PLANTA DE TRATAMIENTO DE AGUA POTABLE MODULARES

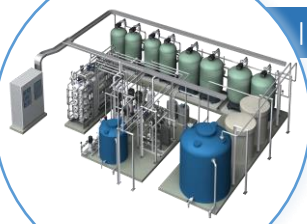
㈜오성기공

OSUNG Productos principales

Butterfly Valves

KS B 2333
Metal Seat Butterfly Valves
Certificate of Designation of
Excellent Product

Industrial System

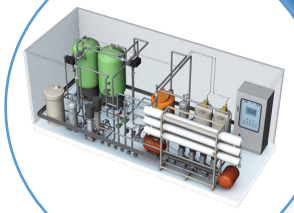


Dike Sluice for river, river bank
Strong and high corrosive
resistance
Motor operation

Rotary Screen

OSM-G Series Rotary Screen

Container IoT System

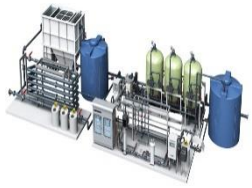


Wireless/Self-Power CCTV
Broadcasting System
Situation Room
Control program

Ground water treatment system

Ground water, Surface water

Water treatment system



Auto strainer
Dual filter / Micro filter/ RO
UV sterilizer

Network


KOREA WATER CLUSTER
국가물산업클러스터
Korea Water Cluster
실증화 시설 및 물 융합연구
K water
K-water
통합 물관리 시스템 개발 협력
ktl 한국산업기술시험원 Korea Testing Laboratory
Laboratorio nacional de ensayo
K마크 및 신뢰성 인증
KFC 한국농어촌공사
Cooperacion nacional de Rural
수자원 연구 및 환경시험 분석 협력
KTC
한국기계전기전자시험연구원
KTC
KS 인증, KC 인증 , 시험분석
대구환경공단
Empresa publica de Daegu
환경기초시설 통합 처리기술 협력
DYETEC 다이텍연구원
Centro de iInvestigacion textiles
수질분석 및 환경유해 물질분석
영남대학교 Yeungnam University
Uni. Yeungnam
산학협력(휴스타 지원사업)

Seleccion de procesos

Agua crudo
1.Mar
2.Rio
3.Pozo
4.Subterranea/quebradas

Calidad del agua
1.Cloro
2.Arsenico
3.Uranio
4.Turbiedad

Consumo
Condicion
Ubicacion
Energia
Presupuesto

Factores	procesos
Turbiedad	Filtro
Nitrogeno	Eliminador de nitrogeno
E.coli	UV
Arsenico	Eliminador de Arsenico
Fluor	Intercambio de iones
Uranio	Eliminador de pesados

Water Treatment System (Tailor Made Solution)

- One System Multi Solution + Remote Water Quality Monitoring System
- 5 STEP FILTRATION + 2 STEP DISINFECTION

  Auto Filter –> Multi Media, Activated Carbon, Heavy Metal – > Micro Filter, UV Disinfection, Chlorination

