

## Dimensions (In Inches)

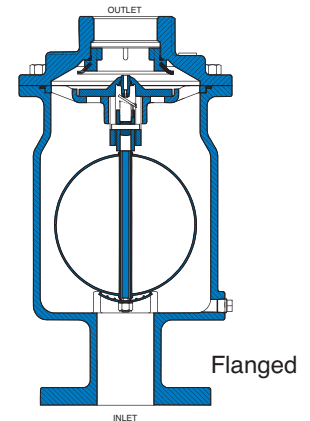
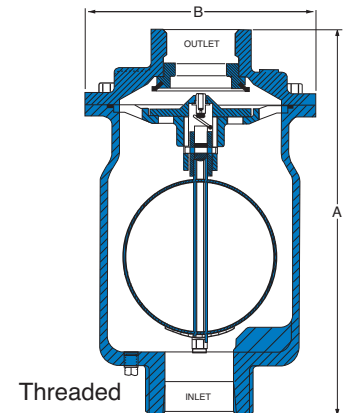
## MODEL 33A - 1", 2", 3", 4" and 6" Sizes

Valve Size	33A Pressure Class 300 Lb Threaded				33A Pressure Class 150 Lb Flanged (INLET)			
	1"	2"	3"	4"	2"	3"	4"	6"
A	9.10	12.44	12.75	12.75	13.88	15.56	15.75	16.38
B	6.25	7.50	9.00	9.00	7.50	9.25	9.25	11.00
E	—	—	—	—	.62	.75	.94	1.00
Inlet (ANSI)	1" NPT	2" NPT	3" NPT	4" NPT	2"	3"	4"	6"
Outlet (NPT)	1" NPT	2" NPT	3" NPT	4" NPT	2"	3"	4"	6"
Number of Holes	—	—	—	—	4	4	8	8
Diameter of Bolts	—	—	—	—	.63	.63	.75	.75
Shipping Wt. (Lb.)	25	29	38	40	39	48	50	70

### Pressure Ratings

Valve Size	Orifice Dia.	Standard Maximum Pressure	Materials of Construction
1"	.076"	300 psi	• Epoxy Coated Ductile Iron ASTM A536 65-45-12
2"	.076"	500 psi	• Epoxy Coated Cast Steel ASTM A 216WCB
3" & 4"	.125"	300 psi	• ASTM B61 Naval Bronze
3" & 4"	.076"	300 psi	• ASTM B 148 NI Aluminum Bronze
6"	.076"	300 psi	• 316 Stainless Steel
			• Duplex Stainless Steel
			• Super Duplex Stainless Steel

**Note:** Higher Pressures Available upon Request for sizes 3" & 4"



## Specifications

### Standard Internals

Float: Stainless Steel 304SS Standard, T316 or Monel optional (extra cost)

Balance internals parts Stainless Steel and Delrin

Seals Nitrile Rubber or Viton® (extra cost)

### Temperature Range

Water to 180° F

### Optional:

1. Well Service Throttling Device - Model TD

### When Ordering, Please Specify

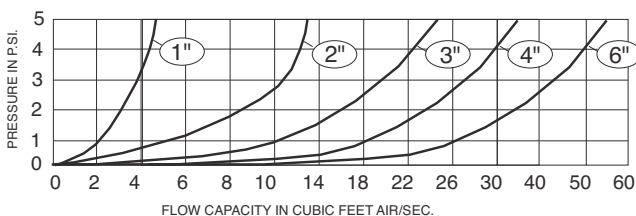
1. Catalog No.
2. Valve Size
3. Pressure Rating
4. Materials

## Valve Sizing Selection

### Large Orifice Air-Vacuum Capacity

Determine anticipated water flow and allowable pressure differential for the pipeline application. Select valve from chart to exhaust or admit air at the same rate as water filling or draining (in CFS). For larger flows, two or more Model 33A's may be installed in parallel

### Large Orifice



Note: For sizing made easy request:  
Cla-Val Selector Slide Rule

### Small Orifice Capacity

During pressurized pipeline operation, small pockets of entrapped air will be released through the float actuated 0.076 or .125 inch orifice. Use chart to determine discharge capacity.

