



# 2" D-46

Nylon Body



Waterworks

## Combination Air Valve for High Flow

Clean Water

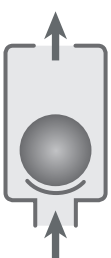
### Description

The ARI D-46 PRO is a full bore combination air valve installed on a liquid transmission system. Protecting and increasing pipeline efficiency and reduce energy requirements by improving the hydraulic operation of the system.

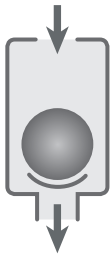
### Installation

- Pump stations: after the pump and after the check valve
- Downstream (after) and upstream (before) of shut-off valves
- After deep-well pumps
- On long constant-sloped pipeline segments
- At peaks along the pipeline and at peaks relative to hydraulic gradient
- At end lines
- Before water meters
- On strainers and filters

### Operation



Air Discharge




Air Intake



Automatic  
Air Release

## Features and Benefits

Reliable operation	reduces water hammer impact, saves energy and increases system efficiency
Dynamic design	high capacity air discharge
One-piece lightweight body	lessens the chance of leaks and vandalism
Screened threaded outlet	insect-proof, for vent pipe connection
All internal operating parts - specially selected materials	non-corrosive and durable
Automatic air release orifice	high flow air release, lessens obstruction by debris
Minimum down-time for maintenance	all operating parts in one replaceable cartridge
Automatic air release Rolling seal	leak-free sealing over wide range of pressure differentials
Built-in drainage outlet	hygienic, drains surplus water above the sealing mechanism
ATEX certified air valves 	certification is conditional on the customer connecting the designated part on the product to a dedicated ground connection point.

## Technical Specifications

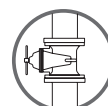
Size Range	2"
Sealing pressure range	1.45 - 250 psi Testing pressure: 1.5 times maximum working pressure
Temperature	Maximum working temperature: 140 F Maximum intermittent temperature: 194 F

## Valve Selection Options

Valve connection	Threaded male NPT
Standard materials	Reinforced nylon
Optional Add-on Components	

The valve installed under the air valve must be fully open to prevent damage or malfunction and ensure performance within the specifications of the air valve.

For complete installation instructions, please refer to the IOM document.



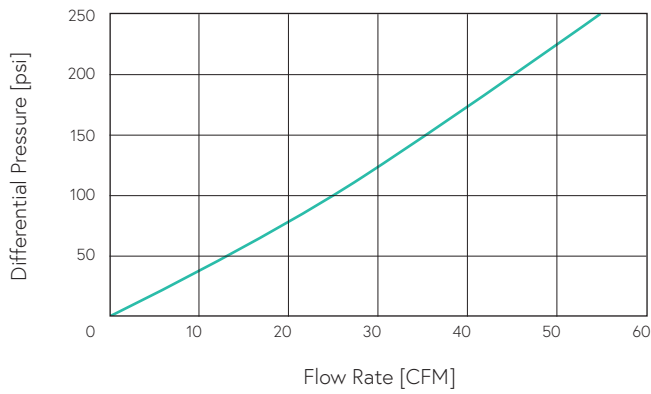
## Dimensions and Weight

Size	Dimensions (Inch)		Connections	Weight (Lbs.)	Orifice Area (Sq.In)		
	max. A	B			C	A / V	
Nylon Models							
2" (50mm) TRH	5.91	12.9	2" Male NPT	3.08	3.3	0.023	

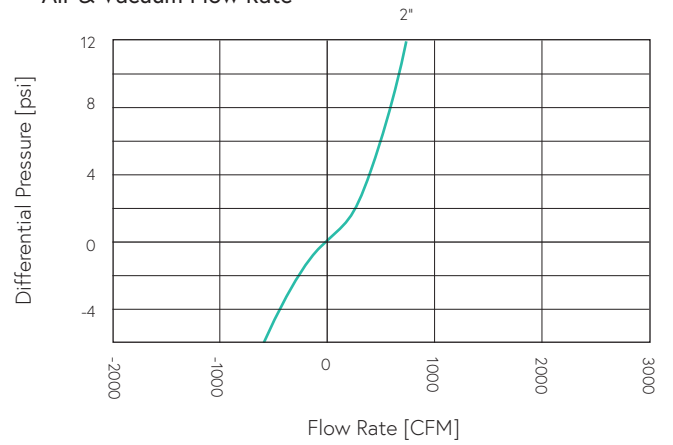
FL - Flanged THR - Threaded

## Flow Charts

Automatic Air Release Flow Rate



Air & Vacuum Flow Rate



## Parts List and Specification | Nylon 2"

No.	Part	Material
1	Cover Assembly	
1a	Cover	Reinforced Nylon
1b	<del>Optional - Non Slam</del>	<del>Reinforced Nylon</del>
2	Air Release / Air & Vacuum Assembly	
2a	Air & Vacuum Seal	EPDM
2b	Air Release Cover	Reinforced Nylon
2c	Rolling Seal	EPDM
2d	Float	Polypropylene
2f	O-ring	NBR
3	Body Assembly	
3a	Body	Reinforced Nylon
3b	Pressure Release Plug 1/4"	Reinforced Nylon
4	<del>Optional Flange Assembly</del>	
4a	<del>O-ring</del>	<del>NBR</del>
4b	<del>Flange</del>	<del>Reinforced Nylon</del>

