <sup>2</sup> to 2 psig	10.01 oz/in <sup>2</sup> to 2 psig
4"	0.27	0.56	0.27	0.56	Min to 16 oz/in <sup>2</sup>	Min to 16 oz/in <sup>2</sup>	16.01 oz/in <sup>2</sup> to 2 psig	16.01 oz/in <sup>2</sup> to 2 psig
6"	0.26	0.61	0.26	0.61	Min to 16 oz/in <sup>2</sup>	Min to 16 oz/in <sup>2</sup>	16.01 oz/in <sup>2</sup> to 2 psig	16.01 oz/in <sup>2</sup> to 2 psig
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10"	0.49	1.33	0.49	1.33	Min to 16 oz/in <sup>2</sup>	Min to 16 oz/in <sup>2</sup>	16.01 oz/in <sup>2</sup> to 2 psig	16.01 oz/in <sup>2</sup> to 2 psig
12"	0.47	1.28	0.47	1.28	Min to 16 oz/in <sup>2</sup>	Min to 16 oz/in <sup>2</sup>	16.01 oz/in <sup>2</sup> to 2 psig	16.01 oz/in <sup>2</sup> to 2 psig

Lower settings may be available. Please consult your sales representative.

All valves are factory tested for leakage and correct setting prior to shipment. Certification of valve setting is available upon request.

The mixed pressure/vacuum set ranges , 0204 and 0402 (Low Pressure/High Vacuum and High Pressure/Low Vacuum) use heavier pallets, and therefore have higher low set range minimums. For these cases, add the applicable value from the following table to the low set range minimum. (This increase does not apply for 10" and 12" 2011B/2021B.)

Size	Aluminum	316 SST
2"	0.30	0.72
3"	0.27	0.70
4"	0.21	0.62
6"	0.20	0.55
8"	0.21	0.44
10"	0.25	0.61
12"	0.26	0.67

**Ordering Information**

Model	Description																		
20	Air Cushion Pressure/ Vacuum Relief Valve																		
	<table border="1"> <thead> <tr> <th>Code</th> <th>Model</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Vent-to-Atmosphere</td> </tr> <tr> <td>2</td> <td>Pipe-Away</td> </tr> </tbody> </table>	Code	Model	1	Vent-to-Atmosphere	2	Pipe-Away												
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VS	Viton® and Stainless Steel (-15°F to 350°F)																		
	<table border="1"> <thead> <tr> <th>Code</th> <th>Pressure Setting Range (See Table, pg. 4)</th> </tr> </thead> <tbody> <tr> <td>02</td> <td>Low Setting</td> </tr> <tr> <td>04</td> <td>High Setting</td> </tr> </tbody> </table>	Code	Pressure Setting Range (See Table, pg. 4)	02	Low Setting	04	High Setting												
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20 1 0B 1 2 T FF OP 02 02 (Example)  
 Example: 12" Size Aluminum Body/ 316SS Trim, Teflon® Insert, 150 FF Flanges, Standard Fiber/ BUNA-N Gaskets, Low Set Pressure and Vacuum, Temperature Range: -20°F to 250°F.