



An Ovivo Company

# VAREC 3500B/ 3600B/ 3650B Series VACUUM OR PRESSURE RELIEF VALVES

The 3500B, 3600B and 3650B relief valves are designed to provide superior seat tightness while protecting liquid storage vessels, vapor recovery systems, and process systems from excess vacuum.

#### Introduction

The Varec 3500B & 3600B Relief Valves are designed to protect atmospheric and low pressure tanks from excessive vacuum while the 3650B protects from excess pressure or vacuum. The 3500B, 3600B and 3650B Series are dead-weight loaded vacuum breakers utilizing weights proportional to the seat surface area to achieve the desired setting. Flow curves are provided to help you select the proper size for your vacuum venting requirements.

#### **Features**

The Varec 3500B, 3600B and 3650B Series is designed to offer flexibility of installation.

- · 3500B valves are tank top mounted
- · 3600B valves are side mounted
- 3650B valves with flanged intake and discharge connections for "in-line" applications. May also be used for either pressure (top mounted) or vacuum (side mounted) relief applications
- · Oversized port for maximum flow
- Replaceable "Air Cushion" PTFE seating for lowest available leakage for weight-loaded valve
- Pallet drip ring and self-draining housing protect the seating surface from condesate and freezing
- Side-and-center guided pallet
- Wide range of materials for service in most applications
- "All-Weather" non-frosting and ice-resistant coating option available for valve seats and guides
- Extended service options available for high temperature and chemical applications







3600B SERIES

**Technical Data** 

Materials: Aluminum, Carbon Steel

Stainless Steel

Sizes:

3500B/ 3600B: 2" to 12" [500 to 300 mm] 3650B: 2" x 3" to 12" x 14"

[50 x 75 to 300 x 350 mm]

Connections: Drilled Flange
Vacuum Settings: 2 PSIG [0.14 barg]

#### **Specifications**

#### Sizes 3500B & 3600B: 3650B: 2" x 3" [50x80 mm] 2" [50 mm] 3" x 4" [80x100mm] 3" [80 mm] 4" x 6" [100x150 mm] 4" [100 mm] 6" [150 mm] 6" x 8" [150x200 mm] 8" [200 mm] 8" x 10" [200x250 mm] 10" [250 mm] 10"x12" [250x300 mm] 12" [300 mm] 12"x14" [300x350 mm]

#### **Flanged Connections**

(STANDARD FLANGE DRILLING)

#### <u>Aluminum</u>

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)

# Mounting Studs

Fractional (Imperial)

Metric

# Maximum Working Pressure

2 PSIG [0.138 barg] for Low Set Range 5 PSIG [0.345 barg] for High Set Range

This is a function of pallet thickness.

Operating above these pressures could cause valve damage. Higher working pressures available. Please consult factory.

#### **Testing**

Each valve is tested for proper setting and for a leakage rate of 1 SCFH (0.03 Nm³/hr) or less of air at 90% of the set point. Each valve is tested for leak tightness at 75% of set point as required by API Standard 2000.

