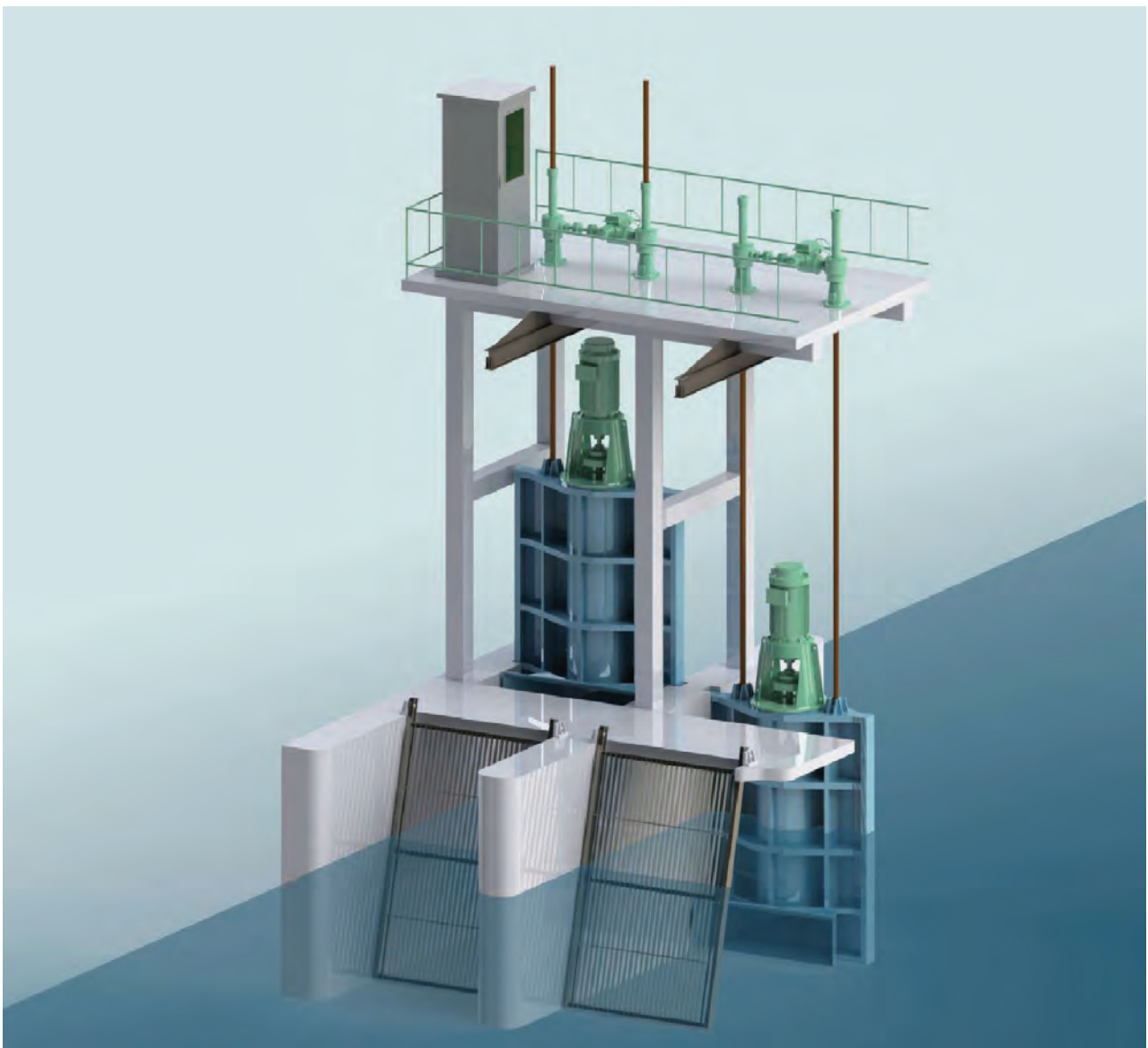




EBARA

Integrated Gate Pump System

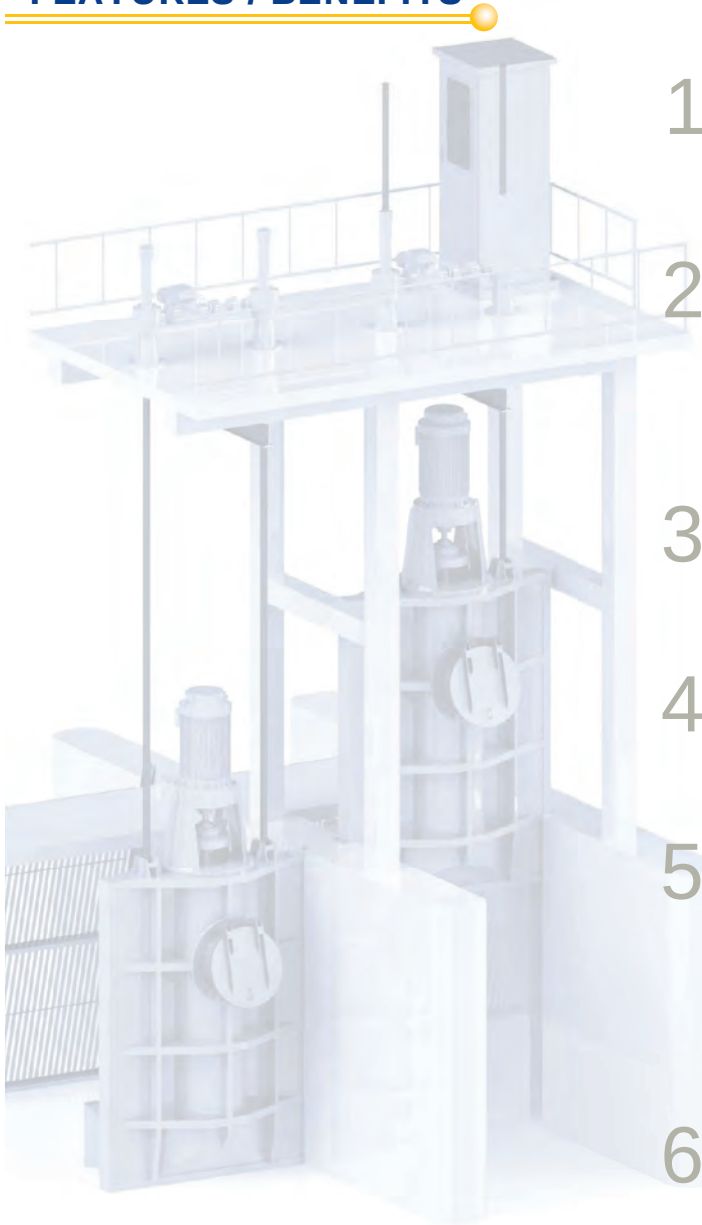
Flood Control



Drainage : Waste water / Rain water ■ Agriculture : Irrigation / Drainage

Integrated Gate Pump System

FEATURES / BENEFITS



1 HIGH RELIABILITY

Due to Ebara pump and sluice gate are designed, manufactured and integrated synchronously by only one manufacturer, thus high reliability expected.

2 SMALL INSTALLATION SPACE

The system with pump is installed directly onto the sluice gate in the canal saves installation space and not necessary to build independent pumping station means no requirements for large installation area.

