Aerodyne®

Vacu-Valve®

Open Construction
Platypus™ Valve

Closed Construction
Armadillo™ Valve

Aerodyne's Vacu-Valves are the most economical and worry-free way to discharge dust from bag filters or cyclones under negative pressure. The fitted sleeves adjust to the desired vacuum, allowing for the continuous discharge of material while still maintaining an adequate seal. This unique trickle valve requires no lubrication and no electrical power supply. The valves can be used in high temperature applications and can handle abrasive materials. The Vacu-Valve is available with a variety of sleeves to suit your application. Available in open or enclosed models and carbon or stainless steel construction, the Vacu-Valve is an exceptional value.

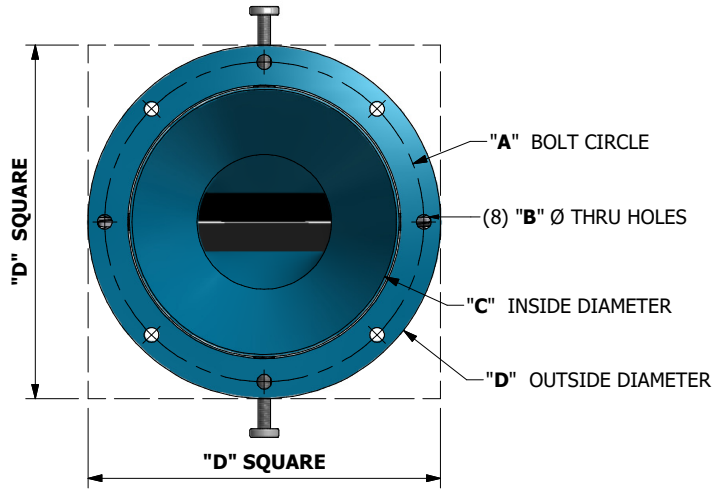
Key Features

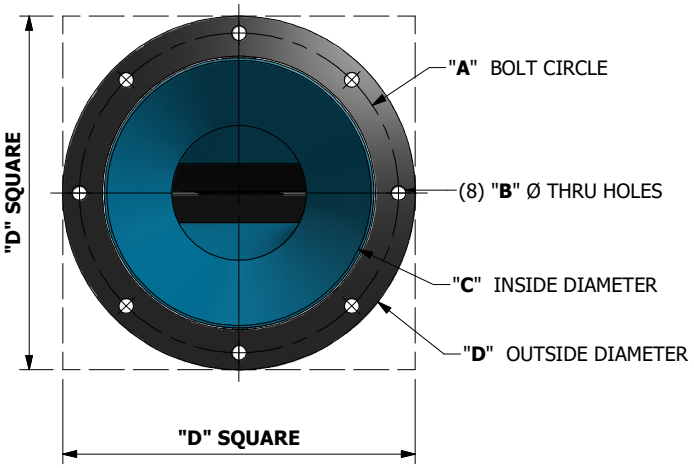
- **Open or enclosed construction models available**
- **Inexpensive**
- **No electricity needed**
- **Carbon or stainless steel**
- **Neoprene, VHT high-temp, White Nitrile or Super high-temp silicone duckbill sleeves**
- **Max. vacuum: 16" water gauge negative**
- **Max. temperature of 550°F**

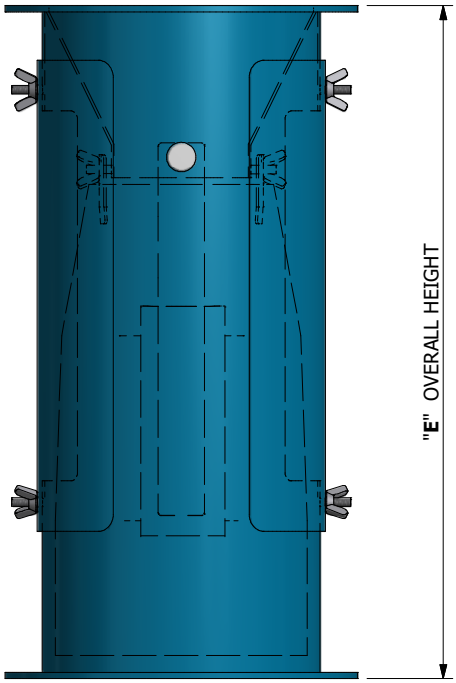
The Vacu-Valve operates based on the equilibrium between the vacuum in the system above it, the particulate, size, shape, mass and physical characteristics. The sleeve forms an airlock when exposed to negative pressure above it. The vacuum must be less than 16˝ W.C. to pass solids. Solids will build up in the Vacu-Valve as the vacuum and sleeve friction resist letting the particulate out. The force of gravity and weight of built up particulate force the particles down through the sleeve until they fall out the bottom. Fine spherical particles (ex. sand) work best. Flow rates vary based on particulate characteristics and operating conditions.

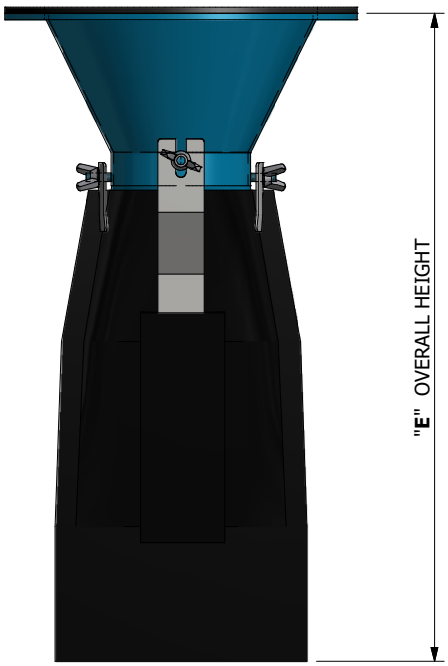
Typical industries that use these valves include: foundry, mining, cement, pharmaceutical, cereal, plastics, chemical and manufacturing.

Aerodyne®
ENVIRONMENTAL









Part Number Breakdown:
AURN8N is our standard 8" Vacu-Valve

N = Platypus
CN = Armadillo (Enclosed)

8 = 8" Valve
10 = 10" Valve

N = Neoprene (standard)
WN = White Nitrile
V = Viton
S = Silicone

Carbon Steel Housing comes standard
04 = 304 Stainless Steel
16 = 316 Stainless Steel

Q = 150LB Flange Drilling
Z = Square Blank Flange

DESCRIPTION	MODEL	A (BOLT CIRCLE)	B (NUMBER OF HOLES) (BOLT HOLE DIAMETER)	C (INSIDE DIAMETER)	D -	E (APPROX. OVERALL HEIGHT)
6" Platypus (8" Classic)	AURN8N	9.500"	(8) 0.4375"	7.88"	10.50"	19.3"
6" Armadillo (8" Classic)	AURCN8N	9.500"	(8) 0.4375"	7.88"	10.50"	20.0"
8" Platypus - 8" 150# Flange	AURN8NQ	11.750"	(8) 0.875"	7.88"	13.25"	19.3"
8" Armadillo - 8" 150# Flange	AURCN8NQ	11.750"	(8) 0.875"	7.88"	13.25"	20.0"
8" Square Platypus (Blank Flange)	AURN8NZ	N/A	N/A	7.88"	13.5" x 13.5"	19.3"
8" Square Armadillo (Blank Flange)	AURCN8NZ	N/A	N/A	7.88"	13.5" x 13.5"	20.0"
10" Platypus - 10" 150# Flange	AURN10N	14.250"	(12) 1.000"	9.88"	16"	23.8"
10" Armadillo - 10" 150# Flange	AURCN10N	14.250"	(12) 1.000"	9.88"	16"	24.5"
10" Square Platypus (Blank Flange)	AURN10NZ	N/A	N/A	9.88"	16.5" x 16.5"	23.8"
10" Square Armadillo (Blank Flange)	AURCN10NZ	N/A	N/A	9.88"	16.5" x 16.5"	24.5"

Rev. #	Date	Description

Aerodyne ENVIRONMENTAL
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DRAWN BY: RBenn | DATE CREATED: 6/3/2014
CHECKED BY: | DATE CHECKED:

DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED

DO NOT SCALE DRAWING

DRAWING TITLE: Tabulated Drawing

DRAWING NUMBER: 8RN-VacuValve

SHEET 1 OF 1

Drawing file: VacuValve Tabulated.idw Model file: 8RN-VacuValve.iam