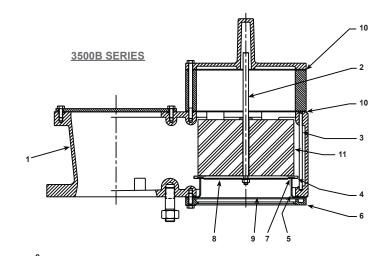
# **Setting Information**

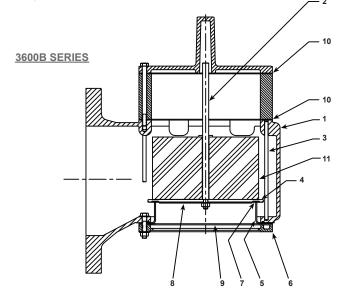
	Minim Pressure/ Va					
Size 3500B	Aluminum	316SS	Low Set Range	High Set Range		
2"	0.26 oz/ in <sup>2</sup>	0.62 oz/ in <sup>2</sup>	Min to 10 oz/ in <sup>2</sup>	10.01 oz/ in² to 2 psig		
3"	0.21 oz/ in <sup>2</sup>	0.49 oz/ in <sup>2</sup>	Min to 10 oz/ in <sup>2</sup>	10.01 oz/ in² to 2 psig		
4"	0.27 oz/ in <sup>2</sup>	0.56 oz/ in <sup>2</sup>	Min to 16 oz/ in <sup>2</sup>	16.01 oz/ in² to 2 psig		
6"	0.26 oz/ in <sup>2</sup>	0.61 oz/ in <sup>2</sup>	Min to 16 oz/ in <sup>2</sup>	16.01 oz/ in² to 2 psig		
8"	0.25 oz/ in <sup>2</sup>	0.55 oz/ in <sup>2</sup>	Min to 16 oz/ in <sup>2</sup>	16.01 oz/ in² to 2 psig		
10"	0.25 oz/ in <sup>2</sup>	0.63 oz/ in <sup>2</sup>	Min to 16 oz/ in <sup>2</sup>	16.01 oz/ in² to 2 psig		
12"	0.23 oz/ in <sup>2</sup>	0.59 oz/ in <sup>2</sup>	Min to 16 oz/ in <sup>2</sup>	16.01 oz/ in² to 2 psig		
3501B						
2"	0.26 oz/ in <sup>2</sup>	0.62 oz/ in <sup>2</sup>	Min to 10 oz/ in <sup>2</sup>	10.01 oz/ in <sup>2</sup> to 2 psig		
3"	0.21 oz/ in <sup>2</sup>	0.49 oz/ in <sup>2</sup>	Min to 10 oz/ in <sup>2</sup>	10.01 oz/ in² to 2 psig		
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8"	0.25 oz/ in <sup>2</sup>	0.55 oz/ in <sup>2</sup>	Min to 16 oz/ in <sup>2</sup>	16.01 oz/ in2 to 2 psig		
10"	0.49 oz/ in <sup>2</sup>	1.33 oz/ in <sup>2</sup>	Min to 16 oz/ in <sup>2</sup>	16.01 oz/ in2 to 2 psig		
12"	0.47 oz/ in <sup>2</sup>	1.28 oz/ in <sup>2</sup>	Min to 16 oz/ in <sup>2</sup>	16.01 oz/ in² to 2 psig		
3600B						
2"	0.26 oz/ in <sup>2</sup>	0.62 oz/ in <sup>2</sup>	Min to 10 oz/ in <sup>2</sup>	10.01 oz/ in² to 2 psig		
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3650B						
2"	0.26 oz/ in <sup>2</sup>	0.62 oz/ in <sup>2</sup>	Min to 10 oz/ in <sup>2</sup>	10.01 oz/ in <sup>2</sup> to 2 psig		
3"	0.21 oz/ in <sup>2</sup>	0.49 oz/ in <sup>2</sup>	Min to 10 oz/ in <sup>2</sup>	10.01 oz/ in² to 2 psig		
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12"	0.23 oz/ in <sup>2</sup>	0.59 oz/ in <sup>2</sup>	Min to 16 oz/ in <sup>2</sup>	16.01 oz/ in² to 2 psig		
3651B						
2"	0.26 oz/ in <sup>2</sup>	0.62 oz/ in <sup>2</sup>	Min to 10 oz/ in <sup>2</sup>	10.01 oz/ in² to 2 psig		
3"	0.21 oz/ in <sup>2</sup>	0.49 oz/ in <sup>2</sup>	Min to 10 oz/ in <sup>2</sup>	10.01 oz/ in2 to 2 psig		
4"	0.27 oz/ in <sup>2</sup>	0.56 oz/ in <sup>2</sup>	Min to 16 oz/ in <sup>2</sup>	16.01 oz/ in² to 2 psig		
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12"	0.47 oz/ in <sup>2</sup>	1.28 oz/ in <sup>2</sup>	Min to 16 oz/ in <sup>2</sup>	16.01 oz/ in² to 2 psig		

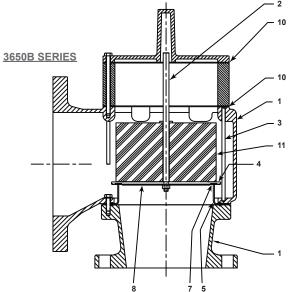
#### **Available Materials**

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

The 3500B, 3600B and 3650B are part of Varec's 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.







# **Parts and Materials Table**

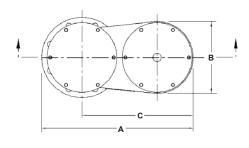
			Material Code						
	Item	1	2	3	4	5			
1	Body	Aluminum	Aluminum	Steel	316 SS	Iron			
2	Guide Stem	Aluminum	316 SS	316 SS	316 SS	316 SS			
3	Guide Posts	316 SS							
4	Pallet	Aluminum	316 SS	316 SS	316 SS	316 SS			
5	Seat Ring	Aluminum	316 SS	316 SS	316 SS	316 SS			
6	Seat Ring Retainer 1	Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene			
7	Insert 1	PTFE	PTFE	PTFE	PTFE	PTFE			
8	Insert Retainer	Aluminum	316 SS	316 SS	316 SS	316 SS			
9	Screen 1	HDPE	HDPE	HDPE	HDPE	HDPE			
10	Gaskets 1	Fiber	Fiber	Fiber	Fiber	Fiber			
11	Weights	Lead	Lead	Lead	Lead	Lead			

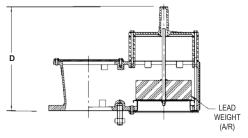
Note: 1 - Materials are as standard. See model option code for other materials and their associated temperature ranges

- 2 PTFE coated aluminum may be supplied with material codes 2 5 to achieve lower settings.
- 3 All nuts and cap screws are 316 SS.

