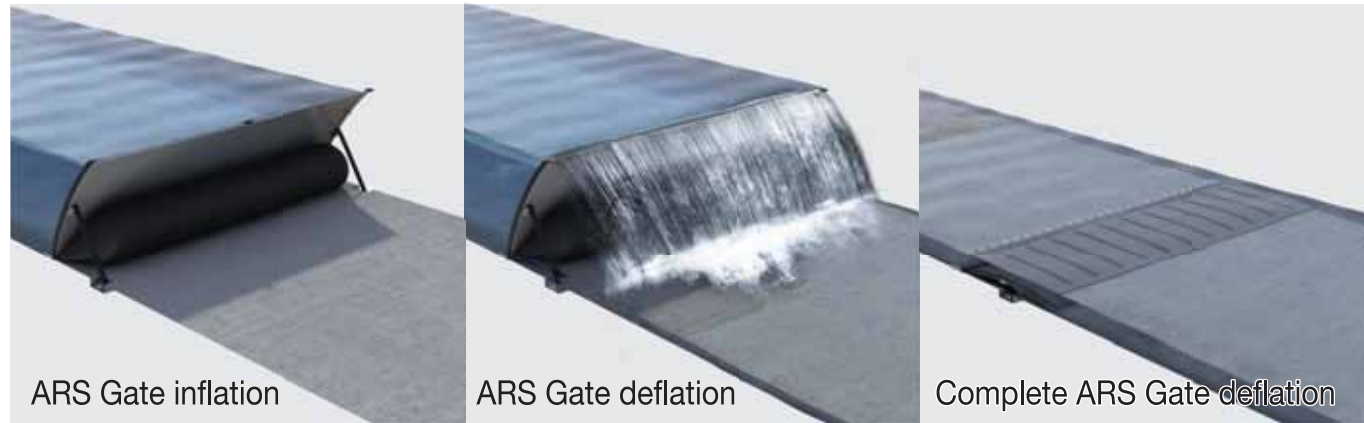


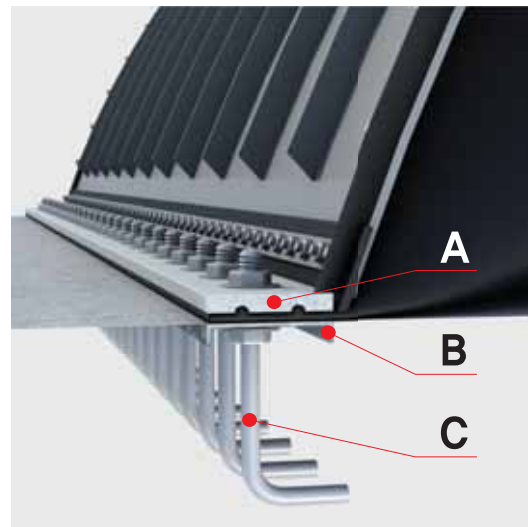
Introduction of ARS Gate

ARS Gate regulates headwater level and spillway discharge capacity via real time monitoring of individual gate panel height.