3 SHORT CONSTRUCTION TIME

Compact design and small construction area will shorten construction time.

4 SIMPLE AND ROBUST STRUCTURE

The pump is integrated into the sluice gate to form a unified unit makes the structure simple.

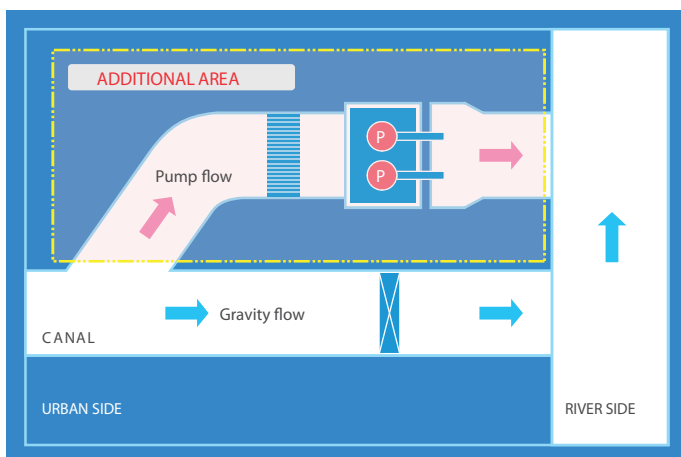
5 EASY OPERATION AND MAINTENANCE

Because of the integration between pump and sluice gate at the same position, the operation becomes more convenient and simple. On the other hand, the easy assembly/disassembly of pump makes maintenance work easier while maintains proper functioning of sluice gate.