500m3/day (5.8L/S)
for 2,000 residents

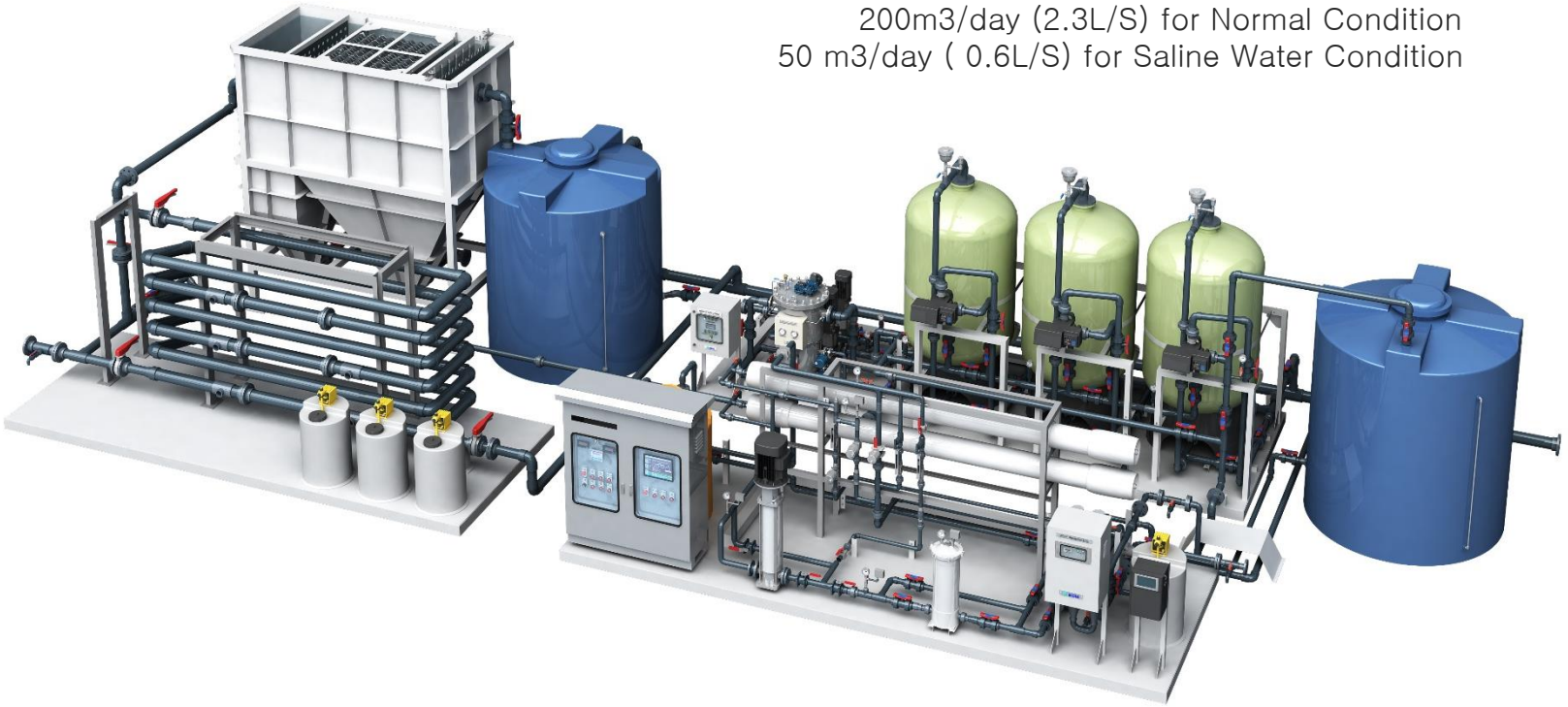
L) 2018 Korea International Water Week

M) 400m3/d System Donation to Vietnam (2017.11)

R) 500m3/d System Commissioning (2018.09)

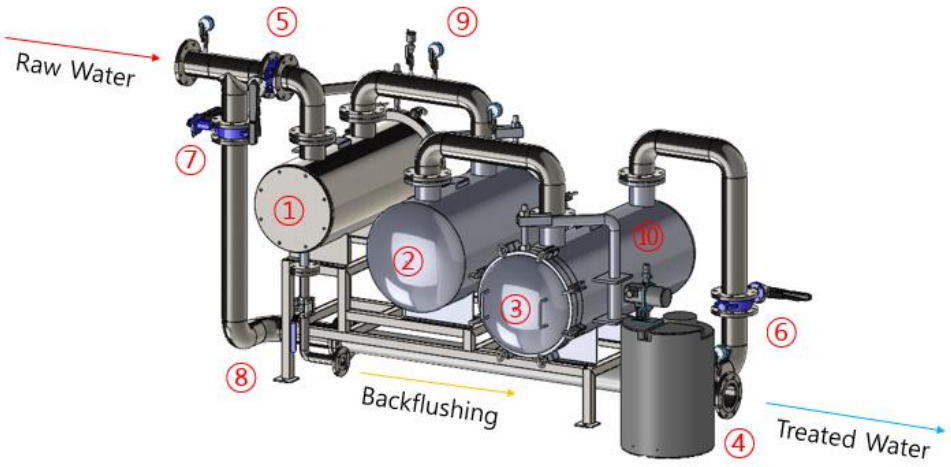
Water Treatment System (Variable Operation : Normal, High Turbidity, Saline Water)