ARS Gate inflation & deflation

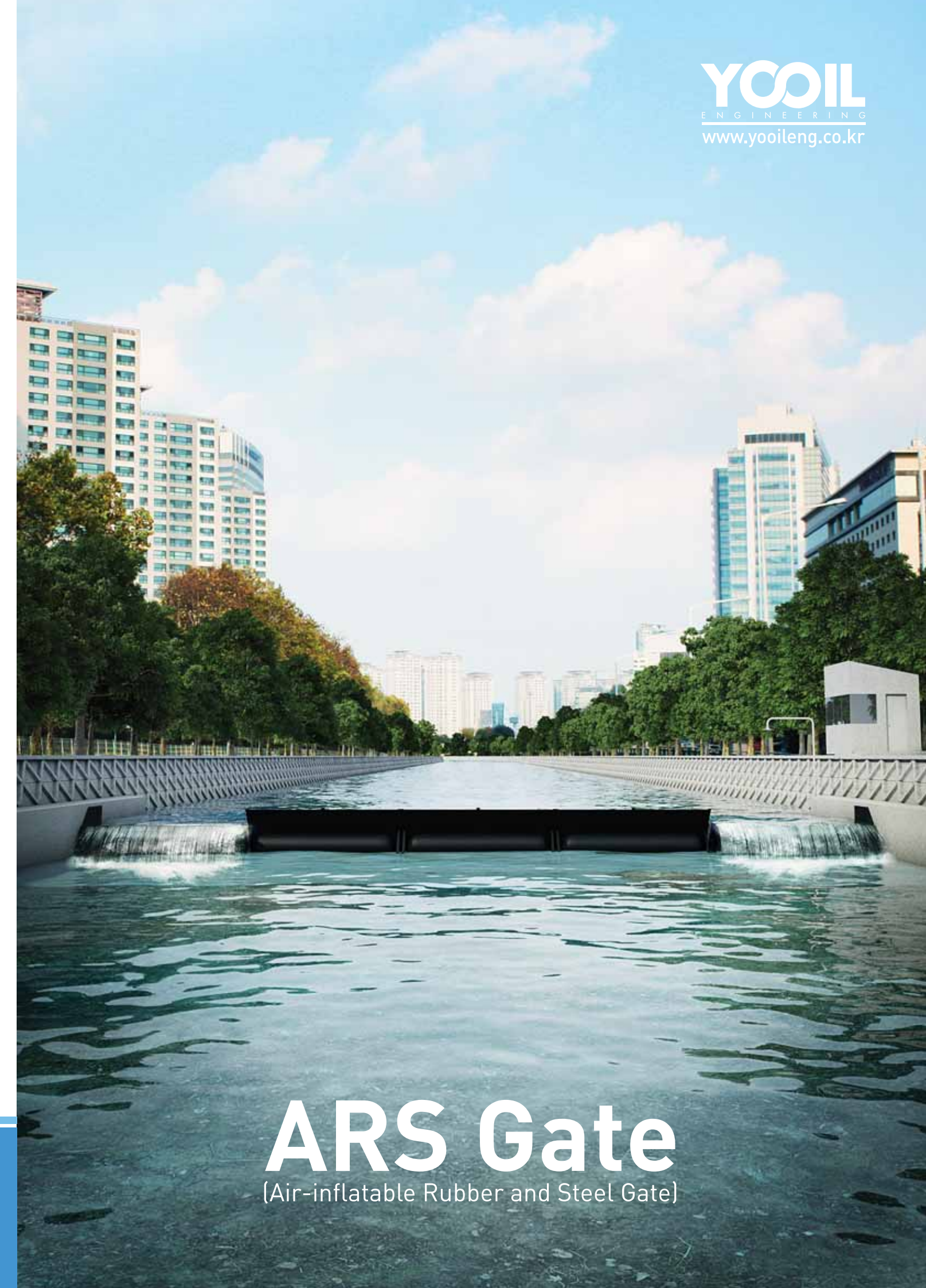
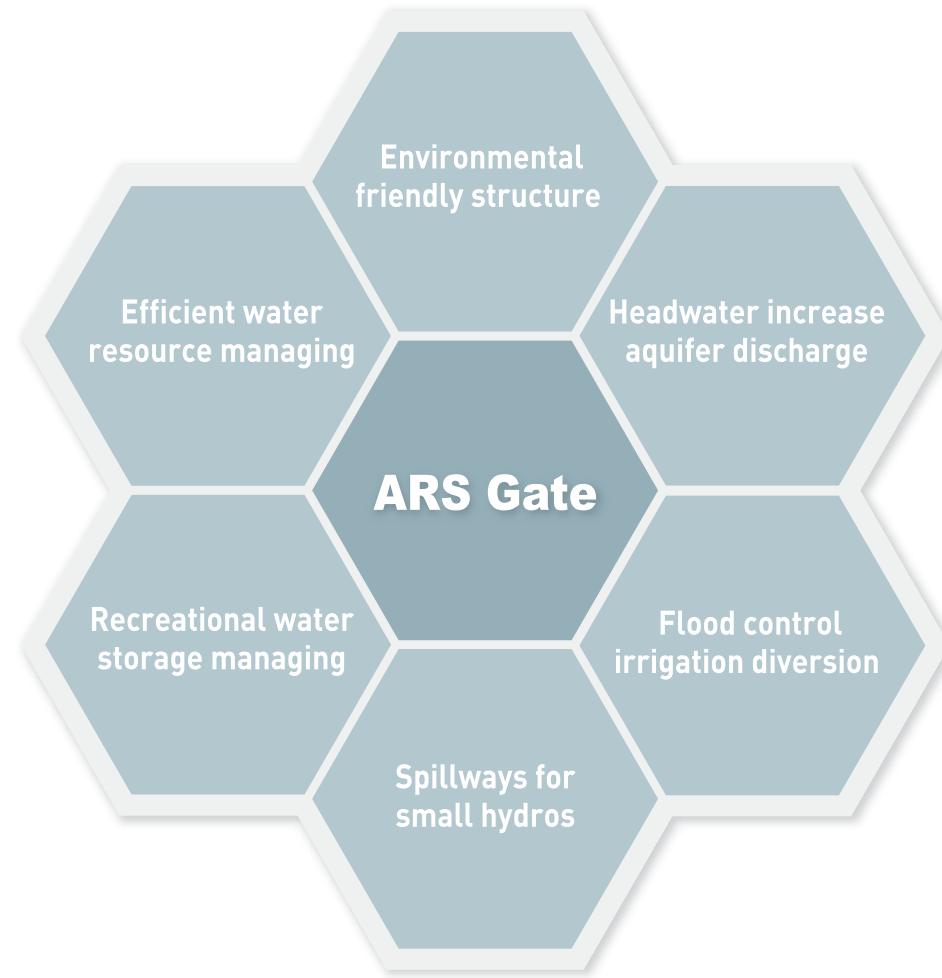


ARS Gate Components



- A. Clamping plates
- B. Embedded plates
- C. Anchor bolts

- 
Steel Panel
 Non-corrosive steel panels made with stainless steel, galvanized steel or patented Ceramic silicone coating (equivalent corrosion resistance as stainless steel)
- 
Leveling sensor
 Individual tilt sensors control angle of each gate for precise water level control
- 
Air bag
 Multiple layers of reinforced materials molded into single membrane to operate air pressured inflation and deflation
- 
EPDM side sealant
 EPDM side sealant to prevent water leakage from end of gate and side walls.
- 
Deflector
 Prevents cavitation caused by overflow of water



Precise Water Level Control : ARS Gate



ARS Gate construction steps



1



2



3



4

1. Foundation work
2. Installation of embedded fixings and pipe lines
3. Concrete pouring and curing
4. Installation of air bags
5. Installation of gate panels
6. EPDM side sealant installation
7. Installation of sensors and control panels
8. Testing and commissioning of ARS gate system



5



6

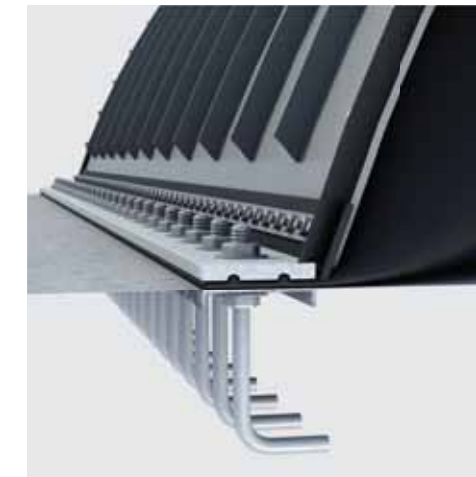


7



8

Advantages of YOOIL ARS Gate system



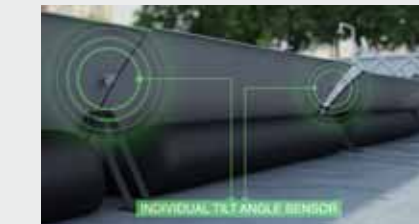
Structurally advanced

Precise measurement and engineering to assure maximum capacity withstand against all aspects



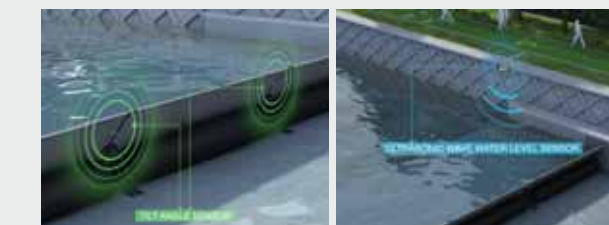
Drift prevent and individual gate control

Individual pressure and level control of each air bags/gates to prevent one sided drift overflow. Individual operation of each gate panel provides necessary control of water storage.



Real time water flow calibration

State of art gate panel sensors and headwater level sensor calculates to provide spillway water overflow algorithm which leads to precise control of water resource.



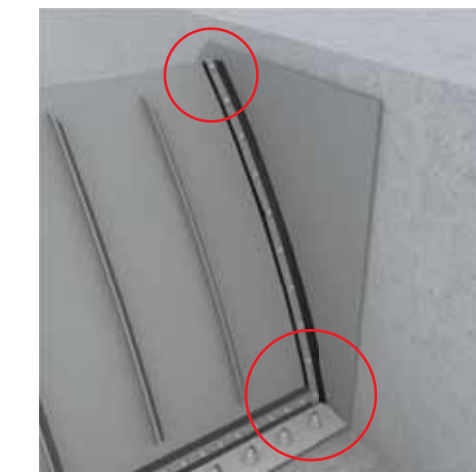
Simple yet effective

High tensile EPDM anti-inversion resist band located at simplest and effective position.



State of art air supply/exhaust valve system

Precise and rapid control of air pressure inside air bags. MOV, manual inflation/ deflation valves and emergency mechanical fail-safe valves all incorporating in synchronized operation for most accuracy.



Water tight sealant

EPDM side sealant prevents water leakage from side walls.