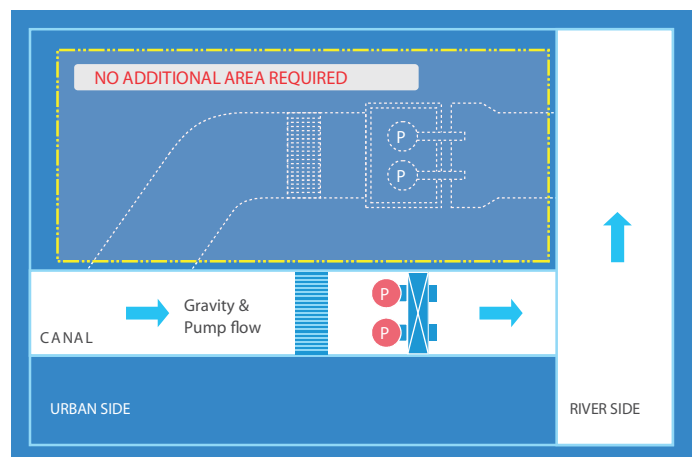
6 LOWER COST OF CONSTRUCTION AND EQUIPMENT

No need to build separate pumping station could reduce the project cost. Besides, the combination of pump and sluice gate also reduces equipment costs.

COMPARISON of AREA USED FOR CONSTRUCTION

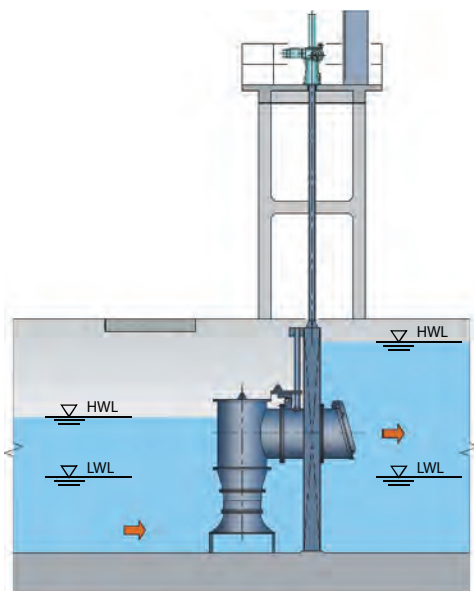


CONVENTIONAL PUMP SYSTEM



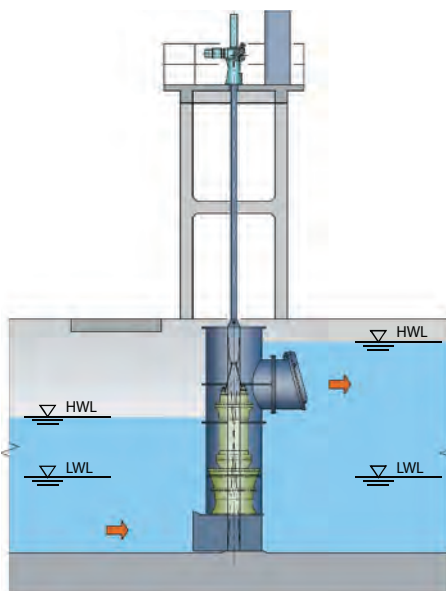
INTEGRATED GATE PUMP SYSTEM

TYPICAL INSTALLATION



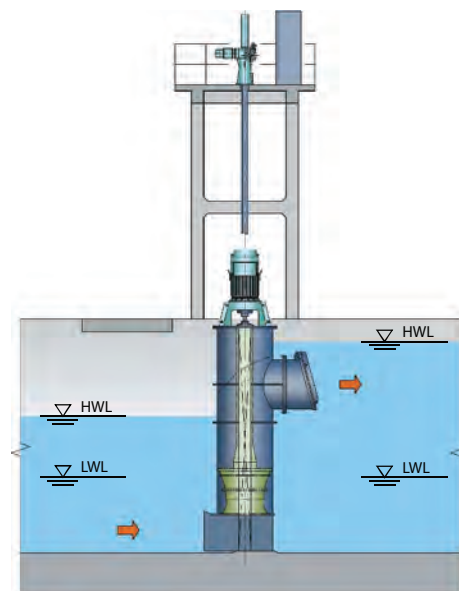
TYPE 1

ATTACHMENT - SUBMERSIBLE PUMP
(QUICK DISCHARGE CONNECTOR TYPE)