3500B & 3501B
Dimensions inches [mm]

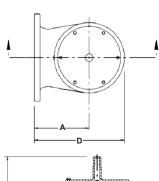
Dimensions,	, inches [i	mmj					
Size Code	2	3	4	6	8	0	1
Nominal Pipe Size	2 [50]	3 [80]	4 [100]	6 [150]	8 [200]	10 [250]	12 [300]
А	13 <sup>1</sup> / <sub>8</sub> [333]	16 <sup>1</sup> / <sub>8</sub> [410]	16 <sup>15</sup> / <sub>16</sub> [430]	21 <sup>3</sup> / <sub>16</sub> [538]	26 <sup>5</sup> / <sub>16</sub> [668]	32 <sup>15</sup> / <sub>16</sub> [837]	38 <sup>7</sup> / <sub>8</sub> [987]
В	6 <sup>3</sup> / <sub>16</sub> [157]	7 <sup>5</sup> / <sub>8</sub> [194]	8 [203]	10 <sup>1</sup> / <sub>16</sub> [256]	12 <sup>7</sup> / <sub>8</sub> [327]	16 <sup>1</sup> / <sub>8</sub> [410]	19 <sup>1</sup> / <sub>4</sub> [489]
С	9 <sup>7</sup> / <sub>8</sub> [251]	12 <sup>3</sup> / <sub>16</sub> [310]	12 <sup>7</sup> / <sub>16</sub> [316]	15 <sup>9</sup> / <sub>16</sub> [395]	19 <sup>9</sup> / <sub>16</sub> [497]	24 <sup>15</sup> / <sub>16</sub> [633]	29 <sup>3</sup> / <sub>8</sub> [746]
D Low Set	5 <sup>9</sup> / <sub>16</sub> [141]	6 <sup>9</sup> / <sub>16</sub> [167]	11 <sup>15</sup> / <sub>16</sub> [287]	11 <sup>3</sup> / <sub>16</sub> [284]	13 <sup>3</sup> / <sub>16</sub> [335]	16 <sup>1</sup> / <sub>16</sub> [408]	18 <sup>3</sup> / <sub>4</sub> [476]
D High Set	10 <sup>1</sup> / <sub>16</sub> [256]	11 <sup>3</sup> / <sub>16</sub> [284]	7 <sup>11</sup> / <sub>16</sub> [195]	14 <sup>7</sup> / <sub>16</sub> [367]	15 <sup>5</sup> / <sub>8</sub> [397]	17 <sup>3</sup> / <sub>4</sub> [451]	18 <sup>3</sup> / <sub>4</sub> [476]

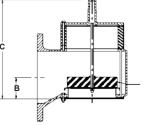




3600B & 3601B
Dimensions inches [mm]

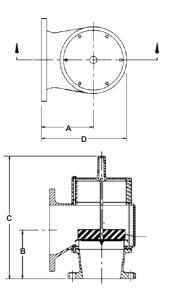
Dimensions, inches [mm]								
Size Code	2	3	4	6	8	10	1	
Nominal Pipe Size	2 [50]	3 [80]	4 [100]	6 [150]	8 [200]	10 [250]	12 [300]	
Α	5 <sup>1</sup> / <sub>2</sub> [140]	4 <sup>15</sup> / <sub>16</sub> [125]	6 <sup>3</sup> / <sub>8</sub> [162]	8 [203]	8 <sup>3</sup> / <sub>4</sub> [222]	11 <sup>3</sup> / <sub>16</sub> [284]	13 <sup>5</sup> / <sub>8</sub> [346]	
В	1 <sup>11</sup> / <sub>16</sub> [43]	2 <sup>1</sup> / <sub>8</sub> [54]	2 <sup>5</sup> / <sub>16</sub> [59]	2 <sup>3</sup> / <sub>8</sub> [60]	3 <sup>3</sup> / <sub>4</sub> [95]	4 <sup>1</sup> / <sub>8</sub> [105]	5 <sup>7</sup> / <sub>16</sub> [138]	
C Low Set	5 <sup>7</sup> / <sub>8</sub> [149]	5 <sup>15</sup> / <sub>16</sub> [151]	7 <sup>3</sup> / <sub>16</sub> [183]	8 <sup>5</sup> / <sub>16</sub> [211]	12 <sup>1</sup> / <sub>2</sub> [318]	14 <sup>1</sup> / <sub>16</sub> [357]	16 <sup>7</sup> / <sub>8</sub> [429]	
C High Set	10 <sup>7</sup> / <sub>16</sub> [265]	10 <sup>7</sup> / <sub>16</sub> [265]	11 <sup>15</sup> / <sub>16</sub> [303]	12 <sup>3</sup> / <sub>8</sub> [314]	15 <sup>11</sup> / <sub>16</sub> [398]	16 <sup>1</sup> / <sub>2</sub> [419]	18 <sup>9</sup> / <sub>16</sub> [471]	
D	8 <sup>5</sup> / <sub>8</sub> [219]	8 [203]	10 <sup>3</sup> / <sub>16</sub> [259]	12 <sup>1</sup> / <sub>4</sub> [311]	14 <sup>3</sup> / <sub>16</sub> [360]	17 <sup>15</sup> / <sub>16</sub> [456]	22 <sup>3</sup> / <sub>8</sub> [568]	





