A.R.I. DT-040

Aquestia
Directing the Flow

Waterworks

Micro Combination Air Valve Series

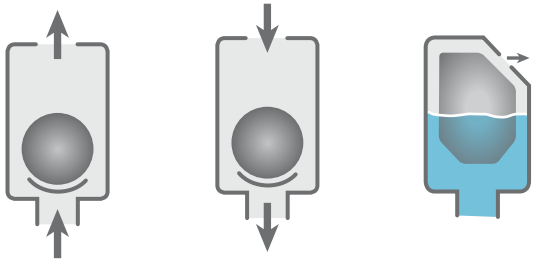
Description

A.R.I. DT-040 is a reduced bore Micro Combination Air Valve Series. Installed on liquid transmission systems, the Air Valve is designed to improve hydraulic operation by protecting the pipeline, increasing pipeline efficiency and reducing energy requirements.

Installation

- Pump stations: downstream of the pump and the check valve
- Downstream and upstream of shut-off valves
- Downstream of 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

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Features and Benefits

Reliable operation	Reduces water hammer impact, saves energy and increases system efficiency
Dynamic design	High capacity air discharge
	Easy to install and simple to maintain
Unique orifice seat / seal design	Long-term maintenance-free operation
Accessible discharge outlet	For connecting a vent pipe
All parts UV resistant reinforced composite and rubber materials	Non-corrosive and durable
Rolling seal	Leak-free sealing over a wide range of pressure differentials

Technical Specifications

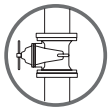
Size range	½" – 1"
Working pressure range	A.R.I. DT-040 LP 0.05 - 6 bar (PN6) A.R.I. DT-040 0.2 - 10 bar (PN10)
Testing pressure	1.5 times maximum working pressure
Temperature	Maximum working temperature: 60° C Maximum intermittent temperature: 90° C
Upon ordering, please specify: model, size, working pressure, thread/flange standard and type of liquid	

Valve Selection Options

Models	A.R.I. DT-040 A.R.I. DT-040 LP - low pressure seal
Valve connection	Threaded male BSPT/NPT
Standard materials	Reinforced Nylon, Polypropylene
Pressure rating	PN6 A.R.I. DT-040 LP PN10 A.R.I. DT-040

The isolation 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.



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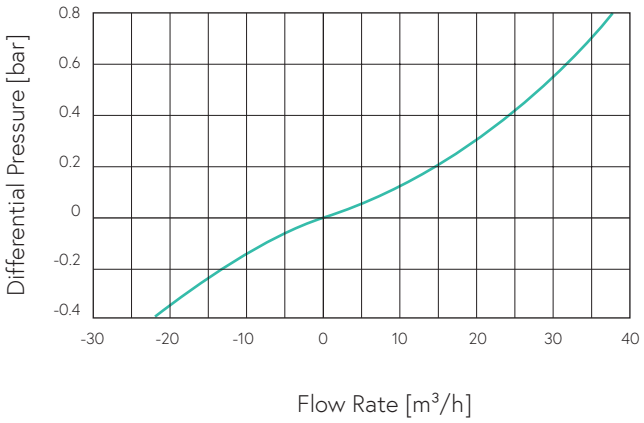
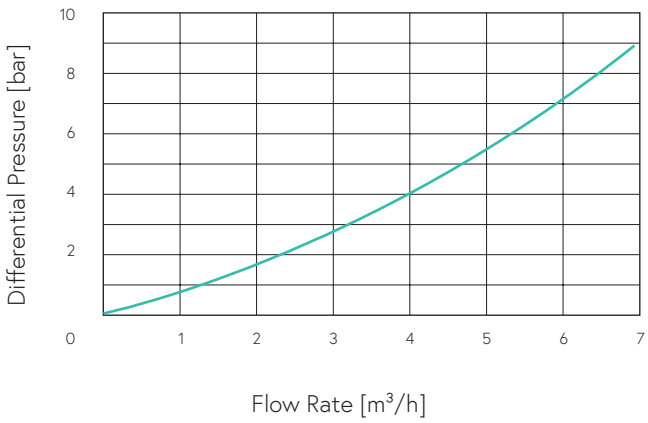
Flow Charts

Air & Vacuum Flow Rate

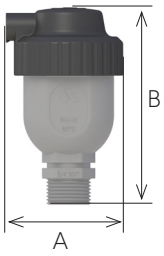


Automatic Air Release Flow Rate



Dimensions and Weight

Size	Dimensions (mm)		Weight (g)	Orifice Area (mm²)	
	max. A	B		A / V	Auto.
1/2" (15mm), 3/4" (20mm), 1" (25mm) THR	67	113	126	42	5.6



THR - Threaded

NOTE
Dimension A in the picture and in the table shows the maximum product width.
All product weights are approximate, due to the differences in flange standards, materials and variable accessories.

Parts List and Specifications

No.	Part	Material
1	Cover Assembly	
1a	Discharge Outlet	ACETAL (POM)
1b	O-ring	NBR
2	Air Release / Air & Vacuum Assembly	
2a	Seat	Polypropylene
2b	Seal	EPDM
2c	Float	Foamed Polypropylene
3	Body	Polypropylene

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