



الشركة العربية لصناعة أنابيب المياه المحدودة  
arabian company for water pipe industry ltd.



## GRP Flap Valve

*The drainage & sewerage backwater protection*

### NON-RETURN AND FLAP VALVES

01	02/01/2018	HRD	MMB	First Issue
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## 1. INTRODUCTION

A Non-Return Valve for tidal Waters and permanently below the waterline applications. Regulating water flow in one direction and preventing back flow. Applied to all size applications and environments for gravity flow conditions.

ACWAPIPE design and manufacture non-return and flap valves using control contact molding fabrication technique. Our range in glass-reinforced plastic using a isophtalic polyester resin is designed to prevent backflow in sewerage and drainage systems.

With GRP being the main material, ACWAPIPE offers an innovative, lightweight and highly resistant Flap Valve.


Flap valves are designed to be install at the end of pipelines either on vertical walls or directly onto the end of the pipe.

## 2. PRODUCT ADVANTAGES

- **Reliable:** high mechanical strength due to GRP construction; durable materials
- **Watertight :** resistant up to 1 bar (10 m head), back pressure.
- **Light weight :** fast and easy installation, most sizes can be handled by one person; very low operating pressure (cracking head) compared with metal flap valves
- **Corrosion resistant :** high resistance to corrosion and UV degradation; no coatings needed; long service life; low maintenance
- **Quality :** ACWAPIPE is certified to ISO 9001 company.

## 3. MATERIAL

Item	Material	Advantage
Body and flap	GRP (Glass reinforced Isophtalic polyester resin)	Low weight combined with strength, durability and corrosion resistance
Seal	EPDM EN681-1	Long term resistance to ozone, UV and mechanical compression.
Hinge	(316) stainless steel or ERTACETAL Self-lubricating plastic.	Resistant to normal drainage and sewerage effluents and sea water
Fittings	(316) stainless steel	Resistant to normal drainage and sewerage effluents and sea water

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#### 4. AFV-15-I-GRP - ND 700 TO 1500 MM

- Inclined flap (minimum 15°)
- Flange international standard or non-standard drilling as per client.
- Back pressure : 1 bar (10 m head)
- Eye bolt an option

#### 5. DIMENSIONS AND DRAWING