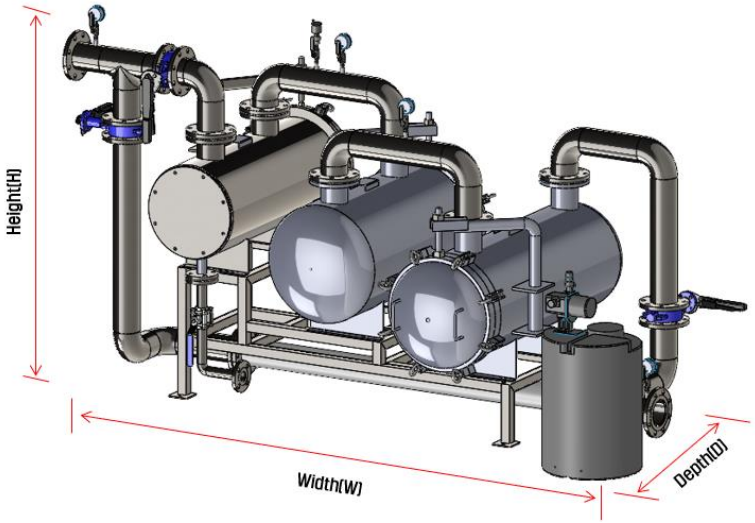
200m3/day (2.3L/S) for Normal Condition
50 m3/day (0.6L/S) for Saline Water Condition



- Normal ： Auto Filter – Multi Media – Activated Carbon – Heavy Metal – UV – Chlorination
- High Turbidity： Pipe Flocculation – Sedimentation –> Normal Operation
- Saline Water： High Turbidity –> Normal Operation –> SWRO Operation

Ejemplos



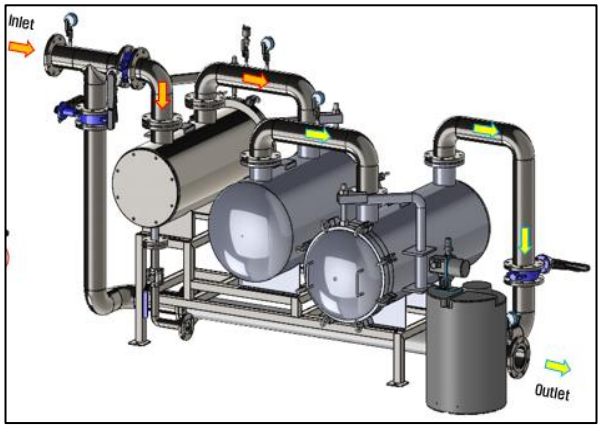


No	Name	No	Name
1	Housing (Backflushing Filter)	6	Outlet Valve
2	Housing (Bag Filter)	7	By-pass Valve
3	Housing (Cartridge Filter)	8	Backflushing Valve
4	Chemical Injection Pump/Tank	9	Pressure Gauge
5	Inlet Valve	10	Sight Glass

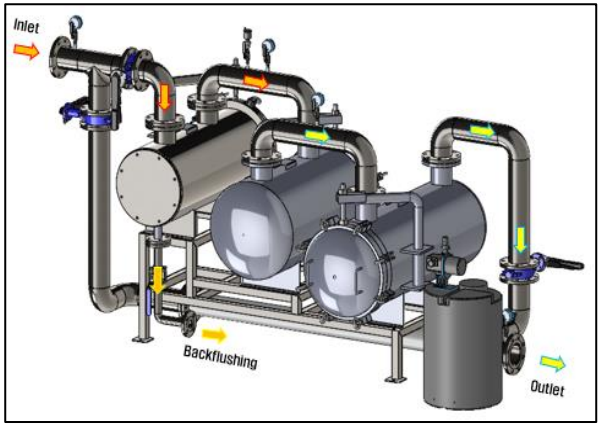
Model	Size (mm)			Weight (kg)			
	Width	Depth	Height	Equipment	Pipe	Frame	Total
MD WTS-010 (2.3L/S)	1,900	1,350	1,350	65	75	25	165
MDWTS-050 (11.6L/S)	2,700	1,600	1,550	265	150	30	445

Operation Process

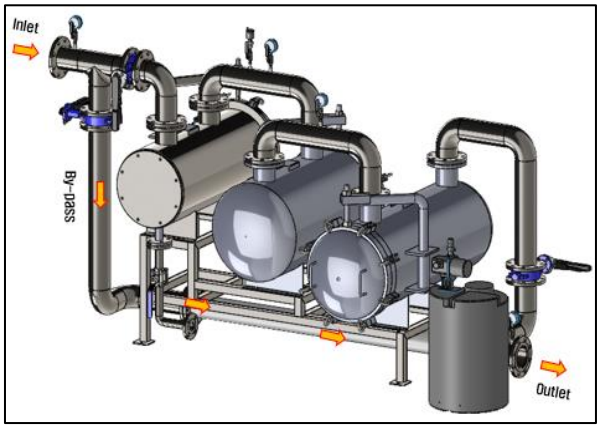
☐ System Process



[Filtration]

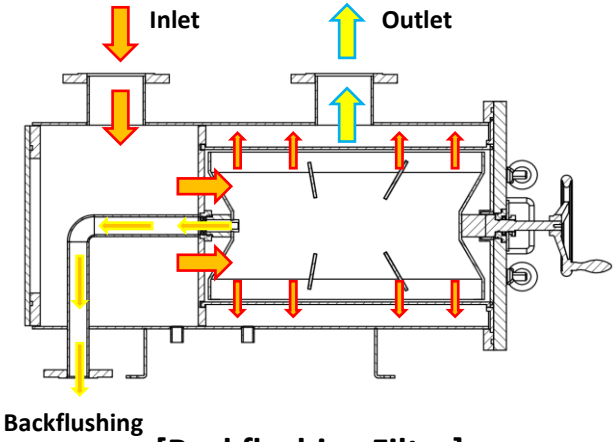


[Backflushing]

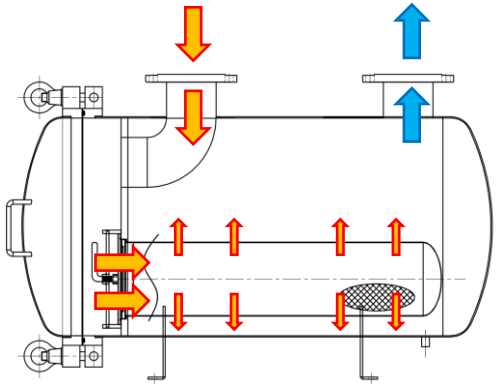


[By-pass]

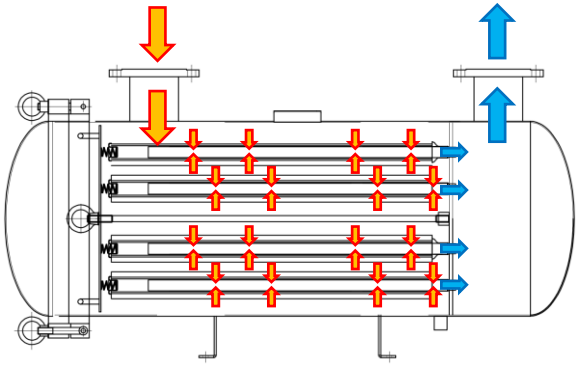
☐ Item Process



[Backflushing Filter]

