

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.

The Vacu-Valve operates based on the equilibrium between the vacuum in the system above it, the particulate, size, shape, mass and physical characteristics.

Key Features

- Open or enclosed construction models available
- 6", 8", 10" round sizes available
- 8", 10" square sizes 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 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 & Applications

- Foundry
- Mining
- Cement
- Pharmaceutical
- Cereal
- Chemical
- Manufacturing
- Ceramic Dust
- Spray Dryers
- Plastics



Aerodyne®

ENVIRONMENTAL

direct separation solutions

Vacu-Valve

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

- Carbon Steel Housing comes standard
- 04 = 304 Stainless Steel
- 16 = 316 Stainless Steel
- N = Neoprene (standard)
- WN = White Nitrile
- V = Viton
- S = Silicone

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)	AURCN8NQZ	N/A	N/A	7.88"	13.5" x 13.5"	19.3"
8" Square Armadillo (Blank Flange)	AURCN8NQZ	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"	15.75"	23.8"
10" Armadillo - 10" 150# Flange	AURCN10N	14.250"	(12) 1.000"	9.88"	15.75"	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"

Drawing Title: Tabulated Drawing
 Drawing Number: 8RN-VacuValve
 SHEET 1 OF 1

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DO NOT SCALE DRAWING



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