

AV-10

Air & Vacuum valve

A.R.I.



The A.R.I. AV-10 is a PP kinetic air & vacuum valve that can admit or discharge large quantities of air to/from a system. The air & vacuum valves are used predominantly where the installation is regularly drained and filled to prevent implosion (due to vacuum) and water hammer (due to water columns 'springing back'). Good venting allows the system to be filled faster and more safely.

APPLICATION

Underground drip irrigation installations in, for example, garden or landscape irrigation for the discharge of relatively large quantities of air

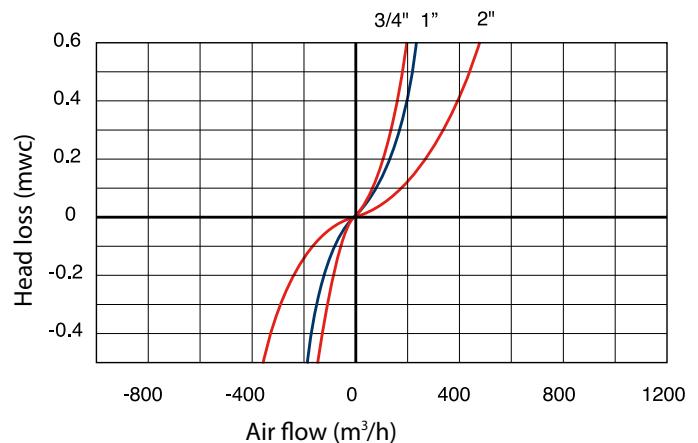
CHARACTERISTICS

- ✓ Dynamic design that functions up to very large pressure difference (0.7 bar pressure difference for air release); prevents premature closing
- ✓ Body of high-quality plastic material
- ✓ UV-resistant, hence suitable for outdoor use
- ✓ Lightweight

TECHNICAL DATA

Diameter	: 3/4" - 1" BSPT male thread : 2" BSPT female thread
Option	: one-direction air valve
Inlet	: 3/4" - 1": 314 mm ² : 2": 800 mm ²
Working pressure	: 0.2 - 10 bar
Max. temperature	: 95 °C (with decreasing maximum pressure)
Material	: polypropylene (3/4" - 1") : glassfibre-reinforced nylon (2")
Colour	: black or grey housing with orange cap
Certification	: REACH

Head loss chart



INSTALLATION & MAINTENANCE

In an installation the AV-10 air valve is used as follows:

- ✓ At the highest point in lines (on portals, filters, etc.) to prevent vacuum during emptying.
- ✓ At the beginning and end of the line to allow air to escape or to admit air during emptying/filling.
- ✓ With underground drip irrigation, to prevent vacuum and hence the intake of dirt.
- ✓ Air valves are always installed upright at the highest points and at the beginning and end of the line.

Parts list

No.	Description	Material ¾" - 1"	Material 2"
1	Body	PP	Glassfibre-reinforced nylon
2	Cover	PP	PP
3	Disc	-	Glassfibre-reinforced nylon
4	Seal	BUNA-N	EPDM
5	Float	PP	Glassfibre-reinforced nylon

Technical drawings

¾" - 1"

2"