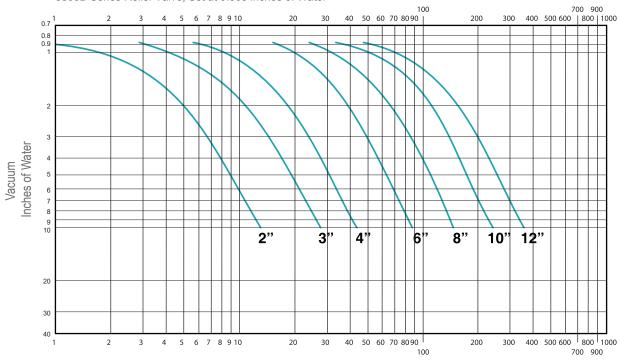
# 3650B & 3651B

Size Code	, inches [	mm <u>j</u> 3	4	6	8	0	1
Nominal Pipe Size	2 [50]	3 [80]	4 [100]	6 [150]	8 [200]	10 [250]	12 [300]
А	4 <sup>15</sup> / <sub>16</sub> [125]	6 <sup>3</sup> / <sub>8</sub> [162]	8 [203]	8 <sup>9</sup> / <sub>16</sub> [203]	11 <sup>3</sup> / <sub>16</sub> [284]	13 <sup>5</sup> / <sub>8</sub> [346]	15 <sup>3</sup> / <sub>8</sub> [391]
В	5 <sup>13</sup> / <sub>16</sub> [148]	6 <sup>1</sup> / <sub>4</sub> [159]	6 <sup>5</sup> / <sub>16</sub> [160]	16 <sup>3</sup> / <sub>4</sub> [203]	8 <sup>5</sup> / <sub>8</sub> [219]	12 <sup>5</sup> / <sub>8</sub> [321]	16 <sup>9</sup> / <sub>16</sub> [421]
C Low Set	9 <sup>9</sup> / <sub>16</sub> [243]	11 <sup>1</sup> / <sub>8</sub> [283]	12 <sup>1</sup> / <sub>4</sub> [311]	16 <sup>3</sup> / <sub>4</sub> [425]	18 <sup>9</sup> / <sub>16</sub> [471]	24 <sup>1</sup> / <sub>16</sub> [611]	29 <sup>13</sup> / <sub>16</sub> [757]
C High Set	14 <sup>1</sup> / <sub>16</sub> [357]	15 <sup>7</sup> / <sub>8</sub> [403]	16 <sup>5</sup> / <sub>16</sub> [414]	20 [508]	21 <sup>1</sup> / <sub>16</sub> [535]	25 <sup>3</sup> / <sub>4</sub> [654]	29 <sup>13</sup> / <sub>16</sub> [757]
D	8 [203]	10 <sup>3</sup> / <sub>16</sub> [259]	12 <sup>1</sup> / <sub>4</sub> [311]	14 <sup>3</sup> / <sub>16</sub> [360]	17 <sup>5</sup> / <sub>16</sub> [440]	22 <sup>3</sup> / <sub>8</sub> [568]	25 <sup>3</sup> / <sub>8</sub> [645]

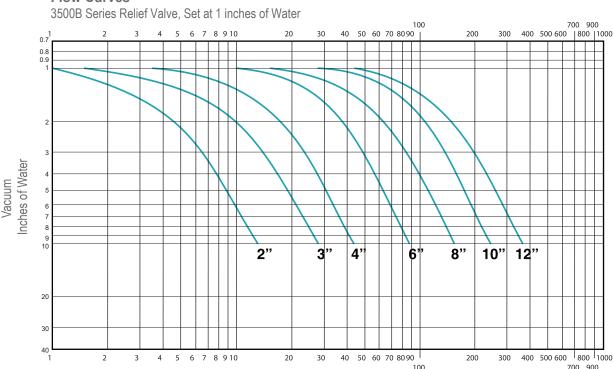








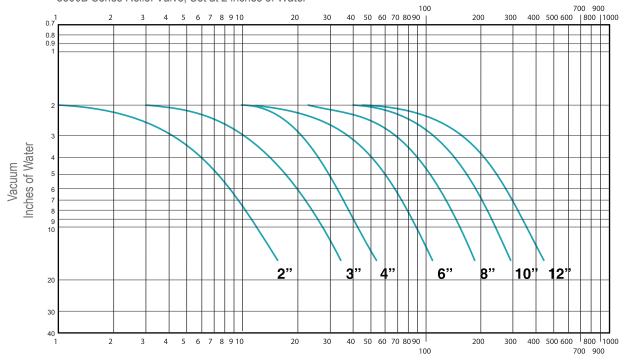
Thousand Cubic Feet/Hour at 60°F and 14.7 psia, Air Flow (SCFH)