TYPE 2

INTEGRATED - SUBMERSIBLE PUMP
(PULL-OUT TYPE)



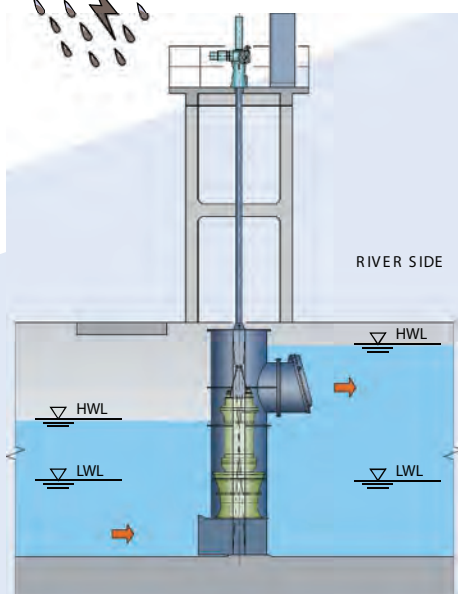
TYPE 3

INTEGRATED - VERTICAL PUMP
(PULL-OUT TYPE)

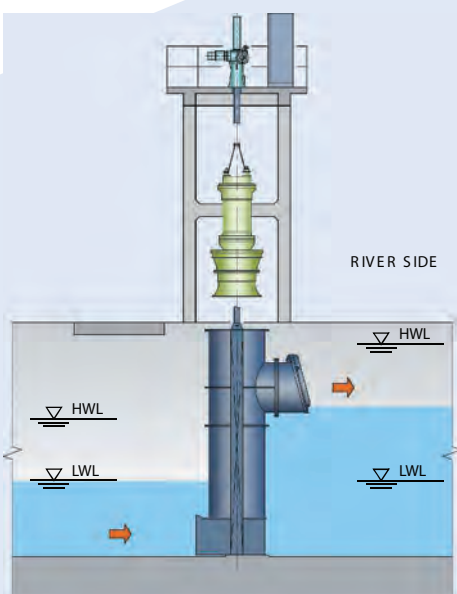
SPECIFICATIONS			
	TYPE 1	TYPE 2	TYPE 3
PUMP TYPE *	Vertical submersible pump DSL	Vertical submersible pump DSZ	Pull-out vertical pump VSP
LIQUID	Waste water, rain water		
MOTOR	Submersible motor	Submersible motor	Vertical dry motor
VOLTAGE	400V		
STARTING METHOD	DOL - Y/Δ - Reactor - Inverter		
SHAFT SEAL	Mechanical seal	Mechanical seal	Gland packing or Deflector
GATE TYPE	Slice or Roller		
GATE OPERATION	Electric or Manual		
WATER SEAL	Seal rubber, 3 sides		

Note : Pump and gate size shall be designed depending on customer's requirements. (*) Horizontal pump type is also available. Please consult us for specific details.