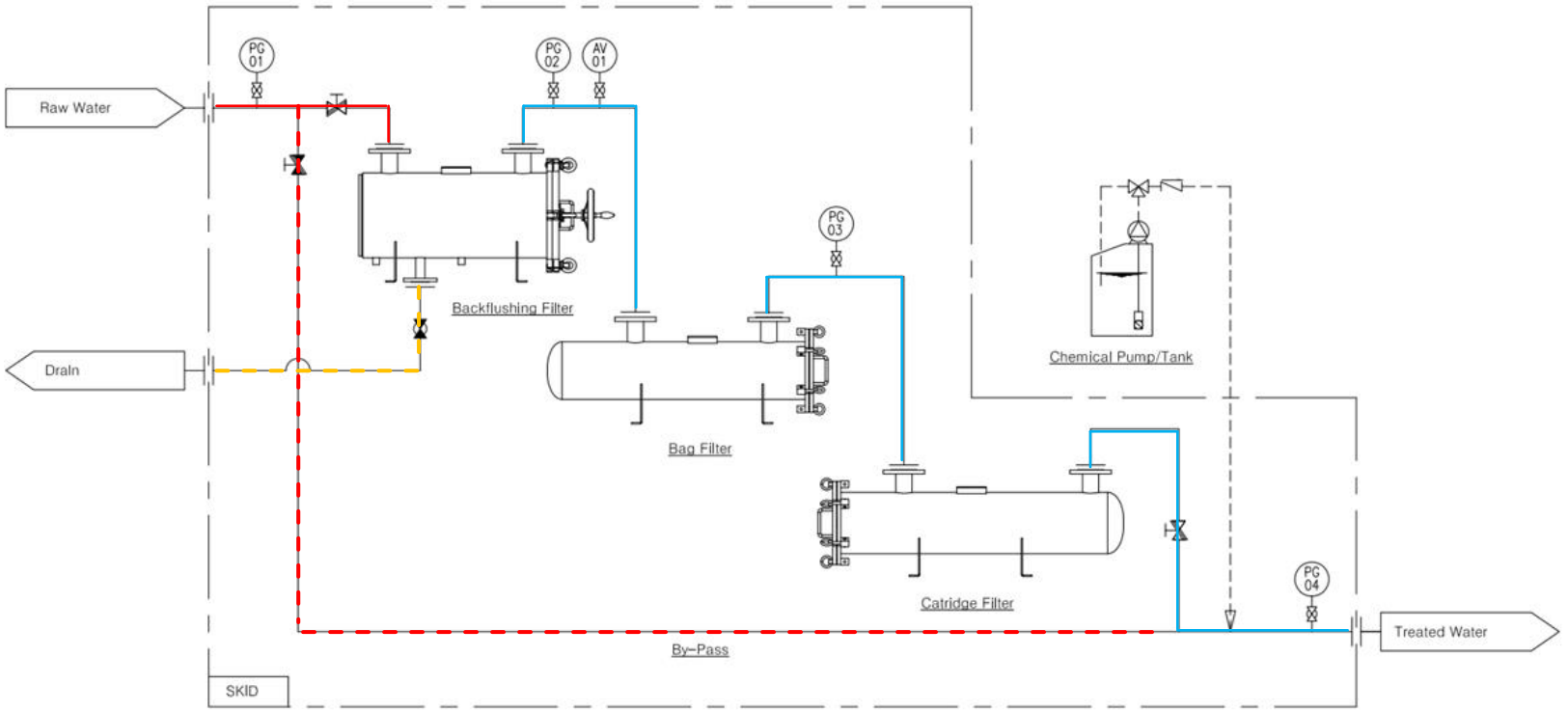


[Bag Filter]



[Cartridge Filter]

P&ID



Backflushing Filter
- Capacity : 10, 50 m3/h
  (200, 1000 m3/d)
- Type : Wedge wire screen, STS 304
- Screen Size : 50um ~

Bag Filter
- Capacity : 10, 50 m3/h
  (200, 1000 m3/d)
- Type : Bag Filter, P.P
- Filter Size : 10um ~

Cartridge Filter
- Capacity : 10, 50 m3/h
  (200, 1000 m3/d)
- Type : Cartridge Filter, P.P
- Filter Size : 1um ~

Chemical Injection pump/tank
- Capacity : Max. 25mL/min, 14bar
- Type : Solenoid Diaphragm Pump
- Power : 1Φ x 110V x 15W(0.4A)
- Tank : 50Lit, PE

Installation Place

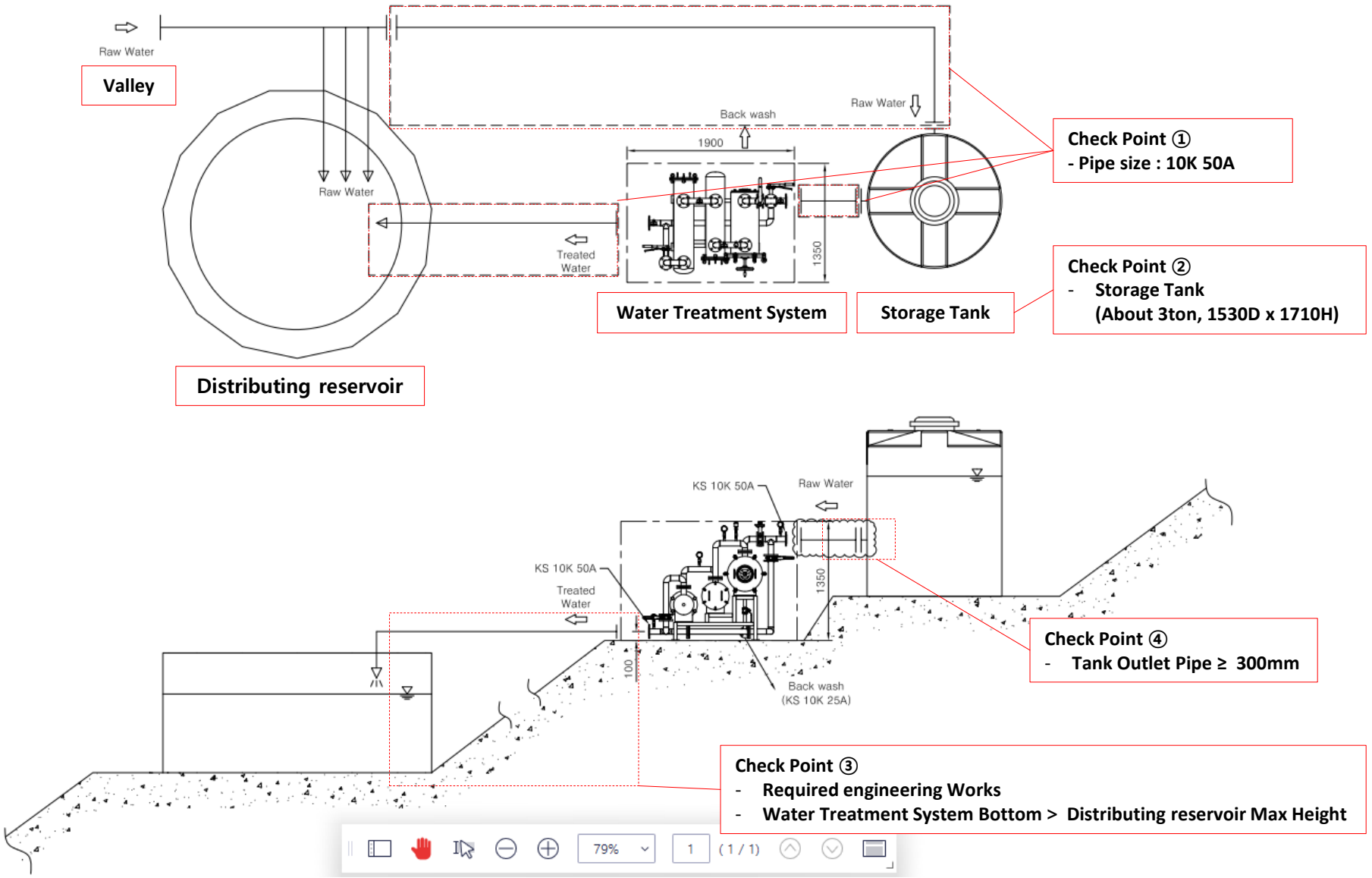
No	Place	Capacity	Number of User	Treatment Process	Pipe Size
1	La Pradera	200 m3/day (2.3 L/S)	225 household (900~1000 Users)	Valley -> Sand basin -> Water Treatment Sysem -> Distributing reservoir -> Household	10K 50A
2	Buenavista	200 m3/day (2.3 L/S)	380 household (1,500 Users)	Valley -> Water Treatment System -> Distributing reservoir -> Household	10K 50A
3	Playa Rica	1,000 m3/day (11.6 L/S)	920 household (5,000 Users)	Valley -> Water Treatment System -> Sand basin -> Household	10K 100A

[La Pradera]

[Buenavista]

[Playa Rica]

Drawing – La Pradera (200 m3/d)