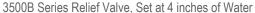
Thousand Cubic Feet/Hour at 60°F and 14.7 psia, Air Flow (SCFH)

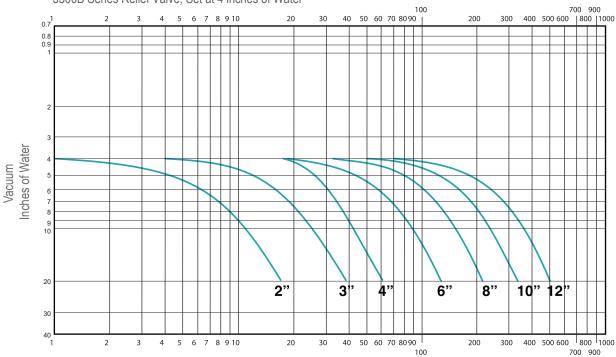






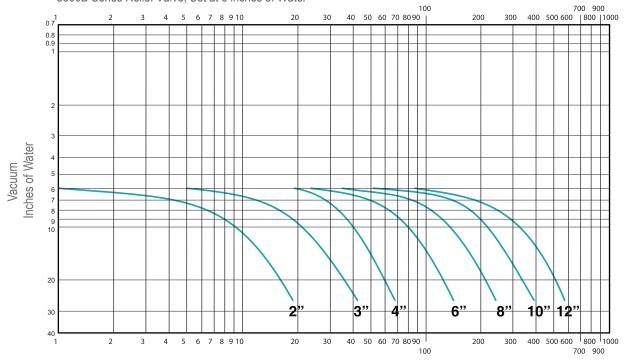
Thousand Cubic Feet/Hour at 60°F and 14.7 psia, Air Flow (SCFH)



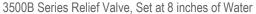


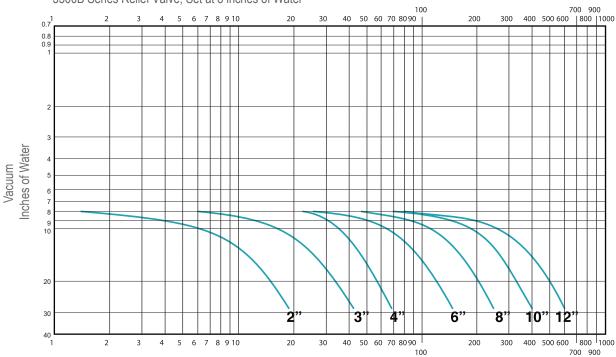
Thousand Cubic Feet/Hour at 60°F and 14.7 psia, Air Flow (SCFH)



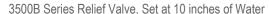


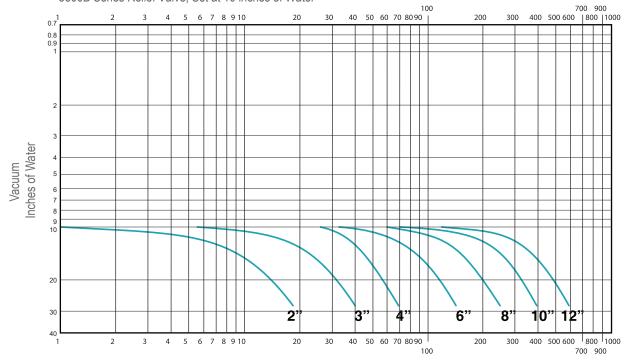
Thousand Cubic Feet/Hour at 60°F and 14.7 psia, Air Flow (SCFH)



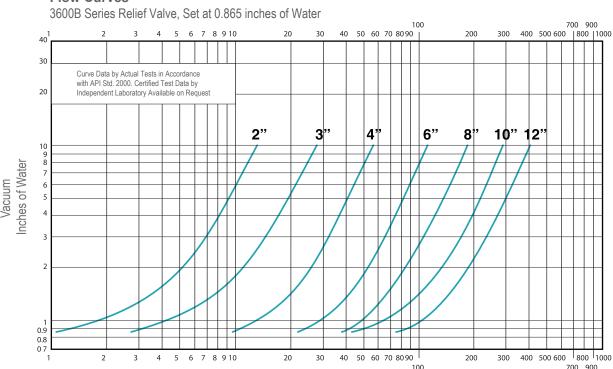


Thousand Cubic Feet/Hour at 60°F and 14.7 psia, Air Flow (SCFH)