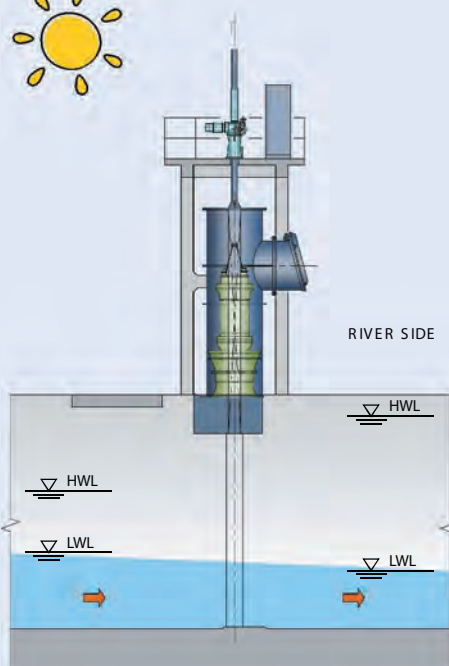
OPERATION and MAINTENANCE



1 FOR PUMP DRAINAGE
(CLOSE GATE & OPERATE PUMP)



2 FOR REVERSE FLOW STOPPING
& PUMP MAINTENANCE
(CLOSE GATE & LIFT UP PUMP
FOR MAINTENANCE)



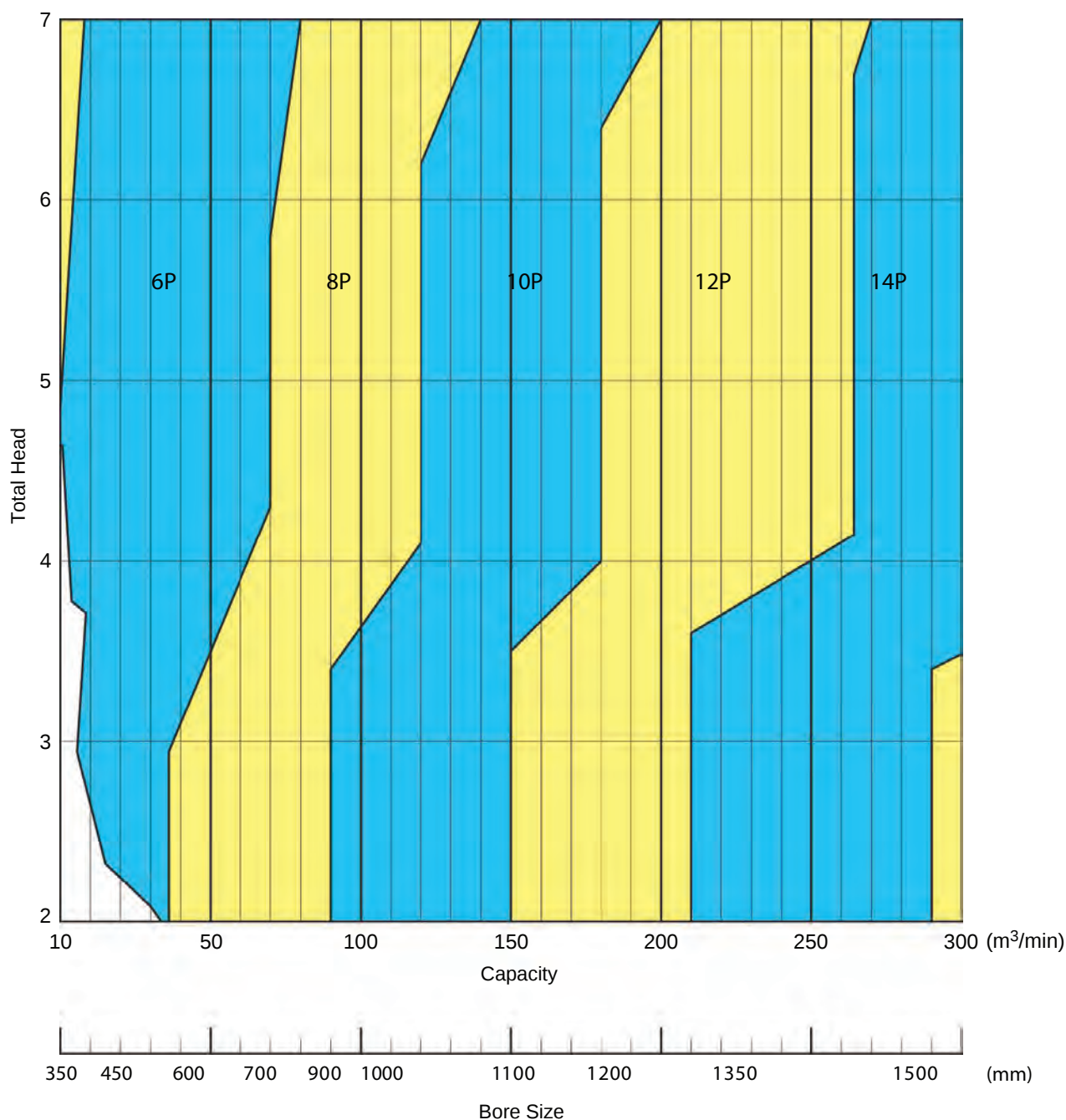
3 FOR NATURAL DRAINAGE
(OPEN GATE)

PUMP SELECTION CHART

PUMP SIZE 350 - 1500 mm

CAPACITY 10 - 300 m³/min

TOTAL HEAD 2 - 7 m



Note :

- For detail selection, please contact our factory.
- Pump rating not in the chart is also available.
- Selected bore/speed may differ depending on actual service conditions.

* Dimensional details are provided for reference only. * All specifications are subject to change without prior notice.



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Authorised dealer: