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

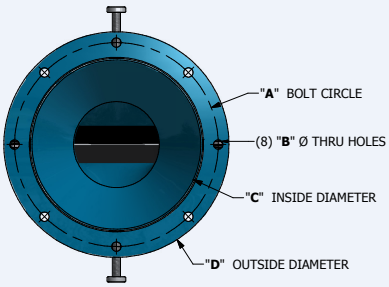
- **Open or enclosed construction models available**
- **Inexpensive**
- **No electricity needed**
- **Carbon or stainless steel**
- **Neoprene, VHT high-temp, White Nitrile or Super high-temp silicone duckbill sleeves**
- **Max. vacuum: 16" water gauge negative**
- **Max. temperature of 550°F**

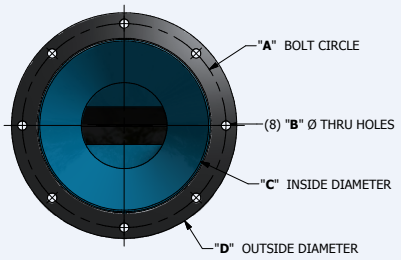
The Vacu-Valve operates based on the equilibrium between the vacuum in the system above it, the particulate, size, shape, mass and physical characteristics. The sleeve forms an airlock when exposed to negative pressure above it. The vacuum must be less than 16˝ W.C. to pass solids. Solids will build 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.

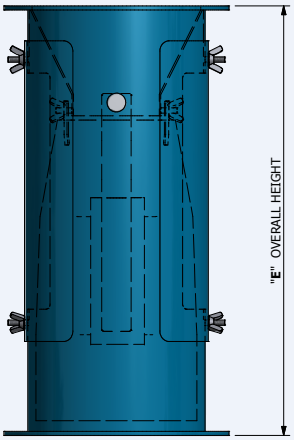
Typical industries that use these valves include: foundry, mining, cement, pharmaceutical, cereal, plastics, chemical and manufacturing.

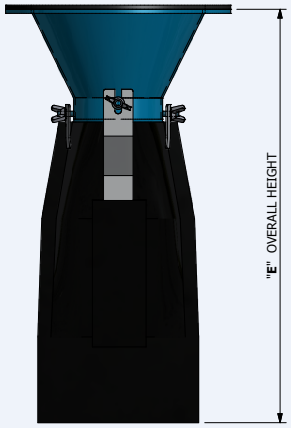
Aerodyne®
ENVIRONMENTAL

Vacu-Valve









Part Number Breakdown:
AURN8N

R = 9.5" Ø Bolt Circle (8) 7/16" Holes
K = 150 Lb Flange drilling

N = Platypus
CN = Armadillo (Enclosed)

8 = 8" Opening
10 = 10" Opening

is our standard 8" Vacu-Valve
Carbon Steel Housing comes standard
04 = 304 Stainless Steel
16 = 316 Stainless Steel

N = Neoprene
WN = White Nitrile
V = Viton
S = Silicone

DESCRIPTION	MODEL	A (BOLT CIRCLE)	B (NUMBER OF HOLES) (BOLT HOLE DIAMETER)	C (INSIDE DIAMETER)	D (OUTSIDE DIAMETER)	E (APPROX. OVERALL HEIGHT)
6" Platypus - 6" 150# Flange *	AURN6N	9.500"	(8) 0.875"	7.88"	10.50"	19.3"
6" Armadillo - 6" 150# Flange *	AURCN6N	9.500"	(8) 0.875"	7.88"	10.50"	20.0"
8" Platypus (Classic)	AURN8N	9.500"	(8) 0.4375"	7.88"	10.50"	19.3"
8" Armadillo (Classic)	AURCN8N	9.500"	(8) 0.4375"	7.88"	10.50"	20.0"
8" Platypus - 8" 150# Flange	AUKN8N	11.750"	(8) 0.875"	7.88"	13.25"	19.3"
8" Armadillo - 8" 150# Flange	AUKCN8N	11.750"	(8) 0.875"	7.88"	13.25"	20.0"
10" Platypus - 10" 150# Flange	AUKN10N	14.250"	(12) 1.000"	9.88"	15.75"	23.8"
10" Armadillo - 10" 150# Flange	AUKCN10N	14.250"	(12) 1.000"	9.88"	15.75"	24.5"

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

Rev. #	Date	Description

Aerodyne ENVIRONMENTAL

17387 Munn Rd.
Chagrin Falls, Ohio 44023
(440) 543-7400
www.dustcollectorhq.com

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

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17387 Munn Road
Chagrin Falls, OH 44023
(440) 543-7400
(440) 543-7404 Fax

1-800-358-7546

www.dustcollectorhq.com