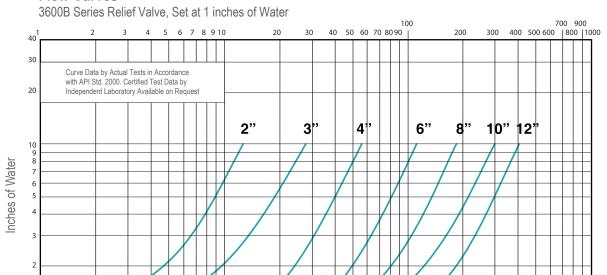




Thousand Cubic Feet/Hour at 60°F and 14.7 psia, Air Flow (SCFH)



Thousand Cubic Feet/Hour at 60°F and 14.7 psia, Air Flow (SCFH)



Thousand Cubic Feet/Hour at 60°F and 14.7 psia, Air Flow (SCFH)

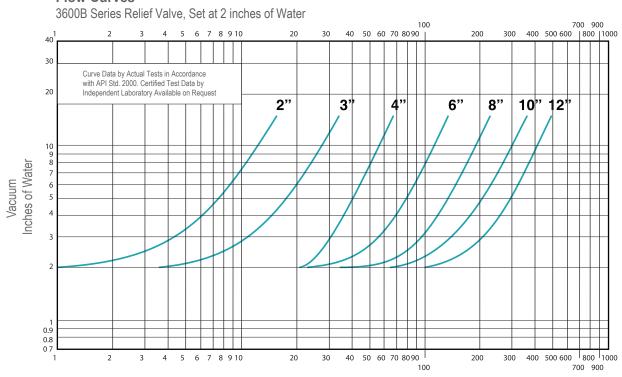
40 50 60 70 80 90

300

400 500 600 | 800 | 1000 700 900

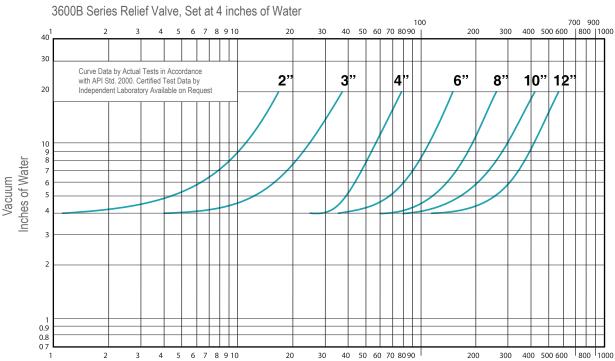
# **Flow Curves**

0.8 0.7



Thousand Cubic Feet/Hour at 60°F and 14.7 psia, Air Flow (SCFH)





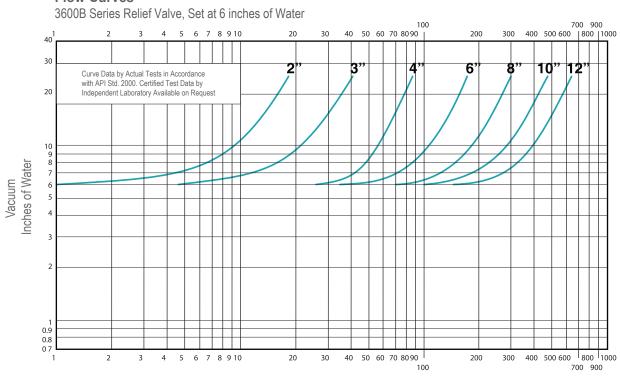
Thousand Cubic Feet/Hour at 60°F and 14.7 psia, Air Flow (SCFH)

40 50 60 70 80 90

300

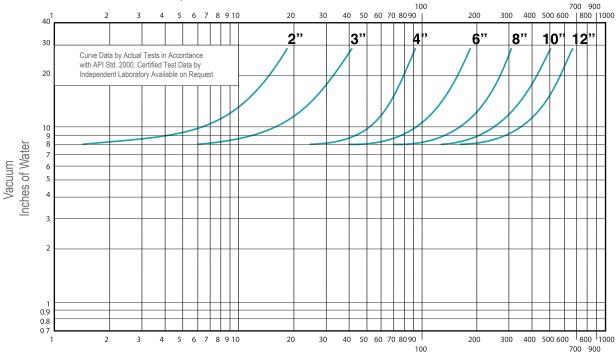
700 900

# **Flow Curves**

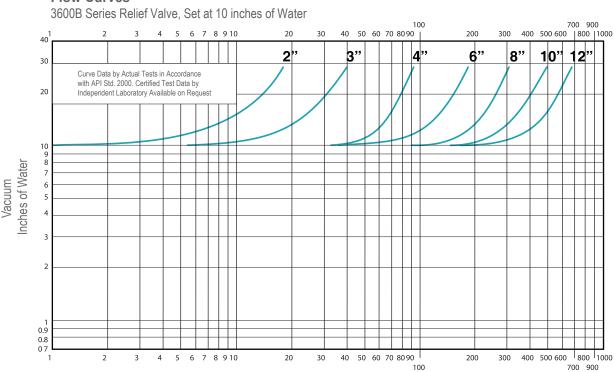


Thousand Cubic Feet/Hour at 60°F and 14.7 psia, Air Flow (SCFH)

