JANUS POWER CENTRE

AXIAL PISTON PUMP (APP) WITH INTEGRATED ENERGY RECOVERY

SIMPLICITY

Simply add filtered sea water 10µm abs. and connect to a membrane. Your system is complete, offering the lowest energy input possible.



CONNECT THE POWER CENTRE WITH 4 FLEXIBLE HOSES

- Water inlet from filtered source
- Pump output direct to the membrane Victaulic connection
- Membrane brine Victaulic connection to the ERD
- ERD to drain
- + 2 case lubrication flow flexible hoses to drain

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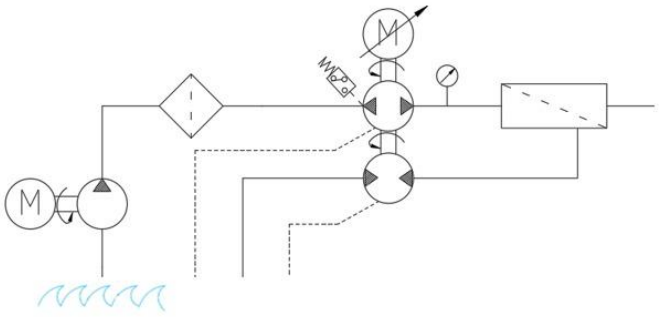
AXIAL PISTON PUMP (APP) WITH INTEGRATED ENERGY RECOVERY

The Water Hydraulics Co. Ltd.

SIMPLIFY BY DESIGN

WITH PUMP INTEGRATED ENERGY RECOVERY

Eliminates the need for:



- Pressure exchanger
- High pressure booster pump and electric motor
- Additional inverter drive
- High pressure check valves
- High pressure bypass valve and flow control valve
- High pressure fittings and joints
- Expensive instrumentation for system set up
- Expensive frames and mountings
- Expensive pipe work and assembly costs
- Pulsation damper (9 piston design)
- High pressure pipe work – only 4 flexible hoses to connect, no additional fittings
- Long system build time, pipe fitting/welding – operational in hours, not days

HIGHEST EFFICIENCY FROM THE SIMPLEST DESIGN

Make all of the cost savings above, then operate the system at a “Best in Class” energy consumption; as low as 2kW/m³ of permeate produced, with no hidden operating costs for additional equipment and drives.

bsi ISO 9001 Quality Management Systems CERTIFIED
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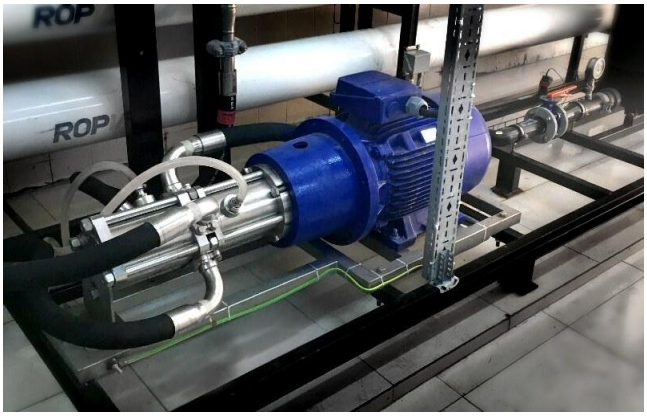
COMPACT DESIGN

Smallest footprint of all RO solutions on the market. Minimise total system footprint and save on transport, site and installation space for your system.

ON SITE SERVICE

On site service can be conducted in a matter of hours, delivering “As new” performance and life expectancy.

- Service parts are readily available.
- No special tooling required to conduct a full service.



ALL DUPLEX

All wetted components are produced from precision machined 2205 wrought bar material. No castings.

BUILT IN SAFETY

The pumps are fitted with a pressure switch to prevent operation when inadequate supply pressure results. The ERD has a back pressure valve fitted in the return port:

- No additional fittings
- No manual setting for the brine return pressure

SELECTION SOFTWARE

Use our manufacturer’s software to help select the most efficient and cost effective assembly for your system requirements at www.waterhydraulics.co.uk

Also see our Axial Piston Pumps brochure for 9 sizes of desalination pumps up to 1000m³/day.

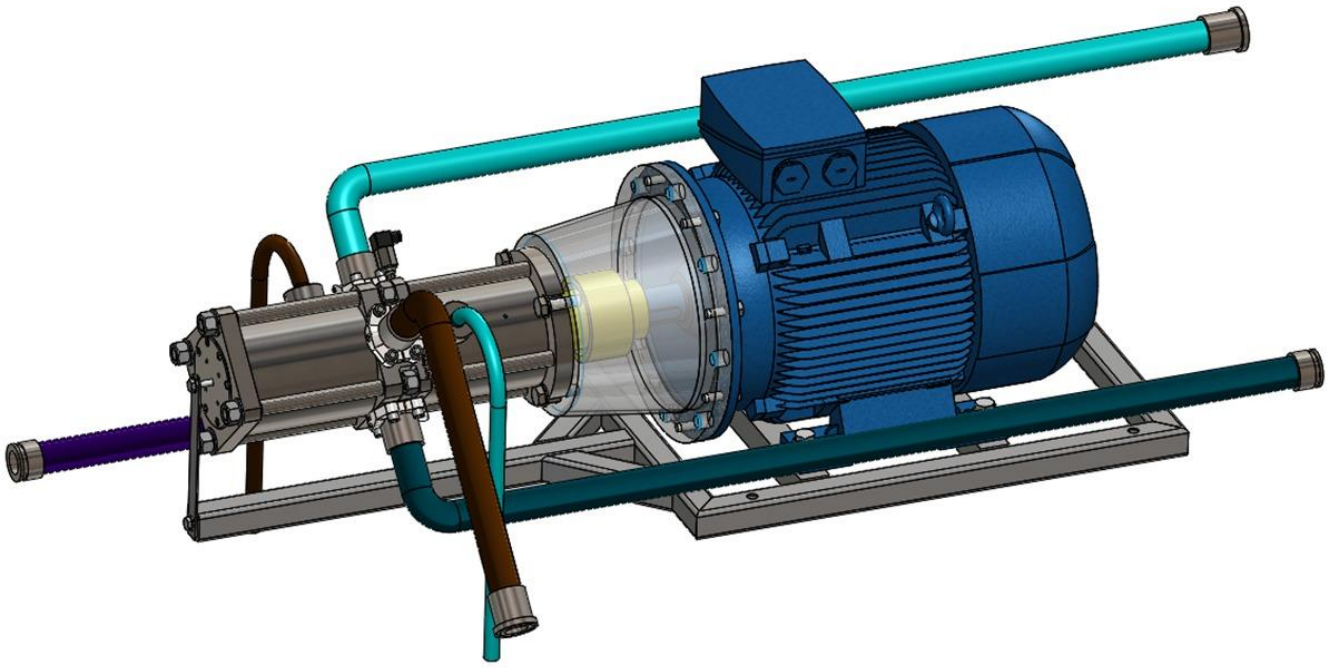
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AXIAL PISTON PUMP (APP) WITH INTEGRATED ENERGY RECOVERY

POWER CENTRE ASSEMBLY

Low Pressure Filtered Sea Water
High Pressure Sea Water
High Pressure Brine solution
Low Pressure Brine (to drain)



Item Number	Description	Quantity
1	Electric Motor Inverter driven	1
2	Power Centre	1
3	Mounting Frame	1
4	Bellhousing & Flexible Gear Coupling	1
5	Inlet Protection Pressure Switch	1