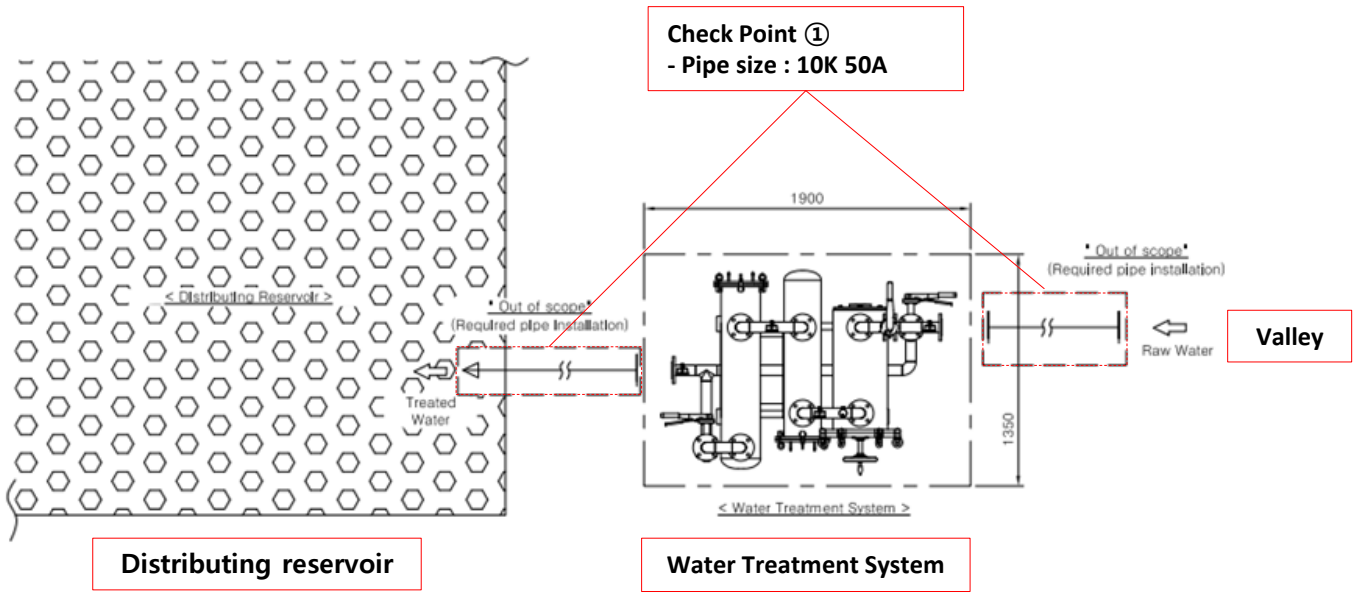
Check Point ①
- Pipe size : 10K 50A

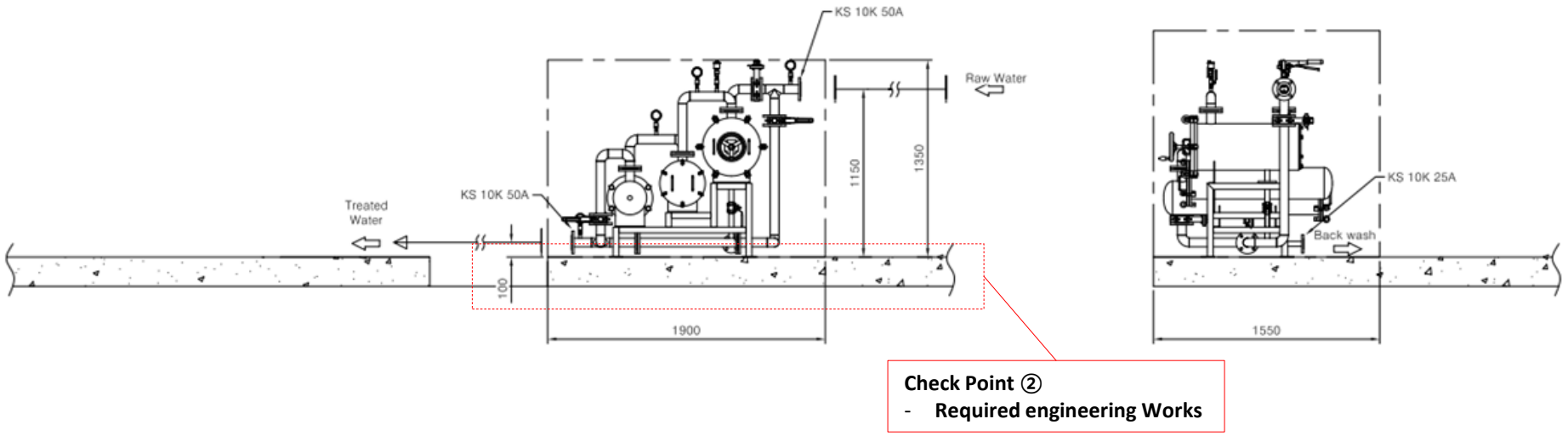
Check Point ②
- **Storage Tank (About 3ton, 1530D x 1710H)**

Check Point ④
- **Tank Outlet Pipe ≥ 300mm**

Check Point ③
- **Required engineering Works**
- **Water Treatment System Bottom > Distributing reservoir Max Height**

Drawing – Buenavista (200 m3/d)





Drawing – Playa Rica (1,000 m3/d)