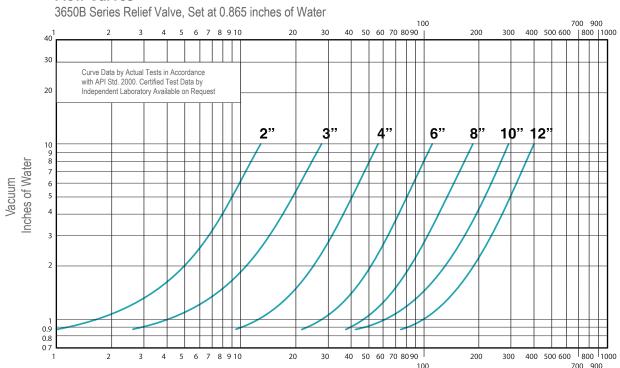




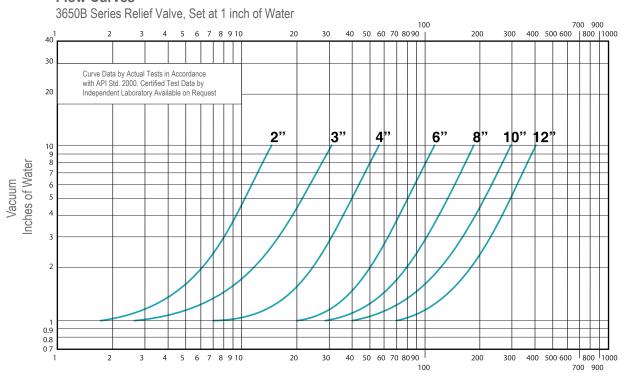
Thousand Cubic Feet/Hour at 60°F and 14.7 psia, Air Flow (SCFH)



Thousand Cubic Feet/Hour at 60°F and 14.7 psia, Air Flow (SCFH)



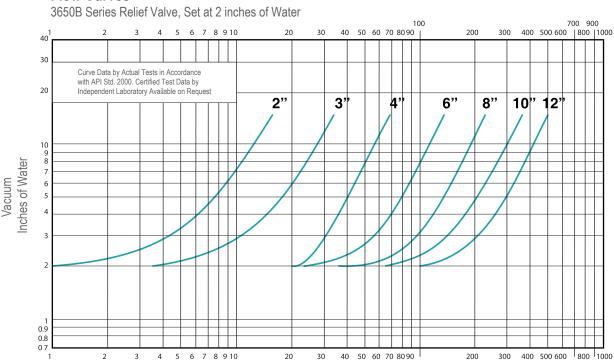
Thousand Cubic Feet/Hour at 60°F and 14.7 psia, Air Flow (SCFH)



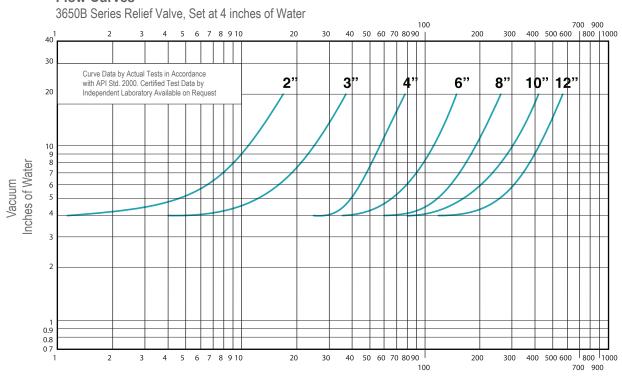
Thousand Cubic Feet/Hour at 60°F and 14.7 psia, Air Flow (SCFH)

700 900

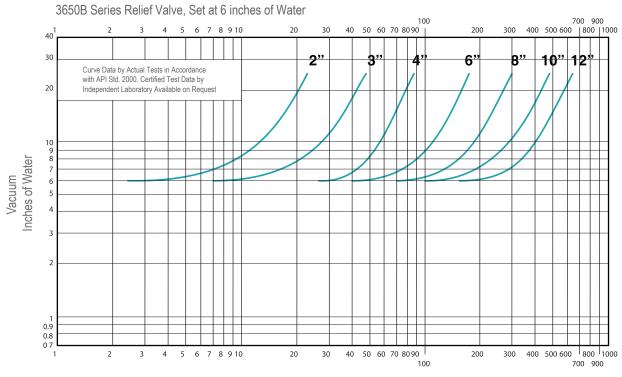
#### **Flow Curves**



Thousand Cubic Feet/Hour at 60°F and 14.7 psia, Air Flow (SCFH)

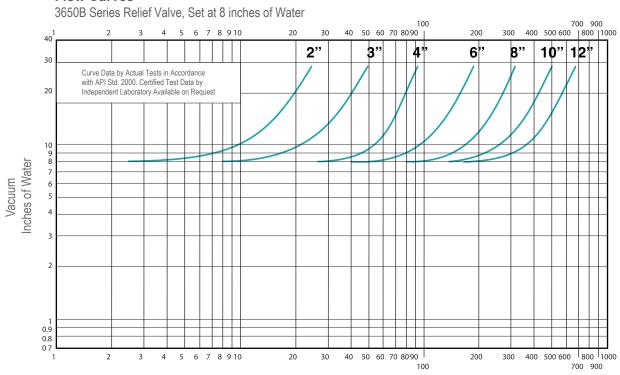


Thousand Cubic Feet/Hour at 60°F and 14.7 psia, Air Flow (SCFH)

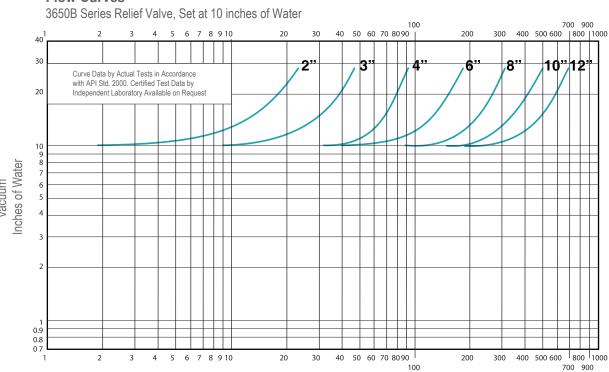


Thousand Cubic Feet/Hour at 60°F and 14.7 psia, Air Flow (SCFH)





Thousand Cubic Feet/Hour at 60°F and 14.7 psia, Air Flow (SCFH)



Thousand Cubic Feet/Hour at 60°F and 14.7 psia, Air Flow (SCFH)

# **Ordering Information**

Code 3	<b>Descri</b> Air Cushi		n Relief Val	ve							
	50 60 65	Side Mo	unted Vacu	ım Relief Va um Relief V or Vacuum F	alve	)					
		Code 0B 1B	Standard	Configuration Standard "All Weather Type" (-25°F to 200°F)							
			Code 2 3 4 6 8 0 1	Size 2" 3" 4" 6" 8" 10" 12"		,	/acuum (	Connecti	on Size		
				Code     1    2    3    4    5	Aluminu Aluminu Carbon Stainles	m / 316 Sta Steel / 316 s Steel / 31	um (-20° F - ainless Stee Stainless S 6 Stainless	l (-20° F - 2 teel (-20° F Steel (-65°			
					Code T B V	PTFE (-6 NBR (-4	<b>Material</b> 65° F - 400° 0° F - 250° I 5° F - 400° I	=)			
						FF MF FR MR	Flat Face Raised F (Not Ava Raised F (Not Ava DIN Flat	e Flange Dr e Flange Dr ace Flange lable in Alu ace Flange lable in Alu Face Flange	e Drilled to ANSI 150 with Metric Studs iminum) ge Drilling		
						DR	DIN Rais  Code OP OS TP TS BP BS VP VS	Gasker Standard Standard PTFE an PTFE an NBR and NBR and FKM and	ange Drilling (Not Available on Aluminum)  t/O-Ring & Retainer/Screen Material If (Fiber / NBR) and Plastic (-40° F - 250° F) If (Fiber / NBR) and Stainless Steel (-40° F - 250° F) If Plastic (-65° F - 250° F) If Plastic (-40° F - 250° F) If Stainless Steel (-40° F - 250° F) If Plastic (-15° F - 250° F) If Stainless Steel (-15° F - 350° F) If Stainless Steel (-15° F - 350° F)		
								<b>Code</b> 02 04	Setting Range (See Setting Information Table) Low Setting High Setting		
3 Example	50 e: 2" Top Moi	0B	2 ım Relief Val	1 ve Aluminum	T Body with	FF Aluminum Tri	OP	02 ert Flat Fac	(Example) ed Flange, Standard Fiber/NBR Gaskets, Low Vacuum		

Example: 2" Top Mounted Vacuum Relief Valve, Aluminum Body with Aluminum Trim, PTFE Insert, Flat Faced Flange, Standard Fiber/NBR Gaskets, Low Vacuum Set Range, Temperature Range: -20°F to 250°F)